### Annex 7: Literature study report

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## Q1. How should the care for women undergoing FP be organized?

#### Search strings

DATABASE	Search string
PUBMED	("Fertility Preservation"[Mesh] OR "Fertility Preservation") AND ("Care" OR "Oncofertility program" OR "Organisation" OR "Multidisciplinary" OR "patient navigator" OR "organization of care" OR "referral pathway" OR "Patient Care Team"[Mesh] OR "Patient Navigation"[Mesh])
COCHRANE	("Fertility Preservation") AND ("Care" OR "Oncofertility program" OR "Organisation" OR "Multidisciplinary" OR "patient navigator" OR "organization of care" OR "referral pathway" OR "Patient Care Team" OR "Patient Navigation")

This question is a narrative question. The search resulted in 628 references. The most relevant papers were selected and combined with expert opinion of the GDG members and other papers suggested by the GDG members.

## Q2. Which information needs to be provided to women at risk of infertility?

This question was answered as a narrative question, based on the results of the literature search for Question 3. Relevant references were selected and combined with expert opinion from the GDG members, and information form additional papers suggested by the GDG members.

## Q3. How should information on fertility preservation options be provided to patients?

DATABASE	Search string
PUBMED	("Neoplasms"[Mesh] OR Cancer OR tumor OR neoplasm OR malignancy OR neoplasms) AND ("Fertility Preservation"[Mesh] OR "Fertility Preservation") AND ("Consumer Health Information"[Mesh] OR "health information" OR information OR "information provision" OR "Written information" OR "Leaflet" OR "Hot-Line" OR "help-Line" OR "help-line" OR hotline OR Counseling OR "personal contact" OR "Webpages" OR "shared decision making" OR "Informed consent" OR "Informed Consent"[Mesh] OR "Counseling"[Mesh] OR "HotLines"[Mesh] OR "Decision Making"[Mesh] OR "Consent Forms"[Mesh] OR "Decision Support Techniques"[Mesh] OR "Clinical Decision-Making"[Mesh] OR "Decision Analysis" OR "Decision Support" OR "Decision Aid" OR "Decision Support Systems, Clinical"[Mesh]]
PUBMED	("Systemic lupus erythematosus" OR "Lupus Erythematosus, Systemic" [Mesh] OR "Behcet's disease" OR "Behcet Syndrome" [Mesh] OR "Churg-Strauss syndrome" OR "Churg-Strauss Syndrome" [Mesh] OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" OR "Glomerulonephritis" [Mesh] OR "Granulomatosis with polyangiitis" OR "Wegener's granulomatosis" OR "Granulomatosis with Polyangiitis" [Mesh] OR "Inflammatory bowel diseases" OR "Crohn Disease" OR "ulcerative colitis" OR "Inflammatory Bowel Diseases" [Mesh] OR "Arthritis, Rheumatoid" [Mesh] OR "Rheumatoid arthritis" OR "Pemphigus vulgaris" OR "Pemphigus" [Mesh] OR "Autoimmune Diseases" [Mesh] OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR "Autoimmune Diseases" [Mesh] OR "Haematologic a diseases" OR "Hematologic Diseases" [Mesh] OR "Autoimmune Diseases" [Mesh] OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR Anemia" [Mesh] OR "Autoimmune Diseases" [Mesh] OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR Anemia" [Mesh] OR "Autoimmune Diseases" [Mesh] OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR Anemia" [Mesh] OR "Sickle cell anaemia" OR "thalassaemia major" OR "plastic anaemia" OR "Altered hypothalamic –pituitary-gonadal axis" OR "Ovarian oophoritis" OR 'Oophoritis" [Mesh] OR "Benign ovarian tumours" OR "Mosaic Turner's syndrome" OR "Turner Syndrome" [Mesh] OR "Fagile X Mental Retardation 1" OR "Fragile X Syndrome" [Mesh] OR Edactosaemia OR "Galactosemias" [Mesh] OR "Beta-thalassaemia" OR 'beta-Thalassemia" [Mesh] OR "Endometriosis" [Mesh] OR "Endometriosis"] AND ( <b>'Fertility Preservation' [Mesh] OR 'Fertility Preservation'</b> AND ('Consumer Health Information "[Mesh] OR "health information 'OR information OR 'information provision' OR "Written information" OR "leaflet" OR 'Hot-line' OR 'help-line' OR helpline' OR hotine OR Consent" [Mesh] OR 'Counseling [Mesh] OR "shared decision making" OR 'Informed consent' OR "Informed Consent"[Mesh] OR 'Counseling [Mesh] OR "h
PUBMED	('Transgender Persons'IMeshI OR Transgender OR Transsexual AND ('Fertility Preservation'IMeshI OR 'Fertility Preservation') AND ('Consumer Health Information'IMeshI OR 'health information' OR information OR 'information provision' OR 'Written information' OR 'leaflet' OR 'Hot-line' OR 'help-line' OR 'helpline' OR hotline OR Counseling OR 'personal contact' OR 'Webpages' OR 'shared decision making' OR 'Informed consent' OR 'Informed Consent'IMeshI OR 'Counseling'IMeshI OR 'Hotlines'IMeshI OR 'Decision Making'IMeshI OR 'Consent Forms'IMeshI OR 'Decision Support Techniques'IMeshI OR 'Cuinical Decision-Making'IMeshI OR 'Decision Analysis' OR 'Decision Support' OR 'Decision Aid' OR 'Decision Support Systems, Clinical'IMeshI)
PUBMED	("anticipated gamete exhaustion" OR "age-related fertility decline" OR "social freezing" OR "nonmedical freezing" OR "social egg-freezing" OR "Elective freezing") AND ('Fertility Preservation" [Mesh] OR "Fertility Preservation") AND ('Consumer Health Information" [Mesh] OR "health information" OR information OR "information provision" OR "Written information" OR "leaflet" OR "hot-line" OR "help-line" OR hotline OR Counseling OR "personal contact" OR "Webpages" OR "shared decision making" OR "Informed consent" OR "Informed Consent" [Mesh] OR "Counseling" [Mesh] OR "Hotlines" [Mesh] OR "Decision Making" [Mesh] OR "Consent Forms" [Mesh] OR "Decision Support Techniques" [Mesh] OR "Clinical Decision-Making" [Mesh] OR "Decision Analysis" OR "Decision Support" OR "Decision Aid" OR "Decision Support Systems, Clinical [Mesh]]
PUBMED	('Fertility Preservation'IMesh] OR "Fertility Preservation') AND ('Consumer Health Information'IMesh] OR "health information" OR information OR "information provision" OR "Written information" OR "leaflet" OR "Hot-line" OR "help-line" OR "helpline" OR hotline OR Counseling OR "personal contact" OR "Webpages" OR "shared decision making" OR "Informed consent" OR "Informed Consent'IMesh] OR "Counseling"IMesh] OR "Hot-lines" IMesh] OR "Decision Making"IMesh] OR "Consent Forms"IMesh] OR "Decision Support Techniques"IMesh] OR "Clinical Decision- Making"IMesh] OR "Decision Analysis" OR "Decision Support" OR "Decision Aid" OR "Decision Support Systems, Clinical"IMesh] NOT SEARCH 1-4
COCHRANE merged	("Fertility Preservation") AND ("health information" OR information OR "information provision" OR "Written information" OR leaflet OR Hot-line OR help-line OR helpline OR hotline OR Counseling OR "personal contact" OR Webpages OR "shared decision making" OR "Informed consent" OR "Decision Making" OR "Consent Forms" OR "Decision Support
Ŭ	Techniques" OR "Clinical Decision-Making" OR "Decision Analysis" OR "Decision Support" OR "Decision Aid")



Reference	Exclusion criterium
Silva C, Almeida-Santos AT, Melo C, Rama ACR. Decision on Fertility Preservation in Cancer Patients: Development of Information Materials for Healthcare Professionals. Journal of adolescent and young adult oncology 2017;6: 353-357.	Relevant outcomes are not assessed or inappropriately assessed
Giles C. Young people with cancer lack clear information about preserving fertility. BMJ (Clinical research ed) 2017;356: i6790.	PubType: Letter
Benedict C, Thom B, D NF, Diotallevi D, E MP, N JR, Kelvin JF. Young adult female cancer survivors' unmet information needs and reproductive concerns contribute to decisional conflict regarding posttreatment fertility preservation. Cancer 2016;122: 2101-2109.	Relevant outcomes are not assessed or inappropriately assessed
Gupta AA, Edelstein K, Albert-Green A, D'Agostino N. Assessing information and service needs of young adults with cancer at a single institution: the importance of information on cancer diagnosis, fertility preservation, diet, and exercise. Supportive care in cancer : official journal of the Multinational Association of Supportive Care in Cancer 2013;21: 2477-2484.	Relevant outcomes are not assessed or inappropriately assessed
Karaoz B, Aksu H, Kucuk M. A qualitative study of the information needs of premenopausal women with breast cancer in terms of contraception, sexuality, early menopause, and fertility. International journal of gynaecology and obstetrics 2010;109: 118-120.	Relevant outcomes are not assessed or inappropriately assessed
Roher SI, Gibson J, Gibson BE, Gupta AA. Listening through narratives: using a narrative approach when discussing fertility preservation options with young cancer patients. Current oncology (Toronto, Ont) 2017;24: 10-15.	Description of a narrative approach to discuss FP
Vu JV, Llarena NC, Estevez SL, Moravek MB, Jeruss JS. Oncofertility program implementation increases access to fertility preservation options and assisted reproductive procedures for breast cancer patients. Journal of surgical oncology 2017;115: 116-121.	Relevant outcomes are not assessed or inappropriately assessed
Korse NS, Nicolai MP, Both S, Vleggeert-Lankamp CL, Elzevier HW. Discussing reproductive health in spinal care, part II: fertility issues. European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society 2016;25: 2945-2951.	Relevant outcomes are not assessed or inappropriately assessed
Nawroth F. Fertility preservation consultation for women with cancer: are we helping patients make high quality decisions? Reproductive biomedicine online 2013;27: 29-30.	Comment
Quinn GP, Vadaparampil ST, Gwede CK, Miree C, King LM, Clayton HB, Wilson C, Munster P. Discussion of fertility preservation with newly diagnosed patients: oncologists' views. Journal of cancer survivorship : research and practice 2007;1: 146–155.	Relevant outcomes are not assessed or inappropriately assessed
Anderson RA, Weddell A, Spoudeas HA, Douglas C, Shalet SM, Levitt G, Wallace WH. Do doctors discuss fertility issues before they treat young patients with cancer? Human reproduction 2008;23: 2246-2251.	Relevant outcomes are not assessed or inappropriately assessed
Quinn GP, Vadaparampil ST, Bell-Ellison BA, Gwede CK, Albrecht TL. Patient-physician communication barriers regarding fertility preservation among newly diagnosed cancer patients. Social science & medicine 2008;66: 784-789.	Narrative review
Peate M, Smith SK, Pye V, Hucker A, Stern C, Stafford L, Oakman C, Chin-Lenn L, Shanahan K, Ratnayake Gamage N et al. Assessing the usefulness and acceptability of a low health literacy online decision aid about reproductive choices for younger women with breast cancer: the aLLIAnCE pilot study protocol. Pilot and feasibility studies 2017;3: 31.	Study protocol
Bradford A, Woodard TL. Novel Psychological Intervention for Decision Support in Women Considering Fertility Preservation Before Cancer Treatment. Journal of adolescent and young adult oncology 2017;6: 348-352.	PubType: Case report 3 cases)
Nicholas Z, Butow P, Tesson S, Boyle F. A systematic review of decision aids for patients making a decision about treatment for early breast cancer. Breast (Edinburgh, Scotland) 2016;26: 31-45.	Relevant outcomes are not assessed or inappropriately assessed
Gardino SL, Jeruss JS, Woodruff TK. Using decision trees to enhance interdisciplinary team work: the case of oncofertility. Journal of assisted reproduction and genetics 2010;27: 227-231.	Description of a decision tree
Giraudi S, Lambertini M, Anserini P, Poggio F, Iacono G, Abate A, Pastorino S, Levaggi A, D'Alonzo A, Vaglica M et al. Prospective study of fertility preservation strategies in young early breast cancer patients: the PREFER (PREgnancy and FERtility) trial Annals of oncology. 2015, pp. vi11.	Relevant outcomes are not assessed or inappropriately assessed
Nobel A, Chrisler J. Contributing factors to oncology practitioners' recommendations of fertility preservation for adolescent and young adult cancer patients Psycho-oncology. 2014, pp. 7-8.	It is the same study as Noobel Murray 2016
Winterling J, Wiklander M, Lampic C, Micaux OC, Eriksson L, Wettergren L. Development of an internet intervention targeting reproductive and sexual health following cancer Bone marrow transplantation. 2016, pp. S130.	It is a decription of the program. No results
Jukkala A. Breast cancer survivors and fertility preservation: ethical and religious considerations. Seminars in oncology nursing 2009;25: 278-283.	Relevant outcomes are not assessed or inappropriately assessed
Lambertini M, Anserini P, Fontana V, Poggio F, Iacono G, Abate A, Levaggi A, Miglietta L, Bighin C, Giraudi S et al. The PREgnancy and FERtility (PREFER) study: an Italian multicenter prospective cohort study on fertility preservation and pregnancy issues in young breast cancer patients. BMC cancer 2017;17: 346.	Study protocol
Nahata L, Tishelman AC, Caltabellotta NM, Quinn GP. Low Fertility Preservation Utilization Among Transgender Youth. The Journal of adolescent health 2017;61: 40-44.	Relevant outcomes are not assessed or inappropriately assessed
Inhorn MC, Birenbaum-Carmeli D, Westphal LM, Doyle J, Gleicher N, Meirow D, Raanani H, Dirnfeld M, Patrizio P. Medical egg freezing: the importance of a patient-centered approach to fertility preservation. Journal of assisted reproduction and genetics 2018;35: 49-59.	Relevant outcomes are not assessed or inappropriately assessed
Sawyer SM, McCarthy MC, Dunt D, McNeil R, Thompson K, Orme L, Drew SE. Fulfilling the Vision of Youth-Friendly Cancer Care: A Study Protocol. Journal of adolescent and young adult oncology 2016;5: 267-277.	Study protocol

Lotz L, Maktabi A, Hoffmann I, Findeklee S, Beckmann MW, Dittrich R. Ovarian tissue cryopreservation and retransplantationwhat do patients think about it? Reproductive biomedicine online 2016;32: 394-400.	Relevant outcomes are not assessed or inappropriately assessed
Banerjee R, Tsiapali E. Occurrence and recall rates of fertility discussions with young breast cancer patients. Supportive care in cancer 2016;24: 163-171.	Relevant outcomes are not assessed or inappropriately assessed
Buske D, Sender A, Richter D, Brahler E, Geue K. Patient-Physician Communication and Knowledge Regarding Fertility Issues from German Oncologists' Perspective-a Quantitative Survey. Journal of cancer education 2016;31: 115-122.	Relevant outcomes are not assessed or inappropriately assessed
Fertility preservation and consent. The Lancet Oncology 2014;15: 361.	It's an editorial. Consent of post-mortem use of gametes
Quinn GP, Vadaparampil ST. More research, more responsibility: the expansion of duty to warn in cancer patients considering fertility preservation. American journal of obstetrics and gynecology 2013;209: 98-102.	informative paper/ expert opinion ?
Duncan FE, Jozefik JK, Kim AM, Hirshfeld-Cytron J, Woodruff TK. The Gynecologist Has a Unique Role in Providing Oncofertility Care to Young Cancer Patients. US obstetrics & gynaecology 2011;6: _24-34.	informative paper/ expert opinion ?
Jukkala AM, Azuero A, McNees P, Bates GW, Meneses K. Self-assessed knowledge of treatment and fertility preservation in young women with breast cancer. Fertility and sterility 2010;94: 2396- 2398.	Relevant outcomes are not assessed or inappropriately assessed
Balthazar U, Fritz MA, Mersereau JE. Fertility preservation: a pilot study to assess previsit patient knowledge quantitatively. Fertility and sterility 2011;95: 1913-1916.	Relevant outcomes are not assessed or inappropriately assessed
Urech C, Ehrbar V, Boivin J, Muller M, Alder J, Zanetti Dallenbach R, Rochlitz C, Tschudin S. Knowledge about and attitude towards fertility preservation in young female cancer patients: a	Relevant outcomes are not assessed or inappropriately
cross-sectional online survey. Human fortility 2018;21: 45-51.	assessed
Johnson EK, Rosokiija I, Shurba A, D'Oro A, Gordon EJ, Chen D, Finlayson C, Holl JL. Future refutity for individuals with differences of sex development: Parent attitudes and perspectives about decision-making. Journal of pediatric urology 2017;13: 402–413.	Relevant outcomes are not assessed or inappropriately assessed
Villarreal-Garza C, Martinez-Cannon BA, Platas A, Mohar A, Partridge AH, Gil-Moran A, Fonseca A, Vega Y, Bargallo-Rocha E, Cardona-Huerta S et al. Fertility concerns among breast cancer patients in Mexico. Breast 2017;33: 71-75.	Relevant outcomes are not assessed or inappropriately assessed
Nobel Murray A, Chrisler JC, Robbins ML. Adolescents and Young Adults With Cancer: Oncology Nurses Report Attitudes and Barriers to Discussing Fertility Preservation. Clinical journal of oncology nursing 2016;20: E93-99.	Relevant outcomes are not assessed or inappropriately assessed
Angarita AM, Johnson CA, Fader AN, Christianson MS. Fertility Preservation: A Key Survivorship Issue for Young Women with Cancer. Frontiers in oncology 2016;6: 102.	Review/expert opinion
Taylor JF, Ott MA. Fertility Preservation after a Cancer Diagnosis: A Systematic Review of Adolescents', Parents', and Providers' Perspectives, Experiences, and Preferences. Journal of pediatric and adolescent gynecology 2016;29: 585-598.	Relevant outcomes are not assessed or inappropriately assessed
von Wolff M, Giesecke D, Germeyer A, Lawrenz B, Henes M, Nawroth F, Friebel S, Rohde A, Giesecke P, Denschlag D. Characteristics and attitudes of women in relation to chosen fertility preservation techniques: a prospective, multicenter questionnaire-based study with 144 participants. European journal of obstetrics, gynecology, and reproductive biology 2016;201: 12-17.	Relevant outcomes are not assessed or inappropriately assessed
A MR, Galvin KM, Harper MM, Clayman ML. A comparison of heterosexual and LGBTQ cancer survivors' outlooks on relationships, family building, possible infertility, and patient-doctor fertility risk communication. Journal of cancer survivorship : research and practice 2016;10: 935–942.	Relevant outcomes are not assessed or inappropriately assessed
Ter Keurst A, Boivin J, Gameiro S. Women's intentions to use fertility preservation to prevent age- related fertility decline. Reproductive biomedicine online 2016;32: 121-131.	Relevant outcomes are not assessed or inappropriately assessed
Schmidt R, Richter D, Sender A, Geue K. Motivations for having children after cancera systematic review of the literature. European journal of cancer care 2016;25: 6-17.	Relevant outcomes are not assessed or inappropriately assessed
Dryden A, Ussher JM, Perz J. Young women's construction of their post-cancer fertility. Psychology & health 2014;29: 1341-1360.	Relevant outcomes are not assessed or inappropriately assessed
Ruddy KJ, Gelber SI, Tamimi RM, Ginsburg ES, Schapira L, Come SE, Borges VF, Meyer ME, Partridge AH. Prospective study of fertility concerns and preservation strategies in young women with breast cancer. Journal of clinical oncology 2014;32: 1151-1156.	Relevant outcomes are not assessed or inappropriately assessed
Senkus E, Gomez H, Dirix L, Jerusalem G, Murray E, Van Tienhoven G, Westenberg AH, Bottomley A, Rapion J, Bogaerts J et al. Attitudes of young patients with breast cancer toward fertility loss related to adjuvant systemic therapies. EORTC study 10002 BIG 3-98. Psycho-oncology 2014;23: 173-182.	Relevant outcomes are not assessed or inappropriately assessed
Quinn GP, Knapp CA, Malo TL, McIntyre J, Jacobsen PB, Vadaparampil ST. Physicians' undecided attitudes toward posthumous reproduction: fertility preservation in cancer patients with a poor prognosis. The journal of supportive oncology 2012;10: 160-165.	Relevant outcomes are not assessed or inappropriately assessed
Wierckx K, Van Caenegem E, Pennings G, Elaut E, Dedecker D, Van de Peer F, Weyers S, De Sutter P, T'Sjoen G. Reproductive wish in transsexual men. Human reproduction 2012;27: 483-487.	Relevant outcomes are not assessed or inappropriately assessed
Azim HA, Jr., Peccatori FA, de Azambuja E, Piccart MJ. Motherhood after breast cancer: searching for la dolce vita. Expert review of anticancer therapy 2011;11: 287-298.	Relevant outcomes are not assessed or inappropriately assessed. expert opinion
Loi K, Lau M, Loh SF, Tan YY, Hong GS, Chan MY, Tan AM. Attitudes toward fertility preservation in female cancer patients. The Journal of reproductive medicine 2010;55: 411-416.	Relevant outcomes are not assessed or inappropriately assessed

Gorman JR, Usita PM, Madlensky L, Pierce JP. Young breast cancer survivors: their perspectives on treatment decisions and fertility concerns. Cancer nursing 2011;34: 32-40.	Relevant outcomes are not assessed or inappropriately assessed. expert opinion
Schover LR. Patient attitudes toward fertility preservation. Pediatric blood & cancer 2009;53: 281-284.	Relevant outcomes are not assessed or inappropriately assessed; narrative review.
Komatsu H, Yagasaki K, Yamauchi H. Fertility decision-making under certainty and uncertainty in cancer patients. Sexual & reproductive healthcare 2018;15: 40-45.	Relevant outcomes are not assessed or inappropriately assessed
Dagan E, Modiano-Gattegno S, Birenbaum-Carmeli D. "My choice": breast cancer patients recollect doctors fertility preservation recommendations. Supportive care in cancer 2017;25: 2421-2428.	Relevant outcomes are not assessed or inappropriately assessed
Flink DM, Kondapalli LA, Kellar-Guenther Y. Priorities in Fertility Decisions for Reproductive-Aged Cancer Patients: Fertility Attitudes and Cancer Treatment Study. Journal of adolescent and young adult oncology 2017;6: 435-443.	Relevant outcomes are not assessed or inappropriately assessed
Mitu K. Transgender Reproductive Choice and Fertility Preservation. AMA journal of ethics 2016;18: 	EXPERT OPINION
Chan JL, Johnson LNC, Sammel MD, DiGiovanni L, Voong C, Domchek SM, Gracia CR. Reproductive Decision-Making in Women with BRCA1/2 Mutations. Journal of genetic counseling 2017;26: 594–603.	Relevant outcomes are not assessed or inappropriately assessed
Hershberger PE, Sipsma H, Finnegan L, Hirshfeld-Cytron J. Reasons Why Young Women Accept or Decline Fertility Preservation After Cancer Diagnosis. Journal of obstetric, gynecologic, and neonatal nursing : JOGNN 2016;45: 123-134.	Relevant outcomes are not assessed or inappropriately assessed
Benedict C, Thom B, Kelvin JF. Young Adult Female Cancer Survivors' Decision Regret About Fertility Preservation. Journal of adolescent and young adult oncology 2015;4: 213-218.	Relevant outcomes are not assessed or inappropriately assessed
Mersereau JE, Goodman LR, Deal AM, Gorman JR, Whitcomb BW, Su HI. To preserve or not to preserve: how difficult is the decision about fertility preservation? Cancer 2013;119: 4044-4050.	Relevant outcomes are not assessed or inappropriately assessed
Chung K, Donnez J, Ginsburg E, Meirow D. Emergency IVF versus ovarian tissue cryopreservation: decision making in fertility preservation for female cancer patients. Fertility and sterility 2013;99: 1534-1542.	descripion of techniques
Snyder KA, Tate AL. What to do now? How women with breast cancer make fertility preservation decisions. The journal of family planning and reproductive health care 2013;39: 172-178.	Relevant outcomes are not assessed or inappropriately assessed
Hershberger PE, Finnegan L, Pierce PF, Scoccia B. The decision-making process of young adult women with cancer who considered fertility cryopreservation. Journal of obstetric, gynecologic, and neonatal nursing : JOGNN 2013;42: 59-69.	
Kim J, Oktay K, Gracia C, Lee S, Morse C, Mersereau JE. Which patients pursue fertility preservation treatments? A multicenter analysis of the predictors of fertility preservation in women with breast cancer. Fertility and sterility 2012;97: 671-676.	Relevant outcomes are not assessed or inappropriately assessed
Gardino SL, Emanuel LL. Choosing life when facing death: understanding fertility preservation decision-making for cancer patients. Cancer treatment and research 2010;156: 447-458.	Expert comment
Jona K, Gerber A. MyOncofertility.org: a web-based patient education resource supporting decision making under severe emotional and cognitive overload. Cancer treatment and research 2010;156: 345-361.	Description of tool
Simoni MK, Mu L, Collins SC. Women's career priority is associated with attitudes towards family planning and ethical acceptance of reproductive technologies. Human reproduction (Oxford, England) 2017;32: 2069-2075.	Relevant outcomes are not assessed or inappropriately assessed
Carvalho BR, Kliemchen J, Woodruff TK. Ethical, moral and other aspects related to fertility preservation in cancer patients. JBRA assisted reproduction 2017;21: 45-48.	Topic: ETHICS; PubType: EXPERT OPINION /ethical analysis)
Goodman A. Oncofertility for Adolescents: When Parents and Physicians Disagree about Egg Cryopreservation for a Mature Minor. AMA journal of ethics 2015;17: 826-833.	Topic: ETHICS; PubType: EXPERT OPINION
Murphy TF. The ethics of fertility preservation in transgender body modifications. Journal of bioethical inquiry 2012;9: 311-316.	Topic: ETHICS; PubType: EXPERT OPINION
Larcher V. The ethical obligation to preserve fertility in the face of all therapies that might adversely affect it. Archives of disease in childhood 2012;97: 767-768.	Topic: ETHICS; PubType: EXPERT OPINION
Kucuk M. Fertility preservation for women with malignant diseases: ethical aspects and risks. Gynecological endocrinology 2012;28: 937–940.	Topic: ETHICS; PubType: EXPERT OPINION
Patrizio P, Caplan AL. Ethical issues surrounding fertility preservation in cancer patients. Clinical obstetrics and gynecology 2010;53: 717-726.	Topic: ETHICS; PubType: EXPERT OPINION
Deepinder F, Agarwal A. Technical and ethical challenges of fertility preservation in young cancer patients. Reproductive biomedicine online 2008:16: 784-791.	Topic: ETHICS; PubType: EXPERT OPINION
Dudzinski DM. Ethical issues in fertility preservation for adolescent cancer survivors: oocyte and ovarian tissue cryopreservation. Journal of pediatric and adolescent gynecology 200417, 97-102.	Topic: ETHICS; PubType: EXPERT OPINION
Grundy R, Larcher V, Gosden RG, Hewitt M, Leiper A, Spoudeas HA, Walker D, Wallace WH. Fertility preservation for children treated for cancer (2): ethics of consent for gamete storage and experimentation. Archives of disease in childhood 2001;84: 360–362	Topic: ETHICS; PubType: EXPERT OPINION
Hanselin MR, Roybal DL, Leininger TB, Ethics and Oncofertility: A Call for Religious Sensitivity.	Topic: ETHICS; PubType:
Benedict C, Thom B, Friedman DN, Pottenger E, Raghunathan N, Kelvin JF. Fertility information needs and concerns post-treatment contribute to lowered quality of life among young adult female cancer survivors. Supportive care in cancer 2018	Excluded. No intervention. No relevant outcomes were assessed
Ussher JM, Parton C, Perz J. Need for information, honesty and respect: patient perspectives on health care professionals communication about cancer and fertility. Reproductive health 2018;15: 2.	Excluded. No intervention. No relevant outcomes were assessed

Hershberger PE, Finnegan L, Altfeld S, Lake S, Hirshfeld-Cytron J. Toward theoretical understanding of the fertility preservation decision-making process: examining information processing among young women with cancer. Research and theory for nursing practice 2013;27: 257-275.

Clayman ML, Harper MM, Quinn GP, Reinecke J, Shah S. Oncofertility resources at NCI-designated comprehensive cancer centers. Journal of the National Comprehensive Cancer Network : JNCCN 2013;11: 1504-1509.

Wright CI, Coad J, Morgan S, Stark D, Cable M. 'Just in case': the fertility information needs of teenagers and young adults with cancer. European journal of cancer care 2014;23: 189-198.

Reinecke JD, Kelvin JF, Arvey SR, Quinn GP, Levine J, Beck LN, Miller A. Implementing a systematic approach to meeting patients' cancer and fertility needs: a review of the Fertile Hope Centers Of Excellence program. Journal of oncology practice 2012;8: 303-308.

Balthazar U, Deal AM, Fritz MA, Kondapalli LA, Kim JY, Mersereau JE. The current fertility preservation consultation model: are we adequately informing cancer patients of their options? Human reproduction 2012;27: 2413-2419.

Armuand GM, Rodriguez-Wallberg KA, Wettergren L, Ahlgren J, Enblad G, Hoglund M, Lampic C. Sex differences in fertility-related information received by young adult cancer survivors. Journal of clinical oncology : official journal of the American Society of Clinical Oncology 2012;30: 2147-2153. Tschudin S, Bunting L, Abraham J, Gallop-Evans E, Fiander A, Boivin J. Correlates of fertility issues in an internet survey of cancer survivors. Journal of psychosomatic obstetrics and gynaecology 2010;31: 150-157.

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Is in HRU sistematic review 2018 Excluded: Assessed documentation. No intervention is assessed. Relevant outcomes were not assessed Excluded: 1) intervention not assessed. Relevant outcomes not assessed. Relevant for Q1 Excluded: 1) intervention not assessed. Relevant for Q1 Excluded. No intervention. No relevant outcomes were assessed Excluded. No intervention. Relevant outcomes were poorly assessed Excluded. No intervention. No relevant outcomes were assessed. Eventually for Q2 Excluded. No intervention. No relevant outcomes were assessed psychological aspects, experience with FP psychological aspects, experience with FP

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Bartholomaeus, C. and D.W. Riggs, Transgender and non-binary Australians' experiences with healthcare professionals in relation to fertility preservation. Cult Health Sex, 2019; p. 1-17.	Paper does not answer the key question
Baram, S., et al., Fertility preservation for transgender adolescents and young adults: a systematic review. Hum Reprod Update, 2019.	Paper does not answer the key question
Mintziori, G., et al., Egg freezing and late motherhood. Maturitas, 2019. 125; p. 1-4.	Paper does not answer the key question
Villarreal-Garza, C., et al., Fertility concerns among breast cancer patients in Mexico. Breast (edinburgh, scotland), 2017. 33: p. 71-75.	Paper does not answer the key question
Dundar Akin, O., et al., Awareness of fertility and reproductive aging in women seeking oocyte cryopreservation, reproductive aged controls, and female health care professionals: A comparative study. Eur J Obstet Gynecol Reprod Biol, 2019. 233; p. 146-150.	Paper does not answer the key question
Stevenson, E.L., et al., Knowledge and decision making about future fertility and oocyte cryopreservation among young women. Hum Fertil (Camb), 2019; p. 1-10.	Paper does not answer the key question

#### Q 4 Is there a benefit of psychological support and counseling, and are there particular groups that would benefit?

DATABASE	Search string
PUBMED	("Neoplasms"[Mesh] OR Cancer OR tumor OR neoplasm OR malignancy OR neoplasms) AND ("Fertility Preservation"[Mesh] OR "Fertility Preservation" OR fertility) AND ("psychological support" OR "psychosocial support" OR "Counseling"[Mesh] OR "Counseling" OR "Counselling" OR "Psychosocial Support Systems"[Mesh] OR "Psychotherapy"[Mesh] OR "Psychotherapy" OR "oncofertility support")
PUBMED	("Systemic lupus erythematosus" OR "Lupus Erythematosus, Systemic" [Mesh] OR "Behcet's disease" OR "Behcet Syndrome" [Mesh] OR "Churg-Strauss syndrome" OR "Churg-Strauss Syndrome" [Mesh] OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" OR "Glomerulonephritis" [Mesh] OR "Granulomatosis with polyangiitis" OR "Wegener's granulomatosis" OR "Granulomatosis with Polyangiitis" [Mesh] OR "Inflammatory bowel diseases" OR "Crohn Disease" OR "ulcerative colitis" OR "Inflammatory Bowel Diseases" [Mesh] OR "Arthritis, Rheumatoid" [Mesh] OR "Rheumatoid arthritis" OR "Pemphigus vulgaris" OR "Pemphigus" [Mesh] OR "Autoimmune Diseases" [Mesh] OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR "Antoinmune Diseases" [Mesh] OR "Haematological diseases" OR "Altered hypothalamic-pituitary-gonadal axis" OR "Ovarian oophoritis" OR "Oophoritis" [Mesh] OR "Benign ovarian tumours" OR "Mosaic Turner's syndrome" OR "Turner Syndrome" [Mesh] OR "Beta-thalassaemia" OR "beta-Thalassemia" [Mesh] OR "Galactosaemia OR "Galactosemias" [Mesh] OR "Beta-thalassaemia" OR "Fertility Preservation" OR fertility) AND ("psychological support" OR "psychosocial support" OR "Counselling" OR "Counselling" OR "Counselling" OR "Psychosocial Support Systems" [Mesh] OR "Preservation" [Mesh] OR "Prespychotherapy"]
PUBMED	("Transgender Persons"[Mesh] OR Transgender OR Transsexual) AND ("Fertility Preservation"[Mesh] OR "Fertility Preservation" OR fertility) AND ("psychological support" OR "psychosocial support" OR "Counseling"[Mesh] OR "Counseling" OR "Counselling" OR "Psychosocial Support Systems"[Mesh] OR "Psychotherapy"[Mesh] OR "Psychotherapy")
PUBMED	("anticipated gamete exhaustion" OR "age-related fertility decline" OR "social freezing" OR "nonmedical freezing" OR "social egg-freezing" OR "Elective freezing") AND ("Fertility Preservation"[Mesh] OR "Fertility Preservation" OR fertility) AND ("psychological support" OR "psychosocial support" OR "Counseling"[Mesh] OR "Counseling" OR "Psychosocial Support Systems"[Mesh] OR "Psychotherapy"]Mesh] OR "Psychotherapy")
PUBMED	("Fertility Preservation"[Mesh] OR "Fertility Preservation") AND ("psychological support" OR "psychosocial support" OR "Counseling"[Mesh] OR "Counseling" OR "Counselling" OR "Psychosocial Support Systems"[Mesh] OR "Psychotherapy"[Mesh] OR "Psychotherapy" OR "oncofertility support") NOT SEARCH 1-4
COCHRANE MERGE	((Cancer OR tumor OR neoplasm OR malignancy OR neoplasms OR Systemic lupus erythematosus OR Behcet's disease OR Behcet Syndrome OR Churg-Strauss syndrome OR eosinophilic granulomatosis OR Steroid resistant glomerulonephritis OR glomerulonephritis OR Granulomatosis with polyangiitis OR Wegener's granulomatosis OR Inflammatory bowel diseases OR Crohn Disease OR ulcerative colitis OR Rheumatoid arthritis OR Pemphigus OR Autoimmune Diseases OR Haematological diseases OR Anemia OR sickle cell anaemia OR thalassaemia major OR plastic anaemia OR Mosaic Turner's syndrome OR Turner Syndrome OR Fragile X Mental Retardation 1 OR Fragile X Syndrome OR Galactosaemia OR Galactosemias OR Beta-thalassaemia OR Endometriosis OR Transgender Persons OR Transgender OR Transsexual OR anticipated gamete exhaustion OR age-related fertility Preservation OR fertility) AND (psychological support OR psychosocial support OR Counselling OR Psychosocial Support Systems OR Psychotherapy OR Counselling OR Psychosocial Support Systems OR Psychotherapy OR Systems OR Counselling OR Psychosocial Support Systems OR Psychotherapy O



Reference	Exclusion criterium
Logan S, Perz J, Ussher J, Peate M, Anazodo A. Clinician provision of oncofertility support in cancer patients of a reproductive age: A systematic review. Psychooncology 2018;27: 748-756.	No relevant intervention
Runco DV, Taylor JF, Helft PR. Ethical Barriers in Adolescent Oncofertility Counseling. J Pediatr Hematol Oncol 2017;39: 56–61.	Topic: Ethics
Bracewell-Milnes T, Saso S, Bora S, Ismail AM, Al-Memar M, Hamed AH, Abdalla H, Thum MY. Investigating psychosocial attitudes, motivations and experiences of oocyte donors, recipients and egg sharers: a systematic review. Hum Reprod Update 2016;22: 450-465.	Topic: donation
Barlevy D, Wangmo T, Elger BS, Ravitsky V. Attitudes, Beliefs, and Trends Regarding Adolescent Oncofertility Discussions: A Systematic Literature Review. J Adolesc Young Adult Oncol 2016;5: 119- 134.	No relevant intervention
Deshpande NA, Braun IM, Meyer FL. Impact of fertility preservation counseling and treatment on psychological outcomes among women with cancer: A systematic review. Cancer 2015;121: 3938-3947.	Included in the systematic review by Logan 2019
Lawson AK, Klock SC, Pavone ME, Hirshfeld-Cytron J, Smith KN, Kazer RR. Psychological Counseling of Female Fertility Preservation Patients. J Psychosoc Oncol 2015;33: 333-353.	Retrospective study of registry review. Prevalence of psychological problems. No intervention
Nass SJ, Beaupin LK, Demark-Wahnefried W, Fasciano K, Ganz PA, Hayes-Lattin B, Hudson MM, Nevidjon B, Oeffinger KC, Rechis R et al. Identifying and addressing the needs of adolescents and young adults with cancer: summary of an Institute of Medicine workshop. Oncologist 2015;20: 186- 195.	No relevant intervention
Barbour RS, Porter MA, Peddie VL, Bhattacharya S. Counselling in the context of fertility and cancer: some sociological insights. Hum Fertil (Camb) 2013;16: 54–58.	Relevant intervention is not included
Tschudin S, Bitzer J. Psychological aspects of fertility preservation in men and women affected by cancer and other life-threatening diseases. Hum Reprod Update 2009;15: 587-597.	No specific information in psychological counselling or needs wzs provided
Surbone A. Counseling young cancer patients about reproductive issues. Recent Results Cancer Res 2008;178: 237-245.	Review not systematic; Relevant intervention is not included
Davis M. Fertility considerations for female adolescent and young adult patients following cancer therapy: A guide for counseling patients and their families. Clin J Oncol Nurs 2006;10: 213-219.	Relevant intervention is not included
Schover LR, Jenkins R, Sui D, Adams JH, Marion MS, Jackson KE. Randomized trial of peer counseling on reproductive health in African American breast cancer survivors. J Clin Oncol _2006;24: 1620-1626.	Relevant intervention is not included
Roberts CS, Piper L, Denny J, Cuddeback G. A support group intervention to facilitate young adults' adjustment to cancer. Health Soc Work 1997;22: 133-141.	Sample: Not FP patients
Takahashi Y, Shien T, Sakamoto A, Tsuyumu Y, Yoshioka R, Uno M, Hatono M, Kochi M, Kawada K, Tsukioki T et al. Current Multidisciplinary Approach to Fertility Preservation for Breast Cancer Patients. Acta Med Okayama 2018;72: 137-142.	Relevant intervention is not included
Lewin J, Ma JMZ, Mitchell L, Tam S, Puri N, Stephens D, Srikanthan A, Bedard P, Razak A, Crump M et al. The positive effect of a dedicated adolescent and young adult fertility program on the rates of documentation of therapy-associated infertility risk and fertility preservation options. Support Care Cancer 2017;25: 1915-1922.	Relevant intervention is not included
Peavey M, Arian S, Gibbons W, Lu K, Gershenson D, Woodard T. On-Site Fertility Preservation Services for Adolescents and Young Adults in a Comprehensive Cancer Center. J Adolesc Young Adult Oncol 2017;6: 229-234.	Relevant intervention is not included
Chin HB, Howards PP, Kramer MR, Mertens AC, Spencer JB. Which female cancer patients fail to receive fertility counseling before treatment in the state of Georgia? Fertil Steril 2016;106: 1763-1771.e1761.	Relevant intervention is not included
Bastings L, Baysal O, Beerendonk CC, Braat DD, Nelen WL. Referral for fertility preservation counselling in female cancer patients. Hum Reprod 2014;29: 2228-2237.	Relevant intervention is not included
Bastings L, Baysal O, Beerendonk CC, IntHout J, Traas MA, Verhaak CM, Braat DD, Nelen WL. Deciding about fertility preservation after specialist counselling. Hum Reprod 2014;29: 1721-1729.	Counselling by 7 gynecologists and nurse
Nurudeen SK, Douglas NC, Mahany EL, Sauer MV, Choi JM. Fertility Preservation Decisions Among Newly Diagnosed Oncology Patients: A Single-Center Experience. Am J Clin Oncol 2016;39: 154- 159.	Relevant intervention is not included
Mersereau JE, Goodman LR, Deal AM, Gorman JR, Whitcomb BW, Su HI. To preserve or not to preserve: how difficult is the decision about fertility preservation? Cancer 2013;119: 4044-4050.	Relevant intervention is not included
Lind T, Lampic C, Hammarstrom M, Rodriguez-Wallberg K. Young women's perceptions of fertility- related information and fertility distress before surgery for ovarian cysts. Acta Obstet Gynecol Scand 2013;92: 1290-1296.	Relevant intervention is not included
Garvelink MM, ter Kuile MM, Bakker RM, Geense WJ, Jenninga E, Louwe LA, Hilders CG, Stiggelbout AM. Women's experiences with information provision and deciding about fertility preservation in the Netherlands: 'satisfaction in general, but unmet needs'. Health Expect 2015;18: 956-968.	Relevant intervention is not included
Niemasik EE, Letourneau J, Dohan D, Katz A, Melisko M, Rugo H, Rosen M. Patient perceptions of reproductive health counseling at the time of cancer diagnosis: a qualitative study of female California cancer survivors. I Cancer Surviv 2012;6: 224–232	Relevant intervention is not included
Campfield Bonadies D, Moyer A, Matloff ET. What I wish I'd known before surgery: BRCA carriers' perspectives after bilateral salipingo-oophorectomy. Fam Cancer 2011:10: 79–85.	Relevant intervention is not included
Strong M, Peche W, Scaife C. Incidence of fertility counseling of women of child-bearing age before treatment for colorectal cancer. Am J Surg 2007;194: 765-767; discussion 767-768.	Relevant intervention is not included

Smith KR, Ellington L, Chan AY, Croyle RT, Botkin JR. Fertility intentions following testing for a BRCA1 gene mutation. Cancer Epidemiol Biomarkers Prev 2004;13: 733-740.	Relevant intervention is not included
Saraf AJ, Stanek J, Audino A, DaJusta D, Hansen-Moore J, McCracken K, Whiteside S, Yeager N, Nahata L. Examining predictors and outcomes of fertility consults among children, adolescents, and young adults with cancer. Pediatr Blood Cancer 2018: e27409.	Relevant intervention is not included
Kim R, Yoon TK, Kang IS, Koong MK, Kim YS, Kim MJ, Lee Y, Kim J. Decision making processes of women who seek elective oocyte cryopreservation. J Assist Reprod Genet 2018.	Relevant intervention is not included
Skaczkowski G, White V, Thompson K, Bibby H, Coory M, Orme LM, Conyers R, Phillips MB, Osborn M, Harrup R et al. Factors influencing the provision of fertility counseling and impact on quality of life in adolescents and young adults with cancer. J Psychosoc Oncol 2018: 1-10.	Relevant intervention is not included
Mattsson E, Einhorn K, Ljungman L, Sundstrom-Poromaa I, Stalberg K, Wikman A. Women treated for gynaecological cancer during young adulthood - A mixed-methods study of perceived psychological distress and experiences of support from health care following end-of-treatment. Gynecol Oncol 2018;140: 464-460	Relevant intervention is not included
Woodard TL, Hoffman AS, Crocker LC, Holman DA, Hoffman DB, Ma J, Bassett RL, Jr., Leal VB, Volk RJ. Pathways: patient-centred decision counselling for women at risk of cancer-related infertility: a protocol for a comparative effectiveness cluster randomised trial. BMJ Open 2018;8: e019994.	Presentation of a protocol.
Dolmans MM. Recent advances in fertility preservation and counseling for female cancer patients. Expert Rev Anticancer Ther 2018;18: 115-120.	Pub type : Report/expert
Paluch-Shimon S, Peccatori FA. BRCA 1 and 2 mutation status: the elephant in the room during oncofertility counseling for young breast cancer patients. Ann Oncol 2018;29: 26-28.	Relevant intervention is not included
Zarnegar S, Gosiengfiao Y, Rademaker A, Casey R, Albritton KH. Recall of Fertility Discussion by Adolescent Female Cancer Patients: A Survey-Based Pilot Study. J Adolesc Young Adult Oncol 2018;7: 249-253.	Relevant intervention is not included
Vitale SG, La Rosa VL, Rapisarda AMC, Lagana AS. The Importance of Fertility Preservation Counseling in Patients with Gynecologic Cancer. J Reprod Infertil 2017;18: 261-263.	PubType: commentary
Keim-Malpass J, Fitzhugh HS, Smith LP, Smith RP, Erickson J, Douvas MG, Thomas T, Petroni G, Duska L. What is the Role of the Oncology Nurse in Fertility Preservation Counseling and Education for Young Patients? J Cancer Educ 2017.	Relevant intervention is not included
Lawson AK, McGuire JM, Noncent E, Olivieri JF, Jr., Smith KN, Marsh EE. Disparities in Counseling Female Cancer Patients for Fertility Preservation. J Womens Health (Larchmt) 2017;26: 886-891.	Relevant intervention is not included
Dagan E, Modiano-Gattegno S, Birenbaum-Carmeli D. 'My choice': breast cancer patients recollect doctors fertility preservation recommendations. Support Care Cancer 2017;25: 2421-2428.	Relevant intervention is not included
Krouwel EM, Nicolai MPJ, van Steijn-van Tol A, Putter H, Osanto S, Pelger RCM, Elzevier HW. Fertility preservation counselling in Dutch Oncology Practice: Are nurses ready to assist physicians? Eur J Cancer Care (Engl) 2017;26.	Relevant intervention is not included
Takeuchi E, Kato M, Wada S, Yoshida S, Shimizu C, Miyoshi Y. Physicians' practice of discussing fertility preservation with cancer patients and the associated attitudes and barriers. Support Care Cancer 2017;25: 1079-1085.	Relevant intervention is not included
Mahajan N, Patil M, Kaur S, Kaur S, Naidu P. The role of Indian gynecologists in oncofertility care and counselling. J Hum Reprod Sci 2016;9: 179-186.	Relevant intervention is not included
Chan JL, Johnson LNC, Sammel MD, DiGiovanni L, Voong C, Domchek SM, Gracia CR. Reproductive Decision-Making in Women with BRCA1/2 Mutations. J Genet Couns 2017;26: 594-603.	Relevant intervention is not included
Louwe LA, Stiggelbout AM, Overbeek A, Hilders C, van den Berg MH, Wendel E, van Dulmen-den Broeder E, Ter Kuile MM. Factors associated with frequency of discussion of or referral for counselling about fertility issues in female cancer patients. Eur J Cancer Care (Engl) 2018;27.	Relevant intervention is not included
Chan JL, Letourneau J, Salem W, Cil AP, Chan SW, Chen LM, Rosen MP. Regret around fertility choices is decreased with pre-treatment counseling in gynecologic cancer patients. J Cancer Surviv 2017;11: 58-63.	Relevant intervention is not included
Goetsch AL, Wicklund C, Clayman ML, Woodruff TK. Reproductive Endocrinologists' Utilization of Genetic Counselors for Oncofertility and Preimplantation Genetic Diagnosis (PGD) Treatment of BRCA1/2 Mutation Carriers. J Genet Couns 2016;25: 561-571.	Relevant intervention is not included
Goodman A. Oncofertility for Adolescents: When Parents and Physicians Disagree about Egg Cryopreservation for a Mature Minor. AMA J Ethics 2015;17: 826-833.	Topic Ethics
von Wolff M, Dittrich R, Liebenthron J, Nawroth F, Schuring AN, Bruckner T, Germeyer A. Fertility- preservation counselling and treatment for medical reasons: data from a multinational network of over 5000 women. Reprod Biomed Online 2015;31: 605-612.	Relevant intervention is not included
Shnorhavorian M, Harlan LC, Smith AW, Keegan TH, Lynch CF, Prasad PK, Cress RD, Wu XC, Hamilton AS, Parsons HM et al. Fertility preservation knowledge, counseling, and actions among adolescent and young adult patients with cancer: A population-based study. Cancer 2015;121: 3499–3506.	Relevant intervention is not included
Banerjee R, Tsiapali E. Occurrence and recall rates of fertility discussions with young breast cancer patients. Support Care Cancer 2016;24: 163-171.	Relevant intervention is not included
Goncalves V, Tarrier N, Quinn G. Thinking about white bears: fertility issues in young breast cancer survivors. Patient Educ Couns 2015;98: 125-126.	PubType: commentary
Razzano A, Revelli A, Delle Piane L, Salvagno F, Casano S, Randaccio S, Benedetto C. Fertility preservation program before ovarotoxic oncostatic treatments: role of the psychological support in managing emotional aspects. Gynecol Endocrinol 2014;30: 822-824.	Included in the systematic review by Logan 2019
Corney RH, Swinglehurst AJ. Young childless women with breast cancer in the UK: a qualitative study of their fertility-related experiences, options, and the information given by health professionals. Psychooncology 2014;23: 20-26.	Relevant intervention is not included
Lambertini M, Anserini P, Levaggi A, Poggio F, Del Mastro L. Fertility counseling of young breast cancer patients. J Thorac Dis 2013;5 Suppl 1: S68-80.	Relevant intervention is not included
Woodson AH, Profato JL, Muse KI, Litton JK. Breast cancer in the young: role of the geneticist. J Thorac Dis 2013;5 Suppl 1: S19-26.	Relevant intervention is not included

Nawroth F. Fertility preservation consultation for women with cancer: are we helping patients make	
high quality decisions? Reprod Biomed Online 2013;27: 29-30.	Pubb type: comment
Hershberger PE, Finnegan L, Pierce PF, Scoccia B. The decision-making process of young adult women with cancer who considered fertility cryopreservation. J Obstet Gynecol Neonatal Nurs 2013;42: 59-69.	Relevant intervention is not included
Ferrari A, Clerici CA, Casanova M, Luksch R, Terenziani M, Spreafico F, Polastri D, Meazza C, Veneroni L, Catania S et al. The Youth Project at the Istituto Nazionale Tumori in Milan. Tumori 2012;98: 399-407.	PubType: description of a project
Scanlon M, Blaes A, Geller M, Majhail NS, Lindgren B, Haddad T. Patient Satisfaction with Physician Discussions of Treatment Impact on Fertility, Menopause and Sexual Health among Pre- menopausal Women with Cancer. J Cancer 2012;3: 217-225.	Relevant intervention is not included
D'Agostino NM, Penney A, Zebrack B. Providing developmentally appropriate psychosocial care to adolescent and young adult cancer survivors. Cancer 2011;117: 2329-2334.	Relevant intervention is not included
Coleman SL, Grothey A. Should oncologists routinely discuss fertility preservation with cancer patients of childbearing age? Mayo Clin Proc 2011;86: 6-7.	PubType: editorial
Duffy CM, Allen SM, Clark MA. Discussions regarding reproductive health for young women with breast cancer undergoing chemotherapy. J Clin Oncol 2005;23: 766-773.	No psychological intervention, no information on psychological outcomes or needs
Dwosh E, Guimond C, Sadovnick AD. Reproductive counselling for MS: a rationale. Int MS J 2003;10: 52-59.	Relevant outcomes are not assessed or inappropriately assessed
Meissner K, Schweizer-Arau A, Limmer A, Preibisch C, Popovici RM, Lange I, de Oriol B, Beissner F. Psychotherapy With Somatosensory Stimulation for Endometriosis-Associated Pain: A Randomized Controlled Trial. Obstet Gynecol 2016;128: 1134-1142.	Relevant patients are not included, or only as subgroup
Nahata L, Sivaraman V, Quinn GP. Fertility counseling and preservation practices in youth with lupus and vasculitis undergoing gonadotoxic therapy. Fertil Steril 2016;106: 1470-1474.	Relevant outcomes are not assessed or inappropriately assessed
Shilalukey K, Kaufman M, Bradley S, Francombe WH, Amankwah K, Goldberg E, Shear N, Olivieri NF, Koren G. Counseling sexually active teenagers treated with potential human teratogens. J Adolesc Health 1997;21: 143-146.	Relevant outcomes are not assessed or inappropriately assessed
Nahata L, Tishelman AC, Caltabellotta NM, Quinn GP. Low Fertility Preservation Utilization Among Transgender Youth. J Adolesc Health 2017;61: 40-44.	Relevant outcomes are not assessed or inappropriately assessed
Nahata L, Campo-Engelstein LT, Tishelman A, Quinn GP, Lantos JD. Fertility Preservation for a Transgender Teenager. Pediatrics 2018;142.	Type: Case study
Chen D, Simons L. Ethical Considerations in Fertility Preservation for Transgender Youth: A Case Illustration. Clin Pract Pediatr Psychol 2018;6: 93-100.	Case study/Ethics
Hudson J, Nahata L, Dietz E, Quinn GP. Fertility Counseling for Transgender AYAs. Clin Pract Pediatr	Relevant intervention is not included. PUB TYPE: Expert
Psychol 2018;6: 84-92.	opinion, Case;
Psychol 2018;6: 84-92. Kudesia R, Talib HJ, Pollack SE. Fertility Awareness Counseling for Adolescent Girls; Guiding Conception: The Right Time, Right Weight, and Right Way. J Pediatr Adolesc Gynecol 2017;30: 9-17.	opinion, Case; Relevant intervention is not included
Psychol 2018;6: 84-92. Kudesia R, Talib HJ, Pollack SE. Fertility Awareness Counseling for Adolescent Girls; Guiding Conception: The Right Time, Right Weight, and Right Way. J Pediatr Adolesc Gynecol 2017;30: 9-17. Birch Petersen K, Hvidman HW, Sylvest R, Pinborg A, Larsen EC, Macklon KT, Andersen AN, Schmidt L, Family intentions and personal considerations on postponing childbearing in childless cohabiting and single women aged 35-43 seeking fertility assessment and counselling. Hum Reprod 2015;30: 2563-2574.	opinion, Case; Relevant intervention is not included Relevant intervention is not included
Psychol 2018;6: 84-92. Kudesia R, Talib HJ, Pollack SE. Fertility Awareness Counseling for Adolescent Girls; Guiding Conception: The Right Time, Right Weight, and Right Way. J Pediatr Adolesc Gynecol 2017;30: 9-17. Birch Petersen K, Hvidman HW, Sylvest R, Pinborg A, Larsen EC, Macklon KT, Andersen AN, Schmidt L, Family intentions and personal considerations on postponing childbearing in childless cohabiting and single women aged 35-43 seeking fertility assessment and counselling. Hum Reprod 2015;30: 2563-2574. Garcia D, Vassena R, Prat A, Vernaeve V. Poor knowledge of age-related fertility decline and assisted reproduction among healthcare professionals. Reprod Biomed Online 2017;34: 32-37.	opinion. Case: Relevant intervention is not included Relevant intervention is not included Relevant intervention is not included
<ul> <li>Psychol 2018;6: 84-92.</li> <li>Kudesia R, Talib HJ, Pollack SE. Fertility Awareness Counseling for Adolescent Girls; Guiding Conception: The Right Time, Right Weight, and Right Way. J Pediatr Adolesc Gynecol 2017;30: 9-17.</li> <li>Birch Petersen K, Hvidman HW, Sylvest R, Pinborg A, Larsen EC, Macklon KT, Andersen AN, Schmidt L, Family intentions and personal considerations on postponing childbearing in childless cohabiting and single women aged 35-43 seeking fertility assessment and counselling. Hum Reprod 2015;30: 2563-2574.</li> <li>Garcia D, Vassena R, Prat A, Vernaeve V. Poor knowledge of age-related fertility decline and assisted reproduction among healthcare professionals. Reprod Biomed Online 2017;34: 32-37.</li> <li>Fritz R, Klugman S, Lieman H, Schulkin J, Taouk L, Castleberry N, Buyuk E. Counseling patients on reproductive aging and elective fertility preservation-a survey of obstetricians and gynecologists' experience, approach, and knowledge. J Assist Reprod Genet 2018.</li> </ul>	opinion. Case; Relevant intervention is not included Relevant intervention is not included Relevant intervention is not included Relevant intervention is not included
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Zwingerman, R., et al., Expanding Urgent Oncofertility Services for Reproductive Age Women Remote from a Tertiary Level Fertility Centre by Use of Telemedicine and an On-site Nurse Navigator. J Cancer Educ, 2019.	Paper does not answer the key question
Garcia, D., R. Vassena, and A. Rodriguez, Single women and motherhood: right now or maybe later? J Psychosom Obstet Gynaecol. 2019; p. 1–5.	Decision making
Morgan, T.L., et al., Fertility counseling and preservation discussions for females with Turner syndrome in pediatric centers: practice patterns and predictors. Fertil Steril, 2019, 112(4): p. 740-748.	Specific patient group.

## Q 5. Which criteria can be used to select (screen?) patients for fertility preservation?

This question was answered as a narrative question. There was no literature search performed.

The information used to answer this question was derived from the papers selected for other questions in this guideline. In addition, the text was based on the expert opinion of the GDG members.

# Q7. Which factors should be taken into account when estimating the individual risk of gonadotoxicity of a certain treatment?

DATABASE	Search string
PUBMED – merge 1	('Neoplasms'[Mesh] OR Cancer OR tumor OR neoplasm OR malignancy OR neoplasms OR "Systemic lupus erythematosus" OR "Lupus Erythematosus, Systemic"[Mesh] OR "Behcet's disease" OR "Behcet Syndrome"[Mesh] OR "Churg-Strauss syndrome" OR "Churg-Strauss Syndrome"[Mesh] OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" OR "Glomerulonephritis"[Mesh] OR "Granulomatosis with polyangiitis" OR "Wegener's granulomatosis" OR "Granulomatosis with Polyangiitis"[Mesh] OR "Inflammatory bowel diseases" OR "Crohn Disease" OR "ulcerative colitis" OR "Inflammatory Bowel Diseases"[Mesh] OR "Anthritis, Rheumatoid"[Mesh] OR "Rheumatoid arthritis" OR "Pemphigus vulgaris" OR "Pemphigus"[Mesh] OR "Anthritis, Rheumatoid"[Mesh] OR "Haematological diseases" OR "Hematologic Diseases"[Mesh] OR "Anemia"[Mesh] OR "sickle cell anaemia" OR "thalassaemia major" OR "plastic anaemia" OR "Altered hypothalamic-pituitary-gonadal axis" OR "Oophoritis" OR 'Oophoritis"[Mesh] OR "Benign ovarian tumours" OR "Mosaic Turner's syndrome" OR "Turner Syndrome"[Mesh] OR "Fragile X Mental Retardation 1" OR "Fragile X Syndrome"[Mesh] OR Galactosaemia OR "Galactosemias"[Mesh] OR "Beta-thalassaemia" OR "beta-Thalassemia"[Mesh] OR "Endometriosis"[Mesh] OR "Endometriosis"] AND (age OR BMI OR "body mass index'[MESH] OR weight OR duration OR cycles) AND ('Antineoplastic Agents'[Mesh] OR chemotherapy OR anthracycline OR "Immunosuppression"[Mesh] OR "Alkylating Agents" IMesh] OR "Alkylating Agents" OR "Cyclophosphamide" OR "Hematopoietic Stem Cell Transplantation" OR "Immunosuppression"] AND ('Infertility"[Mesh] OR infertility OR infertile OR "resumption of menses" OR "resumption of menstruation" OR "Primary Ovarian Insufficiency"[Mesh] OR "Ovarian Reserve" OR "AMH" OR "anti-Mullerian hormone" OR "antral follicle count" OR "AFC" OR "Ovarian function Tests"[Mesh] OR "Ovarian function" OR Gonadotoxicity OR Gonadotoxic OR "ovarian toxicity" OR "ovarian damage" OR ("DNA damage" OR "vascular toxicity" OR "oxidative stress"] AND (fol
PUBMED – merge 2	(Radiotherapy Mesh] OR Radiation OR Radiotherapy) AND ('Infertility' [Mesh] OR infertility OR infertile OR "resumption of menses" OR "resumption of menstruation" OR "Primary Ovarian Insufficiency" [Mesh] OR "Premature Ovarian Insufficiency" OR "Primary Ovarian Insufficiency" OR "Premature Ovarian Insufficiency" OR "Primary Ovarian Insufficiency" OR "Premature Ovarian Failure" OR "menopause" OR "Ovarian Reserve" IMesh] OR "Ovarian Reserve" OR "AMH" OR "anti-Mullerian hormone" OR "antral follicle count" OR "AFC" OR "Ovarian Function Tests" [Mesh] OR "Ovarian function" OR Gonadotoxicity OR Gonadotoxic OR "ovarian toxicity" OR "ovarian damage" OR ("DNA damage" OR "vascular toxicity" OR "oxidative stress") AND (follicle OR ovary OR ovarian OR gonads)))
COCHRANE - merge	("Antineoplastic Agents" OR chemotherapy OR anthracycline OR Immunosuppression OR "Alkylating Agents" OR Cyclophosphamide OR "Hematopoietic Stem Cell Transplantation" OR "immunosuppressive therapy" OR "Stem Cell Transplantation" OR Radiotherapy OR Radiation OR Radiotherapy) AND ("Ovarian Reserve" OR AMH OR "anti-Mullerian hormone" OR "antral follicle count" OR AFC OR "Ovarian Function Tests" OR "Ovarian function" OR Gonadotoxicity OR Gonadotoxic OR "ovarian toxicity" OR "ovarian damage"OR (("DNA damage" OR "vascular toxicity" OR "oxidative stress") AND (follicle OR ovary OR ovarian OR gonads)) OR infertility OR infertile OR "resumption of menses" OR "Premature Ovarian Insufficiency" OR "Primary Ovarian Insufficiency" OR "Premature Ovarian Failure" OR menopause)



Reference	Exclusion criterium
Ademuyiwa FO, Cyr A, Ivanovich J, Thomas MA. Managing breast cancer in younger women: challenges and solutions. Breast Cancer (Dove Med Press) 2016;8: 1-12.	Narrative review with limited data related to the topic of the current topic (more updated data available in more recent reviews)
Aikawa NE, Sallum AM, Pereira RM, Suzuki L, Viana VS, Bonfa E, Silva CA. Subclinical impairment of ovarian reserve in juvenile systemic lupus erythematosus after cyclophosphamide therapy. Clin Exp Rheumatol 2012;30: 445-449.	Larger studies available on the topic
Akawatcharangura P, Taechakraichana N, Osiri M. Prevalence of premature ovarian failure in systemic lupus erythematosus patients treated with immunosuppressive agents in Thailand. Lupus 2016;25: 436-444.	Larger studies available on the topic
Alarfaj AS, Khalil N. Fertility, ovarian failure, and pregnancy outcome in SLE patients treated with intravenous cyclophosphamide in Saudi Arabia. Clin Rheumatol 2014;33: 1731-1736.	Larger studies available on the topic
Anders C, Marcom PK, Peterson B, Gu L, Unruhe S, Welch R, Lyons P, Behera M, Copland S, Kimmick G et al. A pilot study of predictive markers of chemotherapy-related amenorrhea among premenopausal women with early stage breast cancer. Cancer Invest 2008;26: 286-295.	Study included in recent systematic reviews (Freour EJC 2017 and Peigne Reprod Biol End 2014)
Anderson D, Seib C, Tjondronegoro D, Turner J, Monterosso L, McGuire A, Porter-Steele J, Song W, Yates P, King N et al. The Women's wellness after cancer program: a multisite, single-blinded, randomised controlled trial protocol. BMC Cancer 2017;17: 98.	Publication type (study protocol, no results); topic different from the one of the currrent question
Angeliki M, Alison BM, Stratakis CA, Maya L. Irreversible primary amenorrhea secondary to uterine damage and premature ovarian failure in Ewing's sarcoma in two patients. J Pediatr Adolesc Gynecol 2018.	Study including only two cases
Appenzeller S, Blatyta PF, Costallat LT. Ovarian failure in SLE patients using pulse cyclophosphamide: comparison of different regimes. Rheumatol Int 2008;28: 567-571.	Larger studies available on the topic
Assouline E, Crocchiolo R, Prebet T, Broussais F, Coso D, Gamerre M, Vey N, Blaise D, Courbiere B. Impact of reduced-intensity conditioning allogeneic stem cell transplantation on women's fertility. Clin Lymphoma Myeloma Leuk 2013;13: 704-710.	Small study including only 22 evaluable patients (with different diseases and different chemotherapy agents)
Bala J, Seth S, Dhankhar R, Ghalaut VS. Chemotherapy: Impact on Anti-Mullerian Hormone Levels in Breast Carcinoma. J Clin Diagn Res 2016;10: Bc19-21.	Updated and larger studies on the topic
Barnabei A, Strigari L, Marchetti P, Sini V, De Vecchis L, Corsello SM, Torino F. Predicting Ovarian Activity in Women Affected by Early Breast Cancer: A Meta-Analysis-Based Nomogram. Oncologist 2015;20: 1111-1118.	Studies included in this article are also included in a recent systematic review (Freour EJC 2017) as well as in the metanalysis by Silva Hum Reprod 2016
Barr RD. Risk of premature menopause after treatment for Hodgkin's lymphoma. J Natl Cancer Inst 2014;106.	Editorial article by Swerdlow et al
Bates GE, Taub RN, West H. Fertility and Cancer Treatment. JAMA Oncol 2016;2: 284.	Patient page, very short summary on the topic of fertility preservation (more updated data available in more recent reviews)
Ben-Aharon I, Granot T, Meizner I, Hasky N, Tobar A, Rizel S, Yerushalmi R, Ben-Haroush A, Fisch B, Stemmer SM. Long-Term Follow-Up of Chemotherapy-Induced Ovarian Failure in Young Breast Cancer Patients: The Role of Vascular Toxicity. Oncologist 2015;20: 985-991.	Study included in a recent systematic review (Freour EJC 2017)
Ben-Aharon I, Shalgi R. What lies behind chemotherapy-induced ovarian toxicity? Reproduction 2012;144: 153-163.	Narrative review (more updated data available in more recent reviews)
Bentivegna E, Maulard A, Pautier P, Chargari C, Gouy S, Morice P. Fertility results and pregnancy outcomes after conservative treatment of cervical cancer: a systematic review of the literature. Fertil Steril 2016;106: 1195-1211.e1195.	Narrative review outside the topic of the current question (this review assessed the efficacy in terms of fertility outcomes of conservative cervical surgery)
Biasoli I, Falorio S, Luminari S, Spector N, Federico M. Fertility in female survivors of Hodgkin's lymphoma. Rev Bras Hematol Hemoter 2012;34: 48–53.	Narrative review (more updated data available in more recent reviews)
Biedka M, Kuzba-Kryszak T, Nowikiewicz T, Zyromska A. Fertility impairment in radiotherapy. Contemp Oncol (Pozn) 2016;20: 199-204.	Narrative review (more updated data available in more recent reviews)
Bines J, Oleske DM, Cobleigh MA. Ovarian function in premenopausal women treated with adjuvant chemotherapy for breast cancer. J Clin Oncol 1996;14: 1718-1729.	Narrative/systematic review (more updated data available in more recent reviews)
Blumenfeld Z, Dann E, Avivi I, Epelbaum R, Rowe JM. Fertility after treatment for Hodgkin's disease. Ann Oncol 2002;13 Suppl 1: 138-147.	Narrative review (more updated data available in more recent reviews)
Blumenfeld Z, Ritter M, Shen-Orr Z, Shariki K, Ben-Shahar M, Haim N. Inhibin A concentrations in the sera of young women during and after chemotherapy for lymphoma: correlation with ovarian toxicity. Am J Reprod Immunol 1998;39: 33-40.	Relevant outcomes not assessed; small number of patients and most of them

	treated with GnRHa during chemotherapy (true POI data and inhibin A results not evaluable)
Bohlen D, Burkhard FC, Mills R, Sonntag RW, Studer UE. Fertility and sexual function following orchiectomy and 2 cycles of chemotherapy for stage I high risk nonseminomatous germ cell cancer. J Urol 2001;165: 441-444.	This article addressed the issues of the current question but in men
Bokemeyer C, Schmoll HJ, van Rhee J, Kuczyk M, Schuppert F, Poliwoda H. Long-term gonadal toxicity after therapy for Hodgkin's and non-Hodgkin's lymphoma. Ann Hematol 1994;68: 105-110.	Larger studies available on the topic
Boltezar L, Pintaric K, Jezersek Novakovic B. Fertility in young patients following treatment for Hodgkin's lymphoma: a single center survey. J Assist Reprod Genet 2016;33: 325-333.	Larger studies available on the topic
Brennemann W, Stoffel-Wagner B, Helmers A, Mezger J, Jager N, Klingmuller D. Gonadal function of patients treated with cisplatin based chemotherapy for germ cell cancer. J Urol 1997;158: 844- 850.	This article addressed the issues of the current question but in men
Brooke, R.J., et al., A High-risk Haplotype for Premature Menopause in Childhood Cancer Survivors Exposed to Gonadotoxic Therapy. J Natl Cancer Inst, 2018. 110(8): p. 895-904.	Childhood Cancer
Brougham MF, Crofton PM, Johnson EJ, Evans N, Anderson RA, Wallace WH. Anti-Mullerian hormone is a marker of gonadotoxicity in pre- and postpubertal girls treated for cancer: a prospective study. J Clin Endocrinol Metab 2012;97: 2059-2067.	Study included in a recent systematic review (Peigne Reprod Biol End 2014)
Browne H, Armstrong A, Decherney A, Babb R, Illei G, Segars J, Pavletic S. Assessment of ovarian function with anti-Mullerian hormone in systemic lupus erythematosus patients undergoing hematopoietic stem cell transplant. Fertil Steril 2009;91: 1529-1532.	Larger studies available on the topic (this study included only 6 patients)
Brydoy M, Fossa SD, Dahl O, Bjoro T. Gonadal dysfunction and fertility problems in cancer survivors. Acta Oncol 2007;46: 480-489.	Narrative review (more updated data available in more recent reviews)
Buzzoni R, Bonadonna G, Valagussa P, Zambetti M. Adjuvant chemotherapy with doxorubicin plus cyclophosphamide, methotrexate, and fluorouracil in the treatment of resectable breast cancer with more than three positive axillary nodes. Journal of clinical oncology 1991;9: 2134-2140.	Relevant outcomes not assessed (amenorrhea during treatment only was assessed; POI risk with the treatment not evaluable)
Byrne J. Long-term genetic and reproductive effects of ionizing radiation and chemotherapeutic agents on cancer patients and their offspring. Teratology 1999;59: 210-215.	Narrative review (more updated data available in more recent reviews)
Ceccarelli C, Bencivelli W, Morciano D, Pinchera A, Pacini F. 1311 therapy for differentiated thyroid cancer leads to an earlier onset of menopause: results of a retrospective study. J Clin Endocrinol Metab 2001;86: 3512-3515.	Study included in the paper by Clement 2015
Chasle S, How CC. The effect of cytotoxic chemotherapy on female fertility. Eur J Oncol Nurs 2003;7: 91–98.	Narrative review (more updated data available in more recent reviews)
Chaudhary UB, Haldas JR. Long-term complications of chemotherapy for germ cell tumours. Drugs 2003;63: 1565-1577.	This article addressed the issues of the current question but in men
Chen WY, Manson JE. Premature ovarian failure in cancer survivors: new insights, looming concerns. J Natl Cancer Inst 2006;98: 880–881.	Editorial on an an article addressing this topic but in survivors of childhood cancers
Cheng YC, Saliba RM, Rondon G, Giralt SA, Lu KH, Bodurka DC, Gershenson DM, Champlin RE, Ueno NT. Low prevalence of premature ovarian failure in women given reduced-intensity conditioning regimens for hematopoietic stem-cell transplantation. Haematologica 2005;90: 1725- 1726.	Larger studies available on the topic
Chiaffarino F, Pelucchi C, Parazzini F, Negri E, Franceschi S, Talamini R, Conti E, Montella M, La Vecchia C. Reproductive and hormonal factors and ovarian cancer. Ann Oncol 2001;12: 337-341.	Relevant outcomes not assessed (article not focused on POI risk)
Clark ST, Radford JA, Crowther D, Swindell R, Shalet SM. Gonadal function following chemotherapy for Hodgkin's disease: a comparative study of MVPP and a seven-drug hybrid regimen. J Clin Oncol 1995;13: 134-139.	Small study including only 39 evaluable patients (more recent and larger studies included)
Cohen LE. Cancer treatment and the ovary: the effects of chemotherapy and radiation. Ann N Y Acad Sci 2008;1135: 123-125.	Narrative review (more updated data available in more recent and extensive reviews)
Cosgrove, C.M. and R. Salani, Ovarian effects of radiation and cytotoxic chemotherapy damage. Best Pract Res Clin Obstet Gynaecol, 2019. 55: p. 37-48.	not relevant
Counsell R, Bain G, Williams MV, Dixon AK. Artificial radiation menopause: where are the ovaries? Clin Oncol (R Coll Radiol) 1996;8: 250-253.	Study not focused on the topic of the current question
Crandall C, Petersen L, Ganz PA, Greendale GA. Association of breast cancer and its therapy with menopause-related symptoms. Menopause 2004;11: 519–530.	Updated and larger studies on the topic
Critchley HO, Wallace WH. Impact of cancer treatment on uterine function. J Natl Cancer Inst Monogr 2005: 64-68.	Narrative review (more updated data available in more recent reviews)
Dann EJ, Blumenfeld Z, Bar-Shalom R, Avivi I, Ben-Shachar M, Goor O, Libster D, Gaitini D, Rowe JM, Epelbaum R. A 10-year experience with treatment of high and standard risk Hodgkin disease: six cycles of tailored BEACOPP, with interim scintigraphy, are effective and female fertility is preserved. Am J Hematol 2012;87: 32-36.	Larger studies available on the topic
Dann EJ, Epelbaum R, Avivi I, Ben Shahar M, Haim N, Rowe JM, Blumenfeld Z. Fertility and ovarian function are preserved in women treated with an intensified regimen of cyclophosphamide, adriamycin, vincristine and prednisone (Mega-CHOP) for non-Hodgkin lymphoma. Hum Reprod 2005;20: 2247-2249.	Relevant outcomes not assessed; small number of patients and most of them treated with GnRHa during

	chemotherapy (true POI data
David M. Kroncke T. Literine Fibroid Embolisation - Potential Impact on Fertility and Pregnancy	not evaluable)
Outcome. Geburtshilfe Frauenheilkd 2013;73: 247-255.	Narrative review
D'Avila AM, Biolchi V, Capp E, Corleta H. Age, anti-mullerian hormone, antral follicles count to predict amenorrhea or oligomenorrhea after chemotherapy with cyclophosphamide. J Ovarian Res 2015;8: 82.	Study included in a recent systematic review (Freour EJC 2017)
D'Avila AM, Capp E, Corleta HVE. Antral Follicles Count and Anti-Mullerian Hormone Levels after Gonadotoxic Chemotherapy in Patients with Breast Cancer: Cohort Study. Rev Bras Ginecol Obstet 2017;39: 162-168.	Larger studies available on the topic
Davis AL, Klitus M, Mintzer DM. Chemotherapy-induced amenorrhea from adjuvant breast cancer treatment: the effect of the addition of taxanes. Clin Breast Cancer 2005;6: 421-424.	Study included in the systematic review and metanalysis by Zhao (Breast Cancer Res Treat 2014)
De Bruin ML, Huisbrink J, Hauptmann M, Kuenen MA, Ouwens GM, van't Veer MB, Aleman BM, van Leeuwen FE. Treatment-related risk factors for premature menopause following Hodgkin lymphoma. Blood 2008;111: 101-108.	Study included in the systematic review by Overbeek (Cancer Treat Rev 2017)
de Groot, S., et al., Effects of controlled ovarian stimulation on toxicity of TAC chemotherapy in early breast cancer patients. Cancer Manag Res, 2018. 10: p. 3931-3935.	not relevant for the key question
de la Haba-Rodriguez J, Calderay M. Impact of breast cancer treatment on fertility. Breast Cancer Res Treat 2010;123 Suppl 1: 59-63.	Narrative review (more updated data available in more recent reviews)
Decanter C, Cloquet M, Dassonneville A, D'Orazio E, Mailliez A, Pigny P. Different patterns of ovarian recovery after cancer treatment suggest various individual ovarian susceptibilities to chemotherapy. Reprod Biomed Online 2018;36: 711-718.	Larger studies available on the topic
Decanter C, Morschhauser F, Pigny P, Lefebvre C, Gallo C, Dewailly D. Anti-Mullerian hormone follow-up in young women treated by chemotherapy for lymphoma: preliminary results. Reprod Biomed Online 2010;20: 280-285.	Study included in a recent systematic review (Peigne Reprod Biol End 2014)
DeSantis M, Albrecht W, Holtl W, Pont J. Impact of cytotoxic treatment on long-term fertility in patients with germ-cell cancer. Int J Cancer 1999;83: 864-865.	This article addressed the issues of the current question but in men
Devecioglu TY, Aydogan F, Omurtag GZ, Bese NS, Sardas S. Investigation of genotoxicity risk and DNA repair capacity in breast cancer patients using anastrozole. North Clin Istanb 2018;5: 6-13.	Relevant outcomes not assessed (article in post- menopausal women on Al mechanisms of action)
DeWire M, Green DM, Sklar CA, Merchant TE, Wallace D, Lin T, Vern-Gross T, Kun LE, Krasin MJ, Boyett JM et al. Pubertal development and primary ovarian insufficiency in female survivors of embryonal brain tumors following risk-adapted craniospinal irradiation and adjuvant chemotherapy. Pediatr Blood Cancer 2015;62: 329-334.	Study on childhood cancer
do Rosario PW, Barroso AL, Rezende LL, Padrao EL, Borges MA, Purisch S. Malformations in the offspring of women with thyroid cancer treated with radioiodine for the ablation of thyroid _remnants. Arq Bras Endocrinol Metabol 2006;50: 930-933.	Topic already covered in the more updated paper by Clement 2015
Dottorini ME, Lomuscio G, Mazzucchelli L, Vignati A, Colombo L. Assessment of female fertility and carcinogenesis after iodine-131 therapy for differentiated thyroid carcinoma. J Nucl Med 1995;36: 21-27.	Study included in the systematic review by Clement (Cancer Treat Rev 2015)
Duffy C, Allen S. Medical and psychosocial aspects of fertility after cancer. Cancer J 2009;15: 27-33.	Narrative review (data available also in other more recent reviews)
Dunlop CE, Anderson RA. Uses of anti-Mullerian hormone (AMH) measurement before and after cancer treatment in women. Maturitas 2015;80: 245-250.	Systematic/narrative review on the same topic by Peigne 2014
Dyer G, Gilroy N, Bradford J, Brice L, Kabir M, Greenwood M, Larsen SR, Moore J, Hertzberg M, Kwan J et al. A survey of fertility and sexual health following allogeneic haematopoietic stem cell transplantation in New South Wales, Australia. Br J Haematol 2016;172: 592-601.	Relevant outcomes not assessed (artcile focused on sexuality after treatment)
Eeltink CM, Incrocci L, Witte BI, Meurs S, Visser O, Huijgens P, Verdonck-de Leeuw IM. Fertility and sexual function in female Hodgkin lymphoma survivors of reproductive age. J Clin Nurs 2013;22:3513-3521.	Larger studies available on the topic
Eiermann W, Graf E, Ataseven B, Conrad B, Hilfrich J, Massinger-Biebl H, Vescia S, Loibl S, Minckwitz G, Schumacher M et al. Dose-intensified epirubicin versus standard-dose epirubicin/cyclophosphamide followed by CMF in breast cancer patients with 10 or more positive lymph nodes: results of a randomised trial (GABG-IV E-93) - the German Adjuvant Breast Cancer Group. European journal of cancer (oxford, england : 1990) 2010;46: 84-94.	Relevant outcomes not assessed (article addressing old chemotherapy regimen and reporting menstrual function in women who received GnRHa during chemotherapy)
El Issaoui M, Giorgione V, Mamsen LS, Rechnitzer C, Birkebaek N, Clausen N, Kelsey TW, Andersen CY. Effect of first line cancer treatment on the ovarian reserve and follicular density in girls under the age of 18 years. Fertil Steril 2016;106: 1757-1762.e1751.	Study on a different topic than the current question (ovarian tissue cryopreservation before and after cancer treatment); focused to children
Elis A, Tevet A, Yerushalmi R, Blickstein D, Bairy O, Dann EJ, Blumenfeld Z, Abraham A, Manor Y, Shpilberg O et al. Fertility status among women treated for aggressive non-Hodgkin's lymphoma. Leuk Lymphoma 2006;47: 623-627.	Larger studies available on the topic
Elkin EB, Weinstein MC, Kuntz KM, Bunnell CA, Weeks JC. Adjuvant ovarian suppression versus chemotherapy for premenopausal, hormone-responsive breast cancer: quality of life and efficacy tradeoffs. Breast Cancer Res Treat 2005;93: 25-34.	Relevant outcomes not assessed (article addressing impact of different treatments on QoL not risk of POI)
Ewertz M, Jensen AB. Late effects of breast cancer treatment and potentials for rehabilitation. Acta Oncol 2011;50: 187-193.	Narrative review focused mainly on other topcis than

	fertility (plus more updated data available in more recent reviews)
Falorio S, Biasoli I, Luminari S, Quintana G, Musso M, Dell'olio M, Specchia MR, di Renzo N, Cesaretti M, Buda G et al. Risk factors for impaired gonadal function in female Hodgkin lymphoma survivors: final analysis of a retrospective multicenter joint study from Italian and Brazilian Institutions. Hematol Oncol 2013;31: 72-78.	Study included in the systematic review by Overbeek (Cancer Treat Rev 2017)
Fleischer RT, Vollenhoven BJ, Weston GC. The effects of chemotherapy and radiotherapy on fertility in premenopausal women. Obstet Gynecol Surv 2011;66: 248-254.	Narrative review (more updated data available in more recent reviews)
Fornier MN, Modi S, Panageas KS, Norton L, Hudis C. Incidence of chemotherapy-induced, long- term amenorrhea in patients with breast carcinoma age 40 years and younger after adjuvant anthracycline and taxane. Cancer 2005;104: 1575-1579.	Study included in the systematic review and metanalysis by Zhao (Breast Cancer Res Treat 2014)
Fossa SD, Dahl AA. Fertility and sexuality in young cancer survivors who have adult-onset malignancies. Hematol Oncol Clin North Am 2008;22: 291-303, vii.	Narrative review (more updated data available in more recent reviews)
Freycon, F., L. Casagranda, and B. Trombert-Paviot, The impact of severe late-effects after 12 Gy fractionated total body irradiation and allogeneic stem cell transplantation for childhood leukemia (1988-2010). Pediatr Hematol Oncol, 2019. 36(2): p. 86-102.	Childhood Cancer
Gadducci A, Cosio S, Genazzani AR. Ovarian function and childbearing issues in breast cancer survivors. Gynecol Endocrinol 2007;23: 625-631.	Narrative review (more updated data available in more recent reviews)
Gaidos JKJ, Kane SV. Sexuality, Fertility, and Pregnancy in Crohn's Disease. Gastroenterol Clin North Am 2017;46: 531-546.	Narrative review
Ganz PA, Greendale GA, Petersen L, Kahn B, Bower JE. Breast cancer in younger women: reproductive and late health effects of treatment. J Clin Oncol 2003;21: 4184-4193.	Updated and larger studies on the topic
Gargus, E., et al., Management of Primary Ovarian Insufficiency Symptoms in Survivors of Childhood and Adolescent Cancer. J Natl Compr Canc Netw, 2018. 16(9); p. 1137-1149.	not relevant for the key question
George, S.A., et al., Early Detection of Ovarian Dysfunction by Anti-Mullerian Hormone in Adolescent and Young Adult-Aged Survivors of Childhood Cancer. J Adolesc Young Adult Oncol, 2019, 8(1): p. 18-25.	Childhood Cancer
Ghaleb RM, Fahmy KA. Anti-Mullerian hormone: a marker for ovarian function in systemic lupus erythematosus patients treated with cyclophosphamide. Joint Bone Spine 2013;80: 434-435.	Letter to the editor; small cohort of patients (AMH in patients with systemic lupus erythematosus
Gharwan H, Neary NM, Link M, Hsieh MM, Fitzhugh CD, Sherins RJ, Tisdale JF. Successful fertility restoration after allogeneic hematopoietic stem cell transplantation. Endocr Pract 2014;20: e157-161.	This article addressed the issues of the current question but in one man
Gilbert-Barness E. Teratogenic causes of malformations. Ann Clin Lab Sci 2010;40: 99-114.	Narrative review focused on a different topic than the current question (teratogenic expsoure and malformations)
Gini, G., et al., Gonadal Function Recovery and Fertility in Women Treated with Chemo- and/or Radiotherapy for Hodgkin's and Non-Hodgkin Lymphoma. Chemotherapy, 2019. 64(1): p. 36-41.	not relevant for the key question
Giuseppe L, Attilio G, Edoardo DN, Loredana G, Cristina L, Vincenzo L. Ovarian function after cancer treatment in young women affected by Hodgkin disease (HD). Hematology 2007;12: 141-147.	Study included in the systematic review by Overbeek (Cancer Treat Rev 2017); to be included in GnRHa question
Glantz JC. Reproductive toxicology of alkylating agents. Obstet Gynecol Surv 1994;49: 709-715.	Narrative review (more updated data available in more recent reviews)
Goldfarb S, Mulhall J, Nelson C, Kelvin J, Dickler M, Carter J. Sexual and reproductive health in cancer survivors. Semin Oncol 2013;40: 726-744.	Narrative review more focused on treatment of sxual problems (plus more updated data available in more recent reviews)
Goldstein A, Wolfe LA. The elusive magic pill: finding effective therapies for mitochondrial disorders. Neurotherapeutics 2013;10: 320-328.	Narrative review not on the topic of the current question (the article is focused on treatment for mitochondrial disorders and not impact of mitochondrial disorders on fertility putcomes
Gordon W, Jr., Siegmund K, Stanisic TH, McKnight B, Harris IT, Carroll PR, Paradelo JC, Meyers FJ, Chapman RA, Meyskens FL, Jr. A study of reproductive function in patients with seminoma treated with radiotherapy and orchidectomy: (SWOG-8711). Southwest Oncology Group. Int J Radiat Oncol Biol Phys 1997;38: 83-94.	This article addressed the issues of the current question but in men
Griesshammer M, Bergmann L, Pearson T. Fertility, pregnancy and the management of myeloproliferative disorders. Baillieres Clin Haematol 1998;11: 859-874.	Narrative review (more updated data available in more recent reviews)
Grigg A. The impact of conventional and high-dose therapy for lymphoma on fertility. Clin Lymphoma 2004;5: 84-88.	Narrative review (more updated data available in more recent reviews)
Gupta AA, Lee Chong A, Deveault C, Traubici J, Maloney AM, Knight S, Lorenzo A, Allen L. Anti- Mullerian Hormone in Female Adolescent Cancer Patients Before, During, and After Completion of Therapy: A Pilot Feasibility Study. J Pediatr Adolesc Gynecol 2016;29; 599–603.	Study focused on adolescent cancer patients only; other

	larger studies available on
	AMH post-treatment
Hahn HS, Yoon SG, Hong JS, Hong SR, Park SJ, Lim JY, Kwon YS, Lee IH, Lim KT, Lee KH et al. Conservative treatment with progestin and pregnancy outcomes in endometrial cancer. Int J Gynecol Cancer 2009;19: 1068-1073.	Relevant intervention not included (the study assessed the efficacy of conservative treatment with progestin for
Hamy AS, Porcher R, Cuvier C, Giacchetti S, Schlageter MH, Coussieu C, Gronier H, Feugeas JP, Adoui N, Lacorte JM et al. Ovarian reserve in breast cancer: assessment with anti-Mullerian hormone. Reprod Biomed Online 2014;29: 573-580.	endometrial cancer) Study included in a recent systematic review (Freour EJC 2017)
Harbeck N, Latta S. Chemotherapy is not the end of the road in young cancer patients who still want to become pregnant. Onkologie 2010;33: 651-652.	Editorial on an an article addressing a case report on this topic
Harward LE, Mitchell K, Pieper C, Copland S, Criscione-Schreiber LG, Clowse ME. The impact of cyclophosphamide on menstruation and pregnancy in women with rheumatologic disease. Lupus 2013;22: 81-86.	Larger studies available on the topic
Haukvik UK, Dieset I, Bjoro T, Holte H, Fossa SD. Treatment-related premature ovarian failure as a long-term complication after Hodgkin's lymphoma. Ann Oncol 2006;17: 1428-1433.	Study included in the systematic review by Overbeek (Cancer Treat Rev 2017)
He H, Huang H, Yu T. Detection of DNA damage in sonochemotherapy against cisplatin-resistant human ovarian cancer cells using the modified comet assay. Int J Radiat Biol 2014;90: 897-902.	Relevant outcomes not assessed (article not focused on POI risk)
Henry NL, Xia R, Schott AF, McConnell D, Banerjee M, Hayes DF. Prediction of postchemotherapy ovarian function using markers of ovarian reserve. Oncologist 2014;19: 68-74.	Study included in recent systematic reviews (Freour EJC 2017 and Peigne Reprod Biol End 2014) plus in another recent systematic review and metanalysis (Silva Hum Reprod 2016)
Homer MV, Charo LM, Natarajan L, Haunschild C, Chung K, Mao JJ, DeMichele AM, Su HI. Genetic variants of age at menopause are not related to timing of ovarian failure in breast cancer survivors. Menopause 2017;24: 663-668.	Larger studies available on the topic
Howard GC. Fertility following cancer therapy. Clin Oncol (R Coll Radiol) 1991;3: 283-287.	Narrative review (more updated data available in more recent reviews)
Hsu SD, Lee SY, Lin KT, Lin CS, Chien WC, Chen CJ, Chung CH, Chang WK. Risk of infertility following pelvic angiographic embolization in female patients with pelvic fractures: A nationwide population-based cohort study in Taiwan. PLoS One 2017;12: e0174733.	Retrospective population- based study; small number of cases; only infertility was assessed as outcomes
Hulvat MC, Jeruss JS. Maintaining fertility in young women with breast cancer. Curr Treat Options Oncol 2009;10: 308-317.	Narrative review (more updated data available in more recent reviews)
Huong DL, Amoura Z, Duhaut P, Sbai A, Costedoat N, Wechsler B, Piette JC. Risk of ovarian failure and fertility after intravenous cyclophosphamide. A study in 84 patients. J Rheumatol 2002;29: 2571-2576.	Larger studies available on the topic
Imai A, Ichigo S, Matsunami K, Takagi H, Kawabata I. Ovarian function following targeted anti- angiogenic therapy with bevacizumab. Mol Clin Oncol 2017;6: 807-810.	Narrative review not reporting clinical data to estimate POI risk with bevacizumab
lorio R, Castellucci A, Ventriglia G, Teoli F, Cellini V, Macchiarelli G, Cecconi S. Ovarian toxicity: from environmental exposure to chemotherapy. Curr Pharm Des 2014;20: 5388-5397.	Narrative review (more updated data available in more recent reviews)
Ivancsits S, Pilger A, Diem E, Jahn O, Rudiger HW. Cell type-specific genotoxic effects of intermittent extremely low-frequency electromagnetic fields. Mutat Res 2005;583; 184-188.	Relevant outcomes not assessed (study that analyzed the effect on cells of exposure to extremely low-frequency electromagnetic fields)
Iwase A, Nakamura T, Nakahara T, Goto M, Kikkawa F. Anti-Mullerian hormone and assessment of ovarian reserve after ovarian toxic treatment: a systematic narrative review. Reprod Sci 2015;22: 519-526.	Systematic review on the same topic by Peigne 2014
Janssen NM, Genta MS. The effects of immunosuppressive and anti-inflammatory medications on fertility, pregnancy, and lactation. Arch Intern Med 2000;160: 610–619.	Narrative review (more updated data available in more recent reviews)
Johnson L, Sammel MD, Schanne A, Lechtenberg L, Prewitt M, Gracia C. Female cancer survivors exposed to alkylating-agent chemotherapy have unique reproductive hormone profiles. Fertil Steril 2016;106: 1793-1799.e1792.	Relevant outcomes not assessed (POI risk based on urinary metaboltes); small cohort of patients
Jones AL. Fertility and pregnancy after breast cancer. Breast 2006;15 Suppl 2: S41-46.	Narrative review (more updated data available in more recent reviews)
Kang H, Kim TJ, Kim WY, Choi CH, Lee JW, Kim BG, Bae DS. Outcome and reproductive function after cumulative high-dose combination chemotherapy with bleomycin, etoposide and cisplatin (BEP) for patients with ovarian endodermal sinus tumor. Gynecol Oncol 2008;111: 106-110.	Another larger study on the topic (Gershenson et al) has been included on this topic
Kasum M, Beketic-Oreskovic L, Peddi PF, Oreskovic S, Johnson RH. Fertility after breast cancer treatment. Eur J Obstet Gynecol Reprod Biol 2014;173: 13-18.	Narrative review (more updated data available in more recent reviews)

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Katsifis GE, Tzioufas AG. Ovarian failure in systemic lupus erythematosus patients treated with pulsed intravenous cyclophosphamide. Lupus 2004;13: 673-678.	Narrative review (more updated data available in more recent reviews)
Kesic V. Fertility after the treatment of gynecologic tumors. Recent Results Cancer Res 2008;178: 79–95.	Narrative review (more updated data available in more recent reviews)
Kim HA, Choi J, Park CS, Seong MK, Hong S, Kim JS, Park IC, Lee JK, Noh WC. Post-chemotherapy serum anti-mullerian hormone level predicts ovarian function recovery. Endocr Connect 2018.	Larger studies available on the topic
kim MK, Yoon BS, Park H, Seong SJ, Chung HH, Kim JW, Kang SB. Conservative treatment with medroxyprogesterone acetate plus levonorgestrel intrauterine system for early-stage endometrial cancer in young women: pilot study. Int J Gynecol Cancer 2011;21: 673	Relevant outcomes not assessed (article addressing alendronate on bone mineral density)
Kim MK, Yoon BS, Park H, Seong SJ, Chung HH, Kim JW, Kang SB. Conservative treatment with medroxyprogesterone acetate plus levonorgestrel intrauterine system for early-stage endometrial cancer in young women: pilot study. Int J Gynecol Cancer 2011;21: 673-677.	Relevant outcomes not assessed (article addressing conservative treatment for endometrial cancer)
Kim, H.A., et al., Post-chemotherapy serum anti-Mullerian hormone level predicts ovarian function recovery. Endocr Connect, 2018. 7(8): p. 949-956.	АМН
Knobf MT. Reproductive and hormonal sequelae of chemotherapy in women. Cancer Nurs 2006;29: 60-65.	Narrative review (more updated data available in more recent reviews)
Koga C, Akiyoshi S, Ishida M, Nakamura Y, Ohno S, Tokunaga E. Chemotherapy-induced amenorrhea and the resumption of menstruation in premenopausal women with hormone receptor-positive early breast cancer. Breast Cancer 2017;24: 714-719.	Larger studies available on the topic
Kulkarni SS, Sastry PS, Saikia TK, Parikh PM, Gopal R, Advani SH. Gonadal function following ABVD therapy for Hodgkin's disease. Am J Clin Oncol 1997;20: 354-357.	Study including men only
Kumar N, Allen KA, Riccardi D, Bercu BB, Cantor A, Minton S, Balducci L, Jacobsen PB. Fatigue, weight gain, lethargy and amenorrhea in breast cancer patients on chemotherapy: is subclinical hypothyroidism the culprit? Breast Cancer Res Treat 2004;83: 149-159.	Updated and larger studies on the topic
Kunneman M, Pieterse AH, Stiggelbout AM, Marijnen CA. Which benefits and harms of preoperative radiotherapy should be addressed? A Delphi consensus study among rectal cancer patients and radiation oncologists. Radiother Oncol 2015;114: 212-217.	Relevant outcomes not assessed (survey on agreement between doctors and patients on most important issues, including fertility)
Lagana AS, Barbaro L, Pizzo A. Evaluation of ovarian function and metabolic factors in women affected by polycystic ovary syndrome after treatment with D-Chiro-Inositol. Arch Gynecol Obstet 2015;291: 1181-1186.	Relevant outcomes not assessed (study assessing the efficacy of d-chiro-inositl treatment in patients with PCOS)
Langan RC, Prieto PA, Sherry RM, Zlott D, Wunderlich J, Csako G, Costello R, White DE, Rosenberg SA, Yang JC. Assessment of ovarian function after preparative chemotherapy and total body radiation for adoptive cell therapy. J Immunother 2011;34: 397-402.	Study including a small number of patients treated with a non widely adopted treatment
Lasica M, Taylor E, Bhattacharyya P, Bennett A, Cooke RE, Stern C, Agresta F, Ayton R, Grigg A. Fertility in premenopausal women post autologous stem cell transplant with BEAM conditioning. Eur J Haematol 2016;97: 348-352.	Relevant outcomes not assessed (not clear definition of POI, mainly focused on chances of post-treatment pregnancies); very small retrospective study
Lawrenz B, Mahajan N, Fatemi HM. The effects of cancer therapy on women's fertility: what do we know now? Future Oncol 2016;12: 1721-1729.	Narrative review (more updated data available in more recent reviews)
Lee BC, Yen RF, Lin CL, Liang JA, Lin MC, Kao CH. Pregnancy Incidence in Female Nasopharyngeal Carcinoma Survivors of Reproductive Age: A Population-Based Study. Medicine (Baltimore) 2016;95: e3729.	Relevant outcomes not assessed (article not focused on POI risk, only fertility rates were reported)
Lee S, Kil WJ, Chun M, Jung YS, Kang SY, Kang SH, Oh YT. Chemotherapy-related amenorrhea in premenopausal women with breast cancer. Menopause 2009;16: 98-103.	Study included in two recent systematic reviews and metanalyses (Silva Hum Reprod 2016 and Zhao Breast Cancer Res Treat 2014)
Letourneau J, Chan SW, Rosen MP. Accelerating ovarian age: cancer treatment in the premenopausal woman. Semin Reprod Med 2013;31: 462-468.	Narrative review (more updated data available in more recent reviews)
Li XS, Lv Q, Du ZG, Chen J. Prediction of ovarian function in premenopausal breast cancer patients with amenorrhoea after chemotherapy: a simple clinical score. Springerplus 2016;5: 1052.	Relevant outcomes not assessed (article focused on the development of a method to predict ovarian function after treatment)
Lie Fong S, Lugtenburg PJ, Schipper I, Themmen AP, de Jong FH, Sonneveld P, Laven JS. Anti- mullerian hormone as a marker of ovarian function in women after chemotherapy and radiotherapy for haematological malignancies. Hum Reprod 2008;23: 674-678.	Study included in a recent systematic review (Peigne Reprod Biol End 2014)
Liem GS, Mo FK, Pang E, Suen JJ, Tang NL, Lee KM, Yip CH, Tam WH, Ng R, Koh J et al. Chemotherapy-Related Amenorrhea and Menopause in Young Chinese Breast Cancer Patients: Analysis on Incidence, Risk Factors and Serum Hormone Profiles. PLoS One 2015;10: e0140842.	Updated and larger studies on the topic

Lo Presti A, Ruvolo G, Gancitano RA, Cittadini E. Ovarian function following radiation and chemotherapy for cancer. Eur J Obstet Gynecol Reprod Biol 2004;113 Suppl 1: S33-40.	Narrative review (more updated data available in more recent reviews)
Long JP, Wan F, Zhang F, Zhou J, Don LF. DTC chemotherapy regimen is associated with higher incidence of premature ovarian failure in women of reproductive age with breast cancer. Eur Rev Med Pharmacol Sci 2016;20: 1087-1092.	Investigation of the gonadotoxicity of chemotherapy regimens not used in breast cancer
Lower EE, Blau R, Gazder P, Tummala R. The risk of premature menopause induced by chemotherapy for early breast cancer. J Womens Health Gend Based Med 1999;8: 949-954.	Updated and larger studies on the topic
Magne N, Chargari C, Levy A, Rodriguez C, De Vos V, Gerbaulet A, Duvillard P, Morice P, Haie- Meder C. Clear cell adenocarcinoma of the female genital tract: long-term outcome and fertility aspects after brachytherapy aimed at a conservative treatment. Int J Gynecol Cancer 2012;22: 1378- 1382.	Relevant outcomes not assessed (article not focused on POI risk, only fertility rates were reported)
Mancini J, Rey D, Preau M, Malavolti L, Moatti JP. Infertility induced by cancer treatment: inappropriate or no information provided to majority of French survivors of cancer. Fertil Steril 2008;90: 1616-1625.	Relevant outcomes not assessed (study focused on information to patients about infertility risks and preservation methods)
Martin-Suarez I, D'Cruz D, Mansoor M, Fernandes AP, Khamashta MA, Hughes GR. Immunosuppressive treatment in severe connective tissue diseases: effects of low dose intravenous cyclophosphamide. Ann Rheum Dis 1997;56: 481-487.	Larger studies available on the topic
Massenkeil G, Alexander T, Rosen O, Dorken B, Burmester G, Radbruch A, Hiepe F, Arnold R. Long- term follow-up of fertility and pregnancy in autoimmune diseases after autologous haematopoietic stem cell transplantation. Rheumatol Int 2016;36: 1563-1568.	Larger studies available on the topic
Mayorga J, Alpizar-Rodriguez D, Prieto-Padilla J, Romero-Diaz J, Cravioto MC. Prevalence of premature ovarian failure in patients with systemic lupus erythematosus. Lupus 2016;25: 675-683.	Menstrual function after treatment for systemic lupus erythematous
McDermott EM, Powell RJ. Incidence of ovarian failure in systemic lupus erythematosus after treatment with pulse cyclophosphamide. Ann Rheum Dis 1996;55: 224-229.	Larger studies available on the topic
McKay MJ, Bull CA, Houghton CR, Langlands AO. Retention of endometrial sensitivity to hormones after radiation therapy (RT) for cervical cancer in premenopausal patients. Gynecol Oncol 1990;39: 236.	Letter to the editor; relevant outcomes not assessed (article addressing endometrial sensitivity to hormones after radio/chemotherapy)
Mead G. The effects of cancer treatment on reproductive functions. Clin Med (Lond) 2007;7: 544- 545.	Editorial on an an article addressing this topic
Mehta RR, Beattie CW, Das Gupta TK. Endocrine profile in breast cancer patients receiving chemotherapy. Breast Cancer Res Treat 1992;20: 125-132.	Updated and larger studies on the topic (CMF chemotherapy) included in the systematic review and metanalysis by Zhao (Breast Cancer Res Treat 2014)
Meirow D, Biederman H, Anderson RA, Wallace WH. Toxicity of chemotherapy and radiation on female reproduction. Clin Obstet Gynecol 2010;53: 727-739.	Narrative review (more updated data available in more recent reviews)
Meirow D, Nugent D. The effects of radiotherapy and chemotherapy on female reproduction. Hum Reprod Update 2001;7: 535-543.	Narrative review (more updated data available in more recent reviews)
Meirow D. Reproduction post-chemotherapy in young cancer patients. Mol Cell Endocrinol 2000;169: 123-131.	Larger studies available on the topic
Meneses K, Holland AC. Current evidence supporting fertility and pregnancy among young survivors of breast cancer. J Obstet Gynecol Neonatal Nurs 2014;43: 374-381.	Narrative review (more updated data available in more recent reviews)
Meng K, Tian W, Zhou M, Chen H, Deng Y. Impact of chemotherapy-induced amenorrhea in breast cancer patients: the evaluation of ovarian function by menstrual history and hormonal levels. World J Surg Oncol 2013;11: 101.	Study included in the systematic review and metanalysis by Zhao (Breast Cancer Res Treat 2014)
Milgrom SA, Vargas HA, Sala E, Kelvin JF, Hricak H, Goodman KA. Acute effects of pelvic irradiation on the adult uterus revealed by dynamic contrast-enhanced MRI. Br J Radiol 2013;86: 20130334.	Relevant outcomes not assessed (MRI to detect acute effects of pelvic radiotherapy to the uterus); very small cohort of patients
Minisini AM, Menis J, Valent F, Andreetta C, Alessi B, Pascoletti G, Piga A, Fasola G, Puglisi F. Determinants of recovery from amenorrhea in premenopausal breast cancer patients receiving adjuvant chemotherapy in the taxane era. Anticancer Drugs 2009;20: 503-507.	Study included in the systematic review by Overbeek (Cancer Treat Rev 2017)
Mitwally MF. Effect of cancer and cancer treatment on human reproduction. Expert Rev Anticancer Ther 2007;7: 811-822.	Narrative review (more updated data available in more recent reviews)
Miyoshi Y, Yasuda K, Tachibana M, Yoshida H, Miyashita E, Miyamura T, Hashii Y, Hashimoto K, Kimura T, Ozono K. Longitudinal observation of serum anti-Mullerian hormone in three girls after cancer treatment. Clin Pediatr Endocrinol 2016;25: 119-126. Mok CC, Lau CS, Wong RW. Risk factors for ovarian failure in patients with systemic lupus	Larger studies available on the topic (case series on 3 cases of AMH assessment) Larger studies available on the
erythematosus receiving cyclophosphamide therapy. Arthritis Rheum 1998;41: 831-837. Morarji K, McArdle O, Hui K, Gingras-Hill G, Ahmed S, Greenblatt EM, Warner E, Sridhar S, Ali AMF, Azad A et al. Ovarian function after chemotherapy in young breast cancer survivors. Curr Oncol 2017;24: e494-e502.	topic Larger studies available on the topic

Morice P, Pautier P, Fanchin R, Haie-Meder C, Chauveaud-Lambling A, Frydman R, Frydman N. Therapy Insight: fertility in women after cancer treatment. Nat Clin Pract Endocrinol Metab 2007;3: 819-826.	Narrative review (more updated data available in more recent reviews)
Morse H, Elfving M, Lindgren A, Wolner-Hanssen P, Andersen CY, Ora I. Acute onset of ovarian dysfunction in young females after start of cancer treatment. Pediatr Blood Cancer 2013;60: 676-681.	Study included in a recent systematic review (Peigne Reprod Biol End 2014)
Morse H, Elfving M, Turkiewicz A, Andersen CY, Ora I. Severe gonadotoxic insult manifests early in young girls treated for Ewing sarcoma. Medicine (Baltimore) 2016;95: e4512	Study including female childhood cancer patients
Moss EL, Taneja S, Munir F, Kent C, Robinson L, Potdar N, Sarhanis P, McDermott H. latrogenic Menopause After Treatment for Cervical Cancer. Clin Oncol (R Coll Radiol) 2016;28: 766-775.	Narrative review outside the topic of the current question (this review assessed the consequences and not the risk of POI)
Nabhan SK, Bitencourt MA, Duval M, Abecasis M, Dufour C, Boudjedir K, Rocha V, Socie G, Passweg J, Goi K et al. Fertility recovery and pregnancy after allogeneic hematopoietic stem cell transplantation in Fanconi anemia patients. Haematologica 2010;95: 1783-1787.	Menstrual function and pregnancies after treatment with hematopoietic stem cell transplantation for Fanconi anemia
Najafi S, Djavid GE, Mehrdad N, Rajaii E, Alavi N, Olfatbakhsh A, Najafi M, Bahrami A, Heidari K. Taxane-based regimens as a risk factor for chemotherapy-induced amenorrhea. Menopause 2011;18: 208-212.	Study included in the systematic review and metanalysis by Zhao (Breast Cancer Res Treat 2014)
Nakayama K, Milbourne A, Schover LR, Champlin RE, Ueno NT. Gonadal failure after treatment of hematologic malignancies: from recognition to management for health-care providers. Nat Clin Pract Oncol 2008;5: 78-89.	Narrative review (more updated data available in more recent reviews)
Ogilvy-Stuart AL, Clark DJ, Wallace WH, Gibson BE, Stevens RF, Shalet SM, Donaldson MD. Endocrine deficit after fractionated total body irradiation. Arch Dis Child 1992;67: 1107-1110.	This article addressed the issues of the current question but in children
Oktay K, Moy F, Titus S, Stobezki R, Turan V, Dickler M, Goswami S. Age-related decline in DNA repair function explains diminished ovarian reserve, earlier menopause, and possible oocyte vulnerability to chemotherapy in women with BRCA mutations. J Clin Oncol 2014;32: 1093-1094.	Letter explaining possible impact of BRCA mutations on ovarian function, fertility and gonadotoxic risk
Oktem O, Oktay K. Quantitative assessment of the impact of chemotherapy on ovarian follicle reserve and stromal function. Cancer 2007;110: 2222-2229.	Relevant outcomes not assessed (study focused on the quantification of the impact of chemotherapy on primordial follicle reserve and stromal function in human ovary)
Oven Ustaalioglu BB, Bilici A, Kefeli U, Seker M, Salepci T, Unal O, Gumus M. A retrospective analysis of women's chances to become pregnant after completion of chemotherapy: a single center experience. J buon 2011;16: 349-352.	Relevant outcomes not assessed (description of patients with post-treatment pregnancies and pregnancy outcome)
Pagani, O., et al., Absolute Improvements in Freedom From Distant Recurrence to Tailor Adjuvant Endocrine Therapies for Premenopausal Women: Results From TEXT and SOFT. J Clin Oncol, 2019: p. Jco1801967.	not relevant for the key question
Palinska-Rudzka, K.E., et al., Five-year study assessing the clinical utility of anti-Mullerian hormone measurements in reproductive-age women with cancer. Reprod Biomed Online, 2019. 39(4): p. 712- 720.	АМН
Papadakis V, Vlachopapadopoulou E, Van Syckle K, Ganshaw L, Kalmanti M, Tan C, Sklar C. Gonadal function in young patients successfully treated for Hodgkin disease. Med Pediatr Oncol _1999;32: 366–372.	Larger studies available on the topic
Park MC, Park YB, Jung SY, Chung IH, Choi KH, Lee SK. Risk of ovarian failure and pregnancy outcome in patients with lupus nephritis treated with intravenous cyclophosphamide pulse therapy. Lupus 2004;13: 569-574.	Larger studies available on the topic
Partridge A, Gelber S, Gelber R, Castiglione-Gertsch M, Goldhirsch A, Winer E. Age of menopause among women who remain premenopausal following treatment for early breast cancer: long-term results from International Breast Cancer Study Group Trials V and VI. European journal of cancer (oxford, england : 1990) 2007;43: 1646-1653.	Issue of age at menopause irrespectively of POI development focused on breast cancer patients only (the study by Letourneao et al already included in the introduction)
Partridge AH, Ruddy KJ, Gelber S, Schapira L, Abusief M, Meyer M, Ginsburg E. Ovarian reserve in women who remain premenopausal after chemotherapy for early stage breast cancer. Fertil Steril 2010;94: 638–644.	Study included in a recent systematic review (Freour EJC 2017)
Passildas, J., et al., Impact of Chemotherapy-induced Menopause in Women of Childbearing Age With Non-metastatic Breast Cancer - Preliminary Results From the MENOCOR Study. Clin Breast Cancer, 2019, 19(1): p. e74-e84.	not relevant for the key question
Peng X, Zhi M, Wei M, Li TT, Zhang M, Zhang YQ, He H, Su M, Wang W, Chen JR et al. Thalidomide results in diminished ovarian reserve in reproductive age female IBD patients. Medicine (Baltimore) 2017;96: e6540.	Menstrual function, AMH, FSH and E2 in women with treated with thalidomide for inflammatory bowel disease
Perez-Fidalgo JA, Rosello S, Garcia-Garre E, Jorda E, Martin-Martorell P, Bermejo B, Chirivella I, Guzman C, Lluch A. Incidence of chemotherapy-induced amenorrhea in hormone-sensitive breast cancer patients: the impact of addition of taxanes to anthracycline-based regimens. Breast Cancer Res Treat 2010;120: 245-251.	Study included in a recent systematic review and metanalysis (Silva Hum Reprod 2016 and Zhao Breast Cancer Res Treat 2014)

Petrek JA, Naughton MJ, Case LD, Paskett ED, Naftalis EZ, Singletary SE, Sukumvanich P. Incidence, time course, and determinants of menstrual bleeding after breast cancer treatment: a prospective study. J Clin Oncol 2006;24: 1045-1051.	Updated studies and available metanalysis on the topic
Pinelli, S. and S. Basile, Fertility Preservation: Current and Future Perspectives for Oncologic Patients at Risk for latrogenic Premature Ovarian Insufficiency. Biomed Res Int, 2018. 2018: p. 6465903.	not relevant for the key question
Raciborska A, Bilska K, Filipp E, Drabko K, Rogowska E, Chaber R, Pogorzala M, Polczynska K, Adrianowska N, Rodriguez-Galindo C et al. Ovarian function in female survivors after multimodal Ewing sarcoma therapy. Pediatr Blood Cancer 2015;62: 341-345.	Study on childhood cancer; study included in the systematic review by Overbeek (Cancer Treat Rev 2017)
Randall TC, Kurman RJ. Progestin treatment of atypical hyperplasia and well-differentiated carcinoma of the endometrium in women under age 40. Obstet Gynecol 1997;90: 434-440.	Relevant outcomes not assessed (article focused on fertility sparing treatment for endometrial cancer)
Recchia F, Candeloro G, Rosselli M, Bratta M, Pasta V, D'Orazi V, Fumagalli LA, Rea S. Adjuvant Ovarian Suppression, High-dose Chemotherapy and Immunotherapy for Premenopausal Patients with High-risk Breast Cancer. Anticancer Res 2015;35: 6847-6853.	Investigation of the gonadotoxicity of chemotherapy regimens not used in breast cancer
Rivkin S, Green S, Lew D, Costanzi J, Athens J, Osborne C, Vaughn C, Martino S. Adjuvant chemotherapy with cyclophosphamide, methotrexate, and 5-fluorouracil, vincristine, and prednisone compared with single-agent L-phenylalanine mustard for patients with operable breast carcinoma and positive axillary lymph nodes: 20-year results of a Southwest Oncology Group study. Cancer 2003;97: 21-29.	Relevant outcomes not assessed (treatment effect by menopausal status, not risk of POI with the different treatments)
Rodriguez-Wallberg KA. Principles of cancer treatment: impact on reproduction. Adv Exp Med Biol 2012;732: 1-8.	Narrative review (more updated data available in more recent reviews)
Roeca, C., S. Dovey, and A.J. Polotsky, Recommendations for assessing ovarian health and fertility potential in survivors of childhood cancer. Maturitas, 2019, 122; p. 57–59.	Childhood Cancer
Rosario PW, Fagundes TA, Fagundes AV, Barraso AL, Rezende LL, Padrao EL, Guimaraes VC, Purisch S. Radioiodine therapy and age at menopause in patients with thyroid cancer. Clin Endocrinol (Oxf) 2006;64: 225-226.	Topic already covered in the more updated paper by Clement 2015
Rosendahl M, Ahlgren J, Andersen J, Bergh J, Blomquist C, Lidbrink E, Lindman H, Mouridsen H, Bjerre K, Andersson M. The risk of amenorrhoea after adjuvant chemotherapy for early stage breast cancer is related to inter-individual variations in chemotherapy-induced leukocyte nadir in young patients: data from the randomised SBG 2000-1 study. Eur J Cancer 2009;45: 3198-3204.	Updated studies and available metanalysis on the topic
Ruddy KJ, O'Neill A, Miller KD, Schneider BP, Baker E, Sparano JA, Dang C, Northfelt DW, Sledge GW, Jr., Partridge AH. Biomarker prediction of chemotherapy-related amenorrhea in premenopausal women with breast cancer participating in E5103. Breast Cancer Res Treat 2014;144: 591-597.	Study included in a recent systematic review (Freour EJC 2017)
Sakurai K, Enomoto K, Amano S. Recovery of menstruation after long-term chemotherapy and endocrine therapy in pre-menopausal patients with breast cancer. J Cancer Res Clin Oncol 2011;137: 615-620.	Larger studies on the topic
Salama M, Woodruff TK. Anticancer treatments and female fertility: clinical concerns and role of oncologists in oncofertility practice. Expert Rev Anticancer Ther 2017;17: 687-692.	Narrative review (more updated data available in more recent reviews)
Sawka AM, Lakra DC, Lea J, Alshehri B, Tsang RW, Brierley JD, Straus S, Thabane L, Gafni A, Ezzat S et al. A systematic review examining the effects of therapeutic radioactive iodine on ovarian function and future pregnancy in female thyroid cancer survivors. Clin Endocrinol (Oxf) 2008;69: 479-490.	Narrative review covered in the more updated paper by Clement 2015
Schover LR, van der Kaaij M, van Dorst E, Creutzberg C, Huyghe E, Kiserud CE. Sexual dysfunction and infertility as late effects of cancer treatment. EJC Suppl 2014;12: 41-53.	Narrative review focused on sexual dysfunction more than ovarian function or fertility issues
Schover LR. Sexuality and fertility after cancer. Hematology Am Soc Hematol Educ Program 2005: 523-527.	Narrative review (more updated data available in more recent reviews)
Schuck A, Hamelmann V, Bramswig JH, Konemann S, Rube C, Hesselmann S, Riesenbeck D, Horst E, Bolling T, Paulussen M et al. Ovarian function following pelvic irradiation in prepubertal and pubertal girls and young adult women. Strahlenther Onkol 2005;181: 534-539.	Study that included mostly childhood cancer patients
Seshadri T, Hourigan MJ, Wolf M, Mollee PN, Seymour JF. The effect of the Hyper-CVAD chemotherapy regimen on fertility and ovarian function. Leuk Res 2006:30: 483-485.	Small study including only 7 evaluable patients
Silva, C., et al., Adverse reproductive health outcomes in a cohort of young women with breast cancer exposed to systemic treatments. J Ovarian Res 2010, 12(1): p. 102	obstetric outcomes
Singh G, Misra R, Aggarwal A. Ovarian Insufficiency is Major Short-term Toxicity in Systemic Lupus Erythematosus Patients Treated with Cyclophosphamide. J Assoc Physicians India 2016;64: 28-31.	Larger studies available on the topic
Sklar C. Maintenance of ovarian function and risk of premature menopause related to cancer treatment. J Natl Cancer Inst Monogr 2005: 25-27.	Narrative review (more updated data available in more recent reviews)
Socie G, Salooja N, Cohen A, Rovelli A, Carreras E, Locasciulli A, Korthof E, Weis J, Levy V, Tichelli A. Nonmalignant late effects after allogeneic stem cell transplantation. Blood 2003;101: 3373-3385.	Narrative review (more updated data available in more recent reviews)
Somigliana, E., et al., Chemotherapy-related damage to ovarian reserve in childhood cancer survivors: interpreting the evidence. J Assist Reprod Genet, 2019, 36(2): p. 341-348.	Childhood Cancer
Song G, Gao H, Yuan Z. Effect of leuprolide acetate on ovarian function after cyclophosphamide- doxorubicin-based chemotherapy in premenopausal patients with breast cancer: results from a phase II randomized trial. Med Oncol 2013;30: 667.	Study included in a recent systematic review and metanalysis (Silva Hum Reprod

	2016); to be included for the
Sparagana S, Franz DN, Krueger DA, Bissler JJ, Berkowitz N, Burock K, Kingswood JC. Pooled analysis of menstrual irregularities from three major clinical studies evaluating everolimus for the treatment of tuberous sclerosis complex. PLoS One 2017;12: e0186235.	Main outcome is menstrual irregularity (reported outcomes: LH level, delayed menstruation, oligomenorrhea, increased blood testosterone, polycystic
Stearns V, Schneider B, Henry NL, Hayes DF, Flockhart DA. Breast cancer treatment and ovarian failure: risk factors and emerging genetic determinants. Nat Rev Cancer 2006;6: 886-893.	ovaries, age of menarche) Narrative review (more updated original data available)
Stroud JS, Mutch D, Rader J, Powell M, Thaker PH, Grigsby PW. Effects of cancer treatment on ovarian function. Fertil Steril 2009;92: 417-427.	Narrative review (more updated data available in more recent reviews; radiotherapy covered more extensively in review by Wo Int J Rad 2009)
Su HI, Sammel MD, Green J, Velders L, Stankiewicz C, Matro J, Freeman EW, Gracia CR, DeMichele A. Antimullerian hormone and inhibin B are hormone measures of ovarian function in late reproductive-aged breast cancer survivors. Cancer 2010;116: 592–599.	Relevant outcomes not assessed (AMH leveles assessed in patients already exposed to chemotherapy, not prior to chemotherapy)
Swain S, Land S, Ritter M, Costantino J, Cecchini R, Mamounas E, Wolmark N, Ganz P. Amenorrhea in premenopausal women on the doxorubicin-and-cyclophosphamide-followed-by-docetaxel arm of NSABP B-30 trial. Breast cancer research and treatment 2009;113: 315-320. Swerdlow AJ, Cooke R, Bates A, Cunningham D, Falk SJ, Gilson D, Hancock BW, Harris SJ, Horwich A, Hoskin P L et al. Risk of premature menopause after treatment for Hodgkin's lymphoma. J Natl	Study included in a systematic review and metanalysis (Zhao Breast Cancer Res Treat 2014) Study included in the systematic review by Overbeek
Cancer Inst 2014;106. Tanaka T, Utsunomiya T, Utsunomiya H, Umesaki N. Irinotecan HCl, an anticancer topoisomerase I inhibitor, frequently induces ovarian failure in premenopausal and perimenopausal women. Oncol Rep 2008;19: 1123-1133.	(Cancer Treat Rev 2017) Small study including only 32 evaluable patients (with different diseases and different chemotherapy acents)
Tiong V, Rozita AM, Taib NA, Yip CH, Ng CH. Incidence of chemotherapy-induced ovarian failure in premenopausal women undergoing chemotherapy for breast cancer. World J Surg 2014;38: 2288- 2296.	Updated and larger studies on the topic
Tomao F, Miele E, Spinelli GP, Tomao S. Anticancer treatment and fertility effects. Literature review. J Exp Clin Cancer Res 2006;25: 475-481.	Narrative review (more updated data available in more recent reviews)
Torino F, Barnabei A, De Vecchis L, Appetecchia M, Strigari L, Corsello SM. Recognizing menopause in women with amenorrhea induced by cytotoxic chemotherapy for endocrine-responsive early breast cancer. Endocr Relat Cancer 2012;19: R21-33.	Narrative review (more updated data available in more recent reviews)
Torino F, Barnabei A, De Vecchis L, Sini V, Schittulli F, Marchetti P, Corsello SM. Chemotherapy- induced ovarian toxicity in patients affected by endocrine-responsive early breast cancer. Crit Rev Oncol Hematol 2014;89: 27-42.	Narrative review (more updated data available in more recent reviews)
Urbano MT, Tait DM. Can the irradiated uterus sustain a pregnancy? A literature review. Clin Oncol (R Coll Radiol) 2004;16: 24-28.	Narrative review (more updated data available in more recent reviews)
Utriainen, P., et al., Gonadal Failure Is Common in Long-Term Survivors of Childhood High-Risk Neuroblastoma Treated With High-Dose Chemotherapy and Autologous Stem Cell Rescue. Front Endocrinol (Lausanne), 2019. 10: p. 555.	Childhood Cancer
van den Berg, M.H., et al., Long-term effects of childhood cancer treatment on hormonal and ultrasound markers of ovarian reserve. Hum Reprod, 2018. 33(8): p. 1474–1488.	Childhood Cancer
Van Le L, McCormack M. Enhancing Care of the Survivor of Gynecologic Cancer: Managing the Menopause and Radiation Toxicity. Am Soc Clin Oncol Educ Book 2016;35: e270-275.	(this review assessed the consequences and not the risk of POI)
van Londen G.J, Perera S, Vujevich K, Rastogi P, Lembersky B, Brufsky A, Vogel V, Greenspan SL. The impact of an aromatase inhibitor on body composition and gonadal hormone levels in women with breast cancer. Breast Cancer Res Treat 2011;125: 441-446.	Relevant outcomes not assessed (article addressing BMI under treatment with AI in postmenopausal patients)
Vassilakopoulou M, Boostandoost E, Papaxoinis G, de La Motte Rouge T, Khayat D, Psyrri A. Anticancer treatment and fertility: Effect of therapeutic modalities on reproductive system and functions. Crit Rev Oncol Hematol 2016;97: 328-334.	Narrative review (more updated data available in more recent reviews)
Vini L, Hyer S, Al-Saadi A, Pratt B, Harmer C. Prognosis for fertility and ovarian function after treatment with radioiodine for thyroid cancer. Postgrad Med J 2002;78: 92-93.	More recent data from several retrospective/prospective data on the topic in the article by Clement CTR 2015
Vriens IJ, De Bie AJ, Aarts MJ, de Boer M, van Hellemond IE, Roijen JH, van Golde RJ, Voogd AC, Tjan-Heijnen VC. The correlation of age with chemotherapy-induced ovarian function failure in breast cancer patients. Oncotarget 2017;8: 11372-11379.	Larger studies available on the topic
Vyfhuis, M.A.L., et al., Preserving Endocrine Function in Premenopausal Women Undergoing Whole Pelvis Radiation for Cervical Cancer. Int J Part Ther, 2019. 6(1): p. 10-17.	fertility protection
Wang PH, Chao HT, Chao KC. Chemotherapy-induced gonadotoxicity. Taiwan J Obstet Gynecol 2010;49: 1-2.	Editorial on an an article addressing a case report on this topic

Wei, C. and E. Crowne, The impact of childhood cancer and its treatment on puberty and subsequent hypothalamic pituitary and gonadal function, in both boys and girls. Best Pract Res Clin Endocrinol Metab, 2019. 33(3): p. 101291.	Childhood Cancer
Wikstrom AM, Hovi L, Dunkel L, Saarinen-Pihkala UM. Restoration of ovarian function after chemotherapy for osteosarcoma. Arch Dis Child 2003;88: 428-431.	Study on childhood cancer; study included in the systematic review by Overbeek (Cancer Treat Rev 2017)
Williams D, Crofton PM, Levitt G. Does ifosfamide affect gonadal function? Pediatr Blood Cancer 2008;50: 347-351.	Study including mostly children, very small number of females
Wong L, Harper L, Little MA. Getting the balance right: adverse events of therapy in anti-neutrophil cytoplasm antibody vasculitis. Nephrol Dial Transplant 2015;30 Suppl 1: i164-170.	Narrative review (only the impact of cyclophosphamide on fertility is discussed but this is information already widely covered by other studies)
Wong, Q.H.Y. and R.A. Anderson, The role of antimullerian hormone in assessing ovarian damage from chemotherapy, radiotherapy and surgery. Curr Opin Endocrinol Diabetes Obes, 2018. 25(6): p. 391-398.	АМН
Xue, C., et al., Pretreatment anti-Mullerian hormone-based nomogram predicts menstruation status after chemotherapy for premenopausal women with hormone receptor-positive early breast cancer. Breast Cancer Res Treat, 2019. 173(3): p. 619-628.	АМН
Zhang, B., et al., Evaluation of menopausal status among breast cancer patients with chemotherapy-induced amenorrhea. Chin J Cancer Res, 2018. 30(4): p. 468-476.	detection
Zhou Q, Yin W, Du Y, Shen Z, Lu J. Prognostic impact of chemotherapy-induced amenorrhea on premenopausal breast cancer: a meta-analysis of the literature. Menopause 2015;22: 1091-1097.	Systematic review and metanalysis outside the topic of the current question (this article assessed the prognostic effect and not the risk of amenorrhea in breast cancer)
Zhou W, Ding Q, Liang X, He Z, Zha X, Liu X, Wang S. The risk of amenorrhea is related to chemotherapy-induced leucopenia in breast cancer patients receiving epirubicin and taxane based chemotherapy. PLoS One 2012;7: e37249.	Study included in the systematic review and metanalysis by Zhao (Breast Cancer Res Treat 2014)

## Q8. Is it relevant to do ovarian reserve testing, and for whom?

DATABASE	Search string
PUBMED - CANCER	("Neoplasms"[Mesh] OR Cancer OR tumor OR neoplasm OR malignancy OR neoplasms) AND ("Fertility Preservation"[Mesh] OR "Fertility Preservation") AND ("Ovarian Reserve"[Mesh] OR "Ovarian Reserve" OR "AMH" OR "anti-Mullerian hormone" OR "antral follicle count" OR "AFC" OR "ovarian function" OR "ovarian aging")
PUBMED – CANCER 2	("Neoplasms"[Mesh] OR Cancer OR tumor OR neoplasm OR malignancy OR neoplasms) AND ("Ovarian Reserve"[Mesh] OR "Ovarian Reserve" OR "AMH" OR "anti-Mullerian hormone" OR "antral follicle count" OR "AFC" OR "ovarian function" OR "ovarian aging") REVIEWS ONLY
PUBMED - MERGED	("Systemic lupus erythematosus" OR *Lupus Erythematosus, Systemic*[Mesh] OR "Behcet's disease" OR *Behcet Syndrome*[Mesh] OR *Churg-Strauss syndrome* OR *Churg-Strauss Syndrome*[Mesh] OR *eosinophilic granulomatosis" OR *Steroid resistant glomerulonephritis" OR *glomerulonephritis" OR *Glomerulonephritis*[Mesh] OR "Granulomatosis with polyangiitis" OR *Wegener's granulomatosis" OR *Granulomatosis with Polyangiitis*[Mesh] OR "Inflammatory bowel diseases" OR *Crohn Disease* OR *ulcerative colitis" OR *Inflammatory Bowel Diseases*[Mesh] OR *Arthritis, Rheumatoid*[Mesh] OR *Rheumatoid arthritis" OR *Pemphigus vulgaris" OR *Pemphigus*[Mesh] OR *Autoimmune Diseases*[Mesh] OR *Haematological diseases" OR *Hematologic Diseases*[Mesh] OR *Anemia*[Mesh] OR *Jutoimmune Diseases*[Mesh] OR *Haematological diseases" OR *Hematologic Diseases*[Mesh] OR *Anemia*[Mesh] OR *Jutoimmune Diseases*[Mesh] OR *Haematological diseases" OR *Hematologic Diseases*[Mesh] OR *Anemia*[Mesh] OR *Jutoimmune Diseases*[Mesh] OR *Haematological diseases" OR *Hematologic Diseases*[Mesh] OR *Anemia*[Mesh] OR *Jutoimmune Diseases*[Mesh] OR *Haematological diseases" OR *Hematologic Diseases*[Mesh] OR *Anemia*[Mesh] OR *Jutoimmune Diseases*[Mesh] OR *Haematological diseases" OR *Hematologic Diseases*[Mesh] OR *Anemia*[Mesh] OR *Jutoimmune Diseases*[Mesh] OR *Haematological diseases" OR *Hematologic Diseases*[Mesh] OR *Anemia*[Mesh] OR *Sickle cell anaemia* OR *Indassaemia major* OR *Dunitis* (DR *Fragile X Syndrome*[Mesh] OR Galactosaemia OR *Turner Syndrome*[Mesh] OR *Fragile X Mental Retardation 1* OR *Fragile X Syndrome*[Mesh] OR Endometriosis*[Mesh] OR *Endometriosis* OR *Transgender Persons*[Mesh] OR Transgender OR Transsexual OR *anticipated gamete exhaustion* OR *age-related fertility decline* OR *social freezing* OR *nonmedical freezing* OR *social egg-freezing * OR *Lective freezing* OR *Fertility Preservation*[Mesh] OR *Fertility Preservation*) AND (*Ovarian Reserve*[Mesh] OR *Ovarian Reserve* OR *AMH* OR *anti-Mullerian hormone* OR *antal fo
COCHRANE – merged	(Cancer OR tumor OR neoplasm OR malignancy OR neoplasms OR "Systemic lupus erythematosus" OR "Behcet's disease" OR "Behcet Syndrome" OR "Churg-Strauss syndrome" OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" OR "Granulomatosis with polyangiitis" OR "Wegener's granulomatosis" OR "Inflammatory bowel diseases" OR "Autoimmune Disease" OR "Lecrative colitis" OR "Rheumatoid arthritis" OR "Pemphigus vulgaris" OR "Pemphigus" OR "Autoimmune Diseases" OR "Haematological diseases" OR "Anemia" OR "sickle cell anaemia" OR "thalassaemia major" OR "plastic anaemia" OR "Attered hypothalamic-pituitary-gonadal axis" OR "Ovarian oophoritis" OR "Oophoritis" OR "Fragile X Syndrome" OR Galactosaemia OR "Galactosemias" OR "Beta-thalassaemia" OR "Endometriosis" OR "Transgender Persons" OR Transgender OR Transsexual OR "anticipated gamete exhaustion" OR "ape-related fertility decline" OR "social freezing" OR "Anemical freezing" OR "Social egg-freezing " OR "Elective freezing" OR "Fertility Preservation") AND ("Ovarian Reserve" OR "AMH" OR "anti-Mullerian hormone" OR "Antical follicie count" OR "AFC" OR "ovarian function" OR "ovarian aging")



Reference	Exclusion criterium
Abu-Musa AA, Usta IM, Azar S, Salti I, Nassar AH. Ovarian reserve in patients with autoimmune diseases. Eur J Obstet Gynecol Reprod Biol 2006;126: 273-274.	Letter to the editor
Aikawa NE, Sallum AM, Pereira RM, Suzuki L, Viana VS, Bonfa E, Silva CA. Subclinical impairment of ovarian reserve in juvenile systemic lupus erythematosus after cyclophosphamide therapy. Clin Exp Rheumatol 2012;30: 445-449.	Study in children/childhood disease
Almog B, Shehata F, Sheizaf B, Tan SL, Tulandi T. Effects of ovarian endometrioma on the number of occytes retrieved for in vitro fertilization. Fertil Steril 2011;95; 525-527.	Included in review Seyhan2015
Ata B, Mumusoglu S, Aslan K, Seyhan A, Kasapoglu I, Avci B, Urman B, Bozdag G, Uncu G. Which is worse? Comparison of ART outcome between women with primary or recurrent endometriomas. Hum Reprod 2017;32; 1427-1431.	No relevant outcomes measured
Avraham S, Almog B, Reches A, Zakar L, Malcov M, Sokolov A, Alpern S, Azem F. The ovarian response in fragile X patients and premutation carriers undergoing IVF-PGD: reappraisal. Hum Reprod 2017;32: 1508-1511.	No relevant testing nor outcomes studied
Badik JR, Castaneda U, Gleason TJ, Spencer JB, Epstein MP, Ficicioglu C, Fitzgerald K, Fridovich- Keil JL. Ovarian function in Duarte galactosemia. Fertil Steril 2011;96: 469-473,e461.	Not relevant for the key question
Bajoria R, Chatterjee R. Hypogonadotrophic hypogonadism and diminished gonadal reserve accounts for dysfunctional gametogenesis in thalassaemia patients with iron overload presenting with infertility. Hemoglobin 2011;35: 636-642.	Not relevant for the key question
Bedoschi G, Navarro PA, Oktay K. Chemotherapy-induced damage to ovary: mechanisms and clinical impact, Future Oncol 2016;12: 2333-2344.	Some papers haev already been included in other reviews
Behringer K, Mueller H, Goergen H, Thielen I, Eibl AD, Stumpf V, Wessels C, Wiehlputz M, Rosenbrock J, Halbsguth T et al. Gonadal function and fertility in survivors after Hodgkin lymphoma treatment within the German Hodgkin Study Group HD13 to HD15 trials. J Clin Oncol 2013;31: 231-230.	effect of "diseases" on ovarian reserve
Beneventi F, Locatelli E, Giorgiani G, Zecca M, Locatelli F, Cavagnoli C, Simonetta M, Bariselli S, Negri B, Spinillo A. Gonadal and uterine function in female survivors treated by chemotherapy, radiotherapy, and/or bone marrow transplantation for childhood malignant and non-malignant diseases. Biog 2014;121: 856-865: discussion 865.	ovarian function was before treatment was not determined, therefore not possible to correlate outcome to treatment
Bi X, Zhang J, Cao D, Sun H, Feng F, Wan X, Xiang Y, Qiu L, Cheng X, Yang J et al. Anti-Mullerian hormone levels in patients with gestational trophoblastic neoplasia treated with different chemotherapy regimens: a prospective cohort study. Oncotarget 2017;8: 113920-113927.	Not relevant for the key question
Birch Petersen K, Hvidman HW, Sylvest R, Pinborg A, Larsen EC, Macklon KT, Andersen AN, Schmidt L. Family intentions and personal considerations on postponing childbearing in childless cohabiting and single women aged 35-43 seeking fertility assessment and counselling. Hum Reprod 2015;30: 2563-2574.	No relevant intervention, no relevant outcomes
Browne H, McCarthy-Keith D, Stegmann B, Spies J, Armstrong A. Ovarian response in women undergoing ovarian stimulation after myomectomy. Fertil Steril 2008;90: 2004.e2019-2021.	case report
Brunner HI, Bishnoi A, Barron AC, Houk LJ, Ware A, Farhey Y, Mongey AB, Strife CF, Graham TB, Passo MH. Disease outcomes and ovarian function of childhood-onset systemic lupus erythematosus. Lupus 2006;15: 198-206.	Included in review Oktem 2016
Check JH. What role does decreased ovarian reserve play in the aetiology of infertility related to endometriosis? Hum Reprod 2003;18: 653-654; author reply 654-655.	Newer reviews available
Chemaitilly W, Mertens AC, Mitby P, Whitton J, Stovall M, Yasui Y, Robison LL, Sklar CA. Acute ovarian failure in the childhood cancer survivor study. J Clin Endocrinol Metab 2006;91: 1723-1728.	Study in children/childhood disease
Chighizola CB, Raimondo MG, Meroni PL. Does APS Impact Women's Fertility? Curr Rheumatol Rep	
_ 2017;19: 33.	Not relevant for the key question
2017;19; 33. Cil AP, Leventoglu A, Sonmezer M, Soylukoc R, Oktay K. Assessment of ovarian reserve and Doppler characteristics in patients with multiple sclerosis using immunomodulating drugs. J Turk Ger Gynecol Assoc 2009;10: 213-219.	Not relevant for the key question No relevant outcomes included
2017;19: 33. Cil AP, Leventoglu A, Sonmezer M, Soylukoc R, Oktay K. Assessment of ovarian reserve and Doppler characteristics in patients with multiple sclerosis using immunomodulating drugs. J Turk Ger Gynecol Assoc 2009;10: 213-219. Cil AP, Turkgeldi L, Seli E. Oocyte Cryopreservation as a Preventive Measure for Age-Related Fertility Loss. Semin Reprod Med 2015;33: 429-435.	Not relevant for the key question No relevant outcomes included No relevant testing nor outcomes
2017;19: 33. Cil AP, Leventoglu A, Sonmezer M, Soylukoc R, Oktay K. Assessment of ovarian reserve and Doppler characteristics in patients with multiple sclerosis using immunomodulating drugs. J Turk Ger Gynecol Assoc 2009;10: 213-219. Cil AP, Turkgeldi L, Seli E. Oocyte Cryopreservation as a Preventive Measure for Age-Related Fertility Loss. Semin Reprod Med 2015;33: 429-435. Clark CA, Laskin CA. Ovarian reserve in antiphospholipid syndrome: the jury is still out. Lupus 2015;24: 773.	Not relevant for the key question No relevant outcomes included No relevant testing nor outcomes Letter to the editor
2017;19: 33.         Cil AP, Leventoglu A, Sonmezer M, Soylukoc R, Oktay K. Assessment of ovarian reserve and Doppler characteristics in patients with multiple sclerosis using immunomodulating drugs. J Turk Ger Gynecol Assoc 2009;10: 213-219.         Cil AP, Turkgeldi L, Seli E. Oocyte Cryopreservation as a Preventive Measure for Age-Related Fertility Loss. Semin Reprod Med 2015;33: 429-435.         Clark CA, Laskin CA. Ovarian reserve in antiphospholipid syndrome: the jury is still out. Lupus 2015;24: 773.         de la Noval BD. Potential implications on female fertility and reproductive lifespan in BRCA germline mutation women. Arch Gynecol Obstet 2016;294: 1099-1103.	Not relevant for the key question No relevant outcomes included No relevant testing nor outcomes Letter to the editor effect of "diseases" on ovarian reserve
2017;19: 33.         Cil AP, Leventoglu A, Sonmezer M, Soylukoc R, Oktay K. Assessment of ovarian reserve and Doppler characteristics in patients with multiple sclerosis using immunomodulating drugs. J Turk Ger Gynecol Assoc 2009;10: 213-219.         Cil AP, Turkgeldi L, Seli E. Oocyte Cryopreservation as a Preventive Measure for Age-Related Fertility Loss. Semin Reprod Med 2015;33: 429-435.         Clark CA, Laskin CA. Ovarian reserve in antiphospholipid syndrome: the jury is still out. Lupus 2015;24: 773.         de la Noval BD. Potential implications on female fertility and reproductive lifespan in BRCA germline mutation women. Arch Gynecol Obstet 2016;294: 1099-1103.         Decanter C, Morschhauser F, Pigny P, Lefebvre C, Gallo C, Dewailly D. Anti-Mullerian hormone follow-up in young women treated by chemotherapy for lymphoma: preliminary results. Reprod Biomed Online 2010;20: 280-285.	Not relevant for the key question No relevant outcomes included No relevant testing nor outcomes Letter to the editor effect of "diseases" on ovarian reserve Included in review Dewaili
<ul> <li>2017;19: 33.</li> <li>Cil AP, Leventoglu A, Sonmezer M, Soylukoc R, Oktay K. Assessment of ovarian reserve and Doppler characteristics in patients with multiple sclerosis using immunomodulating drugs. J Turk Ger Gynecol Assoc 2009;10: 213-219.</li> <li>Cil AP, Turkgeldi L, Seli E. Oocyte Cryopreservation as a Preventive Measure for Age-Related Fertility Loss. Semin Reprod Med 2015;33: 429-435.</li> <li>Clark CA, Laskin CA. Ovarian reserve in antiphospholipid syndrome: the jury is still out. Lupus 2015;24: 773.</li> <li>de la Noval BD. Potential implications on female fertility and reproductive lifespan in BRCA germline mutation women. Arch Gynecol Obstet 2016;294: 1099-1103.</li> <li>Decanter C, Morschhauser F, Pigny P, Lefebvre C, Gallo C, Dewailly D. Anti-Mullerian hormone follow-up in young women treated by chemotherapy for lymphoma: preliminary results. Reprod Biomed Online 2010;20: 280-285.</li> <li>Di Paola R, Costantini C, Tecchio C, Salvagno GL, Montemezzi R, Perandini A, Pizzolo G, Zaffagnini S, Franchi M. Anti-Mullerian hormone and antral follicle count reveal a late impairment of ovarian reserve in patients undergoing low-gonadotoxic regimens for hematological malignancies. Oncologist 2013;18: 1307-1314.</li> </ul>	Not relevant for the key question No relevant outcomes included No relevant testing nor outcomes Letter to the editor effect of "diseases" on ovarian reserve Included in review Dewaili included for question on gonadotoxicity
<ul> <li>2017;19: 33.</li> <li>Cil AP, Leventoglu A, Sonmezer M, Soylukoc R, Oktay K. Assessment of ovarian reserve and Doppler characteristics in patients with multiple sclerosis using immunomodulating drugs. J Turk Ger Gynecol Assoc 2009;10: 213-219.</li> <li>Cil AP, Turkgeldi L, Seli E. Oocyte Cryopreservation as a Preventive Measure for Age-Related Fertility Loss. Semin Reprod Med 2015;33: 429-435.</li> <li>Clark CA, Laskin CA. Ovarian reserve in antiphospholipid syndrome: the jury is still out. Lupus 2015;24: 773.</li> <li>de la Noval BD. Potential implications on female fertility and reproductive lifespan in BRCA germline mutation women. Arch Gynecol Obstet 2016;294: 1099-1103.</li> <li>Decanter C, Morschhauser F, Pigny P, Lefebvre C, Gallo C, Dewailly D. Anti-Mullerian hormone follow-up in young women treated by chemotherapy for lymphoma: preliminary results. Reprod Biomed Online 2010;20: 280-285.</li> <li>Di Paola R, Costantini C, Tecchio C, Salvagno GL, Montemezzi R, Perandini A, Pizzolo G, Zaffagnini S, Franchi M. Anti-Mullerian hormone and antral follicle count reveal a late impairment of ovarian reserve in patients undergoing low-gonadotoxic regimens for hematological malignancies. Oncologist 2013;18: 1307-1314.</li> <li>El Issaoui M, Giorgione V, Mamsen LS, Rechnitzer C, Birkebaek N, Clausen N, Kelsey TW, Andersen CY. Effect of first line cancer treatment on the ovarian reserve and follicular density in girls under the age of 18 years. Fertil Steril 2016;106: 1757-1762.e1751.</li> </ul>	No relevant for the key question No relevant outcomes included No relevant testing nor outcomes Letter to the editor effect of 'diseases' on ovarian reserve Included in review Dewaili included for question on gonadotoxicity Retrospective data, Low number patients
<ul> <li>2017;19: 33.</li> <li>Cil AP, Leventoglu A, Sonmezer M, Soylukoc R, Oktay K. Assessment of ovarian reserve and Doppler characteristics in patients with multiple sclerosis using immunomodulating drugs. J Turk Ger Gynecol Assoc 2009;10: 213-219.</li> <li>Cil AP, Turkgeldi L, Seli E. Oocyte Cryopreservation as a Preventive Measure for Age-Related Fertility Loss. Semin Reprod Med 2015;33: 429-435.</li> <li>Clark CA, Laskin CA. Ovarian reserve in antiphospholipid syndrome: the jury is still out. Lupus 2015;24: 773.</li> <li>de la Noval BD. Potential implications on female fertility and reproductive lifespan in BRCA germline mutation women. Arch Gynecol Obstet 2016;294: 1099-1103.</li> <li>Decanter C, Morschhauser F, Pigny P, Lefebvre C, Gallo C, Dewailly D. Anti-Mullerian hormone follow-up in young women treated by chemotherapy for lymphoma: preliminary results. Reprod Biomed Online 2010;20: 280-285.</li> <li>Di Paola R, Costantini C, Tecchio C, Salvagno GL, Montemezzi R, Perandini A, Pizzolo G, Zaffagnini S, Franchi M. Anti-Mullerian hormone and antral follicle count reveal a late impairment of ovarian reserve in patients undergoing low-gonadotoxic regimens for hematological malignancies. Oncologist 2013;18: 1307-1314.</li> <li>El Issaoui M, Giorgione V, Mamsen LS, Rechnitzer C, Birkebaek N, Clausen N, Kelsey TW, Andersen CY. Effect of first line cancer treatment on the ovarian reserve and follicular density in girls under the age of 18 years. Fertil Steril 2016;106: 1757-1762.e1751.</li> <li>Esinler I, Bozdag G, Arikan I, Demir B, Yarali H. Endometrioma </li> <li>2013:18: 1021;74: 201-264.</li> </ul>	Not relevant for the key question No relevant outcomes included No relevant testing nor outcomes Letter to the editor effect of 'diseases' on ovarian reserve Included in review Dewaili included for question on gonadotoxicity Retrospective data, Low number patients Included in review Somigliana 2015

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_	Flaisler F, Hedon B, Sany J, Combe B. A study of ovarian function in rheumatoid arthritis. Rev Rhum Engl Ed 1995;62: 549–554.	full text not available
	Freour T, Barriere P, Masson D. Anti-mullerian hormone levels and evolution in women of reproductive age with breast cancer treated with chemotherapy. Eur J Cancer 2017;74: 1-8.	review
	Fridovich-Keil JL, Gubbels CS, Spencer JB, Sanders RD, Land JA, Rubio-Gozalbo E. Ovarian function in girls and women with GALT-deficiency galactosemia. J Inherit Metab Dis 2011;34: 357-366.	Not relevant for the key question
	Fridovich-Keil JL, Sanders RD, Spencer JB, Epstein MP, Lustbader JW, Vardhana PA. Measures of ovarian function in galactosemia. Fertil Steril 2009;92: e30; author reply e31.	Not relevant for the key question
	Gao H, Ma J, Wang X, Lv T, Liu J, Ren Y, Li Y, Zhang Y. Preliminary study on the changes of ovarian reserve, menstruation, and lymphocyte subpopulation in systemic lupus erythematosus (SLE) patients of childbearing age. Lupus 2018;27: 445-453.	Not relevant for the key question
	Garrido N, Pellicer A, Remohi J, Simon C. Uterine and ovarian function in endometriosis. Semin Reprod Med 2003;21: 183-192.	Newer reviews available
	Gasparin AA, Souza L, Siebert M, Xavier RM, Chakr RM, Palominos PE, Brenol JC, Monticielo OA. Assessment of anti-Mullerian hormone levels in premenopausal patients with systemic lupus ervthematosus. Lupus 2016:25: 227-232.	Not relevant for the key question
	Ghaleb RM, Fahmy KA. Anti-Mullerian hormone: a marker for ovarian function in systemic lupus erythematosus patients treated with cyclophosphamide. Joint Bone Spine 2013;80: 434-435.	Letter to the editor
-	Gizzo S, Vitagliano A, Noventa M, Litta P, Saccardi C, Quaranta M. Surgery, endometriosis-related infertility and negative impact on ovarian reserve: "which came first, the hen or the egg?" An unresolved dilemma. Arch Gynecol Obstet 2015;202: 709-711	editorial letter
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	Gupta AA, Lee Chong A, Deveault C, Traubici J, Maloney AM, Knight S, Lorenzo A, Allen L. Anti- Mullerian Hormone in Female Adolescent Cancer Patients Before, During, and After Completion of Therapy: A Pilot Feasibility Study. J Pediatr Adolesc Gynecol 2016;29: 599-603.	Not relevant for the key question
	Hipp H, Loucks TL, Nezhat C, Sidell N, Session DR. Anti-Mullerian Hormone in Peritoneal Fluid and Plasma From Women With and Without Endometriosis. Reprod Sci 2015;22: 1129-1133.	Not relevant for the key question
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	Jaillard S, Akloul L, Beaumont M, Hamdi-Roze H, Dubourg C, Odent S, Duros S, Dejucq-Rainsford N, Belaud-Rotureau MA, Ravel C. Array-CGH diagnosis in ovarian failure: identification of new molecular actors for ovarian physiology. J Ovarian Res 2016;9: 63.	No relevant testing nor outcomes
	Jones BP, Saso S, Mania A, Smith JR, Serhal P, Ben Nagi J. The dawn of a new ice age: social egg freezing. Acta Obstet Gynecol Scand 2018.	Not relevant intervention
-	Kim C, Karvonen-Gutierrez C, Kong S, Arends V, Steffes M, McConnell DS, Randolph JF, Jr., Harlow SD. Antimullerian hormone among women with and without type 1 diabetes: the Epidemiology of Diabetes Interventions and Complications Study and the Michigan Bone Health and Metabolism Study. Fertil Steril 2016;106: 1446-1452.	Included in review Wellons 2017
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	Lebkowska A, Adamska A, Karczewska-Kupczewska M, Nikolajuk A, Otziomek E, Milewski R, Gorska M, Wolczynski S, Kowalska I. Serum anti-Mullerian hormone concentration in women with polycystic ovary syndrome and type 1 diabetes mellitus. Metabolism 2016;65: 804-811.	Not relevant for the key question
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_	Levin I, Almog B. Effect of cancer on ovarian function in patients undergoing in vitro fertilization for fertility preservation: a reappraisal. Curr Oncol 2013;20: e1-3.	Not relevant for the key question
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_	Lin W, Titus S, Moy F, Ginsburg ES, Oktay K. Ovarian Aging in Women With BRCA Germline Mutations. J Clin Endocrinol Metab 2017;102: 3839-3847.	effect of "diseases" on ovarian reserve
	Lunsford AJ, Whelan K, McCormick K, McLaren JF. Antimullerian hormone as a measure of reproductive function in female childhood cancer survivors. Fertil Steril 2014;101: 227-231.	Not relevant for the key question
	Ma W, Zhan Z, Liang X, Chen J, Huang X, Liao C. Subclinical impairment of ovarian reserve in systemic lupus erythematosus patients with normal menstruation not using alkylating therapy. J Womens Health (Larchmt) 2013;22: 1023-1027.	Not relevant for the key question
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Man L, Lekovich J, Rosenwaks Z, Gerhardt J. Fragile X-Associated Diminished Ovarian Reserve and Primary Ovarian Insufficiency from Molecular Mechanisms to Clinical Manifestations. Front Mol Neurosci 2017;10: 290.	Not relevant for the key question
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Martins NFE, Seixas MI, Pereira JP, Costa MM, Fonseca JE. Anti-mullerian hormone and ovarian reserve in systemic lupus erythematosus. Clin Rheumatol 2017;36: 2853-2854.	Review from Oktem 2016 more complete
Meczekalski B, Czyzyk A, Kunicki M, Podfigurna-Stopa A, Plociennik L, Jakiel G, Maciejewska-Jeske M, Lukaszuk K. Fertility in women of late reproductive age: the role of serum anti-Mullerian hormone (AMH) levels in its assessment   Endocrinol Invest 2016/30 1250-1265	Not relevant group of patients
Mahamad A. Voors All James C. All Jacobist J. Dadeits (MA. America) (Jacobist 2016), J. Light 100, 1	Not volouget for the loss
salpingectomy: a systematic review and meta-analysis. Acta Obstet Gynecol Scand 2017;96: 795- 803.	question
Mok CC, Chan PT, To CH. Anti-mullerian hormone and ovarian reserve in systemic lupus erythematosus. Arthritis Rheum 2013;65: 206-210.	Included in review Oktem 2016
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Moria A, Das M, Shehata F, Holzer H, Son WY, Tulandi T. Ovarian reserve and oocyte maturity in women with malignancy undergoing in vitro maturation treatment. Fertil Steril 2011;95: 1621-1623.	Not relevant for the key question
Munster PN. Fertility preservation and breast cancer: A complex problem. Oncology (Williston Park) 2013;27: 533-539.	effect of "diseases" on ovarian
Oktav K Mov E Titus S Stobezki P. Turan V. Dickler M. Goswami S. Age-related decline in DNA	Editor letter
repair function explains diminished ovarian reserve, earlier menopause, and possible oocyte vulnerability to chemotherapy in women with BRCA mutations. J Clin Oncol 2014;32: 1093-1094.	
Oktem O, Guzel Y, Aksoy S, Aydin E, Urman B. Ovarian function and reproductive outcomes of female patients with systemic lupus erythematosus and the strategies to preserve their fertility. Obstet Gynecol Surv 2015;70: 196-210.	New review available
Oktem O, Oktay K. Quantitative assessment of the impact of chemotherapy on ovarian follicle reserve and stromal function. Cancer 2007;110: 2222-2229.	Not relevant for the key question
Oral E, Demir B, Inceboz U. Endometriosis and ovarian reserve. Womens Health (Lond) 2015;11: 671-675.	Not relevant for the key question
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	Editorial
Pasoto SG. Ovarian reserve in systemic lupus erythematosus patients with normal menstrual cycles and in the absence of exposure to alkylating agents. J Womens Health (Larchmt) 2013;22: 1003-1004.	Luitonat
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Spencer JB, Badik JR, Ryan EL, Gleason TJ, Broadaway KA, Epstein MP, Fridovich-Keil JL. Modifiers of ovarian function in girls and women with classic galactosemia. J Clin Endocrinol Metab 2013;98: E1257-1265.	Not relevant for the key question
Su HI. Measuring ovarian function in young cancer survivors. Minerva Endocrinol 2010;35: 259-270.	Newer revies available (Freour 2017)
Subrat P, Santa SA, Vandana J. The Concepts and Consequences of Early Ovarian Ageing: A Caveat to Women's Health. J Reprod Infertil 2013;14: 3-7.	Not much detail on studies
Takae S, Sugishita Y, Yoshioka N, Hoshina M, Horage Y, Sato Y, Nishijima C, Kawamura K, Suzuki N. The role of menstrual cycle phase and AMH levels in breast cancer patients whose ovarian tissue was cryopreserved for oncofertility treatment. J Assist Reprod Genet 2015;32: 305-312.	Retrospective, small number patients
Timberlake KS, Foley KL, Hurst BS, Matthews ML, Usadi RS, Marshburn PB. Association of blood type and patient characteristics with ovarian reserve. Fertil Steril 2013;100: 1735-1739.	No relevant patient group
Tomao F, Spinelli GP, Panici PB, Frati L, Tomao S. Ovarian function, reproduction and strategies for fertility preservation after breast cancer. Crit Rev Oncol Hematol 2010;76: 1-12.	Other new reviews ara available
Ulug P, Oner G, Kasap B, Akbas EM, Ozcicek F. Evaluation of ovarian reserve tests in women with systemic lupus erythematosus. Am J Reprod Immunol 2014;72: 85-88.	Not relevant for the key question
Vatanen A, Wilhelmsson M, Borgstrom B, Gustafsson B, Taskinen M, Saarinen-Pihkala UM, Winiarski J, Jahnukainen K. Ovarian function after allogeneic hematopoietic stem cell transplantation in childhood and adolescence. Eur J Endocrinol 2014;170: 211-218.	Retrospective, condition: Stem cell transplantation
Velarde-Ochoa Mdel C, Esquivel-Valerio JA, Vega-Morales D, Skinner-Taylor CM, Galarza-Delgado DA, Garza-Elizondo MA. Anti-Mullerian hormone in reproductive age women with systemic lupus erythematosus. Reumatol Clin 2015;11: 78-82.	low quality, local journal.no details on exact inclusion criteria, materials and methods.
Visser JA, Hokken-Koelega AC, Zandwijken GR, Limacher A, Ranke MB, Fluck CE. Anti-Mullerian hormone levels in girls and adolescents with Turner syndrome are related to karyotype, pubertal development and growth hormone treatment. Hum Reprod 2013;28: 1899-1907.	No relevant outcomes included
Wenners A, Grambach J, Koss J, Maass N, Jonat W, Schmutzler A, Mundhenke C. Reduced ovarian reserve in young early breast cancer patients: preliminary data from a prospective cohort trial. BMC Cancer 2017;17: 632.	Some subgroups had low number patients
Yamakami LY, Serafini PC, de Araujo DB, Bonfa E, Leon EP, Baracat EC, Silva CA. Clark CA, Laskin CA. Ovarian reserve in antiphospholipid syndrome: the jury is still out. Lupus 2015; 24: 773. Lupus 2015;24: 1007.	Letter to the editor
Zolton JR, Parikh TP, Hickstein DD, Holland SM, Hill MJ, DeCherney AH, Wolff EF. Oocyte cryopreservation for women with GATA2 deficiency. J Assist Reprod Genet 2018.	LOW - Retrospective, low numbers

## Q9 Which options are available for FP in females – emergency and non-emergency?

This question was answered as a narrative question. There was no literature search performed.

The information used to answer this question was derived from the papers selected for other questions in this guideline. In addition, the text was based on the expert opinion of the GDG members.

DATABASE	Search string
MERGE PUBMED	<ul> <li>('Neoplasms'IMesh] OR Cancer OR tumor OR neoplasm OR malignancy OR neoplasms OR "Systemic lupus erythematosus, OR "Lupus Erythematosus, Systemic'IMesh] OR "Behcet's disease" OR "Behcet Syndrome" IMesh] OR</li> <li>"Churg-Strauss syndrome" OR "Churg-Strauss Syndrome" IMesh] OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" OR "Glomerulonephritis" IMesh] OR "Granulomatosis with polyangiitis" OR</li> <li>"Wegener's granulomatosis" OR "Granulomatosis with Polyangiitis" IMesh] OR "Inflammatory bowel diseases" OR "Crohn Disease" OR "lucerative colitis" OR "Inflammatory Bowel Diseases'IMesh] OR "Autoimmune Diseases' IMesh] OR "Rheumatoid arthritis" OR "Pemphigus vulgaris" OR "Pemphigus'IMesh] OR "Autoimmune Diseases'IMesh] OR "Haematological diseases" OR "Hematologic Diseases'IMesh] OR "Autoimmune Diseases'IMesh] OR "Haamatological diseases" OR "Hematologic Diseases'IMesh] OR "Anemia'IMesh] OR "sickle cell anaemia" OR "Haamatological diseases" OR "Hematologic Diseases'IMesh] OR "Anemia'IMesh] OR "Syndrome'IMesh] OR "Fragile X Mental Retardation 1" OR "Fragile X Syndrome'IMesh] OR Galactosaemia OR 'Galactosemias'IMesh] OR "Beta-thalassemia" OR "beta-Thalassemia" IMesh] OR "anticipated gamete exhaustion" OR "age-related fertility decline" OR "social freezing" OR "nonmedical freezing" OR "social egg-freezing" OR "Elective freezing" OR "Fertility Preservation" OR "Gocyte tryopreservation" OR "egg virification" OR "Egg cryopreservation" OR "Egg freezing" OR "Cryopreservation") AND (oocyte cryopreservation" OR "egg virification" OR</li> </ul>
MERGE COCHRANE	(Cancer OR tumor OR neoplasm OR malignancy OR neoplasms OR "Systemic lupus erythematosus" OR "Behcet's disease" OR "Behcet Syndrome" OR "Churg-Strauss syndrome" OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" OR "Granulomatosis with polyangiitis" OR "Wegener's granulomatosis" OR "Inflammatory bowel diseases" OR "Crohn Disease" OR "lucerative colitis" OR "Rheumatoid arthritis" OR "Pemphigus vulgaris" OR "Pemphigus" OR "Autoimmune Diseases" OR "Altered hypothalamic-pituitary-gonada axis" OR "ovarian oophoritis" OR "Ophoritis" OR "Benign ovarian tumours" OR "Altered hypothalamic-pituitary-gonada axis" OR "Ovarian oophoritis" OR "Endometriosis" OR "Transgender Persons" OR Galactosaemia OR "Galactosemias" OR "Beta-thalassaemia" OR "Endometriosis" OR "Transgender Persons" OR Transgender OR Transsexual OR "anticipated gamete exhaustion" OR "age-related fertility Perservation") AND ('Oocyte cryopreservation" OR "Ocyte freezing" OR "Egg cryopreservation" OR "Egg freezing" OR "Systemic OR "Ocyte vitrification" OR "egg vitrification")



Reference	Exclusion criterium
Abdallah Y, Briggs J, Jones J, Horne G, Fitzgerald C. A nationwide UK survey of female fertility preservation prior to cancer treatment. Human fertility (Cambridge, England) 2018;21: 27-34.	INCONSISTENCY IN REPORT OF ACTIVITIES
Abir R, Fisch B, Nahum R, Orvieto R, Nitke S, Ben Rafael Z. Turner's syndrome and fertility: current status and possible putative prospects. Human reproduction update 2001;7: 603-610.	REVIEW
Albani E, Barbieri J, Novara PV, Smeraldi A, Scaravelli G, Levi Setti PE. Oocyte cryopreservation. Placenta 2008;29 Suppl B: 143-146.	LARGE NUMBER OF CASES BUT SLOW FREEZING
Albertini DF, Olsen R. Effects of fertility preservation on oocyte genomic integrity. Advances in experimental medicine and biology 2013;761: 19-27.	TECHNICAL REVIEW
Anderson RA, Wallace WH. Fertility preservation in girls and young women. Clinical endocrinology 2011;75: 409-419.	EXPERT OPINION
Argyle CE, Harper JC, Davies MC. Oocyte cryopreservation: where are we now? Human reproduction update 2016;22: 440-449.	REVIEW UPDATE 2015
Bagchi A, Woods EJ, Critser JK. Cryopreservation and vitrification: recent advances in fertility preservation technologies. Expert review of medical devices 2008;5: 359-370.	REVIEW
Balduzzi A, Dalle JH, Jahnukainen K, von Wolff M, Lucchini G, Ifversen M, Macklon KT, Poirot C, Diesch T, Jarisch A et al. Fertility preservation issues in pediatric hematopoietic stem cell	EXPERT OPINION
of the EBMT and the International BFM Study Group. Bone marrow transplantation 2017;52: 1406- 1415.	
Balkenende, E.M., et al., Reproductive outcomes after oocyte banking for fertility preservation. Reprod Biomed Online, 2018. 37(4): p. 425-433.	use of oocytes - not discussed in the guideline
Batuhan O, Safaa AH. Techniques for ovarian tissue, whole ovary, oocyte and embryo cryopreservation. Journal of reproduction & infertility 2010;11: 3-15.	REVIEW
Baylis F. Left out in the cold: arguments against non-medical oocyte cryopreservation. Journal of obstetrics and gynaecology Canada : JOGC - Journal d'obstetrique et gynecologie du Canada : JOGC 2015;37: 64-67.	DEBATE - FTNF
Ben-Aharon I, Abir R, Perl G, Stein J, Gilad G, Toledano H, Elitzur S, Avrahami G, Ben-Haroush A, Oron G et al. Optimizing the process of fertility preservation in pediatric female cancer patients - a multidisciplinary program. BMC cancer 2016;16: 620.	Feasibility described but no precise outcomes for efficacy or safety
Benard J, Duros S, El Hachem H, Sonigo C, Sifer C, Grynberg M. Freezing oocytes or embryos after controlled ovarian hyperstimulation in cancer patients: the state of the art. Future oncology (London, England) 2016;12: 1731-1741.	FTNF
Ben-Haroush, A., et al., Effect of letrozole added to gonadotropins in controlled ovarian stimulation protocols on the yield and maturity of retrieved oocytes. Gynecol Endocrinol, 2019. 35(4): p. 324-327	ovarian stimulation
Boldt J. Current results with slow freezing and vitrification of the human oocyte. Reproductive biomedicine online 2011;23: 314-322.	REVIEW
Borini A, Coticchio G. The efficacy and safety of human oocyte cryopreservation by slow cooling. Seminars in reproductive medicine 2009;27: 443-449.	REVIEW
Borini, A. and G. Coticchio, Oocyte quantity and quality are crucial for a perspective of fertility preservation in women with Turner syndrome. Fertil Steril, 2019, 111(3): p. 461-462.	specific population, not relevant for the question
Campagne DM. Delayed childbearing: determining responsibilities for prime gamete quality. The Journal of reproductive medicine 2013;58: 531-537.	ETHICS REVIEW - FTNF
Campos, A.P.C., et al., Ovarian response after random-start controlled ovarian stimulation to cryopreserve oocytes in cancer patients. JBRA Assist Reprod, 2018. 22(4): p. 352-354.	included for the question on ovarian stimulation
Caserta D, Ralli E, Matteucci E, Marci R, Moscarini M. Fertility preservation in female cancer patients: an emerging challenge for physicians. Panminerva medica 2014;56: 85-95.	FTNF
Cavagna, F., et al., Specific protocols of controlled ovarian stimulation for oocyte cryopreservation in breast cancer patients. Curr Oncol, 2018. 25(6): p. e527-e532.	included for the question on ovarian stimulation
Chang CC, Elliott TA, Wright G, Shapiro DB, Toledo AA, Nagy ZP. Prospective controlled study to evaluate laboratory and clinical outcomes of oocyte vitrification obtained in in vitro fertilization patients aged 30 to 30 years. Fertility and sterility 2013;00: 1801-1807	STUDY OF INFERTILE WOMEN UNDEROGING IVF
Chang HJ, Suh CS. Fertility preservation for women with malignancies: current developments of cryopreservation. Journal of gynecologic oncology 2008;19: 99-107.	REVIEW
Chen SU, Lien YR, Chen HF, Chang LJ, Tsai YY, Yang YS. Observational clinical follow-up of oocyte cryopreservation using a slow-freezing method with 1,2-propanediol plus sucrose followed by ICSI. Human reproduction (Oxford, England) 2005;20: 1975-1980.	SLOW FREEZING
Chen SU, Yang YS. Slow freezing or vitrification of oocytes: their effects on survival and meiotic spindles, and the time schedule for clinical practice. Taiwanese journal of obstetrics & gynecology 2000:48:15-22.	REVIEW
Chen, D., et al., Oocyte cryopreservation among transmasculine youth: a case series. J Assist Reprod Genet, 2018. 35(11): p. 2057-2061.	Transgender not specifically addressed
Chian RC, Wang Y, Li YR. Oocyte vitrification: advances, progress and future goals. Journal of assisted reproduction and genetics 2014;31: 411-420.	TECHNICAL REVIEW
Childress KJ, Patil NM, Muscal JA, Dietrich JE, Venkatramani R. Borderline Ovarian Tumor in the Pediatric and Adolescent Population: A Case Series and Literature Review. Journal of pediatric and adolescent gymescharge 2018/21: 48-54	FP BY CONSERVATIVE SURGERY ONLY
Choi JK, El Assal R, Ng N, Ginsburg E, Maas RL, Anchan RM, Demirci U. Bio-inspired solute enables preservation of human oocytes using minimum volume vitrification. Journal of tissue engineering and responsible medicine 2017.	TECHNICAL
Choi JK, Yue T, Huang H, Zhao G, Zhang M, He X. The crucial role of zona pellucida in	TECHNICAL
cryopreservation of oocytes by vitrification. Cryobiology 2015;71: 350-355.	

Cil AP, Bang H, Oktay K. Age-specific probability of live birth with oocyte cryopreservation: an	EFFICACY REPORTED 2013
individual patient data meta-analysis. Fertility and sterility 2013;100: 492-499.e493.	METAANALYSIS
Cil AP, Turkgeldi L, Seli E. Oocyte Cryopreservation as a Preventive Measure for Age-Related	REVIEW
Fertility Loss. Seminars in reproductive medicine 2015;33: 429-435.	
Cobo A, Bellver J, Domingo J, Perez S, Crespo J, Pellicer A, Remoni J. New options in assisted	
online 2008/17/ 68-72	SERIES FROM THE SAME
	GROUP
Cobo A, Domingo J, Perez S, Crespo J, Remohi J, Pellicer A. Vitrification: an effective new approach	LARGE NUMBERS BUT
to oocyte banking and preserving fertility in cancer patients. Clinical & translational oncology :	UNSURE IF THESE ARE ALSO
official publication of the Federation of Spanish Oncology Societies and of the National Cancer	REPORTED IN LARGER SERIES
Institute of Mexico 2008;10: 268-273.	FROM THE SAME GROUP
Cobo A, Garcia-Velasco JA, Coello A, Domingo J, Pellicer A, Remohi J. Oocyte vitrification as an	NO CANCER, ELECTIVE
Cooling A Relificer A Cobo A Vitrification of human accutes Minorya ginecologica 2018	
da Motta El Bonavita M Alegretti IB Chehin M Serafini P Live hirth after 6 years of occute	
vitrification in a survivor with breast cancer. Journal of assisted reproduction and genetics 2014;31:	
1397-1400.	
de Groot, S., et al., Effects of controlled ovarian stimulation on toxicity of TAC chemotherapy in	ovarian stimulation
early breast cancer patients. Cancer Manag Res, 2018. 10: p. 3931-3935.	
De Santis L, Coticchio G. Theoretical and experimental basis of slow freezing. Reproductive biomodicino online 2011/23: 125-123	I ECHNICAL REVIEW
Deprinder F. Aganyal A. Technical and ethical challenges of fertility preservation in young cancer	PE\/IE\X/
patients. Reproductive biomedicine online 2008;16: 784-791.	
Devine K, Mumford SL, Goldman KN, Hodes-Wertz B, Druckenmiller S, Propst AM, Noyes N. Baby	COST ANALYSIS
budgeting: oocyte cryopreservation in women delaying reproduction can reduce cost per live	
birth. Fertility and sterility 2015;103: 1446-1453.e1441-1442.	
Diaz-Garcia C, Domingo J, Garcia-Velasco JA, Herraiz S, Mirabet V, Iniesta I, Cobo A, Remohi J,	efficacy of oocyte vs
vomen undergoing gonadotoxic treatments: a prospective cohort study. Fertility and sterility 2018	ovariantissue in FP
Domingo I Garcia-Velasco IA Oocyte cryopreservation for fertility preservation in women with	EXPERT OPINION
cancer. Current opinion in endocrinology, diabetes, and obesity 2016;23: 465-469.	
Dondorp W, de Wert G, Pennings G, Shenfield F, Devroey P, Tarlatzis B, Barri P, Diedrich K. Oocyte	included for the section on
cryopreservation for age-related fertility loss. Human reproduction (Oxford, England) 2012;27: 1231-	elective cryopreservation
1237. Devey C. Open to an intercommittee and improve and drawbacks. Minor is discool aging 2012;6.11.495	
500	NOT RELEVANT
Dovle JO, Richter KS, Lim J, Stillman RJ, Graham JR, Tucker MJ, Successful elective and medically	ANALYSIS OF EFFICACY
indicated oocyte vitrification and warming for autologous in vitro fertilization, with predicted birth	
probabilities for fertility preservation according to number of cryopreserved oocytes and age at	
retrieval. Fertility and sterility 2016;105: 459-466.e452.	
Edgar DH, GOOK DA. How should the clinical efficiency of oocyte cryopreservation be measured? Reproductive biomedicine online 2007:14: 420-425	REVIEW
El-Shawarby SA. Sharif F. Conway G. Serhal P. Davies M. Oocyte cryopreservation after controlled	CASE REPORT
ovarian hyperstimulation in mosaic Turner syndrome: another fertility preservation option in a	
dedicated UK clinic. BJOG : an international journal of obstetrics and gynaecology 2010;117: 234-	
Ezcurra D, Rangnow J, Craig M, Schertz J. The Human Oocyte Preservation Experience (HOPE) a	REVIEW
biology and endocrinology RB&F 20007 53	
Filippi F. Meazza C. Paffoni A. Raspagliesi F. Terenziani M. Somigliana E. Egg Freezing in Childhood	CASE REPORT CHILD
and Young Adult Cancer Survivors. Pediatrics 2016;138.	
Filippi, F., et al., Fertility preservation in women with malignancies: the accuracy of antral follicle	ovarian reserve testing
count collected randomly during the menstrual cycle in predicting the number of oocytes	
Findeldee S. Lotz L. Heucinger K. Hoffmann I. Dittrich D. Bockmann MW. Twenty-five-year-old	
Woman with Bilateral Borderline Ovarian Tumour Desiring to Preserve Fertility - Case Report and	CASE REPORT
Literature Review on the Current State of Fertility Preservation in Women with Borderline Ovarian	
Tumours. Geburtshilfe und Frauenheilkunde 2016;76: 1189-1193.	
Forman EJ, Anders CK, Behera MA. Pilot survey of oncologists regarding treatment-related	SURVEY OF ONCOLOGISTS
infertuity and fertuity preservation in female cancer patients. The Journal of reproductive medicine	
Forman EJ, Li X, Ferry KM, Scott K, Treff NR, Scott RT, Jr. Oocvte vitrification does not increase the	EXPERIMENTAL EFFECT OF
risk of embryonic aneuploidy or diminish the implantation potential of blastocysts created after	CRYOPRESERVATION -
intracytoplasmic sperm injection: a novel, paired randomized controlled trial using DNA	GENETIC TESTING
fingerprinting. Fertility and sterility 2012;98: 644-649.	
Garcia-Velasco JA, Domingo J, Cobo A, Martinez M, Carmona L, Pellicer A. Five years' experience	DUPLICATED data, MARTINEZ
sterility 2013;90: 1994-1999.	2014
Gleicher N, Kushnir VA, Weghofer A, Barad DH. How the FMR1 gene became relevant to female	OUT OF THE FIELD
fertility and reproductive medicine. Frontiers in genetics 2014;5: 284.	
Glujovsky D, Riestra B, Sueldo C, Fiszbajn G, Repping S, Nodar F, Papier S, Ciapponi A. Vitrification	COMPARISON BETWEN
versus slow treezing for women undergoing oocyte cryopreservation. The Cochrane database of	METHODS
Systematic reviews 2014; C001004/. Goldman KN, Grifo, JA, Elective opcyte chronicservation for deferred childbearing. Current opinion	REVIEW
in endocrinology, diabetes, and obesity 2016;23; 458-464.	

Goldman KN, Noyes NL, Knopman JM, McCaffrey C, Grifo JA. Oocyte efficiency: does live birth rate differ when analyzing cryopreserved and fresh oocytes on a per-oocyte basis? Fertility and sterility 2013:100: 712-717.	EFFICACY REPPORTED 2013
Goldman RH, Racowsky C, Farland LV, Munne S, Ribustello L, Fox JH. Predicting the likelihood of live birth for elective oocyte cryopreservation: a counseling tool for physicians and patients. Human reproduction (Oxford, England) 2017;32: 853-859.	MATHEMATICS MODEL FOR EFFICACY
Goldrat, O., et al., Letrozole-associated controlled ovarian hyperstimulation in breast cancer patients versus conventional controlled ovarian hyperstimulation in infertile patients: assessment of oocyte guality related biomarkers. Reprod Biol Endocrinol, 2019, 17(1); p. 3.	biomarkers, not relevant
Gosden R. Cryopreservation: a cold look at technology for fertility preservation. Fertility and sterility 2011;96: 264-268.	REVIEW
Gosden RG. Prospects for oocyte banking and in vitro maturation. Journal of the National Cancer Institute Monographs 2005: 60-63.	NOT RELEVANT
Grifo JA, Noyes N. Delivery rate using cryopreserved oocytes is comparable to conventional in vitro fertilization using fresh oocytes: potential fertility preservation for female cancer patients. Fertility and sterility 2010;93: 391-396.	22 WOMEN NO FP
Grynberg M, Bidet M, Benard J, Poulain M, Sonigo C, Cedrin-Durnerin I, Polak M. Fertility preservation in Turner syndrome. Fertility and sterility 2016;105: 13-19.	REVIEW
Grynberg M, Raad J, Comtet M, Vinolas C, Cedrin-Durnerin I, Sonigo C. Fertility preservation in BRCA-mutated women: when and how? Future oncology (London, England) 2018;14: 483-490.	REVIEW
Gunnala V, Schattman G. Oocyte vitrification for elective fertility preservation: the past, present, and future. Current opinion in obstetrics & gynecology 2017;29: 59-63.	REVIEW - NOT COHORT STUDY
Hammarberg K, Kirkman M, Pritchard N, Hickey M, Peate M, McBain J, Agresta F, Bayly C, Fisher J. Reproductive experiences of women who cryopreserved oocytes for non-medical reasons. Human reproduction (Oxford, England) 2017;32: 575-581.	SOCIAL FREEZING WITH DATA ON RESULTS AND LIVE BIRTHS (FEW)
Hashimoto T, Nakamura Y, Obata R, Doshida M, Toya M, Takeuchi T, Kyono K. Effects of fertility preservation in patients with breast cancer: A retrospective two-centers study. Reproductive medicine and biology 2017;16: 374-379.	MIXED population pre and postcancer. Additionally the authors describe 3 patients who developed cancer during fertility treatment, no further details. Those were excluded from the study
Henes M, Henes JC, Neunhoeffer E, Von Wolff M, Schmalzing M, Kotter I, Lawrenz B. Fertility preservation methods in young women with systemic lupus erythematosus prior to cytotoxic therapy: experiences from the FertiPROTEKT network. Lupus 2012;21: 953–958.	REVIEW
Herrero L, Martinez M, Garcia-Velasco JA. Current status of human oocyte and embryo cryopreservation. Current opinion in obstetrics & gynecology 2011;23: 245-250.	REVIEW
Ho JR, Woo I, Louie K, Salem W, Jabara SI, Bendikson KA, Paulson RJ, Chung K. A comparison of live birth rates and perinatal outcomes between cryopreserved oocytes and cryopreserved embryos. Journal of assisted reproduction and genetics 2017;34: 1350–1366.	Efficacy of oocytes vs embryos
Hodes-Wertz B, Druckenmiller S, Smith M, Noyes N. What do reproductive-age women who undergo oocyte cryopreservation think about the process as a means to preserve fertility? Fertility and sterility 2013;100: 1343-1349.	PATIENT'S PERSPECTIVE
Ikemoto LC. Egg freezing, stratified reproduction and the logic of not. Journal of law and the biosciences 2015;2: 112-117.	COSTS REGULATIONS LAW ASPECTS
Kato K. Vitrification of embryos and oocytes for fertility preservation in cancer patients. Reproductive medicine and biology 2016;15: 227-233.	12 case reports summarized, obstetric results reported and no safety issues recognized
Kim SS, Donnez J, Barri P, Pellicer A, Patrizio P, Rosenwaks Z, Nagy P, Falcone T, Andersen C, Hovatta O et al. Recommendations for fertility preservation in patients with lymphoma, leukemia, and breast cancer. Journal of assisted reproduction and genetics 2012;29: 465-468.	EXPERT OPINION
Kucuk M. Fertility preservation for women with malignant diseases: ethical aspects and risks. Gynecological endocrinology : the official journal of the International Society of Gynecological Endocrinology 2012;28: 937-940.	EXPERT OPINION
Kyweluk, M.A., J. Reinecke, and D. Chen, Fertility Preservation Legislation in the United States: Potential Implications for Transgender Individuals. LGBT Health, 2019. 6(7): p. 331-334.	legislative aspects
La Marca, A. and M. Capuzzo, Use of progestins to inhibit spontaneous ovulation during ovarian stimulation: the beginning of a new era? Reprod Biomed Online, 2019. 39(2): p. 321-331.	not fertility preservation
Lambertini M, Del Mastro L, Pescio MC, Andersen CY, Azim HA, Jr., Peccatori FA, Costa M, Revelli A, Salvagno F, Gennari A et al. Cancer and fertility preservation: international recommendations from an expert meeting. BMC medicine 2016;14: 1.	EXPERT OPINION
Lantsberg, D., et al., The Role of Fertility Preservation in Women with Endometriosis: A Systematic Review. J Minim Invasive Gynecol, 2019.	specific population, not relevant for the question
Lau NM, Huang JY, MacDonald S, Elizur S, Gidoni Y, Holzer H, Chian RC, Tulandi T, Tan SL. Feasibility of fertility preservation in young females with Turner syndrome. Reproductive biomedicine online 2009;18: 290-295.	CASE REPORT
Lavery S, Tsiligiannis S, Carby A. Reproductive options for female cancer patients: balancing hope and realistic expectation. Current opinion in oncology 2014;26: 501-507.	EXPERT OPINION
Lavery SA, Islam R, Hunt J, Carby A, Anderson RA. The medical and ethical challenges of fertility preservation in teenage girls: a case series of sickle cell anaemia patients prior to bone marrow transplant. Human reproduction (Oxford, England) 2016;31: 1501-1507.	case series young patients 14- 18 years using vitrification
Lawrenz B, Jauckus J, Kupka MS, Strowitzki T, von Wolff M. Fertility preservation in >1,000 patients: patient's characteristics, spectrum, efficacy and risks of applied preservation techniques. Archives of gynecology and obstetrics 2011;283: 651-656.	Feasibility described, 23% of patients elected oocyte cryo. No reports of efficacy or safety
Lee JA, Barritt J, Moschini RM, Slifkin RE, Copperman AB. Optimizing human oocyte cryopreservation for fertility preservation patients: should we mature then freeze or freeze then mature? Fertility and sterility 2013;90: 1356-1362.	EXPERIMENTAL STUDY ON

Lee S, Ozkavukcu S, Heytens E, Moy F, Oktay K. Value of early referral to fertility preservation in young women with breast cancer. Journal of clinical oncology : official journal of the American Society of Clinical Oncology 2010;28: 4683-4686.	EXPERT OPINION
Letourneau, J.M., et al., Fertility preservation before breast cancer treatment appears unlikely to affect disease-free survival at a median follow-up of 43 months after fertility-preservation consultation. Cancer, 2019	not relevant for the key question
Lew, R., et al., ANZSREI consensus statement on elective oocyte cryopreservation. Aust N Z J Obstet Gynaecol. 2019, 59(5): p. 616-626.	Publication type
Liang T, Motan T. Mature Oocyte Cryopreservation for Fertility Preservation. Advances in experimental medicine and biology 2016;951:155-161.	REVIEW
Lyttle Schumacher B. Grover N. Mesen T. Steiner A. Mersereau J. Modeling of live-birth rates and	Cost benefit of udnergoing
cost-effectiveness of oocyte cryopreservation for cancer patients prior to high- and low-risk onadotoxic chemotherapy. Human reproduction (Oxford. England) 2017;32: 2049-2055.	oocyte cryopreservation for cancer vs not undergoing
Madrigrano A Westphal   Wapnir   Egg retrieval with chypresentation does not delay breast	all cases embryo cryo
cancer treatment. American journal of surgery 2007;194: 477-481. Mahajan N. Fertility preservation in female cancer patients: An overview, Journal of human	
reproductive sciences 2015;8:3-13.	
Manipalviratn S, Decherney A. Clinical application of human oocyte cryopreservation. Reviews on recent clinical trials 2008'3: 104-110.	FTNF
Martinez F. Update on fertility preservation from the Barcelona International Society for Fertility Preservation-ESHRE-ASRM 2015 expert meeting: indications, results and future perspectives. Fertility and sterility 2017:108: 407-415.e411.	REVIEW
Martinez M, Rabadan S, Domingo J, Cobo A, Pellicer A, Garcia-Velasco JA. Obstetric outcome after oocyte vitrification and warming for fertility preservation in women with cancer. Reproductive biomedicine online 2014;29: 722-728.	use of oocytes
McBride D. Frozen eggs offer future fertility hope for young girls undergoing cancer treatment. ONS connect 2007;22: 24.	FTNF
Mertes H, Pennings G. Social egg freezing: for better, not for worse. Reproductive biomedicine online 2011;23: 824-829.	WHAT INFORMATION SHOULD WOMEN RECEIVE
Mertes H. The portrayal of healthy women requesting oocyte cryo-preservation. Facts, views & vision in ObGyn 2013;5: 141-146.	NARRATIVE SOCIAL FREEZING
Mesen TB, Mersereau JE, Kane JB, Steiner AZ. Optimal timing for elective egg freezing. Fertility and sterility 2015;103: 1551-1556.e1551-1554.	AGE-RELATED EFFICACY
Milachich T, Shterev A. Are there optimal numbers of oocytes, spermatozoa and embryos in	THE STUDIES REFERED ARE
Assisted reproduction? JBRA assisted reproduction 2016;20: 142-149.	
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Moraes, C.C., et al., Oocyte cryopreservation for future fertility: comparison of ovarian response between cancer and non-cancer patients. JBRA Assist Reprod, 2019. 23(2): p. 91-98.	ovarian stimulation
Munoz, E., et al., Ovarian stimulation for oocyte vitrification does not modify disease-free survival and overall survival rates in patients with early breast cancer. Reprod Biomed Online, 2019. 39(5): p. 860-867.	ovarian stimulation
Nagashima T, Muroi K, Kawano-Yamamoto C, Miyoshi T, Ohmine K, Toshima M, Miyazato A,	small cae series, all women for
Takatoku M, Nagai T, Mori M et al. Autologous gamete cryopreservation before hemopoietic stem	oocyte vryo were referred to
cell transplantation. Medical science monitor : international medical journal of experimental and	another centre, data not
clinical research 2005;11: Cr91-94.	reported
Noyes N, Boldt J, Nagy ZP. Oocyte cryopreservation: is it time to remove its experimental label?	EXPERT OPINION
Journal of assisted reproduction and genetics 2010;27: 69-74. Noves N. Knonman, IM. Melzer K. Fino ME. Friedman B. Westnhal I.M. Oocyte chyonresenvation as	
a fertility preservation measure for cancer patients. Reproductive biomedicine online 2011;23: 323- 333.	
Noyes N, Labella PA, Grifo J, Knopman JM. Oocyte cryopreservation: a feasible fertility preservation	Description of results after
option for reproductive age cancer survivors. Journal of assisted reproduction and genetics	embryo transfer in the group
2010;27: 495-499.	that did not have cancer.
	Several double embryo
	transfers and twins
C'Donovan M, Harrison RF. Preservation of fertility in women affected by cancer. An audit of the cryopreservation services provided for women at Human Assisted Reproduction Ireland. Irish medical journal 2005;98: 265-267.	small case series- slow freezing
Oktay K, Bedoschi G. Oocyte cryopreservation for fertility preservation in postpubertal female	5 cases postpubertal girls
children at risk for premature ovarian failure due to accelerated follicle loss in Turner syndrome or cancer treatments. Journal of pediatric and adolescent gynecology 2014;27: 342-346.	
Oktay K, Cil AP, Bang H. Efficiency of oocyte cryopreservation: a meta-analysis. Fertility and sterility	METAANALYSIS EFFICACY
2006;86: 70-80.	BUT ONLY SLOW-FREEZING - NO VITRIFICATION
Oktay K, Kan MT, Rosenwaks Z. Recent progress in oocyte and ovarian tissue cryopreservation and	not relevant
transplantation. Current opinion in obstetrics & gynecology 2001;13; 263-268.	averant animian ACDM
Ovarian ussue and oocyte cryopreservation. Fertility and sterility 2008;90: 5241-246.	expert opinion ASRM
raramananunam J, Talmor AJ, Usianus T, Weston GC, Cryopreserved oocytes; update on cunical applications and success rates. Obstetrical & gynecological survey 2015;70: 07-114	REVIEW
Pecker, I. H., et al., Risks associated with fertility preservation for women with sickle cell anomia	specific population not
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Pereira, N., et al., Fertility preservation with random-start controlled ovarian stimulation and	case report
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	Perrin J, Saias-Magnan J, Broussais F, Bouabdallah R, D'Ercole C, Courbiere B. First French live- birth after oocyte vitrification performed before chemotherapy for fertility preservation. Journal of assisted reproduction and genetics 2016;33: 663-666.	CASE REPORT
	Petropanagos A, Cattapan A, Baylis F, Leader A. Social egg freezing: risk, benefits and other considerations. CMAJ : Canadian Medical Association journal - journal de l'Association medicale canadienne 2015;187; 666-660	RISKS/BENEFITS
	Porcu E, Bazzocchi A, Notarangelo L, Paradisi R, Landolfo C, Venturoli S. Human oocyte cryopreservation in infertility and oncology. Current opinion in endocrinology, diabetes, and obesity 200815: 520-535	not relevant
-	Porcu E, Fabbi R, Damiano G, Fratto R, Giunchi S, Venturoli S. Oocyte cryopreservation in oncological patients. European journal of obstetrics, gynecology, and reproductive biology 2004/13 Suppl 1: \$14-16	SMALL NUMBERS
-	Porcu E, Venturoli S. Progress with oocyte cryopreservation. Current opinion in obstetrics & gynecology 2006/18: 273-270	REVIEW
-	Raad J, Sonigo C, Tran C, Sifer C, Durnerin IC, Grynberg M. Oocyte vitrification for preserving fertility in patients with endometriosis: first observational cohort study and many unresolved questions. Letter to the Editor. European journal of obstetrics, gynecology, and reproductive biology 2018;220: 140-141.	endometriosis
	Revel A, Revel-Vilk S, Alzenman E, Porat-Katz A, Safran A, Ben-Meir A, Weintraub M, Shapira M, Achache H, Laufer N. At what age can human oocytes be obtained? Fertility and sterility 2009;92: 458-463.	oocytes aspirated from ovarian cortex and matured could be frozen by slow-freezing
	Rienzi L, Cobo A, Ubaldi FM. Chapter 10 Human Oocyte Vitrification. Methods in molecular biology (Clifton, N.I) 2017:1568: 131-139.	REVIEW
-	Rienzi L, Gracia C, Maggiulli R, LaBarbera AR, Kaser DJ, Ubaldi FM, Vanderpoel S, Racowsky C. Oocyte, embryo and blastocyst cryopreservation in ART: systematic review and meta-analysis comparing slow-freezing versus vitrification to produce evidence for the development of global guidance. Human reproduction update 2017;23: 139-155.	UPDATED METAANALYSIS
	Rienzi L, Romano S, Albricci L, Maggiulli R, Capalbo A, Baroni E, Colamaria S, Sapienza F, Ubaldi F. Embryo development of fresh 'versus' vitrified metaphase II oocytes after ICSI: a prospective randomized sibling-oocyte study. Human reproduction (Oxford, England) 2010;25; 66-73.	TECHNICAL OOCYTE CRYO
	Rienzi L, Ubaldi FM. Oocyte versus embryo cryopreservation for fertility preservation in cancer patients: guaranteeing a women's autonomy. Journal of assisted reproduction and genetics 2015;32: 1195-1196.	LETTER/COMMENT
	Rodriguez-Wallberg KA, Oktay K. Recent advances in oocyte and ovarian tissue cryopreservation and transplantation. Best practice & research Clinical obstetrics & gynaecology 2012;26: 391-405.	REVIEW
	Rodriguez-Wallberg KA. Clinical aspects and perinatal outcomes after cryopreservation of embryos and gametes. Minerva ginecologica 2015;67: 207-215.	REVIEW
	Ross L, Chung K, Macdonald H. Fertility preservation in the female cancer patient. Journal of surgical oncology 2014;110: 907-911.	EXPERT OPINION
	Salama M, Mallmann P. Emergency fertility preservation for female patients with cancer: clinical perspectives. Anticancer research 2015;35: 3117-3127.	NO OOCYTE CRYO
	Salama M, Winkler K, Murach KF, Seeber B, Ziehr SC, Wildt L. Female fertility loss and preservation: threats and opportunities. Annals of oncology : official journal of the European Society for Medical Oncology 2013;24: 598-608.	EXPERT OPINION
	Santo EVE, Dieamant F, Petersen CG, Mauri AL, Vagnini LD, Renzi A, Zamara C, Oliveira JBA, Baruffi RLR, Franco JG, Jr. Social oocyte cryopreservation: a portrayal of Brazilian women. JBRA assisted reproduction 2017;21: 101-104.	SURVEY
	Saumet J, Petropanagos A, Buzaglo K, McMahon E, Warraich G, Mahutte N. No. 356-Egg Freezing for Age-Related Fertility Decline. Journal of obstetrics and gynaecology Canada : JOGC - Journal d'obstetrique et gynecologie du Canada : JOGC 2018;40: 356-368.	GUIDELINES
	Schleedoorn, M.J., et al., To Freeze or Not to Freeze? An Update on Fertility Preservation In Females with Turner Syndrome. Pediatr Endocrinol Rev, 2019. 16(3): p. 369-382.	specific population, not relevant for the question
	Schmidt KT, Larsen EC, Andersen CY, Andersen AN. Risk of ovarian failure and fertility preserving methods in girls and adolescents with a malignant disease. BJOG : an international journal of obstetrics and gynaecology 2010;117: 163-174.	not relevant
	Schon SB, Shapiro M, Gracia C, Senapati S. Medical and elective fertility preservation: impact of removal of the experimental label from oocyte cryopreservation. Journal of assisted reproduction and genetics 2017;34: 1207-1215.	comparison medical indications vs social freezing
	Schoolcraft WB, Keller JL, Schlenker T. Excellent embryo quality obtained from vitrified oocytes. Reproductive biomedicine online 2009;19: 820-823.	NO FP
	Shamonki MI, Oktay K. Oocyte and ovarian tissue cryopreservation: indications, techniques, and applications. Seminars in reproductive medicine 2005;23: 266-276.	REVIEW
	Shkedi-Rafid S, Hashiloni-Dolev Y. Egg freezing for age-related fertility decline: preventive medicine or a further medicalization of reproduction? Analyzing the new Israeli policy. Fertility and sterility 2011:96: 291-294.	REVIEW
	Shufaro Y, Schenker JG. Cryopreservation of human genetic material. Annals of the New York Academy of Sciences 2010;1205; 220-224.	EXPERT OPINION
	Sighinolfi, G., S.K. Sunkara, and A. La Marca, New strategies of ovarian stimulation based on the concept of ovarian follicular waves: From conventional to random and double stimulation. Reprod Biomed Online, 2018, 37(4): p. 489-497.	not relevant for the key question
	Smith GD, Motta EE, Serafini P. Theoretical and experimental basis of oocyte vitrification. Reproductive biomedicine online 2011:23: 208-306.	FTNF, EXPERIMENTAL
	Smith GD, Silva ESCA. Developmental consequences of cryopreservation of mammalian oocytes and embryos. Reproductive biomedicine online 2004/g: 171-178.	TECHNICAL OOCYTE CRYO
-	Specchia, C., et al., Oocyte Cryopreservation in Oncological Patients: Eighteen Years Experience of	use of oocytes - not discussed
_	a renary vare Referrativenter. Front Endocrinot (Lausanne), 2019, 10; p. 000.	

Stachecki JJ, Cohen J. An overview of oocyte cryopreservation. Reproductive biomedicine online 2004;9: 152-163.	TECHNICAL OOCYTE CRYO
Stensvold E, Magelssen H, Oskam IC. Fertility-preserving measures for girls and young women with cancer. Tidsskrift for den Norske laegeforening : tidsskrift for praktisk medicin, ny raekke 2011;131: 1429-1432.	FTNF
Stevenson EL, Hurt MJ, Trotter KJ. Oocyte Cryopreservation for Fertility Preservation in Healthy Women. Nursing for women's health 2017;21: 384-393.	REVIEW
Stoop D. From fresh heterologous oocyte donation to autologous oocyte banking. Facts, views &	NO FP BUT COMPARISON FRESH VS CRYO
Talaulikar, V.S., et al., Outcome of ovarian stimulation for oocyte cryopreservation in women with Turner syndrome. Fertil Steril, 2019. 111(3): p. 505–509.	specific population, not relevant for the question
Tao T, Del Valle A. Human oocyte and ovarian tissue cryopreservation and its application. Journal of assisted reproduction and genetics 2008;25: 287-296.	REVIEW
Tao T, Zhang W, Del Valle A. Human oocyte cryopreservation. Current opinion in obstetrics & gynecology 2009;21: 247-252.	REVIEW
Taylan E, Oktay KH. Current state and controversies in fertility preservation in women with breast cancer. World journal of clinical oncology 2017;8: 241-248.	EXPERT OPINION
Terenziani M, Meazza C, Massimino M, Vigano P, Gandola L, Mangili G, Raspagliesi F, Biasoni D,	only 2 patients underwent
Podda M, Veneroni L et al. Female fertility preserving practices at a pediatric unit: a challenge of multiprofessional and multidisciplinary cooperation. Tumori 2016;102: 174-177.	oocyte cryo and the results are not discussed
Tucker M, Morton P, Liebermann J. Human oocyte cryopreservation: a valid alternative to embryo cryopreservation? European journal of obstetrics, gynecology, and reproductive biology 2004;113 Suppl 1: S24-27.	TECHNICAL OOCYTE CRYO
van Loendersloot LL, Moolenaar LM, Mol BW, Repping S, van der Veen F, Goddijn M. Expanding reproductive lifespan: a cost-effectiveness study on oocyte freezing. Human reproduction (Oxford, England) 2011;26: 3054-3060.	COST-EFFICACY
Vanni, V.S., et al., Safety of fertility treatments in women with systemic autoimmune diseases (SADs). Expert Opin Drug Saf, 2019. 18(9): p. 841-852.	not fertility preservation
Vergier, J., et al., Fertility preservation in Turner syndrome: Karyotype does not predict ovarian response to stimulation. Clin Endocrinol (Oxf), 2019. 91(5): p. 646-651.	specific population, not relevant for the question
von Wolff, M., et al., Fertility preservation: ovarian response to freeze oocytes is not affected by different malignant diseases-an analysis of 992 stimulations. J Assist Reprod Genet, 2018. 35(9): p	ovarian stimulation
Wallberg KA, Keros V, Hovatta O. Clinical aspects of fertility preservation in female patients. Pediatric blood & cancer 2009;53: 254-260.	REVIEW
Weber-Guskar E. Debating social egg freezing: arguments from phases of life. Medicine, health care, and philosophy 2017.	DEBATE
Wennberg, A.L., K. Schildauer, and M. Brannstrom, Elective oocyte freezing for nonmedical reasons: a 6-year report on utilization and in vitro fertilization results from a Swedish center. Acta Obstet Gynecol Scand, 2019, 98(11): p. 1429-1434.	use of oocytes - not discussed in the guideline
Werner M, Reh A, Labella PA, Noyes N. Laboratory evaluation in oocyte cryopreservation suggests retrieved oocytes are comparable whether frozen for medical indications, deferred reproduction or oocyte donation. Journal of assisted reproduction and genetics 2010;27: 613-617.	TECHNICAL
Wunder D. Social freezing in Switzerland and worldwidea blessing for women today? Swiss medical weekly 2013;143: w13746.	ETHICS REVIEW - FTNF
Yang D, Brown SE, Nguyen K, Reddy V, Brubaker C, Winslow KL. Live birth after the transfer of human embryos developed from cryopreserved oocytes harvested before cancer treatment. Fertility and sterility 2007;87: 1469.e1461-1464.	case report
Yap JK, Davies M. Fertility preservation in female cancer survivors. Journal of obstetrics and gynaecology : the journal of the Institute of Obstetrics and Gynaecology 2007;27: 390-400.	historical review at one center, no results of oocyte cryo described
Zhang J, Grifo JA, Del Priore G. Gestational carrier pregnancy with oocytes obtained during surgery for stage IIIc ovarian cancer after controlled ovarian stimulation. Fertility and sterility 2005;83: 1547-1549.	case report
Zhang L, Yan LY, Zhi X, Yan J, Qiao J. Female fertility: is it safe to "freeze?". Chinese medical journal 2015;128: 390-397.	OLDER REVIEW INCLUDED STUDIES UP TO 2013

DATABASE	Search string
pubmed	("Neoplasms"[Mesh] OR Cancer OR tumor OR neoplasm OR malignancy OR neoplasms) AND ("Embryo cryopreservation" OR "embryo freezing" OR "Embryo slow freezing" OR "Embryo vitrification" OR "Cryopreservation"[Mesh] OR "Cryopreservation" OR "frozen embryo transfer") AND embryo
pubmed	("Systemic lupus erythematosus" OR "Lupus Erythematosus, Systemic" [Mesh] OR "Behcet's disease" OR "Behcet Syndrome" [Mesh] OR "Churg-Strauss syndrome" OR "Churg-Strauss Syndrome" [Mesh] OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" OR "Glomerulonephritis" [Mesh] OR "Granulomatosis with polyangiitis" OR "Wegener's granulomatosis" OR "Granulomatosis with Polyangiitis" [Mesh] OR "Inflammatory bowel diseases" OR "Crohn Disease" OR "ulcerative colitis" OR "Inflammatory Bowel Diseases" [Mesh] OR "Arthritis, Rheumatoid" [Mesh] OR "Rheumatoid arthritis" OR "Pemphigus vulgaris" OR "Pemphigus" [Mesh] OR "Autoimmune Diseases" [Mesh] OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR "Autoimmune Diseases" [Mesh] OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR Autoimmune Diseases" [Mesh] OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR "Anemia" [Mesh] OR "Autoimmune Diseases" [Mesh] OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR "Anemia" [Mesh] OR "Sickle cell anaemia" OR "thalassaemia major" OR "Bastic anaemia" OR "Altered hypothalamic –pituitary–gonadal axis" OR "Ovarian oophoritis" Osophoritis" [Mesh] OR "Benign ovarian tumours" OR "Mosaic Turner's syndrome" OR "Turner Syndrome" [Mesh] OR "Eragile X Mental Retardation 1" OR "Fragile X Syndrome" [Mesh] OR Galactosemia OR "Galactosemias" [Mesh] OR "Beta-thalassaemia" OR "beta-Thalassemia" [Mesh] OR "Endometriosis" [Mesh] OR "Endometriosis" OR "Transgender Persons" [Mesh] OR "nonmedical freezing" OR "social egg-freezing" OR "Elective freezing" OR "Fertility Preservation" [Mesh] OR "Fertility Preservation" OR "cryopreservation" OR "embryo freezing" OR "Embryo slow freezing" OR "Embryo vitrification" OR "Cryopreservation" [Mesh] OR "Cryopreservation" OR "embryo "frozen embryo transfer")
COCHRANE	(Cancer OR tumor OR neoplasm OR malignancy OR neoplasms OR "Systemic lupus erythematosus" OR "Behcet's disease" OR "Behcet Syndrome" OR "Churg-Strauss syndrome" OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" OR "Granulomatosis with polyangiitis" OR "Wegener's granulomatosis" OR "Inflammatory bowel diseases" OR "Corbn Disease" OR "Haematological diseases" OR "Anemia" OR "sckle cell anaemia" OR "halassaemia major" OR "plastic anaemia" OR "Altered hypothalamic-pituitary-gonadal axis" OR "Ovarian oophoritis" OR "Gophoritis" OR "Fragile X Mental Retardation 1" OR "Fragile X Syndrome" OR Galactosaemia OR "Galactosemias" OR "Beta-thalassaemia" OR "Endometriosis" OR "Transgender Persons" OR Transgender OR Transsexual OR "anticipated gamete exhaustion" OR "age-related fertility Preservation" AND ("Embryo cryopreservation" OR "embryo freezing" OR "Embryo vitrification" OR "Forypreservation" OR "Embryo transfer")



Reference	Exclusion criterium
Arnon J, Meirow D, Lewis-Roness H, Ornoy A. Genetic and teratogenic effects of cancer treatments on gametes and embryos. Hum Reprod Update 2001;7: 394-403.	Review, not relevant
Ata B, Chian RC, Tan SL Cryopreservation of oocytes and embryos for fertility preservation for female cancer patients. Best Pract Res Clin Obstet Gynaecol 2010;24: 101-112.	Review, not relevant
Ayensu-Coker L, Essig E, Breech LL, Lindheim S. Ethical quandaries in gamete-embryo cryopreservation related to oncofertility. J Law Med Ethics 2013;41: 711-719.	Review, not relevant
Azem F, Amit A, Merimsky O, Lessing JB. Successful transfer of frozen-thawed embryos obtained after subtotal colectomy for colorectal cancer and before fluorouracil-based chemotherapy. Gynecol Oncol 2004/03: 262-265	Case report
Azim A, Oktay K. Letrozole for ovulation induction and fertility preservation by embryo	Focus on stimulation with
Banker M, Joshi B, Shah P, Patel D. Embryo cryopreservation in a case of acute promyelocytic leukemia, incidentally diagnosed during ovarian stimulation for in-vitro fertilization. J Hum Reprod Sci 2014;7: 224-226.	Case report
Baynosa J, Westphal LM, Madrigrano A, Wapnir I. Timing of breast cancer treatments with oocyte retrieval and embryo cryopreservation. J Am Coll Surg 2009;209: 603-607.	Focus on timing
Bedoschi G, Oktay K. Current approach to fertility preservation by embryo cryopreservation. Fertil Steril 2013;99; 1496-1502.	Review, not relevant
Benard J, Duros S, El Hachem H, Sonigo C, Sifer C, Grynberg M. Freezing oocytes or embryos after controlled ovarian hyperstimulation in cancer patients: the state of the art. Future Oncol 2016;12: 1731-1741.	Focus on controlled ovarian stimulation
Blumenfeld Z. How to preserve fertility in young women exposed to chemotherapy? The role of GnRH agonist cotreatment in addition to cryopreservation of embrya, oocytes, or ovaries. Oncologist 2007;12: 1044-1054.	Review, not relevant
Brown JR, Modell E, Obasaju M, King YK. Natural cycle in-vitro fertilization with embryo cryopreservation prior to chemotherapy for carcinoma of the breast. Hum Reprod 1996;11: 197-199.	Case report
Cimadomo D, Fabozzi G, Vaiarelli A, Ubaldi N, Ubaldi FM, Rienzi L. Impact of Maternal Age on Oocyte and Embryo Competence. Front Endocrinol (Lausanne) 2018;9: 327.	Review, not relevant
Cordeiro CN, Christianson MS, Selter JH, Segars JH, Jr. In Vitro Activation: A Possible New Frontier for Treatment of Primary Ovarian Insufficiency. Reprod Sci 2016:23: 429-438.	Out of scope
Danis RB, Pereira N, Elias RT. Random Start Ovarian Stimulation for Oocyte or Embryo Cryopreservation in Women Desiring Fertility Preservation Prior to Gonadotoxic Cancer Therapy. Curr Pharm Biotechnol 2017;18: 609-613.	Focus on random start stimulation
Gallot D, Pouly JL, Janny L, Mage G, Canis M, Wattiez A, Bruhat MA. Successful transfer of frozen- thawed embryos obtained immediately before radical surgery for stage IIIa serous borderline ovarian tumour: case report. Hum Reprod 2000;15; 2347-2350.	Case report surgical treatment
Grifo J, Adler A, Lee HL, Morin SJ, Smith M, Lu L, Hodes-Wertz B, McCaffrey C, Berkeley A, Munne S. Deliveries from trophectoderm biopsied, fresh and vitrified blastocysts derived from polar body biopsied, vitrified occvtes. Reprod Biomed Online 2015;31: 210-216.	Oocyte cryopreservation
Hammarberg K, Kirkman M, Stern C, McLachlan RI, Gook D, Rombauts L, Vollenhoven B, Fisher JRW. Cryopreservation of reproductive material before cancer treatment: a qualitative study of health care professionals' views about ways to enhance clinical care. BMC Health Serv Res 2017;17: 343.	Not relevant for the key question
Herrero L, Martinez M, Garcia-Velasco JA. Current status of human oocyte and embryo cryopreservation. Curr Opin Obstet Gynecol 2011;23; 245-250.	Review, not relevant
Ho JR, Woo I, Louie K, Salem W, Jabara SI, Bendikson KA, Paulson RJ, Chung K. A comparison of live birth rates and perinatal outcomes between cryopreserved oocytes and cryopreserved embryos. J Assist Reprod Genet 2017;34: 1359-1366.	Comparison study of embryo cryo vs oocyte cryo
Hodes-Wertz B, Noyes N, Mullin C, McCaffrey C, Grifo JA. Retrospective analysis of outcomes following transfer of previously cryopreserved oocytes, pronuclear zygotes and supernumerary blastocysts. Reprod Biomed Online 2011;23: 118-123.	Retrospective study
Juretzka MM, O'Hanlan KA, Katz SL, El-Danasouri I, Westphal LM. Embryo cryopreservation after diagnosis of stage IIB endometrial cancer and subsequent pregnancy in a gestational carrier. Fertil Steril 2005;83; 1041.	Case report
Kato K. Vitrification of embryos and oocytes for fertility preservation in cancer patients. Reprod Med Biol 2016;15: 227-233.	Reference to studies on oocyte cryopreservation
Ku LT, Elster N, Nakajima ST. Frozen embryos: a life-saving option. Fertil Steril 2008;90: 849.e815- 	Case report
Kuroda, K., et al., Combination Treatment of Preoperative Embryo Cryopreservation and Endoscopic Surgery (Surgery-ART Hybrid Therapy) in Infertile Women with Diminished Ovarian Reserve and Uterine Myomas or Ovarian Endometriomas. J Minim Invasive Gynecol, 2019. 26(7): p. 1369-1375.	Not relevant
Laskov I, Michaan N, Many A, Amit A, Azem F. Successful pregnancy following transfer of frozen- thawed embryos in a patient with pseudomyxoma peritonei who underwent peritonectomy and bilateral oophorectomy. J Gynecol Oncol 2012;23: 129-132.	Case report
Letourneau, J.M., et al., Fertility preservation before breast cancer treatment appears unlikely to affect disease-free survival at a median follow-up of 43 months after fertility-preservation consultation. Cancer, 2019.	Association disease free survival
Liebermann J. Chapter 11 Human Embryo Vitrification. Methods Mol Biol 2017;1568: 141-159.	Full text not available for assessment
Liebermann J. Vitrification: a simple and successful method for cryostorage of human blastocysts. Methods Mol Biol 2015;1257: 305-319.	Full text not available for assessment

Meniru GI, Craft I. In vitro fertilization and embryo cryopreservation prior to hysterectomy for cervical cancer. Int J Gynaecol Obstet 1997;56: 69-70.	Case report
Mohsenzadeh M, Khalili MA, Tabibnejad N, Yari N, Agha-Rahimi A, Karimi-Zarchi M. Embryo Cryopreservation Following In-Vitro Maturation for Fertility Preservation in a Woman with Mullerian	Case Report of one case of IVM+embryo cryo
Adenosa coma. A case Report 3 Hum Reprod Sci 2017,10, 130-141.	
Oktay K, Buyuk E, Davis O, Yermakova I, Veeck L, Rosenwaks Z. Fertility preservation in breast cancer patients: IVF and embryo cryopreservation after ovarian stimulation with tamoxifen. Hum Reprod 2003;18: 90-95.	Early report of pregnancies after cryopreserved embryos in women with cancer
Oktav K Buvuk E Libertella N Akar M Rosenwaks Z Fertility preservation in breast cancer	Ovarian stimulation
patients: a prospective controlled comparison of ovarian stimulation with tamoxifen and letrozole for embryo cryopreservation. J Clin Oncol 2005;23: 4347-4353.	
Prasath EB, Chan ML, Wong WH, Lim CJ, Tharmalingam MD, Hendricks M, Loh SF, Chia YN, First	Case report
pregnancy and live birth resulting from cryopreserved embryos obtained from in vitro matured occytes after oophorectomy in an ovarian cancer patient. Hum Reprod 2014;29: 276-278.	
Rienzi L. Ubaldi FM. Oocyte versus embryo cryopreservation for fertility preservation in cancer	Editorial - opinion no relevant
patients: guaranteeing a women's autonomy. J Assist Reprod Genet 2015;32: 1195-1196.	data on embryo banking
undergoing embryo banking for fertility preservation before chemotherapy. Fertil Steril 2011;95: 588-591.	
Rodriguez-Wallberg KA. Clinical aspects and perinatal outcomes after cryopreservation of embryos and gametes. Minerva Ginecol 2015;67: 207–215.	Review, not relevant
Ron-el R, Vinder A, Golan A, Herman A, Raziel A, Caspi E. Sidi Y. The use of intravenous	Case report
gammaglobulin, heparin and aspirin in the maintenance of pregnancy of freeze thawed embryo in a patient with lupus-type anticoagulant. Eur J Obstet Gynecol Reprod Biol 1993;52: 131-133.	
Sabatini MF, Wolkovich AM, Macklin FA, Wright DL, Souter L Toth TL, Pronuclear embryo	Small cohort
cryonreservation experience: outcomes for reducing the risk of ovarian hyperstimulation syndrome	
and for fartility preservation in cancer patients. LAssist Reprod Genet 2011;28: 270-284	
Shalom-Paz F Almon B Shehata F Huang I Holzer H Chan BC Son W/Y Tan SI Fertility	IVM
preservation for breast-cancer nations using IVM followed by occute or embry o vitrification	1011
preservation not breast-cancer patients using two followed by obcyte of empryor vitilitation.	
Replote blomed online 2010;21: 500-571.	Caso roport
sidulas VD, Gracia CR. Ovarian sumulation and employ banking for refutive preservation in a woman	Case report
with severe mixed connective disease, is it safer 7 Assist reprod denet 2012,29, 271-275.	Deview net relevent
and embryos. Reprod Biomed Online 2004;9: 171-178.	Review, not relevant
Son WY, Chung JT, Gidoni Y, Holzer H, Levin D, Chian RC, Tan SL. Comparison of survival rate of cleavage stage embryos produced from in vitro maturation cycles after slow freezing and after vitrification. Fertil Steril 2009;92: 956-958.	Comparison of cryopreservation of embryos - IVM
Stat bite: Patients' plans for frozen embryos. J Natl Cancer Inst 2007;99: 1287.	Article out of scope on
	willingness to donate frozen embryos to research
Storage of gametes or embryos for cancer patients. Bull Med Ethics 1996;No. 115; 8-10.	Full text not available for assessment
Takahashi, N., et al., Factors associated with successful pregnancy in women of late reproductive age with uterine fibroids who undergo embryo cryopreservation before surgery. J Obstet Gynaecol Res, 2018. 44(10): p. 1956-1962.	Uterine fibroids
Vanni, V.S., et al., Safety of fertility treatments in women with systemic autoimmune diseases (SADs). Expert Opin Drug Saf, 2019. 18(9): p. 841-852.	Not embryo specific
Vogt, K.S., et al., Preserving fertility in women with cancer (PreFer): Decision-making and patient-	Decision making
reported outcomes in women offered egg and embryo freezing prior to cancer treatment. Psychooncology, 2018. 27(12): p. 2725-2732.	-
Whitworth A. Freezing embryosa woman's best option, but is it legal? J Natl Cancer Inst 2006;98:	Focus on law, which have
1359.	cnanged over the years
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1122-01121-1122.	Vituification of blacts wate
Wirleitner B, Vanderzwalmen P, Bach M, Baramsai B, Neyer A, Schwerda D, Schuff M, Spitzer D, Stecher A, Zintz M et al. The time aspect in storing vitrified blastocysts: its impact on survival rate, implantation potential and babies how thum Depend active? 2007 2007	Vitrification of blastocysts
Vene D. Brown CE. New york, D. Oddy V. D. Wellow C. Wardow H. Ling Status for the strength of	Chudu of an approximation of
Yang D, Brown SE, Nguyen K, Reddy V, Brubaker C, Winslow KL. Live birth after the transfer of human embryos developed from cryopreserved oocytes harvested before cancer treatment. Fertil Steril 2007;87: 1469 e1461-1464	Study of cryopreservation of oocytes
Yurchuk T M Petrustako and B Fuller Science of chooresenation in reproductive medicine	Historical overview
Embryos and occytes as exemplars Early Hum Dev. 2018 126 p. 6-0	r listondat üverview

# Q12 How should ovarian stimulation be performed in cancer patients undergoing FP treatment?

#### Search strings

DATABASE	Search string
PUBMED Merged	(('Neoplasms'IMesh] OR Cancer OR tumor OR neoplasm OR malignancy OR neoplasms) OR ('Systemic lupus erythematosus' OR 'Lupus Erythematosus, Systemic'IMesh] OR "Behcet's disease" OR 'Behcet Syndrome'IMesh] OR "Churg-Strauss syndrome" OR 'Churg-Strauss Syndrome'IMesh] OR 'eosinophilic granulomatosis' OR 'Steroid resistant glomerulonephritis' OR "glomerulonephritis" OR 'Glomerulonephritis'IMesh] OR 'Granulomatosis' OR 'Steroid resistant glomerulonephritis' OR 'glomerulonephritis' OR 'Glomerulonephritis'IMesh] OR 'Inflammatory bowel diseases' OR 'Crohn Disease' OR 'ulcerative colitis' OR 'Inflammatory Bowel Diseases'IMesh] OR 'Arthritis, Rheumatoid'IMesh] OR "Rheumatoid arthritis' OR 'Pemphigus vulgaris' OR 'Pemphigus'IMesh] OR 'Arthritis, Rheumatoid'IMesh] OR "Haematological diseases' OR 'Hematologic Diseases'IMesh] OR 'Antemia'IMesh] OR 'sickle cell anaemia' OR "thalassaemia major' OR 'plastic anaemia' OR "Altered hypothalamic-pituitary-gonadal axis' OR 'Ovarian oophoritis" OR 'Oophoritis'IMesh] OR "Benign ovarian tumours' OR 'Mosaic Turner's syndrome' OR 'Turner Syndrome'IMesh] OR "Fragile X Mental Retardation 1' OR 'Fragile X Syndrome'IMesh] OR 'Endometriosis'IMesh] OR "Endometriosis') OR ('Transgender Persons'IMesh] OR Transgender OR Transsexual) OR ("anticipated gamete exhaustion" OR 'age-related fertility decline' OR 'social freezing' OR 'nonmedical freezing' OR 'Social egg-freezing ' OR 'Elective freezing') OR ('Fertility Preservation'IMesh] OR 'Fertility Preservation') ) AND ('ovarian stimulation' OR 'OHSS' OR 'hyperstimulation' OR 'Ovulation Induction'IMesh] OR 'Pertility Origonal and the content of the conte
COCHRANE	(Cancer OR tumor OR neoplasm OR malignancy OR neoplasms OR "Systemic lupus erythematosus" OR "Behcet's disease" OR 'Behcet Syndrome' OR "Churg-Strauss syndrome" OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" OR "Granulomatosis with polyangiitis" OR "Wegener's granulomatosis" OR "Inflammatory bowel diseases" OR 'Action Disease" OR "lucerative coltis" OR "Rheumatoid arthritis" OR "Pemphigus vulgaris" OR "Pemphigus" OR "Autoimmune Diseases" OR "Haematological diseases" OR "Anemia" OR "sickle cell anaemia" OR "thalassaemia major" OR "plastic anaemia" OR "Altered hypothalamic-pituitary-gonada axis" OR "Ovarian oophoritis" OR "Gophoritis" OR "Fragile X Syndrome" OR Galactosaemia OR "Galactosemias" OR "Beta-thalassaemia" OR "Endometriosis" OR "Transgender Persons" OR Transgender OR Transsexual OR "anticipated gamete exhaustion" OR "age-related fertility decline" OR "social freezing" OR "nonmedical freezing" OR "social egg-freezing " OR "Elective freezing" OR "Fertility Preservation") AND ('ovarian stimulation" OR "OHSS' OR "hyperstimulation" OR "Ovarian tory")

Literature search was limited to papers published between 1 november 2018 (deadline for inclusion of papers in the ESHRE Guideline on ovarian stimulation) and 1 november 2019.



Reference	Exclusion criterium
Jochum, F., et al., Luteal phase stimulation, the future of fertility preservation? Retrospective cohort study of luteal phase versus follicular phase stimulation. J Gynecol Obstet Hum Reprod, 2019. 48(2): p. 91-94.	not relevant for the key question
Wald, K., et al., Back-to-back random-start ovarian stimulation prior to chemotherapy to maximize oocyte yield. J Assist Reprod Genet, 2019. 36(6): p. 1161-1168.	case series of 15 patients
Volodarsky-Perel, A., et al., Effects of cancer stage and grade on fertility preservation outcome and ovarian stimulation response. Hum Reprod, 2019. 34(3): p. 530–538.	not relevant for the key question
Grynberg, M., et al., BRCA1/2 gene mutations do not affect the capacity of oocytes from breast cancer candidates for fertility preservation to mature in vitro. Hum Reprod, 2019. 34(2): p. 374-379.	IVM
Nakasuji, T., et al., Random-start ovarian stimulation with aromatase inhibitor for fertility preservation in women with Japanese breast cancer. Reprod Med Biol, 2019. 18(2): p. 167-172.	small observational study - 34 patients
Sonigo, C., et al., Impact of letrozole supplementation during ovarian stimulation for fertility preservation in breast cancer patients. Eur J Obstet Gynecol Reprod Biol X, 2019. 4; p. 100049.	COS with letrozole supplementation
Kim, S.S., Ovarian stimulation for fertility preservation in women diagnosed with cancer. Fertil Steril, 2018. 110(7): p. 1269-1270.	Publication type
Turan, V., et al., The impact of malignancy on response to ovarian stimulation for fertility preservation: a meta-analysis. Fertil Steril, 2018. 110(7): p. 1347-1355.	meta-analysis on older data, included in the Guideline on ovarian stimulation
Rousset-Jablonski, C., et al., Fertility preservation, contraception and menopause hormone therapy in women treated for rare ovarian tumours: guidelines from the French national network dedicated to rare gynaecological cancers. Eur J Cancer, 2019. 116: p. 35-44.	Publication type
Grynberg, M., et al., Can we perform flexible antagonist protocol for luteal phase ovarian stimulation for breast cancer patients seeking fertility preservation? Fertility and sterility. Conference: 74th annual congress of the american society for reproductive medicine, ASRM 2018. Denver colorado, united states, 2018. 110(4); p. e85-e86.	Publication type

## Q13 Should ovarian tissue cryopreservation vs. no intervention be used for fertility preservation?

DATABASE	Search string
PUBMED MERGED	(('Neoplasms'IMesh] OR Cancer OR tumor OR neoplasm OR malignancy OR neoplasms) OR ("Systemic lupus erythematosus" OR "Lupus Erythematosus, Systemic"IMesh] OR "Behcet's disease" OR "Behcet Syndrome" (Mesh] OR "Churg-Strauss syndrome" OR "Churg-Strauss Syndrome"(Mesh] OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" OR "Glomerulonephritis"IMesh] OR "Granulomatosis with polyangiitis" OR "Wegener's granulomatosis" OR "Granulomatosis with Polyangiitis"IMesh] OR "Inflammatory bowel diseases" OR "Crohn Disease" OR "ulcerative colitis" OR "Inflammatory Bowel Diseases'IMesh] OR "Arthritis, Rheumatoid"IMesh] OR "Rheumatoid arthritis" OR "Pemphigus vulgaris" OR "Pemphigus'IMesh] OR "Arthritis, Rheumatoid"IMesh] OR "Haematological diseases" OR "Hematologic Diseases'IMesh] OR "Anemia"IMesh] OR "sickle cell anaemia" OR "thalassaemia major" OR "plastic anaemia" OR "Altered hypothalamic-pituitary-gonadal axis" OR "Onohoritis" OR 'Oophoritis"IMesh] OR "Benign ovarian tumours" OR "Mosaic Turner's syndrome" OR "Turner Syndrome"IMesh] OR "Fragile X Mental Retardation 1" OR "Fragile X Syndrome"IMesh] OR "Endometriosis" (Mesh] OR "Endometriosis") OR ("Transgender Persons"IMesh] OR Transgender OR Transsexual) OR ("anticipated gamete exhaustion" OR "age-related fertility decline" OR "social freezing" OR "nonmedical freezing" OR "Social egg-freezing" OR "Elective freezing") OR ("Fertility Preservation"IMesh] OR "Fertility Preservation") AND ("ovarian tissue cryopreservation" OR "ovarian tissue" AND "surgery") OR "ovarian tissue transplantation" OR "ovarian tissue cryopreservation" OR "ovarian tork cryopreservation")
COCHRANE MERGED	((Cancer OR tumor OR neoplasm OR malignancy OR neoplasms) OR ("Systemic lupus erythematosus" OR "Behcet's disease" OR "Behcet Syndrome" OR "Churg-Strauss syndrome" OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" OR "Granulomatosis with polyangiitis" OR "Wegener's granulomatosis" OR "Inflammatory bowel diseases" OR "Autoimmune Disease" OR "Haematological diseases" OR "Anemia" OR "Autoimmune Diseases" OR "Haematological diseases" OR "Anemia" OR "Sickle cell anaemia" OR "thalassaemia major" OR "plastic anaemia" OR "Altered hypothalamic-pituitary-gonadal axis" OR "OR "OR "Tragile X Mental Retardation 1" OR "Fragile X Syndrome" OR Galactosaemia OR "Galactosemias" OR "Beta-thalassaemia" OR "Endometriosis" OR "Transgender Persons" OR Transsexual) OR ("anticipated gamete exhaustion" OR "age-related fertility Perservation")) AND ("ovarian tissue cryopreservation" OR "ovarian tissue transplantation" OR "ovarian tissue transplantation" OR "nomedical freezing" OR "Social egg-freezing" OR "Elective freezing" OR ("Social effecting") AND ("ovarian tissue cryopreservation") OR "ovarian tissue transplantation"



Reference	Exclusion criterium
Abir R, Ben-Aharon I, Garor R, Yaniv I, Ash S, Stemmer SM, Ben-Haroush A, Freud E, Kravarusic D, Sapir O et al. Cryopreservation of in vitro matured oocytes in addition to ovarian tissue freezing for fertility preservation in paediatric female cancer patients before and after cancer therapy. Hum Reprod 2016:31: 750-762.	Lager series of OTC combined with IVM in pediatric patients
Adhikari D. In vitro activation of dormant follicles for fertility preservation. Adv Exp Med Biol 2013;761: 29-42.	Full text not available
Akar ME, Carrillo AJ, Jennell JL, Yalcinkaya TM. Robotic-assisted laparoscopic ovarian tissue transplantation. Fertil Steril 2011;95: 1120.e1125-1128.	case report
Ali Mohamed MS. A new strategy and system for the ex vivo ovary perfusion and cryopreservation: An innovation. Int J Reprod Biomed (Yazd) 2017;15: 323-330.	Full text not available
Amiot, C., et al., Minimal residual disease detection of leukemic cells in ovarian cortex by eight- color flow cytometry. Hum Reprod, 2013. 28(8): p. 2157-67.	More relevant for the question on OTT
Andersen, C.Y., et al., Cryopreservation of ovarian tissue for fertility preservation in young female oncological patients. Future Oncol, 2012. 8(5): p. 595-608.	More recent review available
Anderson RA, Baird DT. The development of ovarian tissue cryopreservation in Edinburgh: Translation from a rodent model through validation in a large mammal and then into clinical practice. Acta obstetricia et gynecologica Scandinavica 2019;98: 545–549.	Included in the introduction as background information
Anderson RA, Wallace WH, Baird DT. Ovarian cryopreservation for fertility preservation: indications and outcomes. Reproduction 2008;136: 681-689.	No additional information compared to Anderson 2011
Armstrong AG, Kimler BF, Smith BM, Woodruff TK, Pavone ME, Duncan FE. Ovarian tissue cryopreservation in young females through the Oncofertility Consortium's National Physicians Cooperative. Future Oncol 2018;14: 363-378.	Full text not available
Asadi-Azarbaijani, B., et al., Minimal residual disease of leukemia and the quality of cryopreserved human ovarian tissue in vitro. Leuk Lymphoma, 2016. 57(3): p. 700-7.	More relevant for the question on OTT
Azem F, Samara N, Cohen T, Ben-Yosef D, Almog B, Lessing JB, Goor O, Amit A. Assessment of ovarian reserve following ovarian tissue banking and/or GnRH-a co-treatment prior to chemotherapy in patients with Hodgkin's disease. J Assist Reprod Genet 2008;25: 535-538.	Case series on OTC + GnRH
Bahadur, G., et al., Cancer patients, gametes, gonadal tissue, and the UK legal status. Reprod Biomed Online, 2001. 2(1): p. 8-10.	more recent data available
Baird D, Anderson R, Hamish Wallace W. Autotransplantation of ovarian tissue. Lancet 2001;358: 588.	Letter
Barakat RR, Federici MG, Saigo PE, Robson ME, Offit K, Boyd J. Absence of premalignant histologic, molecular, or cell biologic alterations in prophylactic oophorectomy specimens from BRCA1 heterozygotes. Cancer 2000;89: 383-390.	More relevant for the question on OTT
Bastings L, Liebenthron J, Westphal JR, Beerendonk CC, van der Ven H, Meinecke B, Montag M, Braat DD, Peek R. Efficacy of ovarian tissue cryopreservation in a major European center. J Assist Reprod Genet 2014;31: 1003-1012.	viability tests after OCT
Bastings L, Westphal JR, Beerendonk CC, Braat DD, Peek R. Unknown risk of the reintroduction of malignant cells in a Danish cohort of women autotransplanted with ovarian tissue. Fertil Steril 2011;95: e52; author reply e53.	Relevant for the question on OTT
Bedaiwy MA, El-Nashar SA, El Saman AM, Evers JL, Sandadi S, Desai N, Falcone T. Reproductive outcome after transplantation of ovarian tissue: a systematic review. Hum Reprod 2008;23: 2709- 2717.	No additional data compared to Gellert 2018
Bedaiwy MA, Hussein MR, Biscotti C, Falcone T. Cryopreservation of intact human ovary with its vascular pedicle. Hum Reprod 2006;21: 3258-3269.	Whole ovarian tissue cryopreservation
Bedaiwy, M.A. and T. Falcone, Ovarian tissue banking for cancer patients: reduction of post- transplantation ischaemic injury: intact ovary freezing and transplantation. Hum Reprod, 2004. 19(6): p. 1242-4.	Technical aspects
Biasin E, Salvagno F, Berger M, Nesi F, Quarello P, Vassallo E, Evangelista F, Marchino GL, Revelli A, Benedetto C et al. Ovarian tissue cryopreservation in girls undergoing haematopoietic stem cell transplant: experience of a single centre. Bone Marrow Transplant 2015;50: 1206-1211.	single centre analysis - Experience of 47 OTC in patients treated with HSCT- Not included in Gellert review
Bittinger SE, Nazaretian SP, Gook DA, Parmar C, Harrup RA, Stern CJ. Detection of Hodgkin lymphoma within ovarian tissue. Fertil Steril 2011;95: 803.e803-806.	Relevant for the question on OTT
Burmeister L, Kovacs GT, Osianlis T. First Australian pregnancy after ovarian tissue cryopreservation and subsequent autotransplantation. Med J Aust 2013;198: 158-159.	Included in the Gellert 2018 review
Callejo, J., et al., Live birth in a woman without ovaries after autograft of frozen-thawed ovarian tissue combined with growth factors. J Ovarian Res, 2013. 6(1): p. 33.	more recent data available
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Chambers EL, Gosden RG, Yap C, Picton HM. In situ identification of follicles in ovarian cortex as a tool for quantifying follicle density, viability and developmental potential in strategies to preserve female fertility. Hum Reprod 2010;25: 2559-2568.	Relevant for the question on vitrification versus slow freezing
Chehab, G., et al., Successful conception in a 34-year-old lupus patient following spontaneous pregnancy after autotransplantation of cryopreserved ovarian tissue. Lupus, 2019, 28(5): p. 675-680.	case report
Chian RC, Uzelac PS, Nargund G. In vitro maturation of human immature oocytes for fertility preservation. Fertil Steril 2013;99: 1173-1181.	Review mainly on IVM with only a short description of ex vivo IVM

Chung K, Donnez J, Ginsburg E, Meirow D. Emergency IVF versus ovarian ussue cryopreservation:	No odditional data composed
de sistem una luine la faultité conservation fau fausale, conservantiente, Fault Charl esteves, seus seus	No additional data compared
decision making in refutuy preservation for remate cancer patients. Ferul stent 2013;99: 15:34-1542.	to Getteri 2018
De Roo C, Lierman S, Tilleman K, Peynshaert K, Braeckmans K, Caanen M, Lambalk CB, Weyers S,	I ransgender issue
TSjoen G, Cornelissen R et al. Ovarian tissue cryopreservation in female-to-male transgender	
people: insights into ovarian histology and physiology after prolonged androgen treatment. Reprod	
Biomed Online 2017;34: 557-566.	
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function and spontaneous pregnancy after combined heterotopic and orthotopic cryopreserved	
ovarian tissue transplantation in a patient previously treated with bone marrow transplantation:	
case report. Hum Reprod 2006;21; 2010-2014.	
Demoestere   Simon P. Emiliani S. Delbaere A. Englert Y. Fertility preservation: successful	Case report
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oncological treatment: cryopreservation of ovarian tissue and its cunical application. Acta Cun Belg	date
2006;61: 259-263.	
Diaz-Garcia, C., et al., Dexamethasone does not prevent malignant cell reintroduction in leukemia	No clinical application yet
patients undergoing ovarian transplant: risk assessment of leukemic cell transmission by a	
xenograft model. Hum Reprod, 2019. 34(8): p. 1485–1493.	
Dittrich R, Hackl J, Lotz L, Hoffmann I, Beckmann MW. Pregnancies and live births after 20	Included in the Gellert 2018
transplantations of cryopreserved ovarian tissue in a single center. Fertil Steril 2015:103: 462-468.	review
Dittrich B   otz   Fehm T Krussel   von Wolff M Toth B van der Ven H Schuring AN Wurfel W	Animal study
Hoffmann Let al Yenotransplantation of encoursenced human ovariantics less a systematic review.	, annae seady
of MI appression and discussion of it as a realistic option for restaring fortility after sone	
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Dotmans MM, Jadout P, Gluaux S, Amorim CA, Luyckx V, Squittet J, Donnez J, Van Langendonckt	No additional information
A A review of 15 years of ovarian tissue bank activities. J Assist Reprod Genet 2013;30: 305-314.	
Dolmans MM, Luyckx V, Donnez J, Andersen CY, Greve T. Risk of transferring malignant cells with	Included for the question on
transplanted frozen-thawed ovarian tissue. Fertil Steril 2013;99: 1514-1522.	safety OTT
Donfack NJ, Alves KA, Araujo VR, Cordova A, Figueiredo JR, Smitz J, Rodrigues APR. Expectations	No additional data compared
and limitations of ovarian tissue transplantation. Zygote 2017;25: 391-403.	to Gellert 2018
Donnez J. Bassil S. Indications for cryopreservation of ovarian tissue. Hum Reprod Update 1998:4:	case report+ review
248-259.	
Donnez   Dolmans MM Demylle D, Jadoul P, Pirard C, Squifflet   Martinez-Madrid B, Van	case report
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Langer dollect A. Restoration of ovarian function are for intervention the dollar and period intervention	
transplantation of cryopieserved ovalian ussue in a wonlain traded by bone manow	
transplantation for sickle cett anaemia. case report. Hum Reprod 2000;21:163-166.	
Donnez J, Dolmans MM, Demylle D, Jadoul P, Pirard C, Squifflet J, Martinez-Madrid B, van	Included for the question on
Langendonckt A. Livebirth after orthotopic transplantation of cryopreserved ovarian tissue. Lancet	safety OT I
2004;364: 1405-1410.	
Donnez J, Dolmans MM, Pellicer A, Diaz-Garcia C, Sanchez Serrano M, Schmidt KT, Ernst E, Luyckx	No additional data compared
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v, Andersen CT. Restoration of Ovarian activity and pregnancy after transplantation of	to Gellert 2018
cryopreserved ovarian tissue: a review of 60 cases of reimplantation. Fertil Steril 2013;99: 1503-1513.	to Gellert 2018
cryopreserved ovarian tissue: a review of 60 cases of reimplantation. Fertil Steril 2013;99: 1503-1513. Donnez J, Dolmans MM. Ovarian cortex transplantation: 60 reported live births brings the success	to Gellert 2018 Narrative review, more recent
<ul> <li>cryopreserved ovarian tissue: a review of 60 cases of reimplantation. Fertil Steril 2013;99: 1503-1513.</li> <li>Donnez J, Dolmans MM. Ovarian cortex transplantation: 60 reported live births brings the success and worldwide expansion of the technique towards routine clinical practice. J Assist Reprod Genet</li> </ul>	to Gellert 2018 Narrative review, more recent review is available
<ul> <li>cryopreserved ovarian tissue: a review of 60 cases of reimplantation. Fertil Steril 2013;99: 1503-1513.</li> <li>Donnez J, Dolmans MM. Ovarian cortex transplantation: 60 reported live births brings the success and worldwide expansion of the technique towards routine clinical practice. J Assist Reprod Genet 2015;32: 1167-1170.</li> </ul>	to Gellert 2018 Narrative review, more recent review is available
<ul> <li>cryopreserved ovarian tissue: a review of 60 cases of reimplantation. Fertil Steril 2013;99: 1503-1513.</li> <li>Donnez J, Dolmans MM. Ovarian cortex transplantation: 60 reported live births brings the success and worldwide expansion of the technique towards routine clinical practice. J Assist Reprod Genet 2015;32: 1167-1170.</li> <li>Donnez J, Dolmans MM. Ovarian tissue freezing: current status. Curr Opin Obstet Gynecol 2015;27:</li> </ul>	to Gellert 2018 Narrative review, more recent review is available
<ul> <li>Cryopreserved ovarian tissue: a review of 60 cases of reimplantation. Fertil Steril 2013;99: 1503-1513.</li> <li>Donnez J, Dolmans MM. Ovarian cortex transplantation: 60 reported live births brings the success and worldwide expansion of the technique towards routine clinical practice. J Assist Reprod Genet 2015;32: 1167-1170.</li> <li>Donnez J, Dolmans MM. Ovarian tissue freezing: current status. Curr Opin Obstet Gynecol 2015;27: 222-220.</li> </ul>	to Gellert 2018 Narrative review, more recent review is available No additional data compared to Gellert 2018
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<ul> <li>Andersen CT. Restolation of ovarian activity and pregnancy after transplantation of cryopreserved ovarian tissue: a review of 60 cases of reimplantation. Fertil Steril 2013;99: 1503-1513.</li> <li>Donnez J, Dolmans MM. Ovarian cortex transplantation: 60 reported live births brings the success and worldwide expansion of the technique towards routine clinical practice. J Assist Reprod Genet 2015;32: 1167-1170.</li> <li>Donnez J, Dolmans MM. Ovarian tissue freezing: current status. Curr Opin Obstet Gynecol 2015;27: 222-230.</li> <li>Donnez J, Golin PA, Qu J, Nisolle M. Gonadal cryopreservation in the young patient with armosological malianamy. Curr Opin Obstet Gynecol 200013: 1-0</li> </ul>	to Gellert 2018 Narrative review, more recent review is available No additional data compared to Gellert 2018 Narrative review focusing more on transplantation
<ul> <li>Andersen C.Y. Restolation of ovarian activity and pregnancy after transplantation of cryopreserved ovarian tissue: a review of 60 cases of reimplantation. Fertil Steril 2013;99: 1503-1513.</li> <li>Donnez J, Dolmans MM. Ovarian cortex transplantation: 60 reported live births brings the success and worldwide expansion of the technique towards routine clinical practice. J Assist Reprod Genet 2015;32: 1167-1170.</li> <li>Donnez J, Dolmans MM. Ovarian tissue freezing: current status. Curr Opin Obstet Gynecol 2015;27: 222-230.</li> <li>Donnez J, Godin PA, Qu J, Nisolle M. Gonadal cryopreservation in the young patient with gynaecological malignancy. Curr Opin Obstet Gynecol 2000;12: 1-9.</li> </ul>	to Gellert 2018 Narrative review, more recent review is available No additional data compared to Gellert 2018 Narrative review focusing more on tranplantation
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Kristensen, S.G., et al., A simple method to quantify follicle survival in cryopreserved human ovarian tissue. Hum Reprod, 2018. 33(12): p. 2276-2284.	Technical aspects
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Laufer MR, Upton J, Schuster SR, Grier H, Emans SJ, Diller L. Ovarian tissue autologous transplantation to the upper extremity for girls receiving abdominal/pelvic radiation: 20-year follow-up of reproductive endocrine function. J Pediatr Adolesc Gynecol 2010;23: 107-110	Not relevant for the question
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Schenker JG, Fatum M. Should ovarian tissue cryopreservation be recommended for cancer patients? J Assist Reprod Genet 2004;21: 375-376.	No additional data compared to Gellert 2018
Schifflers, S., et al., Microscopic Infiltration of Cryopreserved Ovarian Tissue in 2 Patients With Ewing Sarcoma, J Pediatr Hematol Oncol. 2018, 40(3): p. e167-e170.	Relevant for the question on OTT
Schleedoorn, M.J., et al., Assessment of reflectance confocal microscopy for non-invasive selection of optimal ovarian cortex fragments for autotransplantation. Reprod Biomed Online, 2019. 38(6): p. 999-1009.	Relevant for the question on OTT
Schmidt, KL, et al., Follow-up of ovarian function post-chemotherapy following ovarian cryopreservation and transplantation. Hum Reprod. 2005, 20(12): p. 3539-46.	More recent data available
Schmidt, K.L., et al., Survival of primordial follicles following prolonged transportation of ovarian tissue prior to cryopreservation. Hum Reprod, 2003. 18(12): p. 2654-9.	More recent data available
Schmidt, K.T., et al., Autotransplantation of cryopreserved ovarian tissue in 12 women with chemotherapy-induced premature ovarian failure: the Danish experience. Fertil Steril, 2011. 95(2): p. 695-701.	Included for the question on safety OTT
Sermondade, N., et al., Serum antimullerian hormone is associated with the number of oocytes matured in vitro and with primordial follicle density in candidates for fertility preservation. Fertil Steril. 2019, 111(2): p. 357-362.	No additional data compared to other selected studies
Seshadri, T., et al., Lack of evidence of disease contamination in ovarian tissue harvested for cryopreservation from patients with Hodgkin lymphoma and analysis of factors predictive of occvte vield. Br J Cancer, 2006, 94(7): p. 1007-10.	Relevant for the question on OTT
Seymour JF. Ovarian tissue cryopreservation for cancer patients: who is appropriate? Reprod Fertil Dev 2001;13: 81-89.	Australian recommendations (full text not available)
Shamonki MI, Oktay K. Oocyte and ovarian tissue cryopreservation: indications, techniques, and applications. Semin Reprod Med 2005;23; 266-276.	Not available
Shapira M, Raanani H, Barshack I, Amariglio N, Derech-Haim S, Marciano MN, Schiff E, Orvieto R, Meirow D. First delivery in a leukemia survivor after transplantation of cryopreserved ovarian tissue, evaluated for leukemia cells contamination. Fertil Steril 2018;109: 48–53.	Included for the question on safety OTT
Sheikhi, M., et al., Clinical grade vitrification of human ovarian tissue: an ultrastructural analysis of follicles and stroma in vitrified tissue. Hum Reprod, 2011. 26(3): p. 594-603.	More relevant for the question on vitrification versus slow freezing
Silber S, Kagawa N, Kuwayama M, Gosden R. Duration of fertility after fresh and frozen ovary transplantation. Fertil Steril 2010;94; 2191-2196.	More relevant for the question on OTT
Silber S. Ovarian tissue cryopreservation and transplantation: scientific implications. J Assist Reprod Genet 2016;33: 1595-1603.	No additional data compared to Gellert 2018
Silber SJ. Fresh ovarian tissue and whole ovary transplantation. Semin Reprod Med 2009;27: 479- 485.	Whole ovarian tissue transplantation
Silber SJ. Ovary cryopreservation and transplantation for fertility preservation. Mol Hum Reprod 2012;18: 59-67.	Not answering the PICO Question (Indication of OTC- identical twins with POI)
Silber, S., et al., Fresh and cryopreserved ovary transplantation and resting follicle recruitment. Reprod Biomed Online, 2015, 30(6); p. 643–50.	Technical aspects
Silber, S.J., et al., Cryopreservation and transplantation of ovarian tissue: results from one center in the USA, J Assist Reprod Genet, 2018, 35(12); p. 2205-2213.	No additional data compared to other selected studies
Soares M, Sahrari K, Amorim CA, Saussoy P, Donnez J, Dolmans MM. Evaluation of a human ovarian follicle isolation technique to obtain disease-free follicle suspensions before safely grafting to cancer patients. Fertil Steril 2015;104: 672-680.e672.	Not relevant for the question (artificial ovary)
Soares M, Sahrari K, Chiti MC, Amorim CA, Ambroise J, Donnez J, Dolmans MM. The best source of isolated stromal cells for the artificial ovary: medulla or cortex, cryopreserved or fresh? Hum Reprod 2015;30: 1589-1598.	Not relevant for this question (Artificial ovary)
Sonmezer M, Oktay K. Orthotopic and heterotopic ovarian tissue transplantation. Best Pract Res Clin Obstet Gynaecol 2010;24: 113-126.	Narrative review focusing more on tranplantation
Sonmezer M, Shamonki MI, Oktay K. Ovarian tissue cryopreservation: benefits and risks. Cell Tissue Res 2005;322: 125-132.	No additional data compared to Gellert 2018
Sorensen, S.D., et al., Safety considerations for transplanting cryopreserved ovarian tissue to restore fertility in female patients who have recovered from Ewing's sarcoma. Future Oncol, 2014. 10(2): p. 277-83.	Relevant for the question on OTT
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Sullivan-Pyke CS, Carlson CA, Prewitt M, Gracia CR, Ginsberg JP. Ovarian tissue cryopreservation (OTC) in prepubertal girls and young women: an analysis of parents' and patients' decision-making. J Assist Reprod Genet 2018.	Decision making
Takae S, Sugishita Y, Yoshioka N, Hoshina M, Horage Y, Sato Y, Nishijima C, Kawamura K, Suzuki N. The role of menstrual cycle phase and AMH levels in breast cancer patients whose ovarian tissue was cryopreserved for oncofertility treatment. J Assist Reprod Genet 2015;32: 305-312.	Combined IVM technique - impact of menstrual cycles
Tanbo T, Greggains G, Storeng R, Busund B, Langebrekke A, Fedorcsak P. Autotransplantation of cryopreserved ovarian tissue after treatment for malignant disease - the first Norwegian results. Acta Obstet Gynecol Scand 2015;94: 937-941.	Included in the Gellert 2018 review
Tao T, Del Valle A. Human oocyte and ovarian tissue cryopreservation and its application. J Assist Reprod Genet 2008;25: 287-296.	Narrative review on FP procedures
Tian T, Zhao G, Han D, Zhu K, Chen D, Zhang Z, Wei Z, Cao Y, Zhou P. Effects of vitrification cryopreservation on follicular morphology and stress relaxation behaviors of human ovarian	Cryopreservation technique

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Traina CL. Ovarian tissue cryopreservation and bioethical discourse. Cancer Treat Res 2010;156: 173-180.	Bioethical issues
Uzelac PS, Delaney AA, Christensen GL, Bohler HC, Nakajima ST. Live birth following in vitro maturation of oocytes retrieved from extracorporeal ovarian tissue aspiration and embryo cryopreservation for 5 years. Fertil Steril 2015;104: 1258-1260.	Case report on ex vivo IVM oocytes
Van der Ven H, Liebenthron J, Beckmann M, Toth B, Korell M, Krussel J, Frambach T, Kupka M, Hohl MK, Winkler-Crepaz K et al. Ninety-five orthotopic transplantations in 74 women of ovarian tissue after cytotoxic treatment in a fertility preservation network: tissue activity, pregnancy and delivery rates. Hum Reprod 2016;31: 2031-2041.	Included in the Gellert 2018 review
Vanacker, J., et al., Should we isolate human preantral follicles before or after cryopreservation of ovarian tissue? Fertil Steril, 2013. 99(5): p. 1363-1368.e2.	In vitro culture
Virant-Klun I, Vogler A. In vitro maturation of oocytes from excised ovarian tissue in a patient with autoimmune ovarian insufficiency possibly associated with Epstein-Barr virus infection. Reprod Biol Endocrinol 2018;16: 33.	case report
von Wolff M, Donnez J, Hovatta O, Keros V, Maltaris T, Montag M, Salle B, Sonmezer M, Andersen CY. Cryopreservation and autotransplantation of human ovarian tissue prior to cytotoxic therapya technique in its infancy but already successful in fertility preservation. Eur J Cancer 2009;45: 1547- 1553.	Narrative review
von Wolff, M., N. Sanger, and J. Liebenthron, Is Ovarian Tissue Cryopreservation and Transplantation Still Experimental? It Is a Matter of Female Age and Type of Cancer. J Clin Oncol, 2018: p. Jco1800425.	letter
Voultsos P, Raikos N, Vasileiadis N, Spiliopoulou C, Tarlatzis B. Ethico-legal issues related to ovarian tissue transplantation. Med Sci Law 2016.	Full text not available
Wilken-Jensen HN, Kristensen SG, Jeppesen JV, Yding Andersen C. Developmental competence of oocytes isolated from surplus medulla tissue in connection with cryopreservation of ovarian tissue for fertility preservation. Acta Obstet Gynecol Scand 2014;93: 32-37.	results of ex vivo IVM
Yin H, Jiang H, Kristensen SG, Andersen CY. Vitrification of in vitro matured oocytes collected from surplus ovarian medulla tissue resulting from fertility preservation of ovarian cortex tissue. J Assist Reprod Genet 2016;33: 741-746.	OTC combined with IVM
Yin H, Kristensen SG, Jiang H, Rasmussen A, Andersen CY. Survival and growth of isolated pre- antral follicles from human ovarian medulla tissue during long-term 3D culture. Hum Reprod 2016;31: 1531–1539.	OTC combined with collection of primordial and secondary follicles in medulla
Zakova J, Sedlackova M, Polak S, Dumkova J, Ventruba P, Crha I. Methods for preserving fertility in young women suffering from cancer: some aspects of ovarian tissue cryopreservation. Bratisl Lek Listy 2012;113: 192-194.	Full text not available
Zver, T., et al., A new method for evaluating the risk of transferring leukemic cells with transplanted cryopreserved ovarian tissue. J Assist Reprod Genet, 2015. 32(8): p. 1263-6.	Relevant for the question on OTT
Zver, T., et al., Minimal residual disease detection in cryopreserved ovarian tissue by multicolor flow cytometry in acute myeloid leukemia. Haematologica, 2014. 99(12): p. e249-52.	Relevant for the question on OTT

## Q14 Should vitrification vs slow freezing be used for ovarian tissue cryopreservation for fertility preservation?

#### Search strings

DATABASE	Search string
PUBMED	("Ovarian tissue" OR "ovarian cortex" OR "ovary" OR "Ovarian cryopreservation") AND ("Vitrification"[Mesh] OR vitrification) AND ("slow freezing" OR "slow cooling" OR freezing)
COCHRANE	("Ovarian tissue" OR "ovarian cortex" OR "ovary" OR "Ovarian cryopreservation") AND (vitrification) AND "slow freezing"

#### Flowchart



Reference	Exclusion criterium
Amorim CA, Curaba M, Van Langendonckt A, Dolmans MM, Donnez J. Vitrification as an alternative means of cryopreserving ovarian tissue. Reproductive biomedicine online 2011;23: 160-186.	Review focusing on the different protocols, but no additional information compared to Shi 2017
Bastings L, Westphal JR, Beerendonk CC, Bekkers RL, Zusterzeel PL, Hendriks JC, Braat DD, Peek R. Clinically applied procedures for human ovarian tissue cryopreservation result in different levels of efficacy and efficiency. Journal of assisted reproduction and genetics 2016;33: 1605-1614.	Relevant outcomes are not assessed (Comparison of 2 slow-freezing and 2 thawing protocols on follicular viability)
Batuhan O, Safaa AH. Techniques for ovarian tissue, whole ovary, oocyte and embryo cryopreservation. Journal of reproduction & infertility 2010;11: 3-15.	Review of cryopreservation method focusing mainly on oocytes and embryos
Chang HJ, Moon JH, Lee JR, Jee BC, Suh CS, Kim SH. Optimal condition of vitrification method for cryopreservation of human ovarian cortical tissues. The journal of obstetrics and gynaecology research 2011;37: 1092-1101.	Included in review Shi 2017
Cutting R, Barlow S, Anderson R. Human oocyte cryopreservation: evidence for practice. Human fertility 2009;12: 125-136.	Out of topic: Oocytes cryopreservation
Diaz-Garcia C, Domingo J, Garcia-Velasco JA, Herraiz S, Mirabet V, Iniesta I, Cobo A, Remohi J, Pellicer A. Oocyte vitrification versus ovarian cortex transplantation in fertility preservation for adult women undergoing gonadotoxic treatments: a prospective cohort study. Fertility and sterility 2018;109: 478-485.e472.	relevant outcomes are not assessed (outcomes of oocytes vitrification versus ovarian tissue cryopreservation)
Gamzatova Z, Komlichenko E, Kostareva A, Galagudza M, Ulrikh E, Zubareva T, Sheveleva T, Nezhentseva E, Kalinina E. Autotransplantation of cryopreserved ovarian tissueeffective method of fertility preservation in cancer patients. Gynecological endocrinology 2014;30 Suppl 1: 43-47.	Narrative review
Huang L, Mo Y, Wang W, Li Y, Zhang Q, Yang D. Cryopreservation of human ovarian tissue by solid-surface vitrification. European journal of obstetrics, gynecology, and reproductive biology 2008;139: 193-198.	Included in review Shi 2017
Isachenko V, Isachenko E, Weiss JM, Todorov P, Kreienberg R. Cryobanking of human ovarian tissue for anti-cancer treatment: comparison of vitrification and conventional freezing. Cryo letters 2009;30: 449-454.	Mixed of review and personnal data with no methodology described
Jeong K, Aslan E, Ozkaya E, Sonmezer M, Oktay K. Ovarian cryopreservation. Minerva medica 2012;103: 37-46.	Full text not available
Keros V, Xella S, Hultenby K, Pettersson K, Sheikhi M, Volpe A, Hreinsson J, Hovatta O. Vitrification versus controlled-rate freezing in cryopreservation of human ovarian tissue. Human reproduction 2009;24: 1670–1683.	Included in review Shi 2017
Klocke S, Bundgen N, Koster F, Eichenlaub-Ritter U, Griesinger G. Slow-freezing versus vitrification for human ovarian tissue cryopreservation. Archives of gynecology and obstetrics 2015;291: 419- 426.	Included in review Shi 2017
Kokotsaki, M., et al., Impact of vitrification on granulosa cell survival and gene expression. Cryobiology, 2018. 85; p. 73-78.	cell line study
Li YB, Zhou CQ, Yang GF, Wang Q, Dong Y. Modified vitrification method for cryopreservation of human ovarian tissues. Chinese medical journal 2007;120: 110-114.	Included in review Shi 2017
Nakamura Y, Obata R, Okuyama N, Aono N, Hashimoto T, Kyono K. Residual ethylene glycol and dimethyl sulphoxide concentration in human ovarian tissue during warming/thawing steps following cryopreservation. Reproductive biomedicine online 2017;35: 311-313.	Evaluates residual cryoprotectant after thawing using both techniques
Nikiforov, D., et al., Innovative multi-protectoral approach increases survival rate after vitrification of ovarian tissue and isolated follicles with improved results in comparison with conventional method. J Ovarian Res, 2018, 11(1): p. 65.	animal model
Oktem O, Alper E, Balaban B, Palaoglu E, Peker K, Karakaya C, Urman B. Vitrified human ovaries have fewer primordial follicles and produce less antimullerian hormone than slow-frozen ovaries. Fertility and sterility 2011;95: 2661-2664.e2661.	Included in review Shi 2017
Salehnia M, Sheikhi M, Pourbeiranvand S, Lundqvist M. Apoptosis of human ovarian tissue is not increased by either vitrification or rapid cooling. Reproductive biomedicine online 2012;25: 492-499.	Does not answer the key question: Vitrification versus fresh
Sanfilippo S, Canis M, Smitz J, Sion B, Darcha C, Janny L, Brugnon F. Vitrification of human ovarian tissue: a practical and relevant alternative to slow freezing. Reproductive biology and endocrinology : RB&E 2015;13: 67.	Included in review Shi 2017
Son WY, Chung JT, Gidoni Y, Holzer H, Levin D, Chian RC, Tan SL. Comparison of survival rate of cleavage stage embryos produced from in vitro maturation cycles after slow freezing and after vitrification. Fertility and sterility 2009;92: 956–958.	Out of topic: Oocytes cryopreservation
Suzuki N, Yoshioka N, Takae S, Sugishita Y, Tamura M, Hashimoto S, Morimoto Y, Kawamura K. Successful fertility preservation following ovarian tissue vitrification in patients with primary ovarian insufficiency. Human reproduction 2015;30: 608-615.	Case report
Suzuki N. Ovarian tissue cryopreservation in young cancer patients for fertility preservation. Reproductive medicine and biology 2015;14: 1-4.	Mini review of cryopreservation method (narrative)
Xiao Z, Wang Y, Li L, Luo S, Li SW. Needle immersed vitrification can lower the concentration of cryoprotectant in human ovarian tissue cryopreservation. Fertility and sterility 2010;94: 2323-2328.	included in review Shi 2017
Xiao Z, Wang Y, Li LL, Li SW. In vitro culture thawed human ovarian tissue: NIV versus slow freezing method. Cryo letters 2013;34: 520-526.	Included in review Shi 2017
Zhao, Q., et al., Vitrification freezing of large ovarian tissue in the human body. J Ovarian Res, 2019. 12(1): p. 77.	No additional data compared to other studies

Zhou XH, Zhang D, Shi J, Wu YJ. Comparison of vitrification and conventional slow freezing for cryopreservation of ovarian tissue with respect to the number of intact primordial follicles: A metaanalysis. Medicine 2016;95: e4095.

Outcome is the proportion of intact primordial follicles

### Search strings

DATABASE	Search string
PUBMED	("Ovarian tissue cryopreservation" OR "ovarian tissue transplantation" OR "ovarian tissue freezing" OR "ovarian cortex cryopreservation" OR ("Ovarian tissue" OR "ovarian cortex" OR "ovary" OR "Ovarian cryopreservation") AND (replacement OR transplantation OR insertion OR reimplantation OR "tissue replacement"))) AND (adverse effects [Subheading] OR "Intraoperative Complications"[Mesh] OR "Side effect" OR "Adverse event" OR "adverse effects" OR Complication OR risk OR incident OR "Follicle activation" OR "Follicle loss" OR "malignant contamination" OR contamination OR follow-up OR repetition OR repeated)
COCHRANE	("Ovarian tissue cryopreservation" OR "ovarian tissue transplantation" OR "ovarian tissue freezing" OR "ovarian cortex cryopreservation" OR ("Ovarian tissue" OR "ovarian cortex" OR "ovary" OR "Ovarian cryopreservation") AND (replacement OR transplantation OR insertion OR reimplantation OR "tissue replacement"))) AND ( "Intraoperative Complications" OR "Side effect" OR "Adverse event" OR "adverse effects" OR Complication OR risk OR incident OR "Follicle activation" OR "Follicle loss" OR "malignant contamination" OR contamination OR follow-up OR repetition OR repeated)

#### Flowchart



Reference	Exclusion criterium
Amiot C, Angelot-Delettre F, Zver T, Alvergnas-Vieille M, Saas P, Garnache-Ottou F, Roux C. Minimal residual disease detection of leukemic cells in ovarian cortex by eight-color flow cytometry. Human reproduction 2013;28: 2157-2167.	Technical issue of MRD detection
Amorim CA, Shikanov A. The artificial ovary: current status and future perspectives. Future oncology (London, England) 2016;12: 2323-2332.	Full text not available
Andersen CY, Kristensen SG, Greve T, Schmidt KT. Cryopreservation of ovarian tissue for fertility preservation in young female oncological patients. Future oncology (London, England) 2012;8: 595-608.	Full text not available
Andersen, C.Y., L.S. Mamsen, and S.G. Kristensen, Freezing of ovarian tissue and clinical opportunities, Reproduction, 2019.	Narrative review
Asadi-Azarbaijani B, Sheikhi M, Nurmio M, Tinkanen H, Juvonen V, Dunkel L, Hovatta O, Oskam IC, Jahnukainen K. Minimal residual disease of leukemia and the quality of cryopreserved human ovarian tissue in vitro. Leukemia & lymphoma 2016;57: 700-707.	Paper does not address the key question (In vitro follicule culture and the influence of residual malignant cells)
Azem F, Hasson J, Ben-Yoser D, Kossoy N, Conen I, Almog B, Amit A, Lessing JB, Lirschitz-Mercer B. Histologic evaluation of fresh human ovarian tissue before cryopreservation. International journal of gynecological pathology : official journal of the International Society of Gynecological Pathologists 2010;29: 19-23.	2013
Bath LE, Tydeman G, Critchley HO, Anderson RA, Baird DT, Wallace WH. Spontaneous conception in a young woman who had ovarian cortical tissue cryopreserved before chemotherapy and radiotherapy for a Ewing's sarcoma of the pelvis: case report. Human reproduction 2004;19: 2569- 2572.	Case report
Bedaiwy MA, Shahin AY, Falcone T. Reproductive organ transplantation: advances and controversies. Fertility and sterility 2008;90: 2031-2055.	This reviw takes into account specific issues related to OTC and transplantation
Bertoldo MJ, Walters KA, Ledger WL, Gilchrist RB, Mermillod P, Locatelli Y. In-vitro regulation of primordial follicle activation: challenges for fertility preservation strategies. Reproductive biomedicine online 2018;36: 491-499.	Paper does not address the key question
Bhartiya D, Anand S, Parte S. VSELs may obviate cryobanking of gonadal tissue in cancer patients for fertility preservation. Journal of ovarian research 2015;8: 75.	Paper does not address the key question (ovarian stem cells)
Chen X. An explanation for the true origin of spontaneous pregnancies after subcutaneous ovarian transplantation. Fertility and sterility 2011;95: e50; author reply e51.	Author reply
Chiti MC, Donnez J, Andrade Amorim C, Dolmans MM. From Isolation of human ovarian follicles to the artificial ovary: tips and tricks. Minerva ginecologica 2018.	Full text not available
Courbiere B, Prebet T, Mozziconacci MJ, Metzler-Guillemain C, Saias-Magnan J, Gamerre M. Tumor cell contamination in ovarian tissue cryopreserved before gonadotoxic treatment: should we systematically exclude ovarian autograft in a cancer survivor? Bone marrow transplantation 2010;45: 1247-1248.	Included in review Bastings 2013
Demeestere I, Simon P, Englert Y, Delbaere A. Preliminary experience of ovarian tissue cryopreservation procedure: alternatives, perspectives and feasibility. Reproductive biomedicine online 2003;7: 572-579.	More recent reviews available
Dittrich R, Lotz L, Keck G, Hoffmann I, Mueller A, Beckmann MW, van der Ven H, Montag M. Live birth after ovarian tissue autotransplantation following overnight transportation before cryopreservation. Fertility and sterility 2012;97: 387-390.	Included in review Bastings 2013
Dittrich R, Mueller A, Binder H, Oppelt PG, Renner SP, Goecke T, Hoffmann I, Beckmann WM. First retransplantation of cryopreserved ovarian tissue following cancer therapy in Germany. Deutsches Arzteblatt international 2008;105: 274-278.	Included in review Bastings 2013
Dittrich R, Mueller A, Maltaris T, Hoffmann I, Magener A, Oppelt PG, Beckmann MW. Hormonal and histologic findings in human cryopreserved ovarian autografts. Fertility and sterility 2009;91: 1503–1506.	Included in review Bastings 2013
Dolmans MM, Masciangelo R. Risk of transplanting malignant cells in cryopreserved ovarian tissue. Minerva ginecologica 2018.	Full text not available
Donnez J, Dolmans MM, Pirard C, Van Langendonckt A, Demylle D, Jadoul P, Squifflet J. Allograft of ovarian cortex between two genetically non-identical sisters: case report. Human reproduction (Oxford, England) 2007;22: 2653-2659.	Case report of an heterologous OTG between twin sisters with compatible HLA
Donnez J, Dolmans MM. Cryopreservation of ovarian tissue: an overview. Minerva medica 2009;100: 401-413.	Full text not available
Donnez J, Dolmans MM. Transplantation of ovarian tissue. Best practice & research Clinical obstetrics & gynaecology 2014;28: 1188-1197.	Description of the different techniques, and the possibility of allografting in case of previous bone marrow transplantation
Donnez J, Squifflet J, Dolmans MM. Frozen-thawed ovarian tissue retransplants. Seminars in reproductive medicine 2009;27: 472-478.	Full text not available
Fleury, A., et al., Breast cancer and ovarian tissue cryopreservation: Review of the literature. J Gynecol Obstet Hum Reprod, 2018. 47(8): p. 351-357.	Narrative review
Gavish Z, Peer G, Roness H, Cohen Y, Meirow D. Follicle activation and 'burn-out' contribute to post-transplantation follicle loss in ovarian tissue grafts: the effect of graft thickness. Human reproduction (Oxford, England) 2015;30: 1003.	Experimental animal model (bovine) to assess how thickness of the ovarian tissue can influence follicular burnout

Helpman   Beiner MF Aviel-Ronen S Perri T Hogen   Jakobson-Setton A Ben-Baruch G Korach	
J. Safety of ovarian conservation and fertility preservation in advanced borderline ovarian tumors. Fertility and sterility 2015;104: 138-144.	Paper does not address the key question (fertility sparing surgery in ovarian cancer)
Helpman L, Yaniv A, Beiner ME, Aviel-Ronen S, Perri T, Ben-Baruch G, Hogen Ben-David L, Jakobson-Setton A, Korach J. Fertility preservation in women with borderline ovarian tumors - how does it impact disease outcome? A cohort study. Acta obstetricia et gynecologica Scandinavica 2017;96: 1300-1306.	Paper does not address the key question
Isachenko V, Isachenko E, Kreienberg R, Woriedh M, Weiss J. Human ovarian tissue cryopreservation: quality of follicles as a criteria of effectiveness. Reproductive biomedicine online 2010:20: 441-442.	More relevant for vitrification vs slow freezing procedures
Jadoul P, Donnez J, Dolmans MM, Squifflet J, Lengele B, Martinez-Madrid B. Laparoscopic ovariectomy for whole human ovary cryopreservation: technical aspects. Fertility and sterility 2007;87: 971-975.	Technical aspects of the wole ovarian sampling
Janse F, Donnez J, Anckaert E, de Jong FH, Fauser BC, Dolmans MM. Limited value of ovarian function markers following orthotopic transplantation of ovarian tissue after gonadotoxic treatment. The Journal of clinical endocrinology and metabolism 2011;96: 1136-1144.	Included in review Bastings 2013
Jeong K, Aslan E, Ozkaya E, Sonmezer M, Oktay K. Ovarian cryopreservation. Minerva medica	Full text not available
Jeve, Y.B., T. Gelbaya, and M. Fatum, Time to consider ovarian tissue cryopreservation for girls with Turner's syndrome: an opinion paper. Hum Reprod Open, 2010, 2010(2): p. bo2016	Paper does not address the
Jia Y, Shi X, Xie Y, Xie X, Wang Y, Li S. Human umbilical cord stem cell conditioned medium versus	Experimental study to test a
serum-free culture medium in the treatment of cryopreserved human ovarian tissues in in-vitro culture: a randomized controlled trial. Stem cell research & therapy 2017;8.	new medium for in ovarian cortex vitro culture -> referred to another question
Kim SS, Battaglia DE, Soules MR. The future of human ovarian cryopreservation and transplantation: fartility and beyond Eartility and starility 200175: 1040-1056	Included in review Bastings
Kim SS. Assessment of long term endocrine function after transplantation of frozen-thawed human ovarian tissue to the heterotopic site: 10 year longitudinal follow-up study. Journal of assisted reproduction and genetics 2012;20: 480-402	Included in review Bastings 2013
Kodama Y, Sameshima H, Ikenoue T, Ikeda T, Kawagoe Y. Successful fresh whole ovarian	Case report of an emergency
Kolp LA, Hubayter Z. Autotransplantation of cryopreserved ovarian tissue: a procedure with	Included in review Bastings
promise, risks, and a need for a registry. Fertility and sterility 2011;95: 1879-1886.	2013 Oncological outcomes after
Grande M, Ignatiadis M, de Azambuja E, Paesmans M, Peccatori FA, Azim HA Jr.Long-term Safety of Pregnancy Following Breast Cancer According to Estrogen Receptor Status.J Natl Cancer Inst. 2018 Apr 1;110(4):426-429.	pregnancies in breast cancer survivors
Lu H, Li J, Wang L, Zhou H, Liu Y, Wang D, Lin Z. Is Ovarian Preservation Feasible in Early-Stage Adenocarcinoma of the Cervix? Medical science monitor : international medical journal of experimental and clinical research 2016;22: 408-414.	Paper does not address the key question (fertility sparing
	surgery/
Macklon KT, Ernst E, Andersen AN, Andersen CY. Cryobanking of human ovarian tissue: Do women still want their tissue stored beyond 5 years? Reproductive biomedicine online 2014;29: 452-456.	Paper does not address the key question ( patient's perspective)
Macklon KT, Ernst E, Andersen AN, Andersen CY. Cryobanking of human ovarian tissue: Do women still want their tissue stored beyond 5 years? Reproductive biomedicine online 2014;29: 452-456. Macklon, K.T., Prevalence of deaths in a cohort of girls and women with cryopreserved ovarian tissue. Acta Obstet Gynecol Scand, 2019. 98(5): p. 625-629.	Paper does not address the key question ( patient's perspective) Paper does not address the key question
Macklon KT, Ernst E, Andersen AN, Andersen CY. Cryobanking of human ovarian tissue: Do women still want their tissue stored beyond 5 years? Reproductive biomedicine online 2014;29: 452-456. Macklon, K.T., Prevalence of deaths in a cohort of girls and women with cryopreserved ovarian tissue. Acta Obstet Gynecol Scand, 2019. 98(5): p. 625-629. Mayerhofer K, Ott J, Nouri K, Stoegbauer L, Fischer EM, Lipovac M, Promberger R, Huber JC. Laparoscopic ovarian tissue harvesting for cryopreservation: an effective and safe procedure for fertility preservation. European journal of obstetrics, gynecology, and reproductive biology 2010:152: 68-72.	Paper does not address the key question ( patient's perspective) Paper does not address the key question Paper does not address the key question (safety aspects of tissue harvesting)
Macklon KT, Ernst E, Andersen AN, Andersen CY. Cryobanking of human ovarian tissue: Do women still want their tissue stored beyond 5 years? Reproductive biomedicine online 2014;29: 452-456. Macklon, KT., Prevalence of deaths in a cohort of girls and women with cryopreserved ovarian tissue. Acta Obstet Gynecol Scand, 2019. 98(5): p. 625-629. Mayerhofer K, Ott J, Nouri K, Stoegbauer L, Fischer EM, Lipovac M, Promberger R, Huber JC. Laparoscopic ovarian tissue harvesting for cryopreservation: an effective and safe procedure for fertility preservation. European journal of obstetrics, gynecology, and reproductive biology 2010;152: 68-72. Meirow D, Hardan I, Dor J, Fridman E, Elizur S, Ra'anani H, Slyusarevsky E, Amariglio N, Schiff E, Rechavi G et al. Searching for evidence of disease and malignant cell contamination in ovarian tissue stored from hematologic cancer patients. Human reproduction 2008;23: 1007-1013.	Paper does not address the key question ( patient's perspective) Paper does not address the key question Paper does not address the key question (safety aspects of tissue harvesting) Included in review Bastings 2013
<ul> <li>Macklon KT, Ernst E, Andersen AN, Andersen CY. Cryobanking of human ovarian tissue: Do women still want their tissue stored beyond 5 years? Reproductive biomedicine online 2014;29: 452-456.</li> <li>Macklon, K.T., Prevalence of deaths in a cohort of girls and women with cryopreserved ovarian tissue. Acta Obstet Gynecol Scand, 2019. 98(5): p. 625-629.</li> <li>Mayerhofer K, Ott J, Nouri K, Stoegbauer L, Fischer EM, Lipovac M, Promberger R, Huber JC. Laparoscopic ovarian tissue harvesting for cryopreservation: an effective and safe procedure for fertility preservation. European journal of obstetrics, gynecology, and reproductive biology 2010;152: 68-72.</li> <li>Meirow D, Hardan I, Dor J, Fridman E, Elizur S, Ra'anani H, Slyusarevsky E, Amariglio N, Schiff E, Rechavi G et al. Searching for evidence of disease and malignant cell contamination in ovarian tissue stored from hematologic cancer patients. Human reproduction 2008;23: 1007-1013.</li> <li>Mhatre P, Mhatre J, Magotra R. Ovarian transplant: a new frontier. Transplantation proceedings 2006;37: 1396-1308</li> </ul>	Paper does not address the key question ( patient's perspective) Paper does not address the key question Paper does not address the key question (safety aspects of tissue harvesting) Included in review Bastings 2013
Macklon KT, Ernst E, Andersen AN, Andersen CY. Cryobanking of human ovarian tissue: Do women still want their tissue stored beyond 5 years? Reproductive biomedicine online 2014;29: 452-456. Macklon, K.T., Prevalence of deaths in a cohort of girls and women with cryopreserved ovarian tissue. Acta Obstet Gynecol Scand, 2019. 98(5): p. 625-629. Mayerhofer K, Ott J, Nouri K, Stoegbauer L, Fischer EM, Lipovac M, Promberger R, Huber JC. Laparoscopic ovarian tissue harvesting for cryopreservation: an effective and safe procedure for fertility preservation. European journal of obstetrics, gynecology, and reproductive biology 2010;152: 68-72. Meirow D, Hardan I, Dor J, Fridman E, Elizur S, Ra'anani H, Slyusarevsky E, Amariglio N, Schiff E, Rechavi G et al. Searching for evidence of disease and malignant cell contamination in ovarian tissue stored from hematologic cancer patients. Human reproduction 2008;23: 1007-1013. Mhatre P, Mhatre J, Magotra R. Ovarian transplant: a new frontier. Transplantation proceedings 2005;37: 1396-1398. Morewood T, Getreu N, Fuller B, Morris J, Hardiman P. The effect of thawing protocols on follicle conservation in human ovarian tissue cryopreservation. Cryo letters 2017;38: 137-144.	Paper does not address the key question ( patient's perspective) Paper does not address the key question Paper does not address the key question (safety aspects of tissue harvesting) Included in review Bastings 2013 Full text not available
<ul> <li>Macklon KT, Ernst E, Andersen AN, Andersen CY. Cryobanking of human ovarian tissue: Do women still want their tissue stored beyond 5 years? Reproductive biomedicine online 2014;29: 452-456.</li> <li>Macklon, KT., Prevalence of deaths in a cohort of girls and women with cryopreserved ovarian tissue. Acta Obstet Gynecol Scand, 2019, 98(5): p. 625-629.</li> <li>Mayerhofer K, Ott J, Nouri K, Stoegbauer L, Fischer EM, Lipovac M, Promberger R, Huber JC. Laparoscopic ovarian tissue harvesting for cryopreservation: an effective and safe procedure for fertility preservation. European journal of obstetrics, gynecology, and reproductive biology 2010;152: 68-72.</li> <li>Meirow D, Hardan I, Dor J, Fridman E, Elizur S, Ra'anani H, Slyusarevsky E, Amariglio N, Schiff E, Rechavi G et al. Searching for evidence of disease and malignant cell contamination in ovarian tissue stored from hematologic cancer patients. Human reproduction 2008;23: 1007-1013.</li> <li>Mhatre P, Mhatre J, Magotra R. Ovarian transplant: a new frontier. Transplantation proceedings 2005;37: 1396-1398.</li> <li>Morewood T, Getreu N, Fuller B, Morris J, Hardiman P. The effect of thawing protocols on follicle conservation in human ovarian tissue cryopreservation. Cryo letters 2017;38: 137-144.</li> <li>Nakamura Y, Obata R, Okuyama N, Aono N, Hashimoto T, Kyono K. Residual ethylene glycol and dimethyl sulphoxide concentration in human ovarian tissue during warming/thawing steps following cryopreservation. Reproductive biomedicine online 2017;35: 311-313.</li> </ul>	Paper does not address the key question ( patient's perspective) Paper does not address the key question Paper does not address the key question (safety aspects of tissue harvesting) Included in review Bastings 2013 Full text not available Paper does not address the key question
<ul> <li>Macklon KT, Ernst E, Andersen AN, Andersen CY. Cryobanking of human ovarian tissue: Do women still want their tissue stored beyond 5 years? Reproductive biomedicine online 2014;29: 452-456.</li> <li>Macklon, K.T., Prevalence of deaths in a cohort of girls and women with cryopreserved ovarian tissue. Acta Obstet Gynecol Scand, 2019. 98(5): p. 625-629.</li> <li>Mayerhofer K, Ott J, Nouri K, Stoegbauer L, Fischer EM, Lipovac M, Promberger R, Huber JC. Laparoscopic ovarian tissue harvesting for cryopreservation: an effective and safe procedure for fertility preservation. European journal of obstetrics, gynecology, and reproductive biology 2010;152: 68-72.</li> <li>Meirow D, Hardan I, Dor J, Fridman E, Elizur S, Ra'anani H, Slyusarevsky E, Amariglio N, Schiff E, Rechavi G et al. Searching for evidence of disease and malignant cell contamination in ovarian tissue stored from hematologic cancer patients. Human reproduction 2008;23: 1007-1013.</li> <li>Mhatre P, Mhatre J, Magotra R. Ovarian transplant: a new frontier. Transplantation proceedings 2005;37: 1396-1398.</li> <li>Morewood T, Getreu N, Fuller B, Morris J, Hardiman P. The effect of thawing protocols on follicle conservation in human ovarian tissue cryopreservation. Cryo letters 2017;38: 137-144.</li> <li>Nakamura Y, Obata R, Okuyama N, Aono N, Hashimoto T, Kyono K. Residual ethylene glycol and dimethyl sulphoxide concentration in human ovarian tissue during warming/thawing steps following cryopreservation. Reproductive biomedicine online 2017;35: 311-313.</li> <li>Oktay K, Buyuk E, Veeck L, Zaninovic N, Xu K, Takeuchi T, Opsahl M, Rosenwaks Z. Embryo development after heterotopic transplantation of cryopreserved ovarian tissue. Lancet 2004;363: 837-840.</li> </ul>	Paper does not address the key question ( patient's perspective) Paper does not address the key question Paper does not address the key question (safety aspects of tissue harvesting) Included in review Bastings 2013 Full text not available Paper does not address the key question Included in review Bastings 2013
<ul> <li>Macklon KT, Ernst E, Andersen AN, Andersen CY. Cryobanking of human ovarian tissue: Do women still want their tissue stored beyond 5 years? Reproductive biomedicine online 2014;29: 452-456.</li> <li>Macklon, K.T., Prevalence of deaths in a cohort of girls and women with cryopreserved ovarian tissue. Acta Obstet Gynecol Scand, 2019. 98(5): p. 625-629.</li> <li>Mayerhofer K, Ott J, Nouri K, Stoegbauer L, Fischer EM, Lipovac M, Promberger R, Huber JC. Laparoscopic ovarian tissue harvesting for cryopreservation: an effective and safe procedure for fertility preservation. European journal of obstetrics, gynecology, and reproductive biology 2010;152: 68-72.</li> <li>Meirow D, Hardan I, Dor J, Fridman E, Elizur S, Ra'anani H, Slyusarevsky E, Amariglio N, Schiff E, Rechavi G et al. Searching for evidence of disease and malignant cell contamination in ovarian tissue stored from hematologic cancer patients. Human reproduction 2008;23: 1007-1013.</li> <li>Mhatre P, Mhatre J, Magotra R. Ovarian transplant: a new frontier. Transplantation proceedings 2005;37: 1396-1398.</li> <li>Morewood T, Getreu N, Fuller B, Morris J, Hardiman P. The effect of thawing protocols on follicle conservation in human ovarian tissue cryopreservation. Cryo letters 2017;38: 137-144.</li> <li>Nakamura Y, Obata R, Okuyama N, Aono N, Hashimoto T, Kyono K. Residual ethylene glycol and dimethyl sulphoxide concentration in human ovarian tissue during warming/thawing steps following cryopreservation. Reproductive biomedicine online 2017;35: 311-313.</li> <li>Oktay K, Buyuk E, Veeck L, Zaninovic N, Xu K, Takeuchi T, Opsahl M, Rosenwaks Z. Embryo development after heterotopic transplantation of cryopreserved ovarian tissue. Lancet 2004;363: 837-840.</li> <li>Oktay K, Economos K, Kan M, Rucinski J, Veeck L, Rosenwaks Z. Endocrine function and oocyte retrieval after autologous transplantation of ovarian cortical strips to the forearm. Jama 2001;286: 1490-1493.</li> </ul>	Paper does not address the key question ( patient's perspective) Paper does not address the key question Paper does not address the key question (safety aspects of tissue harvesting) Included in review Bastings 2013 Full text not available Paper does not address the key question Included in review Bastings 2013 Case report (2 patients having had an ovarian tissue transplantation in the forearm and had revored their menstrual cycle)
<ul> <li>Macklon KT, Ernst E, Andersen AN, Andersen CY. Cryobanking of human ovarian tissue: Do women still want their tissue stored beyond 5 years? Reproductive biomedicine online 2014;29: 452-456.</li> <li>Macklon, K.T., Prevalence of deaths in a cohort of girls and women with cryopreserved ovarian tissue. Acta Obstet Gynecol Scand, 2019. 98(5): p. 625-629.</li> <li>Mayerhofer K, Ott J, Nouri K, Stoegbauer L, Fischer EM, Lipovac M, Promberger R, Huber JC. Laparoscopic ovarian tissue harvesting for cryopreservation: an effective and safe procedure for fertility preservation. European Journal of obstetrics, gynecology, and reproductive biology 2010;152: 68-72.</li> <li>Meirow D, Hardan I, Dor J, Fridman E, Elizur S, Ra'anani H, Slyusarevsky E, Amariglio N, Schiff E, Rechavi G et al. Searching for evidence of disease and malignant cell contamination in ovarian tissue stored from hematologic cancer patients. Human reproduction 2008;23: 1007-1013.</li> <li>Mhatre P, Mhatre J, Magotra R. Ovarian transplant: a new frontier. Transplantation proceedings 2005;37: 1396-1398.</li> <li>Morewood T, Getreu N, Fuller B, Morris J, Hardiman P. The effect of thawing protocols on follicle conservation in human ovarian tissue cryopreservation. Cryo letters 2017;38: 137-144.</li> <li>Nakamura Y, Obata R, Okuyama N, Aono N, Hashimoto T, Kyono K. Residual ethylene glycol and dimethyl sulphoxide concentration in human ovarian tissue during warming/thawing steps following cryopreservation. Reproductive biomedicine online 2017;35: 311-313.</li> <li>Oktay K, Economos K, Kan M, Rucinski J, Veeck L, Rosenwaks Z. Endocrine function and oocyte retrieval after autologous transplantation of ovarian cortical strips to the forearm. Jama 2001;286: 1490-1493.</li> <li>Olsthoorn-Heim E, de Wert G. Ovarian tissue cryopreservation: promises and uncertainties. European journal of health law 2009;36: 173-183.</li> </ul>	Paper does not address the key question ( patient's perspective) Paper does not address the key question Paper does not address the key question (safety aspects of tissue harvesting) Included in review Bastings 2013 Full text not available Paper does not address the key question Included in review Bastings 2013 Case report (2 patients having had an ovarian tissue transplantation in the forearm and had revored their menstrual cycle) Normative questions on OTC -> referred to another question
<ul> <li>Macklon KT, Ernst E, Andersen AN, Andersen CY. Cryobanking of human ovarian tissue: Do women still want their tissue stored beyond 5 years? Reproductive biomedicine online 2014;29: 452-456.</li> <li>Macklon, K.T., Prevalence of deaths in a cohort of girls and women with cryopreserved ovarian tissue. Acta Obstet Gynecol Scand, 2019. 98(5): p. 625-629.</li> <li>Mayerhofer K, Ott J, Nouri K, Stoegbauer L, Fischer EM, Lipovac M, Promberger R, Huber JC. Laparoscopic ovarian tissue harvesting for cryopreservation: an effective and safe procedure for fertility preservation. European journal of obstetrics, gynecology, and reproductive biology 2013;52: 68-72.</li> <li>Meirow D, Hardan I, Dor J, Fridman E, Elizur S, Ra'anani H, Slyusarevsky E, Amariglio N, Schiff E, Rechavi G et al. Searching for evidence of disease and malignant cell contamination in ovarian tissue stored from hematologic cancer patients. Human reproduction 2008;23: 1007-1013.</li> <li>Mhatre P, Mhatre J, Magotra R. Ovarian transplant: a new frontier. Transplantation proceedings 2005;37: 1396-1398.</li> <li>Morewood T, Getreu N, Fuller B, Morris J, Hardiman P. The effect of thawing protocols on follicle conservation in human ovarian tissue cryopreservation. Cryo letters 2017;38: 137-144.</li> <li>Nakamura Y, Obata R, Okuyama N, Aono N, Hashimoto T, Kyono K, Residual ethylene glycol and dimethyl sulphoxide concentration in human ovarian tissue during warming/thawing steps following cryopreservation. Reproductive biomedicine online 2017;35: 311-313.</li> <li>Oktay K, Buyuk E, Veeck L, Zaninovic N, Xu K, Takeuchi T, Opsahl M, Rosenwaks Z. Embryo development after heterotopic transplantation of cryopreservation: promises and uncertainties. 1490-1493.</li> <li>Olsthoorm-Heim E, de Wert G. Ovarian tissue cryopreservation: promises and uncertainties. European journal of health law 2003;16: 173-183.</li> <li>Ott J, Nouri K, Stogbauer L, Fischer EM, Lipovac M, Promberger R, Huber JC, Mayerhofer K. Ovarian tissue c</li></ul>	Paper does not address the key question ( patient's perspective) Paper does not address the key question Paper does not address the key question (safety aspects of tissue harvesting) Included in review Bastings 2013 Full text not available Paper does not address the key question Included in review Bastings 2013 Case report (2 patients having had an ovarian tissue transplantation in the forearm and had revored their menstrual cycle) Normative questions on OTC -> referred to another question Retrospective cohort of 7 patients undergoing OTC for benign diseases -> referred to another question

Ovarian tissue cryopreservation and transplantation among alternatives for fertility preservation in the Nordic countries - compilation of 20 years of multicenter experience. Acta obstetricia ET gynecologica scandinavica 95 (9) (pp 1015-1026), 2016 Date of publication: 01 sep 2016 2016.	complication is not the primary questioned topic
Pavone ME, Hirshfeld-Cytron J, Tingen C, Thomas C, Thomas J, Lowe MP, Schink JC, Woodruff TK. Human ovarian tissue cortex surrounding benign and malignant lesions. Reproductive sciences 2014;21: 582-589.	Study does not address the key question (Monocentric study on ovarian reserve in pathology after an ovariectomy for oncological or non oncological reasons)
Pereira N, Hubschmann AG, Lekovich JP, Schattman GL, Rosenwaks Z. Ex vivo retrieval and cryopreservation of oocytes from oophorectomized specimens for fertility preservation in a BRCA1 mutation carrier with ovarian cancer. Fertility and sterility 2017;108: 357–360.	Paper does not address the key question
Rodriguez-Wallberg KA, Karlstrom PO, Rezapour M, Castellanos E, Hreinsson J, Rasmussen C, Sheikhi M, Ouvrier B, Bozoky B, Olofsson JI et al. Full-term newborn after repeated ovarian tissue transplants in a patient treated for Ewing sarcoma by sterilizing pelvic irradiation and chemotherapy. Acta obstetricia et gynecologica Scandinavica 2015;94: 324-328.	Case report
Rosendahl M, Andersen CY, Ernst E, Westergaard LG, Rasmussen PE, Loft A, Andersen AN. Ovarian function after removal of an entire ovary for cryopreservation of pieces of cortex prior to gonadotoxic treatment: a follow-up study. Human reproduction (Oxford, England) 2008;23: 2475-2483.	Prospective follow-up of patients having undergone OCT for oncological reasons -> referred to another question
Rosendahl M, Greve T, Andersen CY. The safety of transplanting cryopreserved ovarian tissue in cancer patients: a review of the literature. Journal of assisted reproduction and genetics 2013;30: 11-24.	A more recent review is available
Ruan, X., Chinese Society of Gynecological Endocrinology affiliated to the International Society of Gynecological Endocrinology Guideline for Ovarian Tissue Cryopreservation and Transplantation. Gynecol Endocrinol, 2018. 34(12): p. 1005-1010.	Guideline
Salama M, Woodruff TK. New advances in ovarian autotransplantation to restore fertility in cancer patients. Cancer metastasis reviews 2015;34: 807-822.	State of the art of OTT. Review mainly considers guidelines and other reviews
Sanchez M, Alama P, Gadea B, Soares SR, Simon C, Pellicer A. Fresh human orthotopic ovarian cortex transplantation: long-term results. Human reproduction (Oxford, England) 2007;22: 786-791.	Horthotopic transplantation of fresh ovarian tissue - not discussed
Schmidt KL, Andersen CY, Loft A, Byskov AG, Ernst E, Andersen AN. Follow-up of ovarian function post-chemotherapy following ovarian cryopreservation and transplantation. Human reproduction (Oxford, England) 2005;20: 3539-3546.	Included in review Bastings 2013
Schmidt KT, Nyboe Andersen A, Greve T, Ernst E, Loft A, Yding Andersen C. Fertility in cancer patients after cryopreservation of one ovary. Reproductive biomedicine online 2013;26: 272-279.	Paper does not address the key question
Siebzehnrubl E. Cryopreservation of ovarian tissue to preserve female fertility - state of the art. Andrologia 2003;35: 180-181.	More recent reviews available
Silber S, Pineda J, Lenahan K, DeRosa M, Melnick J. Fresh and cryopreserved ovary transplantation and resting follicle recruitment. Reproductive biomedicine online 2015;30: 643-650.	Paper does not address the key question (Description on the recovery of ovarian function and on the efficacy of the technique on 22 patients having had ovarian tissue trasplantation)
Sorensen SD, Greve T, Wielenga VT, Wallace WH, Andersen CY. Safety considerations for transplanting cryopreserved ovarian tissue to restore fertility in female patients who have recovered from Ewing's sarcoma. Future oncology 2014;10: 277-283.	Full text not available
Wallace WH, Kelsey TW, Anderson RA. Ovarian cryopreservation: experimental or established and a cure for the menopause? Reproductive biomedicine online 2012;25: 93-95.	Narrative review including further developments
Wallace WH, Pritchard J. Livebirth after cryopreserved ovarian tissue autotransplantation. Lancet 2004;364: 2093-2094.	Included in review Bastings 2013
Yang Y, Cheung HH, Law WN, Zhang C, Chan WY, Pei X, Wang Y. New Insights into the Role of Autophagy in Ovarian Cryopreservation by Vitrification. Biology of reproduction 2016;94: 137.	Paper does not address the key question (Role of autofagy in follicular depletion when vitrification is used)
Yding Andersen C, Ernst E, Baerentzen S, Birkebaek NH, Clausen N. No malignancy detected in surplus ovarian tissue from a former Ewing sarcoma patient who experienced relapse four years after being grafted with frozen/thawed ovarian tissue. Journal of assisted reproduction and genetics 2014;31: 1567-1568.	Case report
Zver T, Alvergnas-Vieille M, Garnache-Ottou F, Roux C, Amiot C. A new method for evaluating the risk of transferring leukemic cells with transplanted cryopreserved ovarian tissue. Journal of assisted reproduction and genetics 2015;32: 1263-1266.	Technical aspects (Leukemic cells detection method)

# Q16 Should In vitro maturation (IVM) vs. no intervention be used for fertility preservation?

DATABASE	Search string
PUBMED MERGED SEARCH TERM	("Neoplasms" [Mesh] OR Cancer OR tumor OR neoplasm OR malignancy OR neoplasms OR "Systemic lupus erythematosus" OR "Lupus Erythematosus, Systemic" [Mesh] OR "Behcet's disease" OR "Behcet Syndrome" [Mesh] OR "Churg-Strauss syndrome" OR "Churg-Strauss Syndrome" [Mesh] OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" OR "Glomerulonephritis" [Mesh] OR "Granulomatosis with polyangiitis" OR "Wegener's granulomatosis" OR "Granulomatosis with Polyangiitis" [Mesh] OR "Inflammatory bowel diseases" OR "Crohn Disease" OR "ulcerative colitis" OR "Inflammatory Bowel Diseases" [Mesh] OR "Arthritis, Rheumatoid" [Mesh] OR "Rheumatoid arthritis" OR "Pemphigus vulgaris" OR "Pemphigus" [Mesh] OR "Autoimmune Diseases" [Mesh] OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR "Autoimmune Diseases" [Mesh] OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR "Autoimmune Diseases" [Mesh] OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR "Autoimmune Diseases" [Mesh] OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR "Anternia" [Mesh] OR "sickle cell anaemia" OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR "Anternia" [Mesh] OR "sickle cell anaemia" OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR "Anternia" [Mesh] OR "sickle cell anaemia" OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR "sickle cell anaemia" OR "Haematological diseases" OR "Hematologic Diseases" [Mesh] OR "sickle cell anaemia" OR "Haematological OR "Benign ovarian tumours" OR "Mosaic Turner's syndrome" OR "Calactosemias" [Mesh] OR "Fragile X Mental Retardation 1" OR "Fragile X Syndrome" [Mesh] OR "Endometriosis" [Mesh] OR "Calactosemias" [Mesh] OR "Beta-thalassaemia" OR "beta-Thalassemia" [Mesh] OR "Endometriosis" [Mesh] OR "age-related fertility decline" OR "social freezing" OR "nonmedical freezing" OR "social egg-freezing " OR "Elective freezing" OR ('Fertility Preservation" [Mesh] OR "Fertility Preservation" (AND ('I
COCHRANE MERGED	(Cancer OR tumor OR neoplasm OR malignancy OR neoplasms OR "Systemic lupus erythematosus" OR "Behcet's disease" OR "Behcet Syndrome" OR "Churg-Strauss syndrome" OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" OR "Granulomatosis with polyangiitis" OR "Wegener's granulomatosis" OR "Inflammatory bowel diseases" OR "Autoimmune Disease" OR "lucerative colitis" OR "Rheumatoid arthritis" OR "Pemphigus vulgaris" OR "Pemphigus" OR "Autoimmune Diseases" OR "Haematological diseases" OR "Anemia" OR "Stele cell anaemia" OR "thalassaemia major" OR "plastic anaemia" OR "Altered hypothalamic-pituitary-gonadal axis" OR "Ovarian oophoritis" OR "Oophoritis" OR "Fragile X Syndrome" OR Galactosaemia OR "Galactosemias" OR "Beta-thalassaemia" OR "Endometriosis" OR "Transgender Persons" OR Transgender OR Transsexual OR "anticipated gamete exhaustion" OR "acted to Rectine" OR "Social freezing" OR "Beta-tility Pecering" OR "Elective freezing" OR "Fertility Preservation") AND ("In Vitro Oocyte Maturation Techniques" OR "In Vitro Maturation" OR "ex vivo maturation" OR "Ex vivo IVM")


Reference	Exclusion criterium
Virant-Klun I, Bauer C, Stahlberg A, Kubista M, Skutella T. Human oocyte maturation in vitro is improved by co-culture with cumulus cells from mature oocytes. Reproductive biomedicine online 2018;36: 508–523.	Relevant patients/intervention not included
Yang ZY, Chian RC. Development of in vitro maturation techniques for clinical applications. Fertility and sterility 2017;108: 577–584.	Relevant patients/intervention not included
Zhang Z, Wang T, Hao Y, Panhwar F, Chen Z, Zou W, Ji D, Chen B, Zhou P, Zhao G et al. Effects of trehalose vitrification and artificial oocyte activation on the development competence of human immature oocytes. Cryobiology 2017;74: 43-49.	Relevant patients/intervention not included
Ben-Haroush A, Abir R, Sapir O, Garor R, Fisch B. Aspiration of immature oocytes during cesarean section for fertility preservation. The journal of maternal-fetal & neonatal medicine : the official journal of the European Association of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies, the International Society of Perinatal Obstet 2017;30: 2112-2114.	Relevant patients/intervention not included
Sifer C, Sellam-Chokron O, Sermondade N, Cedrin-Durnerin I, Sonigo C, Herbemont C, Grynberg M. Should metaphase 1 and 2 stages oocytes be vitrified in the same time for fertility preservation? Future oncology (London, England) 2016;12: 2297-2305.	Relevant patients/intervention not included
Robertson DM, Gilchrist RB, Ledger WL, Baerwald A. Random start or emergency IVF/in vitro maturation: a new rapid approach to fertility preservation. Women's health (London, England) 2016;12: 339-349.	Relevant outcomes are not (appropriately) assessed
Phoon W, Olofsson J, Barbunopulos L, Menezes J, Tohonen V, Rodriguez-Wallberg K. Exploring the fertility potential of GV-retrieved oocytes for future fertility preservation. Human reproduction Conference: 32nd annual meeting of the ESHRE Finland 2016;31: i338.	Conference abstract
Sonigo C, Seroka A, Cedrin-Durnerin I, Sermondade N, Sifer C, Grynberg M. History of ABVD alters the number of oocytes vitrified after in vitro maturation in fertility preservation candidates. Future oncology (London, England) 2016;12: 1713-1719.	Publication type : Editorial
Li HJ, Sutton-McDowall ML, Wang X, Sugimura S, Thompson JG, Gilchrist RB. Extending prematuration with cAMP modulators enhances the cumulus contribution to oocyte antioxidant defence and oocyte guality via gap junctions. Human reproduction 2016;31: 810-821.	Relevant patients/intervention not included
Pires-Luis AS, Rocha E, Bartosch C, Oliveira E, Silva J, Barros A, Sa R, Sousa M. A stereological study on organelle distribution in human oocytes at prophase I. Zygote 2016;24: 346-354.	Relevant patients/intervention not included
Plushch G, Schneider E, Schneider T, El Hajj N, Rosner S, Strowitzki T, Haaf T. In vitro maturation of oocytes is not associated with altered deoxyribonucleic acid methylation patterns in children from in vitro fertilization or intracytoplasmic sperm injection. Fertility and sterility 2015;103: 720-727.e721.	Relevant patients/intervention not included
Lee JA, Sekhon L, Grunfeld L, Copperman AB. In-vitro maturation of germinal vesicle and metaphase I eggs prior to cryopreservation optimizes reproductive potential in patients undergoing fertility preservation. Current opinion in obstetrics & gynecology 2014;26: 168-173.	Relevant patients/intervention not included
Adhikari D. In vitro activation of dormant follicles for fertility preservation. Advances in experimental medicine and biology 2013;761: 29-42.	Relevant intervention not included
Liebenthron J, Koster M, Drengner C, Reinsberg J, van der Ven H, Montag M. The impact of culture conditions on early follicle recruitment and growth from human ovarian cortex biopsies in vitro. Fertility and sterility 2013;100: 483-491.e485.	Not relevant for this key question
Imesch P, Scheiner D, Xie M, Fink D, Macas E, Dubey R, Imthurn B. Developmental potential of human oocytes matured in vitro followed by vitrification and activation. Journal of ovarian research 2013;6: 30.	Small case series with suboptimal protocol
Lee JA, Barritt J, Moschini RM, Slifkin RE, Copperman AB. Optimizing human oocyte cryopreservation for fertility preservation patients: should we mature then freeze or freeze then mature? Fertility and sterility 2013;99: 1356-1362.	Relevant patients/intervention not included
Berwanger AL, Finet A, El Hachem H, le Parco S, Hesters L, Grynberg M. New trends in female fertility preservation: in vitro maturation of oocytes. Future oncology 2012;8: 1567-1573.	Narrative review
Fabbri R, Pasquinelli G, Parazza I, Macciocca M, Magnani V, Battaglia C, Paradisi R, Venturoli S. Effects of cyclic increase in gonadotropins on the in vitro development of primordial follicles to antral stage. Ultrastructural pathology 2012;36: 356-361.	Relevant patients/intervention not included
Wang H, Racowsky C, Combelles CM. Is it best to cryopreserve human cumulus-free immature oocytes before or after in vitro maturation? Cryobiology 2012;65: 79-87.	Relevant patients/intervention not included
Smitz JE, Thompson JG, Gilchrist RB. The promise of in vitro maturation in assisted reproduction and fertility preservation. Seminars in reproductive medicine 2011;29: 24-37.	Relevant patients/intervention not included
Ata B, Shalom-Paz E, Chian RC, Tan SL. In vitro maturation of oocytes as a strategy for fertility preservation. Clinical obstetrics and gynecology 2010;53: 775-786.	Relevant patients/intervention not included
Oktay K, Buyuk E, Rodriguez-Wallberg KA, Sahin G. In vitro maturation improves oocyte or embryo cryopreservation outcome in breast cancer patients undergoing ovarian stimulation for fertility preservation. Reproductive biomedicine online 2010;20: 634-638.	Relevant patients/intervention not included
Martins WP, Nastri CO, Reis RM, Ferriani RA. Endometrial preparation for in vitro maturation treatment. Fertility and sterility 2010;93: e6; author reply e7.	Relevant patients/intervention not included
Son WY, Chung JT, Gidoni Y, Holzer H, Levin D, Chian RC, Tan SL. Comparison of survival rate of cleavage stage embryos produced from in vitro maturation cycles after slow freezing and after vitrification. Fertility and sterility 2009;92: 956–958.	Relevant patients/intervention not included
Oktay K, Demirtas E, Son WY, Lostritto K, Chian RC, Tan SL. In vitro maturation of germinal vesicle oocytes recovered after premature luteinizing hormone surge: description of a novel approach to fertility preservation. Fertility and sterility 2008;89: 228.e219-222.	Relevant patients/intervention not included
Hashimoto S, Fukuda A, Murata Y, Kikkawa M, Oku H, Kanaya H, Sonoda M, Sugihara K, Murata T, Nagata F et al. Effect of aspiration vacuum on the developmental competence of immature human oocytes retrieved using a 20-gauge needle. Reproductive biomedicine online 2007:14: 444-449.	Relevant patients/intervention not included

Huang JY, Buckett WM, Gilbert L, Tan SL, Chian RC. Retrieval of immature oocytes followed by in vitro maturation and vitrification: a case report on a new strategy of fertility preservation in women with borderline ovarian malignancy. Gynecologic oncology 2007;105: 542-544.	Relevant patients/intervention not included
Abir R, Nitke S, Ben-Haroush A, Fisch B. In vitro maturation of human primordial ovarian follicles: clinical significance, progress in mammals, and methods for growth evaluation. Histology and histopathology 2006;21: 887-898.	Relevant patients/intervention not included
Gosden RG. Prospects for oocyte banking and in vitro maturation. Journal of the National Cancer Institute Monographs 2005; 60-63.	Relevant patients/intervention not included
Beerendonk CC, Braat DD. Present and future options for the preservation of fertility in female adolescents with cancer. Endocrine development 2005;8: 166-175.	Outdated
Child TJ, Gulekli B, Sylvestre C, Tan SL. Ultrasonographic assessment of endometrial receptivity at embryo transfer in an in vitro maturation of oocyte program. Fertility and sterility 2003;79: 656-658.	Relevant patients/intervention not included
Wu J, Zhang L, Wang X. In vitro maturation, fertilization and embryo development after ultrarapid freezing of immature human oocytes. Reproduction (Cambridge, England) 2001;121: 389-393.	Outdated
Chng MW, Lau MS, Chan M, Tan HH, Nadarajah S. Overnight maturation of a metaphase I oocyte retrieved from a natural cycle using human tubular fluid: a case report. Journal of assisted reproduction and genetics 2013;30: 77-79.	Relevant patients/intervention not included
Reichman DE, Davis OK, Zaninovic N, Rosenwaks Z, Goldschlag DE. Fertility preservation using controlled ovarian hyperstimulation and oocyte cryopreservation in a premenarcheal female with myelodysplastic syndrome. Fertility and sterility 2012;98: 1225-1228.	Relevant patients/intervention not included
Sato C, Shimada M, Mori T, Kumasako Y, Otsu E, Watanabe H, Utsunomiya T. Assessment of human oocyte developmental competence by cumulus cell morphology and circulating hormone profile. Reproductive biomedicine online 2007;14: 49–56.	Relevant patients/intervention not included
Kristensen SG, Pors SE, Andersen CY. Improving oocyte quality by transfer of autologous mitochondria from fully grown oocytes. Human reproduction (Oxford, England) 2017;32: 725-732.	Relevant patients/intervention not included
Safian F, Khalili MA, Karimi-Zarchi M, Mohsenzadeh M, Ashourzadeh S, Omidi M. Developmental competence of immature oocytes aspirated from antral follicles in patients with gynecological diseases. Iranian journal of reproductive medicine 2015;13: 507-512.	Relevant outcomes are not (appropriately) assessed
Palmerini MG, Antinori M, Maione M, Cerusico F, Versaci C, Nottola SA, Macchiarelli G, Khalili MA, Antinori S. Ultrastructure of immature and mature human oocytes after cryotop vitrification. The Journal of reproduction and development 2014;60: 411-420.	Relevant outcomes are not (appropriately) assessed
Telfer EE, Zelinski MB. Ovarian follicle culture: advances and challenges for human and nonhuman primates. Fertility and sterility 2013;99: 1523-1533.	Narrative review
Kim JY. Control of ovarian primordial follicle activation. Clinical and experimental reproductive medicine 2012;39: 10-14.	Not relevant for the key question
Dahoun, M., et al., Does oxygen tension influence in vitro maturation of human, oocytes in a fertility preservation program? Preliminary results of a, prospective auto-controlled study. Human _ reproduction (Oxford, England), 2018. 33: p. i372-i373.	Conference abstract
Hart, R.J., Optimizing the opportunity for female fertility preservation in a limited time-frame for patients with cancer using in vitro maturation and ovarian tissue cryopreservation. Fertil Steril, 2019. 111(2): p. 258-259.	Opinion paper
Mohsenzadeh, M., et al., Vitrification has detrimental effects on maturation, viability, and subcellular quality of oocytes post IVM in cancerous women: An experimental study. Int J Reprod Biomed (Yazd), 2019. 17(3).	Few data with large range of patients age , low impact
Sanchez, F., et al., Biphasic in vitro maturation (CAPA-IVM) specifically improves the developmental capacity of oocytes from small antral follicles. J Assist Reprod Genet, 2019. 36(10): p. 2135-2144.	Relevant patients are not included
Saenz-de-Juano, M.D., et al., DNA methylation and MRNA expression of imprinted genes in blastocysts derived from an improved in vitro maturation method for oocytes from small antral _follicles in polycystic ovary syndrome patients. Hum Reprod, 2019. 34(9): p. 1640-1649.	Relevant patients are not included
Roesner, S., et al., Successful in vitro maturation for urgent fertility preservation despite hormonal contraception by continuous progestin application. Gynecol Endocrinol, 2019. 35(4): p. 298-300.	Case report
Yang, S.H., et al., Improvement of embryonic development and clinical outcomes of germinal vesicle stage oocytes using a microvibration culture system. Syst Biol Reprod Med, 2019. 65(4): p333-341.	Relevant patients are not included
Fabbri, R., et al., Update on oogenesis in vitro. Minerva Ginecol, 2018. 70(5): p. 588-608.	Review
Karavani, G., et al., In vitro maturation rates in young premenarche patients. Fertil Steril, 2019. 112(2): p. 315-322.	Relevant patients are not included
Ata B, Chian RC, Tan SL. Cryopreservation of oocytes and embryos for fertility preservation for female cancer patients. Best practice & research Clinical obstetrics & gynaecology 2010;24: 101-112.	Narrative review
Azem F, Hasson J, Cohen T, Shwartz T, Mey-Raz N, Almog B, Amit A, Ben-Yosef D. Retrieval of immature oocytes after chemotherapy for Hodgkin's disease and prolonged ovarian down- regulation with gonadotropin-releasing hormone agonist. Fertility and sterility 2009;92: 828.e821- 822.	Case report
Brambillasca F, Guglielmo MC, Coticchio G, Mignini Renzini M, Dal Canto M, Fadini R. The current challenges to efficient immature oocyte cryopreservation. Journal of assisted reproduction and genetics 2013;30: 1531-1539.	Narrative review on the effect of freezing on oocyte quality
Cao YX, Chian RC. Fertility preservation with immature and in vitro matured oocytes. Seminars in reproductive medicine 2009;27: 456-464.	Narrative review
Chian RC, Uzelac PS, Nargund G. In vitro maturation of human immature oocytes for fertility preservation. Fertility and sterility 2013;99: 1173-1181.	Narrative review
Das M, Shehata F, Son WY, Tulandi T, Holzer H. Ovarian reserve and response to IVF and in vitro maturation treatment following chemotherapy. Human reproduction 2012;27: 2509-2514.	IVM treatment after chemotherapy (not FP)
Fadini R, Dal Canto M, Mignini Renzini M, Milani R, Fruscio R, Cantu MG, Brambillasca F, Coticchio G. Embryo transfer following in vitro maturation and cryopreservation of oocytes recovered from	Case report

antral follicles during conservative surgery for ovarian cancer. Journal of assisted reproduction and genetics 2012;29: 779-781.	
Huang JY, Chian RC, Gilbert L, Fleiszer D, Holzer H, Dermitas E, Elizur SE, Gidoni Y, Levin D, Son WY et al. Retrieval of immature oocytes from unstimulated ovaries followed by in vitro maturation and vitrification: A novel strategy of fertility preservation for breast cancer patients. American journal of surgery 2010;200: 177-183.	Paper does not provide relevant information to answer the key question
Mohsenzadeh M, Khalili MA, Tabibnejad N, Yari N, Agha-Rahimi A, Karimi-Zarchi M. Embryo Cryopreservation Following In-Vitro Maturation for Fertility Preservation in a Woman with Mullerian Adenosarcoma: A Case Report. Journal of human reproductive sciences 2017;10: 138-141.	Case report
Molina I, Gomez J, Balasch S, Pellicer N, Novella-Maestre E. Osmotic-shock produced by vitrification solutions improves immature human oocytes in vitro maturation. Reproductive biology and endocrinology : RB&E 2016;14: 27.	Low quality study
Park CW, Lee SH, Yang KM, Lee IH, Lim KT, Lee KH, Kim TJ. Cryopreservation of in vitro matured oocytes after ex vivo oocyte retrieval from gynecologic cancer patients undergoing radical surgery. Clinical and experimental reproductive medicine 2016;43: 119-125.	Small case series, more relevant data available
Revel A, Revel-Vilk S, Aizenman E, Porat-Katz A, Safran A, Ben-Meir A, Weintraub M, Shapira M, Achache H, Laufer N. At what age can human oocytes be obtained? Fertility and sterility 2009;92: 458-463.	Few patients, pubertal girls
Shalom-Paz E, Almog B, Shehata F, Huang J, Holzer H, Chian RC, Son WY, Tan SL. Fertility preservation for breast-cancer patients using IVM followed by oocyte or embryo vitrification. Reproductive biomedicine online 2010;21: 566-571.	Paper does not provide information to answer the key question
Shirasawa H, Kumagai J, Sato W, Kumazawa Y, Sato N, Terada Y. Retrieval and in vitro maturation of human oocytes from ovaries removed during surgery for endometrial carcinoma: a novel strategy for human oocyte research. Journal of assisted reproduction and genetics 2013;30: 1227-1230.	Small case series that does not report on results from embryo transfer
Shirasawa H, Kumazawa Y, Sato W, Ono N, Terada Y. In vitro maturation and cryopreservation of oocytes retrieved from intra-operative aspiration during second enucleation for ovarian tumor. A case report. Gynecologic oncology reports 2017;19: 1-4.	Case report
Shirasawa H, Terada Y. In vitro maturation of human immature oocytes for fertility preservation and research material. Reproductive medicine and biology 2017;16: 258-267.	Narrative review

# Q17 Should GnRH agonists vs. no treatment be used for ovarian protection in patients undergoing gonadotoxic treatment?

### Search strings

DATABASE	Search string
PUBMED MERGED	('Neoplasms'[Mesh] OR Cancer OR tumor OR neoplasm OR malignancy OR neoplasms OR "Systemic lupus erythematosus" OR "Lupus Erythematosus, Systemic"[Mesh] OR "Behcet's disease" OR 'Behcet Syndrome"[Mesh] OR "Churg-Strauss syndrome" OR 'Churg-Strauss Syndrome"[Mesh] OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" OR 'Glomerulonephritis"[Mesh] OR "Granulomatosis with polyangiitis" OR "Wegener's granulomatosis" OR 'Granulomatosis with Polyangiitis"[Mesh] OR 'Inflammatory bowel diseases" OR 'Crohn Disease" OR "ulcerative colitis" OR 'Inflammatory Bowel Diseases"[Mesh] OR 'Arthritis, Rheumatoid'[Mesh] OR "Rheumatoid arthritis" OR "Pemphigus vulgaris" OR 'Pemphigus"[Mesh] OR 'Arthritis, Rheumatoid'[Mesh] OR "Haematological diseases" OR 'Hematologic Diseases"[Mesh] OR 'Anemia'[Mesh] OR "sickle cell anaemia" OR "thalassaemia major" OR "plastic anaemia" OR "Altered hypothalamic-pituitary-gonadal axis" OR 'Ovarian oophoritis" OR 'Oophoritis"[Mesh] OR "Benign ovarian tumours" OR "Mosaic Turner's syndrome" OR 'Turner Syndrome"[Mesh] OR "Fragile X Mental Retardation 1" OR 'Fragile X Syndrome"[Mesh] OR Galactosaemia OR "Endometriosis"] AND ( "Gonadotropin-Releasing Hormone Agonist" OR 'GnRH agonists" OR Triptorelin OR buserelin OR goserelin OR diphereline OR "leuprolide acetate" OR GnRHa) AND ("ovarian suppression" OR "ovarian protection" OR chemotherapy) NOT (prostate OR tamoxifen OR myoma OR fibroids)
COCHRANE	(Cancer OR tumor OR neoplasm OR malignancy OR neoplasms OR "Systemic lupus erythematosus" OR "Behcet's disease" OR 'Behcet Syndrome' OR "Churg-Strauss syndrome" OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" OR "Granulomatosis with polyangiitis" OR "Wegener's granulomatosis" OR "Inflammatory bowel diseases" OR "Cohn Disease" OR "Haematological diseases" OR "Anemia" OR "sickle cell anaemia" OR "halassaemia major" OR "plastic anaemia" OR "Altered hypothalamic-pituitary-gonadal axis" OR "Ovarian ophoritis" OR "Group ovarian tumours" OR "Mosaic Turner's syndrome" OR "Turner Syndrome" OR "Fragile X Mental Retardation 1" OR "Fragile X Syndrome" OR Galactosaemia OR "Galactosemias" OR "Beta-thalassaemia" OR "Endometriosis" AND ("Gonadotropin-Releasing Hormone Agonist" OR "Grigner an suppression" OR "Drotection" OR buserelin OR goserelin OR diphereline OR tamovifen OR GnRHa) AND ("ovarian suppression" OR "Ovarian suppression" OR State O



Reference	Exclusion criterium
Bai F, Lu Y, Wu K, Chen Q, Ding L, Ge M, Weng Z. Protecting Effects of Gonadotropin-Releasing Hormone Agonist on Chemotherapy-Induced Ovarian Damage in Premenopausal Breast Cancer Patients: A Systematic Review and Meta-Analysis. Breast Care (Basel) 2017;12: 48-52.	All the RCTs were included in a meta-analysis (Lambertini 2018)
Bansal A, Patel FD, Rai B, Dhanireddy B, Sharma SC. Gonadotrophin releasing hormone analogues for ovarian function preservation in young females undergoing chemotherapy. Asian Pac J Cancer Prev 2014;15: 2185-2190.	Narrative/systematic review of studies already included in other meta-analyses (Lambertini 2018 & Senra 2018)
Beyer DA, Amari F, Thill M, Schultze-Mosgau A, Al-Hasani S, Diedrich K, Griesinger G. Emerging gonadotropin-releasing hormone agonists. Expert Opin Emerg Drugs 2011;16: 323-340.	Narrative review discussing use of GnRHa for medical purposes; studies already included in other meta-analyses (Lambertini 2018 & Senra 2018)
Blumenfeld Z, Evron A. Endocrine prevention of chemotherapy-induced ovarian failure. Curr Opin Obstet Gynecol 2016;28: 223-229.	Narrative review discussing studies already included in meta-analyses (Lambertini 2018 & Senra 2018)
Blumenfeld Z, Evron A. Preserving fertility when choosing chemotherapy regimens – the role of gonadotropin-releasing hormone agonists. Expert Opin Pharmacother 2015;16: 1009-1020.	Narrative review discussing studies already included in meta-analyses (Lambertini 2018 & Senra 2018)
Chen H, Li J, Cui T, Hu L. Adjuvant gonadotropin-releasing hormone analogues for the prevention of chemotherapy induced premature ovarian failure in premenopausal women. Cochrane Database Syst Rev 2011: Cdo08018.	All the RCTs were included in other larger meta-analyses (Lambertini 2018 & Senra 2018)
Cigni A, Faedda R, Atzeni MM, Pileri PV, Alagna S, Rovasio P, Satta AE, Loi MR, Sini A, Satta V et al. Hormonal strategies for fertility preservation in patients receiving cyclophosphamide to treat glomerulonephritis: a nonrandomized trial and review of the literature. Am J Kidney Dis 2008;52: 887-896.	Included in meta-analysis by Ben- Aharon 2010
Cima LN, Colita A, Fica S. Perspectives on the co-treatment with GnRHa in female patients undergoing hematopoietic stem cell transplantation. Endocr Connect 2017;6: R162-r170.	Narrative review discussing studies already included in meta-analyses (Lambertini 2018 & Senra 2018)
Cui, W., et al., Preventing ovarian failure associated with chemotherapy. Med J Aust, 2018. 209(9): p. 412-416.	Narrative review discussing studies already included in other meta- analyses (Lambertini 2018 & Senra 2018)
Del Mastro L, Ceppi M, Poggio F, Bighin C, Peccatori F, Demeestere I, Levaggi A, Giraudi S, Lambertini M, D'Alonzo A et al. Gonadotropin-releasing hormone analogues for the prevention of chemotherapy-induced premature ovarian failure in cancer women: systematic review and meta- analysis of randomized trials. Cancer Treat Rev 2014;40: 675-683.	All the RCTs were included in other meta-analyses (Lambertini 2018 & Senra 2018)
Elgindy EA, El-Haieg DO, Khorshid OM, Ismail EI, Abdelgawad M, Sallam HN, Abou-Setta AM. Gonadatrophin suppression to prevent chemotherapy-induced ovarian damage: a randomized _controlled trial. Obstet Gynecol 2013;121: 78-86.	RCT already included in the meta- analysis by Lambertini 2018
Hickman LC, Llarena NC, Valentine LN, Liu X, Falcone T. Preservation of gonadal function in women undergoing chemotherapy: a systematic review and meta-analysis of the potential role for gonadotropin-releasing hormone agonists. J Assist Reprod Genet 2018;35: 571-581.	All the RCTs were included in other meta-analyses (Lambertini 2018 & Senra 2018)
Karimi-Zarchi M, Forat-Yazdi M, Vafaeenasab MR, Nakhaie-Moghadam M, Miratashi-Yazdi A, Teimoori S, Dehghani-Tafti A. Evaluation of the effect of GnRH agonist on menstrual reverse in breast cancer cases treated with cyclophosphamide. Eur J Gynaecol Oncol 2014;35: 59–61.	RCT already included in the meta- analysis by Lambertini 2018
Karlsson P, Sun Z, Braun D, Price KN, Castiglione–Gertsch M, Rabaglio M, Gelber RD, Crivellari D, Collins J, Murray E et al. Long-term results of International Breast Cancer Study Group Trial VIII: adjuvant chemotherapy plus goserelin compared with either therapy alone for premenopausal patients with node-negative breast cancer. Ann Oncol 2011;22: 2216–2226.	RCTs assessing antitumor effect of chemotherapy vs. GnRHa vs. chemotherapy followed by GnRHa
Kendzierski DC, Schneider BP, Kiel PJ. Efficacy of Different Leuprolide Administration Schedules in Premenopausal Breast Cancer: A Retrospective Review. Clin Breast Cancer 2018.	Retrospective study evaluating antitumor effect of different schedules of GnRHa (+ AI)
Kim HJ, Lee MH, Lee JE, Park S, Lee ES, Kang YJ, Shin HN, Kim SI, Lee JH, Im SA et al. Oncologic Safety of Gonadotropin-Releasing Hormone Agonist for Ovarian Function Protection During Breast Cancer Chemotherapy. Clin Breast Cancer 2018.	Retrospective study (better evidence available)
Kim I, Ryu JM, Paik HJ, Park S, Bae SY, Lee SK, Yu J, Kim SW, Nam SJ, Lee JE. Fertility Rates in Young Korean Breast Cancer Patients Treated with Gonadotropin-Releasing Hormone and Chemotherapy. J Breast Cancer 2017;20: 91-97.	Retrospective study (better evidence available)
Koga T, Umeda M, Endo Y, Ishida M, Fujita Y, Tsuji S, Takatani A, Shimizu T, Sumiyoshi R, Igawa T et al. Effect of a gonadotropin-releasing hormone analog for ovarian function preservation after intravenous cyclophosphamide therapy in systemic lupus erythematosus patients: a retrospective inception cohort study. Int J Rheum Dis 2018;21: 1287-1292.	Retrospective study (better evidence available)
Lambertini, M., et al., Ovarian Function and Fertility Preservation in Breast Cancer: Should Gonadotropin-Releasing Hormone Agonist be administered to All Premenopausal Patients Receiving Chemotherapy? Clin Med Insights Reprod Health, 2019. 13: p. 1179558119828393.	Narrative review discussing studies already included in other meta- analyses (Lambertini 2018 & Senra 2018)
Lee DY, Choi D. Is Menstruation or the Serum Hormone Level a Useful Predictor for Live Birth after Gonadotropin-Releasing Hormone Agonist during Chemotherapy in Young Breast Cancer Patients. Gynecol Obstet Invest 2017;82:601-606.	Small study assessing hormone levels afer GnRHa treatment (better evidence available)
Meattini I, Saieva C, Meacci F, Scotti V, De Luca Cardillo C, Desideri I, Baldazzi V, Mangoni M, Scoccianti S, Detti B et al. Impact of age on cytotoxic-induced ovarian failure in breast cancer treated with adjuvant chemotherapy and triptorelin. Future Oncol 2016;12: 625-635.	Retrospective study (better evidence available)

Moli M. Compos Alicoloffi M. Lo Colno M. Alicus I.L. Command D. Diterrissi C. D. III. E. Microlle M.	
Meu M, Caruso-Nicoletti M, La Spina M, Nigro LL, Samperi P, D'Amico S, Bellia F, Miraglia V, Licciardello M, Cannata E et al. Triptorelin for Fertility Preservation in Adolescents Treated With Chemotherapy for Cancer. J Pediatr Hematol Oncol 2018;40: 269-276.	Retrospective study (better evidence available)
Munhoz RR, Pereira AA, Sasse AD, Hoff PM, Traina TA, Hudis CA, Marques RJ. Gonadotropin- Releasing Hormone Agonists for Ovarian Function Preservation in Premenopausal Women Undergoing Chemotherapy for Early-Stage Breast Cancer: A Systematic Review and Meta- analysis. JAMA Oncol 2016;2: 65-73.	All the RCTs were included in another meta-analysis (Lambertini 2018)
Park CY, Jung SY, Lee KB, Yang SH. The feasibility and efficacy of gonadotropin-releasing hormone agonists for prevention of chemotherapy induced ovarian failure in patient with gynecological malignancies. Obstet Gynecol Sci 2014;57: 478-483.	Small retrospective study (better evidence available)
Pashov AI, Tskhay VB, Ionouchene SV. The combined GnRH-agonist and intrauterine levonorgestrel-releasing system treatment of complicated atypical hyperplasia and endometrial cancer: a pilot study. Gynecol Endocrinol 2012;28: 559-561.	Small prospective study (better evidence available)
Pendse S, Ginsburg E, Singh AK. Strategies for preservation of ovarian and testicular function after immunosuppression. Am J Kidney Dis 2004;43: 772-781.	Narrative review
Phelan R, Mann E, Napurski C, DeFor TE, Petryk A, Miller WP, Wagner JE, Verneris MR, Smith AR. Ovarian function after hematopoietic cell transplantation: a descriptive study following the use of GnRH agonists for myeloablative conditioning and observation only for reduced-intensity conditioning. Bone Marrow Transplant 2016;51: 1369-1375.	Small prospective study (better evidence available)
Phelippeau, J., C.G. Cazalis, and M. Koskas, Ovarian protection and fertility preservation in women with cancer: A French national registry analysis between 2005 and 2014. J Gynecol Obstet Hum Reprod, 2019. 48(9): p. 705-710.	Relevant outcomes not assessed for this specific question
Poggio, F., et al., Potential Mechanisms of Ovarian Protection with Gonadotropin-Releasing Hormone Agonist in Breast Cancer Patients: A Review. Clin Med Insights Reprod Health, 2019. 13: p. 1179558119864584.	Narrative review discussing studies already included in other meta- analyses (Lambertini 2018 & Senra 2018)
Recchia F, Necozione S, Bratta M, Rosselli M, Guerriero G, Rea S. LH-RH analogues in the treatment of young women with early breast cancer: long-term follow-up of a phase II study. Int J Oncol 2015;46: 1354-1360.	Phase 2 single-arm study (better evidence available)
Shen YW, Zhang XM, Lv M, Chen L, Qin TJ, Wang F, Yang J, Liu PJ, Yang J. Utility of gonadotropin- releasing hormone agonists for prevention of chemotherapy-induced ovarian damage in premenopausal women with breast cancer: a systematic review and meta-analysis. Onco Targets Ther 2015;8: 3349-3359.	All the RCTs were included in a larger meta-analysis (Lambertini 2018)
Sofiyeva, N., et al., Gonadotropin-Releasing Hormone Analogs for Gonadal Protection During Gonadotoxic Chemotherapy: A Systematic Review and Meta-Analysis. Reprod Sci, 2019. 26(7): p. 939-953.	Smaller systematic review and meta-analysis
Somers EC, Marder W, Christman GM, Ognenovski V, McCune WJ. Use of a gonadotropin-releasing hormone analog for protection against premature ovarian failure during cyclophosphamide therapy in women with severe lupus. Arthritis Rheum 2005;52: 2761-2767.	Included in meta-analysis by Ben- Aharon 2010
Song G, Gao H, Yuan Z. Effect of leuprolide acetate on ovarian function after cyclophosphamide- doxorubicin-based chemotherapy in premenopausal patients with breast cancer: results from a phase II randomized trial. Med Oncol 2013;30: 667.	RCT already included in the meta- analysis by Lambertini 2018
Sugiu K, Iwamoto T, Kelly CM, Watanabe N, Motoki T, Ito M, Ohtani S, Higaki K, Imada T, Yuasa T et al. Neoadjuvant Chemotherapy with or without Concurrent Hormone Therapy in Estrogen Receptor-Positive Breast Cancer: NACED-Randomized Multicenter Phase II Trial. Acta Med Okayama 2015;69: 291-299.	Small RCT investigating the antitumor effect of concurrent chemo-endocrine therapy
Suh KJ, Kim SH, Lee KH, Kim TY, Kim YJ, Han SW, Kang E, Kim EK, Kim K, No JH et al. Bilateral Salpingo-oophorectomy Compared to Gonadotropin-Releasing Hormone Agonists in Premenopausal Hormone Receptor-Positive Metastatic Breast Cancer Patients Treated with Aromatase Inhibitors. Cancer Res Treat 2017;49: 1153-1163.	Retrospective study assessing antitumor effect of GnRHa + Al in metastatic breast cancer
Sun X, Dongol S, Jiang J, Kong B. Protection of ovarian function by GnRH agonists during chemotherapy: a meta-analysis. Int J Oncol 2014;44: 1335-1340.	All the RCTs were included in other meta-analyses (Lambertini 2018 & Senra 2018)
Turner NH, Partridge A, Sanna G, Di Leo A, Biganzoli L. Utility of gonadotropin-releasing hormone agonists for fertility preservation in young breast cancer patients: the benefit remains uncertain. Ann Oncol 2013;24: 2224-2235.	Narrative review discussing studies already included in another meta- analysis (Lambertini 2018)
von Wolff M, Kammerer U, Kollmann Z, Santi A, Dietl J, Frambach T. Combination of gonadotropin- releasing hormone (GnRH) agonists with GnRH antagonists before chemotherapy reduce but does not completely prevent a follicle-stimulating hormone flare-up. Fertil Steril 2011;95: 452-454.	Small study assessing use of GnRH antagonist in addition to GnRHa
von Wolff M, Stute P. Judging the Fertility Protective Effect of GnRH Agonists in Chemotherapy-It Is a Matter of Perspective. Front Endocrinol (Lausanne) 2017;8: 69.	Commentary discussing results of included RCTs and meta-analyses
Wang C, Chen M, Fu F, Huang M. Gonadotropin-Releasing Hormone Analog Cotreatment for the Preservation of Ovarian Function during Gonadotoxic Chemotherapy for Breast Cancer: A Meta- Analysis. PLoS One 2013;8: e66360.	All the RCTs were included in another meta-analysis (Lambertini 2018)
Wang C, Yu XF. The protective effects of gonadotropin-releasing hormone agonist on ovarian functions in breast Cancer patients receiving chemotherapy. Discov Med 2018;25: 7-12.	Narrative review discussing studies already included in a larger meta- analysis (Lambertini 2018)
Watanabe T, Yamada N, Yoshida Y, Yamamoto O. Granulomas induced by subcutaneous injection of a luteinizing hormone-releasing hormone analog: a case report and review of the literature. J Cutan Pathol 2010;37: 1116-1118.	Case report in prostate cancer on granulomas induced by subcutaneous GnRHa use
Yang B, Shi W, Yang J, Liu H, Zhao H, Li X, Jiao S. Concurrent treatment with gonadotropin- releasing hormone agonists for chemotherapy-induced ovarian damage in premenopausal women with breast cancer: a meta-analysis of randomized controlled trials. Breast 2013;22: 150-157.	All the RCTs were included in the meta-analysis (Lambertini 2018)

Zhang S, Zhang C, Liu J, Qin L, Cui S, Zhang J. A Phase II trial of Zoladex combined with CEF chemotherapy as neoadjuvant therapy in premenopausal women with hormone-responsive, operable breast cancer. Med Oncol 2012;29: 479-485.	Phase 2 single-arm study assessing antitumor effect of chemo- endocrine therapy
Zhang Y, Ji Y, Li J, Lei L, Wu S, Zuo W, Jia X, Wang Y, Mo M, Zhang N et al. Sequential versus simultaneous use of chemotherapy and gonadotropin-releasing hormone agonist (GnRHa) among estrogen receptor (ER)-positive premenopausal breast cancer patients: effects on ovarian function, disease-free survival, and overall survival. Breast Cancer Res Treat 2018;168: 679-686.	RCT already included in the meta- analysis by Lambertini 2018
Zhang Y, Xiao Z, Wang Y, Luo S, Li X, Li S. Gonadotropin-releasing hormone for preservation of ovarian function during chemotherapy in lymphoma patients of reproductive age: a summary based on 434 patients. PLoS One 2013;8: e80444.	All the RCTs were included in a more recent meta- analysis (Senra 2018);
Zheng, F., et al., Protective effect of gonadotropin-releasing hormone agonist against chemotherapy-induced ovarian dysfunction: A meta-analysis. Oncol Lett, 2019. 17(6): p. 5319-5326.	Smaller systematic review and meta-analysis
Zhong, Y., et al., GnRHa for Ovarian Protection and the Association between AMH and Ovarian Function during Adjuvant Chemotherapy for Breast Cancer. J Cancer, 2019. 10(18): p. 4278-4285.	Small RCT (better evidence available)
Zhou H, Cao D, Yang J, Shen K, Lang J. Gonadotropin-Releasing Hormone Agonist Combined With a Levonorgestrel-Releasing Intrauterine System or Letrozole for Fertility-Preserving Treatment of Endometrial Carcinoma and Complex Atypical Hyperplasia in Young Women. Int J Gynecol Cancer 2017;27: 1178-1182.	Small retrospective study (better evidence available)
Zhu HL, Wang Y, Li XP, Wang CH, Wang Y, Cui H, Wang JL, Wei LH. Gonadotropin-releasing hormone agonists cotreatment during chemotherapy in borderline ovarian tumor and ovarian cancer patients. Chin Med J (Engl) 2013;126: 688-691.	Small retrospective study (better evidence available)

# Q18 Should Transposition of ovaries vs. no treatment be used for ovarian protection?

### Search strings

DATABASE	Search string
PUBMED (merged)	("transposition of ovaries" OR "ovarian transposition" OR "transposed ovaries")
COCHRANE	(transposition of ovaries OR ovarian transposition OR transposed ovaries)

#### Flowchart



Reference	Exclusion criterium
Willows K, Lennox G, Covens A. Fertility-sparing management in cervical cancer: balancing oncologic outcomes with reproductive success. Gynecol Oncol Res Pract 2016;3: 9.	Article on trachelectomy, no transposition
Dursun P, Ayhan A, Yanik FB, Kuscu E. Ovarian transposition for the preservation of ovarian function in young patients with cervical carcinoma. Eur J Gynaecol Oncol 2009;30: 13-15.	Full text not available
Koliopoulos G, Sotiriadis A, Kyrgiou M, Martin-Hirsch P, Makrydimas G, Paraskevaidis E. Conservative surgical methods for FIGO stage IA2 squamous cervical carcinoma and their role in preserving women's fertility. Gynecol Oncol 2004;93: 469-473.	Paper on trachelectomy
Bisharah M, Tulandi T. Laparoscopic preservation of ovarian function: an underused procedure. Am J Obstet Gynecol 2003;188: 367-370.	Case report
Howard FM. Laparoscopic lateral ovarian transposition before radiation treatment of Hodgkin disease. J Am Assoc Gynecol Laparosc 1997;4: 601-604.	Case report
Fernandez-Pineda I, Davidoff AM, Lu L, Rao BN, Wilson CL, Srivastava DK, Klosky JL, Metzger ML, Krasin MJ, Ness KK et al. Impact of ovarian transposition before pelvic irradiation on ovarian function among long-term survivors of childhood Hodgkin lymphoma: A report from the St. Jude Lifetime Cohort Study. Pediatr Blood Cancer 2018;65: e27232.	Study of 49 women underwent OT but all women received chemo with alkylating agents
Shou H, Chen Y, Chen Z, Zhu T, Ni J. Laparoscopic ovarian transposition in young women with cervical squamous cell carcinoma treated by primary pelvic irradiation. Eur J Gynaecol Oncol 2015;36: 25-29.	Full text not available
Zhao C, Wang JL, Wang SJ, Zhao LJ, Wei LH. Analysis of the risk factors for the recurrence of cervical cancer following ovarian transposition. Eur J Gynaecol Oncol 2013;34; 124-127.	Full text not available
Mazonakis M, Damilakis J, Varveris H, Gourtsoyiannis N. Radiation dose to laterally transposed ovaries during external beam radiotherapy for cervical cancer. Acta Oncol 2006;45: 702-707.	Experimental study
Haie-Meder C, Mlika-Cabanne N, Michel G, Briot E, Gerbaulet A, Lhomme C, Cosset JM, Sarrazin D, Flamant F, Hayat M. Radiotherapy after ovarian transposition: ovarian function and fertility preservation. Int J Radiat Oncol Biol Phys 1993;25: 419-424.	Full text not available
Baiocchi G, Mantoan H, Chen MJ, Faloppa CC. Uterine transposition after radical trachelectomy. Gynecol Oncol 2018;150: 387-388.	Case report
Delotte J, Bongain A. Ovarian Torsion After Transposition in Patients With Gynecologic Cancer. J Minim Invasive Gynecol 2016;23: 139.	Comment
Sicam RV, Huang KG, Chang YC, Lee CL. Maintenance of ovarian function in end-of-life cervical cancer patient following primary surgico-radiotherapy and ovarian transposition. J Gynecol Oncol 2013;24: 204-207.	Case report
Sicam RV, Huang KG, Lee CL, Chen CY, Ueng SH. Treatment of fallopian tube metastasis in cervical cancer after laparoscopic ovarian transposition. J Minim Invasive Gynecol 2012;19: 262-265.	Case report
Eitan R, Krissi H, Beller U, Levavi H, Goldschmit C, Ben-Haroush A, Peled Y. Laparoscopic adnexal transposition: novel surgical technique. Int J Gynecol Cancer 2011;21: 1704-1707.	Technical description
Bloemers MC, Portelance L, Legler C, Renaud MC, Tan SL. Preservation of ovarian function by ovarian transposition prior to concurrent chemotherapy and pelvic radiation for cervical cancer. A case report and review of the literature. Eur J Gynaecol Oncol 2010;31: 194-197.	Case report
Salakos N, Bakalianou K, lavazzo C, Paltoglou G, Papadias K, Liapis A, Kondi-Pafiti A. The role of ovarian transposition in patients with early stage cervical cancertwo case reports. Eur J Gynaecol Oncol 2008;29: 280-281.	Case report
Farber LA, Ames JW, Rush S, Gal D. Laparoscopic ovarian transposition to preserve ovarian function before pelvic radiation and chemotherapy in a young patient with rectal cancer. MedGenMed 2005;7: 66.	Case report
Guo Y, Shen W, Jiang Y, Liu W, Li X. Application of ovarian transposition during hysterectomy. Chin Med J (Engl) 2003;116: 688-691.	Full text not available
Ishii K, Aoki Y, Takakuwa K, Tanaka K. Ovarian function after radical hysterectomy with ovarian preservation for cervical cancer. J Reprod Med 2001;46: 347-352.	Full text not available
Yarali H, Demirol A, Bukulmez O, Coskun F, Gurgan T. Laparoscopic high lateral transposition of both ovaries before pelvic irradiation. J Am Assoc Gynecol Laparosc 2000;7: 237-239.	Case report
Schulz-Lobmeyr I, Schratter-Sehn A, Huber J, Wenzl R. Laparoscopic lateral ovarian transposition before pelvic irradiation for a Non Hodgkin lymphoma. Acta Obstet Gynecol Scand 1999;78: 350-352.	Case report
Classe JM, Mahe M, Moreau P, Rapp MJ, Maisonneuve H, Lemevel A, Bourdin S, Harousseau JL, Cuilliere JC. Ovarian transposition by laparoscopy before radiotherapy in the treatment of Hodgkin's disease. Cancer 1998;83: 1420-1424.	Case report
Kwik M, O'Neill A, Hamani Y, Chapman M, Chou D. Laparoscopic ovarian transposition with potential preservation of natural fertility. J Minim Invasive Gynecol 2010;17: 411-412.	Case report
Dabirashrafi H, Moghadami-Tabrizi N, Zandinejad K. Laparoscopic ovarian transposition with subsequent intrauterine pregnancy. J Am Assoc Gynecol Laparosc 1996;3: 515-517.	Case report
Donaldson SS. Preservation of ovarian function after lateral ovarian transposition. Int J Radiat Oncol Biol Phys 1993;25: 565.	Case report
Winarto H, Febia E, Purwoto G, Nuranna L. The need for laparoscopic ovarian transposition in young patients with cervical cancer undergoing radiotherapy. Int J Reprod Med 2013;2013: 173568.	Narrative review

Picone O, Aucouturier JS, Louboutin A, Coscas Y, Camus E. Abdominal wall metastasis of a cervical adenocarcinoma at the laparoscopic trocar insertion site after ovarian transposition: case report and review of the literature. Gynecol Oncol 2003;90: 446-449.	Narrative review
Mossa B, Schimberni M, Di Benedetto L, Mossa S. Ovarian transposition in young women and fertility sparing. Eur Rev Med Pharmacol Sci 2015;19: 3418-3425.	More recent review available
Salih SM, Albayrak S, Seo S, Stewart SL, Bradley K, Kushner DM. Diminished Utilization of in Vitro Fertilization Following Ovarian Transposition in Cervical Cancer Patients. J Reprod Med 2015;60: 345-353.	Small observational study
Yoon A, Lee YY, Park W, Huh SJ, Choi CH, Kim TJ, Lee JW, Kim BG, Bae DS. Correlation between location of transposed ovary and function in cervical cancer patients who underwent radical hysterectomy. Int J Gynecol Cancer 2015;25: 688-693.	Small retrospective study
Barahmeh S, Al Masri M, Badran O, Masarweh M, El-Ghanem M, Jaradat I, Lataifeh I. Ovarian transposition before pelvic irradiation: indications and functional outcome. J Obstet Gynaecol Res _2013;39: 1533-1537.	Small observational study
Gareer W, Gad Z, Gareer H. Needle oophoropexy: a new simple technique for ovarian transposition prior to pelvic irradiation. Surg Endosc 2011;25: 2241-2246.	Included in review Hoekman 2019
Kung FT, Chen HC, Huang CC, Ho JT, Cheng BH. Preservation of ovarian germinal follicles by temporary laparoscopic ovarian transposition in teenaged girls undergoing craniospinal irradiation for radiosensitive central nervous system tumors. Taiwan J Obstet Gynecol 2008;47: 300-304.	Small observational study
Williams RS, Littell RD, Mendenhall NP. Laparoscopic oophoropexy and ovarian function in the treatment of Hodgkin disease. Cancer 1999;86: 2138-2142.	Small observational study
Thibaud E, Ramirez M, Brauner R, Flamant F, Zucker JM, Fekete C, Rappaport R. Preservation of ovarian function by ovarian transposition performed before pelvic irradiation during childhood. J Pediatr 1992;121: 880-884.	Small observational study
Swift BE, Leung E, Vicus D, Covens A. Laparoscopic ovarian transposition prior to pelvic radiation for gynecologic cancer. Gynecol Oncol Rep 2018;24: 78-82.	Small observational study
Selter J, Grossman Becht LC, Huang Y, Ananth CV, Neugut AI, Hershman DL, Wright JD. Utilization of ovarian transposition for fertility preservation among young women with pelvic malignancies who undergo radiotherapy. Am J Obstet Gynecol 2018.	Utilisation of OT
Sioulas VD, Jorge S, Chern JY, Schiavone MB, Weiser MR, Kelvin JF, Gardner GJ, Sonoda Y, Abu- Rustum NR, Goodman KA et al. Robotically Assisted Laparoscopic Ovarian Transposition in Women with Lower Gastrointestinal Cancer Undergoing Pelvic Radiotherapy. Ann Surg Oncol 2017;24: 251- 256.	Small retrospective study
Del Pup L, Salvagno F, Borini A, Trovo M, Peccatori FA. Ovarian transposition in young women and fertility sparing. Eur Rev Med Pharmacol Sci 2016;20: 197-198.	Letter
Turan AT, Keskin HL, Dundar B, Gundogdu B, Ozgul N, Boran N, Tulunay G, Kose MF. Ovarian transposition for stage Ib squamous cell cervical cancer - lack of effects on survival rates? Asian Pac J Cancer Prev 2013;14: 133-137.	Oncological outcomes
Al-Asari S, Abduljabbar A. Laparoscopic ovarian transposition before pelvic radiation in rectal cancer patient: safety and feasibility. Ann Surg Innov Res 2012;6: 9.	3 cases
Elizur SE, Tulandi T, Meterissian S, Huang JY, Levin D, Tan SL. Fertility preservation for young women with rectal cancera combined approach from one referral center. J Gastrointest Surg 2009;13: 1111-1115.	Small observational study
Hirakawa M, Yoshimitsu K, Kakihara D, Irie H, Asayayama Y, Ishigami K, Honda H. Detection of the gonadal veins in the diagnosis of transposed ovaries in patients with cervical carcinoma: a useful	Not relevant for the question
Husseinzadeh N, van Aken ML, Aron B. Ovarian transposition in young patients with invasive cervical cancer receiving radiation therapy. Int J Gynecol Cancer 1994;4: 61-65.	Included in review Hoekman 2019
Van Eijkeren MA, Van Der Wijk I, El Sharouni SY, Heintz AP. Benefits and side effects of lateral ovarian transposition (LOT) performed during radical hysterectomy and pelvic lymphadenectomy for early stage cervical cancer. Int J Gynecol Cancer 1999;9: 396-400.	Included in review Hoekman 2019
Shylasree, T.S. and P. Patil, Laparoscopic Ovarian Transposition in Rectal Cancer: More than Just Oncological Outcomes. Indian J Surg Oncol, 2019. 10(2): p. 309-312.	Narrative review
Phelippeau, J., C.G. Cazalis, and M. Koskas, Ovarian protection and fertility preservation in women with cancer: A French national registry analysis between 2005 and 2014. J Gynecol Obstet Hum Reprod, 2019. 48(9); p. 705-710.	Mixed treatments
Khiat, S., et al., Fertility preservation strategies for rectal cancer in reproductive-age women. Future Oncol, 2019. 15(22): p. 2635-2643.	Narrative review
Mariani, S., et al., Fertility preservation in chemo-radiotherapy for rectal cancer: A combined approach. Clin Transl Radiat Oncol, 2019, 19: p. 77-79.	Case report

# Q20 What are ongoing developments with regards to FP?

This question was answered as a narrative question. A literature search performed, and additional papers were retrieved through expert opinion and snowballing.

Relevant papers were selected and summarized in a narrative text.

#### Search strings

DATABASE	Search string
PUBMED	("in vitro oocyte culture" OR "fertility restoration" OR "female germline stem cells" OR "follicle growth in 3D co-culture" OR "human oocyte culture system" OR "artificial ovary" OR "ovarian stem cells" OR "Primordial follicle culture" OR "pre- antral follicle culture") OR (("stem cell" OR "resting follicle" OR follicle OR "bone marrow" OR "generat" germ cells" OR "generat" oocyte") AND ("Fertility Preservation"[Mesh] OR "Fertility Preservation"])

Reference

Exclusion criterium

# Q21 How should patients be re-assessed before use of stored material? General + specific issues

This question was answered from the results of the literature search for Question 22. Relevant references were selected and combined with expert opinion from the GDG members, and information form additional papers suggested by the GDG members.

# Q22 What is the effect of previous gonadotoxic treatments/underlying condition on obstetric outcomes?

### Search strings

DATABASE	Search string
PUBMED MERGE 1	("Uterine irradiation" OR "Uterine radiation" OR "pelvic radiation" OR "pelvic irradiation" OR "Uterine radiotherapy" OR "pelvic radiotherapy" OR brachytherapy OR Trachelectomy OR "deep Loop biopsy" OR "cervical cancer" OR "cancer of the cervix") AND ("Pregnancy Outcome"[Mesh] OR "Pregnancy Complications"[Mesh] OR "spontaneous pregnancy" OR "Pregnancy, High-Risk"[Mesh])
PUBMED MERGE 2	( ("Cancer Survivors"[Mesh] OR "Cancer Survivors") OR (("Neoplasms"[Mesh] OR Cancer OR tumor OR neoplasm OR malignancy OR neoplasms) AND ("Antineoplastic Agents"[Mesh] OR chemotherapy OR anthracycline)) ) AND ("Pregnancy Outcome"[Mesh] OR "Pregnancy Complications"[Mesh]OR "spontaneous pregnancy" OR "Cardiotoxicity"[Mesh] OR "Pregnancy, High-Risk"[Mesh])
PUBMED 5	("Systemic lupus erythematosus" OR *Lupus Erythematosus, Systemic*[Mesh] OR "Behcet's disease" OR *Behcet Syndrome*[Mesh] OR "Churg-Strauss syndrome" OR *Churg-Strauss Syndrome*[Mesh] OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" (OR "Glomerulonephritis"[Mesh] OR "Granulomatosis with polyangiitis" OR "Wegener's granulomatosis" OR "Granulomatosis with Polyangiitis*[Mesh] OR "Inflammatory bowel diseases" OR "Crohn Disease" OR "Lucerative colitis" OR "Inflammatory Bowel Diseases*[Mesh] OR "Arthritis, Rheumatoid*[Mesh] OR "Haematological diseases" OR "Pemphigus vulgaris" OR "Pemphigus*[Mesh] OR "Autoimmune Diseases*[Mesh] OR "Haematological diseases" OR "Hematologic Diseases*[Mesh] OR "Autoimmune Diseases*[Mesh] OR "Haematological diseases" OR "Altered hypothalamic-pituitary-gonadal axis" OR "Ovarian oophoritis" OR "Oophoritis*[Mesh] OR "Benign ovarian tumours" OR "Mosaic Turner's syndrome" OR "Turner Syndrome*[Mesh] OR "Fragile X Mental Retardation 1" OR "Fragile X Syndrome*[Mesh] OR "Inflammatrioss" OR "Beta-thalassaemia" OR "beta-Thalassemia*[Mesh] OR "Endometriosis*[Mesh] OR "Endometriosis") AND ("Pregnancy Outcome*[Mesh] OR "Pregnancy Complications*[Mesh] OR "spontaneous pregnancy" OR "Pregnancy, High-Risk*[Mesh]) OR "Inflammatory Outcome*[Mesh] OR "spontaneous pregnancy"
PUBMED 6	("Transgender Persons"[Mesh] OR Transgender OR Transsexual) AND ("Pregnancy Outcome"[Mesh] OR "Pregnancy Complications"[Mesh]OR "spontaneous pregnancy" OR "Pregnancy, High-Risk"[Mesh] OR "pregnancy")
COCHRANE MERGE 1	("Uterine irradiation" OR "Uterine radiation" OR "pelvic radiation" OR "pelvic irradiation" OR "Uterine radiotherapy" OR "pelvic radiotherapy" OR brachytherapy OR Trachelectomy OR 'deep Loop biopsy" OR 'cervical cancer' OR 'cancer of the cervix" OR "Systemic lupus erythematosus" OR "Behcet's disease" OR "Behcet Syndrome" OR "Churg-Strauss syndrome" OR "eosinophilic granulomatosis" OR "Steroid resistant glomerulonephritis" OR "glomerulonephritis" OR "Granulomatosis with polyangiitis" OR "Wegener's granulomatosis" OR "Inflammatory bowel diseases" OR 'Crohn Disease" OR "Haematological diseases" OR 'Anemia" OR "Sickle cell anaemia" OR "thatesamiamajor" OR "plastic anaemia" OR "Altered hypothalamic-pituitary-gonadal axis" OR "Forgile X Mental Retardation 1" OR "Fragile X Syndrome" OR "Galactosaemia OR "Galactosaemia" OR "Beta-thalassaemia" OR "Endometriosis" AND ('Pregnancy Outcome" OR "Pregnancy Complications" OR "spontaneous pregnancy" OR "Pengonacy")
COCHRANE	("Cancer Survivors" OR ((Cancer OR tumor OR neoplasm OR malignancy OR neoplasms) AND ("Antineoplastic Agents" OR chemotherapy OR anthracycline))) AND ("Pregnancy Outcome" OR "Pregnancy Complications" OR "spontaneous
COCHRANE 6	("Transgender Persons" OR Transgender OR Transsexual) AND ("Pregnancy Outcome"[Mesh] OR "Pregnancy Complications" OR "spontaneous pregnancy" OR "pregnancy")



Reference	Exclusion criterium
Abruzzese, E., et al., Back to the future: Treatment-free remission and pregnancy in chronic myeloid leukemia. Eur J Haematol, 2019. 102(2): p. 197-199.	letter to the editor, exclude
Agorastos T, Zafrakas M, Mastrominas M. Long-term follow-up after cervical cancer treatment and subsequent successful surrogate pregnancy. Reprod Biomed Online 2009;19: 250-251.	case report
Alsner J, Wiernik PH, Pearl P. Pregnancy outcome in patients treated for Hodgkin's disease. J Clin Oncol 1993;11:507-512.	Interview study - rather old
Aleman JM, Arlien F, Tjalma WAA. The impact of conisation on pregnancy outcome. Eur J Gynaecol Oncol 2016:37: 786-701.	full paper not available
Alexopoulos E, Efkarpidis S, Fay TN, Williamson KM. Pregnancy following radical trachelectomy and pelvic lymphadenectomy for Stage I cervical adenocarcinoma. Acta Obstet Gynecol Scand 2002;81: 791–792.	case report
Al-Ibrahim A, Parrish J, Dunn E, Swallow C, Maxwell C. Pregnancy and maternal outcomes in women with prior or current gastrointestinal malignancies. J Obstet Gynaecol Can 2014;36: 34-41.	small retrospective cohort study
Alici Davutoglu E, Madazli R, Yilmaz N, Ozel A, Uludag S, Sozen I. Pregnancy in cancer patients and survivors; experience of a university hospital in Turkey. J Obstet Gynaecol 2017;37: 1015-1019.	interesting but small numbers
Almuwaqqat, Z., et al., Breast Cancer and Heart Failure. Heart Fail Clin, 2019. 15(1): p. 65-75.	not pregnancy - exclude
Alvarez, R.M., et al., MRI measurement of residual cervical length after radical trachelectomy for cervical cancer and the risk of adverse pregnancy outcomes: a blinded imaging analysis. Bjog, 2018. 125(13): p. 1726-1733.	cervical cancer
Anderson, C., et al., Live birth outcomes after adolescent and young adult breast cancer. Int J Cancer, 2018, 142(10): p. 1994-2002.	not relevant addition
Arbyn M, Kyrgiou M, Simoens C, Raifu AO, Koliopoulos G, Martin-Hirsch P, Prendiville W,	considered irrelevant
Paraskevaidis E. Perinatal mortality and other severe adverse pregnancy outcomes associated with	
treatment of cervical intraepithelial neoplasia: meta-analysis, Bmj 2008;337: a1284.	full paper not available
saving surgery in ovarian cancer. Eur J Gynaecol Oncol 2003;24: 223-232.	Tull paper not available
Azim HA, Jr., Kroman N, Paesmans M, Gelber S, Rotmensz N, Ameye L, De Mattos-Arruda L, Pistilli B, Pinto A, Jensen MB et al. Prognostic impact of pregnancy after breast cancer according to estrogen receptor status: a multicenter retrospective study. J Clin Oncol 2013;1:73-70	included in the dabrosin systematic review
Azim HA, Jr., Peccatori FA, de Azambuja E, Piccart MJ. Motherhood after breast cancer: searching for la dolce vita. Expert Rev Anticancer Ther 2011;11: 287-298.	it is the same as the SR published in 2011
Azim HA, Jr., Santoro L, Pavlidis N, Gelber S, Kroman N, Azim H, Peccatori FA. Safety of pregnancy following breast cancer diagnosis: a meta-analysis of 14 studies. Eur J Cancer 2011;47: 74-83.	included in Dabrosin review however systematic
Babak, S. and C. Brezden-Masley, Cardiovascular sequelae of breast cancer treatments: A review. Curr Probl Cancer, 2018, 42(4); p. 409-421.	cardiotoxicity in bc, not
Balashov DN, Papusha LI, Nazarenko TA, Trakhtman PE, Revishvili NA, Maschan AA, Persiantseva MI, Andriutsa AV, Skorobogatova EV, Skvortsova YV et al. Recovery of ovarian function and pregnancy in a patient with AML after myeloablative busulphan-based conditioning regimen. J Pediatr Hematol Oncol 2011:33: e154-155.	case report
Balsat, M., et al., Successful pregnancies in patients with BCR-ABL-positive leukemias treated with interferon-alpha therapy during the tyrosine kinase inhibitors era. Eur J Haematol, 2018. 101(6): p. 774-780.	not relevant
Barton SE, Missmer SA, Berry KF, Ginsburg ES. Female cancer survivors are low responders and have reduced success compared with other patients undergoing assisted reproductive technologies. Fertil Steril 2012;97: 381-386.	full paper not available
Baughan CA, Ryall RD, Pope RA. Successful pregnancy following tailor-made intracavitary radiotherapy for microinvasive adenocarcinoma of the endocervix. Clin Oncol (R Coll Radiol) 1992;4: 192-193.	case report
Berman, E., Pregnancy in Patients With Chronic Myeloid Leukemia. J Natl Compr Canc Netw, 2018. 16(55); p. 660-662.	leukemia- not relevant addition
Bernard S, Ouellet MP, Moffet H, Roy JS, Dumoulin C. Effects of radiation therapy on the structure and function of the pelvic floor muscles of patients with cancer in the pelvic area: a systematic review. J Cancer Surviv 2016;10: 351-362.	there is no mention to pregnancy complications or effect on pregnancy or method of delivery
Bernardini M, Barrett J, Seaward G, Covens A. Pregnancy outcomes in patients after radical trachelectomy. Am J Obstet Gynecol 2003;189; 1378-1382.	too small and old
Bines J, Gradishar WJ. Primary care issues for the breast cancer survivor. Compr Ther 1997;23: 605-611.	full paper not available
Blakely LJ, Buzdar AU, Lozada JA, Shullaih SA, Hoy E, Smith TL, Hortobagyi GN. Effects of pregnancy after treatment for breast carcinoma on survival and risk of recurrence. Cancer 2004;100: 465-469.	included in Azim systematic review
Blumenfeld Z, Benaroush M, Zuckerman T. Spontaneous pregnancy and normal delivery after repeated autologous bone marrow transplantation and GnRH agonist treatment. Hum Reprod 2007;22: 2346.	case report
Blumenfeld Z, Zuckerman T. Repeated spontaneous pregnancies and successful deliveries after repeated autologous stem cell transplantation and GnRH-agonist treatment. Oncologist 2010;15: 59-60.	case report
Blumenfeld Z. Chemotherapy and fertility. Best Pract Res Clin Obstet Gynaecol 2012;26: 379-390.	non-systematic review
Bokhman JV, Bakidoze EV, Ourmancheeva AF. Fertility, pregnancy and cancer. Acta Obstet Gynecol Scand Suppl 1997;164: 14-18.	full paper not available
Bowman ZS, Simons M, Sok C, Draper ML. Cervical insufficiency and placenta accreta after prior pelvic radiation. J Obstet Gynaecol 2014;34: 735.	case report

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during pregnancy. Oncologist 2011:16: 1547-1551.	2019
Brice P, Pautier P, Marolleau JP, Castaigne S, Gisselbrecht C. Pregnancy after autologous bone	already covered in the reviews
marrow transplantation for malignant lymphomas. Nouv Rev Fr Hematol 1994;36: 387-388.	
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associated with new treatments for mutuple myetoria. Expert review of hematology 201/,10, 193-	outcomes
Bruinsma F, Lumley J, Tan J, Quinn M. Precancerous changes in the cervix and risk of subsequent	precancerous changes in the
preterm birth. Bjog 2007;114: 70-80.	cervix, not relevant
Byrne J. Fertility and pregnancy after malignancy. Semin Perinatol 1990;14: 423-429.	full paper not available
carrouri K, Hansen N. The effect of pregnancy on survival in women with a history of breast	non-systematic review
Capilna ME, Rusu SC, Pujac CI, Daniilidis A, Szabo B, Spontaneous intrauterine pregnancy following	case report
abdominal radical trachelectomya case report. Eur J Gynaecol Oncol 2015;36: 229-230.	
Carter J, Lewin S, Abu-Rustum N, Sonoda Y. Reproductive issues in the gynecologic cancer patient.	narrative review
Oncology (Williston Park) 2007;21: 598-606; discussion 606-599.	full a second state the second state to
from mother to child Intervirology 1008/41: 213-218	Tull paper not available
Castanon A, Landy R, Brocklehurst P, Evans H, Peebles D, Singh N, Walker P, Patnick J, Sasieni P. Is	considered irrelevant
the increased risk of preterm birth following excision for cervical intraepithelial neoplasia restricted	
to the first birth post treatment? Bjog 2015;122: 1191-1199.	
Chae, S.H., et al., Pregnancy and oncologic outcomes after fertility-sparing management for early stage endometricid endometrial cancer. Int. J. Cynocol Cancer, 2010, 20(1); p. 77–85.	full paper not available
Chasle S. How CC. The effect of cytotoxic chemotherapy on female fertility. Eur J Oncol Nurs	review for nurses
2003;7: 91-98.	
Christinat A, Pagani O. Fertility after breast cancer. Maturitas 2012;73: 191-196.	non-systematic review
Cibula, D., et al., The European Society of Gynaecological Oncology/European Society for Dedictherapy and Oncology (European Society of Dathology Guidelines for the Management of	cancer treatment, not
Patients With Cervical Cancer. Int. J Gynecol Cancer. 2018. 28(4): p. 641-655.	pregnancy
Cipres D, Seidman D, Cloniger C, 3rd, Nova C, O'Shea A, Obedin-Maliver J. Contraceptive use and	contraception
pregnancy intentions among transgender men presenting to a clinic for sex workers and their	
families in San Francisco. Contraception 2017;95: 186-189.	internetien deter en enderme
Gvnecol 2007:110: 840-854.	labour. PPH and operative
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pregnancy outcomes. Am J Hematol 2015;90: 1111-1115. Costarelli V, Yiannakouris N. Breast cancer risk in women: the protective role of pregnancy. Nurs Stand 2010;24: 35-40.	chemotherapy full paper not available
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Costarelli V, Yiannakouris N. Breast cancer risk in women: the protective role of pregnancy. Nurs Stand 2010;24: 35-40. Cruickshank ME, Flannelly G, Campbell DM, Kitchener HC. Fertility and pregnancy outcome following large loop excision of the cervical transformation zone. Br J Obstet Gynaecol 1995;102: 467-470. Dabrosin C. An overview of pregnancy and fertility issues in breast cancer patients. Ann Med	full paper not available INCLUDED FOR THE
Costarelli V, Yiannakouris N. Breast cancer risk in women: the protective role of pregnancy. Nurs Stand 2010;24: 35-40. Cruickshank ME, Flannelly G, Campbell DM, Kitchener HC. Fertility and pregnancy outcome following large loop excision of the cervical transformation zone. Br J Obstet Gynaecol 1995;102: 467-470. Dabrosin C. An overview of pregnancy and fertility issues in breast cancer patients. Ann Med 2015;47: 673-678.	full paper not available INCLUDED FOR THE NARRATIVE SECTION ON
Costarelli V, Yiannakouris N. Breast cancer risk in women: the protective role of pregnancy. Nurs Stand 2010;24: 35-40. Cruickshank ME, Flannelly G, Campbell DM, Kitchener HC. Fertility and pregnancy outcome following large loop excision of the cervical transformation zone. Br J Obstet Gynaecol 1995;102: 467-470. Dabrosin C. An overview of pregnancy and fertility issues in breast cancer patients. Ann Med 2015;47: 673-678.	full paper not available full paper not available iNCLUDED FOR THE NARRATIVE SECTION ON PATIENT ASSESMENT pat relovant addition
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Costarelli V, Yiannakouris N. Breast cancer risk in women: the protective role of pregnancy. Nurs Stand 2010;24: 35-40. Cruickshank ME, Flannelly G, Campbell DM, Kitchener HC. Fertility and pregnancy outcome following large loop excision of the cervical transformation zone. Br J Obstet Gynaecol 1995;102: 467-470. Dabrosin C. An overview of pregnancy and fertility issues in breast cancer patients. Ann Med 2015;47: 673-678. Danet, C., et al., Pregnancy outcomes in women exposed to cancer chemotherapy. Pharmacoepidemiol Drug Saf, 2018. 27(12): p. 1302-1308. de Bree E, Makrigiannakis A, Askoxylakis J, Melissas J, Tsiftsis DD. Pregnancy after breast cancer. A comprehensive review. J Surg Oncol 2010;101: 534-542.	full paper not available full paper not available full paper not available INCLUDED FOR THE NARRATIVE SECTION ON PATIENT ASSESMENT not relevant addition non-systematic review
<ul> <li>Costarelli V, Yiannakouris N. Breast cancer risk in women: the protective role of pregnancy. Nurs Stand 2010;24: 35-40.</li> <li>Cruickshank ME, Flannelly G, Campbell DM, Kitchener HC. Fertility and pregnancy outcome following large loop excision of the cervical transformation zone. Br J Obstet Gynaecol 1995;102: 467-470.</li> <li>Dabrosin C. An overview of pregnancy and fertility issues in breast cancer patients. Ann Med 2015;47: 673-678.</li> <li>Danet, C., et al., Pregnancy outcomes in women exposed to cancer chemotherapy. Pharmacoepidemiol Drug Saf, 2018. 27(12): p. 1302-1308.</li> <li>de Bree E, Makrigiannakis A, Askoxylakis J, Melissas J, Tsiftsis DD. Pregnancy after breast cancer. A comprehensive review. J Surg Oncol 2010;101: 534-542.</li> <li>De Carolis S, Garofalo S, Degennaro VA, Zannoni GF, Salvi S, Moresi S, Di Pasquo E, Scambia G.</li> </ul>	full paper not available full paper not available INCLUDED FOR THE NARRATIVE SECTION ON PATIENT ASSESMENT not relevant addition non-systematic review case report
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<ul> <li>Contes JC, Nolizzese JC, Neikysheva L, Gultago, Watta N, Appertey ST. The impact of dasating of pregnancy outcomes. Am J Hematol 2015;9: 1111-115.</li> <li>Costarelli V, Yiannakouris N. Breast cancer risk in women: the protective role of pregnancy. Nurs Stand 2010;24: 35-40.</li> <li>Cruickshank ME, Flannelly G, Campbell DM, Kitchener HC. Fertility and pregnancy outcome following large loop excision of the cervical transformation zone. Br J Obstet Gynaecol 1995;102: 467-470.</li> <li>Dabrosin C. An overview of pregnancy and fertility issues in breast cancer patients. Ann Med 2015;47: 673-678.</li> <li>Danet, C., et al., Pregnancy outcomes in women exposed to cancer chemotherapy. Pharmacoepidemiol Drug Saf. 2018. 27(2): p. 1302-1308.</li> <li>de Bree E, Makrigiannakis A, Askoxylakis J, Melissas J, Tsiftsis DD. Pregnancy after breast cancer. A comprehensive review. J Surg Oncol 2010;101: 534-542.</li> <li>De Carolis S, Garofalo S, Degennaro VA, Zannoni GF, Salvi S, Moresi S, Di Pasquo E, Scambia G. Placental and Infant metastasis of maternal melanoma: a new case. J Obstet Gynaecol 2015;35: 417-418.</li> <li>de Ia Haba-Rodriguez J, Calderay M. Impact of breast cancer treatment on fertility. Breast Cancer Res Treat 2010;123 Suppl 1: 50-63.</li> <li>de Menezes E, Tuck SM. Pelvic radiotherapy damage to the endometrium causing morbid adherence of placenta. A new risk factor? J Obstet Gynaecol 2007;27: 256-527.</li> <li>De Sanctis V, Filippone FR, Alfo M, Muni R, Cavalieri E, Pulsoni A, Annechini G, Valeriani M, Osti MF, Minnit I, Badiat Oncol Biol Phys 2012;84: 755-761.</li> <li>Delaney AA, Gubbels AL, Remmenga S, Tomich P, Molpus K. Successful pregnancy after fertility-sparing local resection and uterine reconstruction for low-grade endometrial stromal sarcoma. Obstet Gynecol 2012;120: 486-489.</li> <li>Derks-Smeets IA, de Die-Smulders CE, Mackens S, van Golde R, Paulussen AD, Dreesen J, Tournaye H, Verdyck P, Tjan-Heijnen VC, Meijer-Hoogeveen M et al. Hereditary breast and ovarian cancer and reproduction: a</li></ul>	full paper not available full paper not available full paper not available INCLUDED FOR THE NARRATIVE SECTION ON PATIENT ASSESMENT not relevant addition non-systematic review case report review of old papers, protocols might not be still in use already covered in the reviews reassuring paper but low numbers (99 cases) case report Not Relevant - Usefulness of PGD full paper not available
<ul> <li>Contes JC, NDIZZESE (An University of Context and Context</li></ul>	Include paper not available         full paper not available         full paper not available         INCLUDED FOR THE         NARRATIVE SECTION ON         PATIENT ASSESMENT         not relevant addition         non-systematic review         case report         review of old papers, protocols         might not be still in use         already covered in the reviews         reassuring paper but low         numbers (99 cases)         case report         Not Relevant - Usefulness of         PGD         full paper not available         small and old study
<ul> <li>Contex JE, Aufüzzese L, Ar J Hematol 2015;90: 1111-115.</li> <li>Costarelli V, Yiannakouris N. Breast cancer risk in women: the protective role of pregnancy. Nurs Stand 2010;24: 35-40.</li> <li>Cruickshank ME, Flannelly G, Campbell DM, Kitchener HC. Fertility and pregnancy outcome following large loop excision of the cervical transformation zone. Br J Obstet Gynaecol 1995;102: 467-470.</li> <li>Dabrosin C. An overview of pregnancy and fertility issues in breast cancer patients. Ann Med 2015;47: 673-678.</li> <li>Danet, C., et al., Pregnancy outcomes in women exposed to cancer chemotherapy. Pharmacoepidemiol Drug Saf, 2018. 27(12): p. 1302-1308.</li> <li>de Bree E, Makrigiannakis A, Askoxylakis J, Melisasa J, Tsiftsis DD. Pregnancy after breast cancer. A comprehensive review. J Surg Oncol 2010;101: 534-542.</li> <li>De Carolis S, Garofalo S, Degennaro VA, Zannoni GF, Salvi S, Moresi S, Di Pasquo E, Scambia G. Placental and infant metastasis of maternal melanoma: a new case. J Obstet Gynaecol 2015;35: 417-418.</li> <li>de Ia Haba-Rodriguez J, Calderay M. Impact of breast cancer treatment on fertility. Breast Cancer Res Treat 2010;123 Suppl 1: 59-63.</li> <li>de Menezes E, Tuck SM. Pelvic radiotherapy damage to the endometrium causing morbid adherence of placenta. A new risk factor? J Obstet Gynaecol 2007;27: 526-527.</li> <li>De Sanctis V, Filippone FR, Alfo M, Muni R, Cavalieri E, Pulsoni A, Annechini G, Valeriani M, Osti MF, Minniti G et al. Impact of different treatment approaches on pregnancy outcomes in 99 women treated for Hodgkin lymphoma. Int J Radiat Oncol Biol Phys 2012;84:755-761.</li> <li>Delaney AA, Gubbels AL, Remmenga S, Tomich P, Molpus K. Successful pregnancy after fertility-sparing local resection and uterine reconstruction for low-grade endometrial stromal sarcoma. Obstet Gyneeol 2012;120: 486-489.</li> <li>Derks-Smeets IA, de Die-Smulders CE, Mackens S, van Golde R, Paulussen AD, Dreesen J, Tournaye H, Verdyck P, Tjan-Heijnen VC, Meijer-Hoogeveen M et al. Hereditary breast and ovarian</li></ul>	full paper not available full paper not available full paper not available INCLUDED FOR THE NARRATIVE SECTION ON PATIENT ASSESMENT not relevant addition non-systematic review case report review of old papers, protocols might not be still in use already covered in the reviews reassuring paper but low numbers (99 cases) case report Not Relevant - Usefulness of PGD full paper not available small and old study full paper not available

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Ginsburg ES, Yanushpolsky EH, Jackson KV. In vitro fertilization for cancer patients and survivors. Fertil Steril 2001;75: 705-710.	small and old study
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Herskovic E, Ryan M, Weinstein J, Wadhwani NR. Maternal to fetal transmission of cervical carcinoma. Pediatr Radiol 2014;44: 1035-1038.	Case report
Higgins S, Haffty BG. Pregnancy and lactation after breast-conserving therapy for early stage breast cancer. Cancer 1994;73: 2175-2180.	Too old, not relevant
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Inoue O, Hamatani T, Susumu N, Yamagami W, Ogawa S, Takemoto T, Hirasawa A, Banno K, Kuji N, Tanaka M et al. Factors affecting pregnancy outcomes in young women treated with fertility- preserving therapy for well-differentiated endometrial cancer or atypical endometrial hyperplasia. Reprod Biol Endocrinol 2016;14: 2.	Not relevant
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Midtvedt K, Bjorang O, Letting AS. Successful pregnancy in renal transplant recipient with previous	Case report
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Mitwally MF. Effect of cancer and cancer treatment on human reproduction. Expert Rev Anticancer Ther 2007;7: 811-822.	Non-systematic review
Mogos MF, Rahman S, Salihu HM, Salinas-Miranda AA, Sultan DH. Association between reproductive cancer and fetal outcomes: a systematic review. Int J Gynecol Cancer 2013;23: 1171-1177.	Small numbers
Montoro Garcia J, Cabellos Olivares M, Cabana Navia A, Lopez Sana J, Rodriguez Fraile JR. Unexpected obstetric haemorrhage. Krukenberg tumour. Rev Esp Anestesiol Reanim 2017;64: 479- 482.	Case report
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Moran MS, Colasanto JM, Haffty BG, Wilson LD, Lund MW, Higgins SA. Effects of breast-conserving therapy on lactation after pregnancy. Cancer J 2005;11: 399-403.	Lactation outcomes
Morice P, Thiam-Ba R, Castaigne D, Haie-Meder C, Gerbaulet A, Pautier P, Duvillard P, Michel G. Fertility results after ovarian transposition for pelvic malignancies treated by external irradiation or brachytherapy. Hum Reprod 1998;13: 660-663.	Full paper not available
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Mulrooney DA, D AD. Caring for cancer survivors: more than just checking the blood pressure and measuring the ejection fraction. Future Cardiol 2015;11: 371-375.	Full paper not available
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Murphy TF. The ethics of helping transgender men and women have children. Perspect Biol Med 2010;53: 46-60.	Opinion paper
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Nichols, H.B., et al., Childbirth after adolescent and young adult cancer: a population-based study. J Cancer Surviv, 2018. 12(4): p. 592-600.	Not relevant addition
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Norwitz ER, Stern HM, Grier H, Lee-Parritz A. Placenta percreta and uterine rupture associated with prior whole body radiation therapy. Obstet Gynecol 2001;98: 929-931.	Already covered in the reviews
Okugawa K, Kobayashi H, Sonoda K, Kaneki E, Kawano Y, Hidaka N, Egashira K, Fujita Y, Yahata H, Kato K. Oncologic and obstetric outcomes and complications during pregnancy after fertility- sparing abdominal trachelectomy for cervical cancer: a retrospective review. Int J Clin Oncol 2017;22: 340-346.	Retrospective small numbers
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Oven Ustaalioglu BB, Bilici A, Kefeli U, Seker M, Salepci T, Unal O, Gumus M. A retrospective analysis of women's chances to become pregnant after completion of chemotherapy: a single center experience. J buon 2011;16: 349-352.	Case series of questionable quality
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Parlakgumus HA, Kilicdag EB, Simsek E, Haydardedeoglu B, Cok T, Aytac PC, Bagis T, Erkanli S. Fertility outcomes of patients with early stage endometrial carcinoma. J Obstet Gynaecol Res 2014;40: 102-108.	Small study
Partridge A, Schapira L. Pregnancy and breast cancer: epidemiology, treatment, and safety issues. Oncology (Williston Park) 2005;19: 693-697; discussion 697-700.	Non-systematic review
Parva M, Lamb K, Savior DC, Gilman P, Belden M. Full-term pregnancy and vaginal delivery after treatment for non-Hodgkin's lymphoma of the cervix and lower uterine segment: a case report. J Obstet Gynaecol Can 2011;33: 620-624.	Case report
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Perri T, Korach J, Gottleb WH, Beiner M, Meirow D, Friedman E, Ferenczy A, Ben-Baruch G. Prolonged conservative treatment of endometrial cancer patients: more than 1 pregnancy can be achieved. Int J Gynecol Cancer 2011;21: 72-78.	Small study
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Plante M, Gregoire J, Renaud MC, Roy M. The vaginal radical trachelectomy: an update of a series	Already included in Zhang
of 125 cases and 106 pregnancies. Gynecol Oncol 2011;121: 290-297.	review

Plante M, Smith EB, Cox S, Silverberg K, Reich S. The case of a viable pregnancy post vaginal radical trachelectomy followed by combined chemo-radiation therapy. Gynecol Oncol 2011;123: 421-423.	Case report
Pomorski L, Bartos M, Narebski J. Pregnancy following operative and complementary treatment of thyroid cancer. Zentralbl Gynakol 2000;122: 383-386.	Full paper not available
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Ramaseshan AS, Felton J, Roque D, Rao G, Shipper AG, Sanses TVD. Pelvic floor disorders in	Not our topic, no mention
women with gynecologic malignancies: a systematic review. Int Urogynecol J 2018;29: 459-476.	about obstetrics
function, fertility, and birth defects. J Natl Cancer Inst Monogr 1994; 125-129.	Full paper not available
outcomes after high-dose density neoadjuvant chemotherapy and fertility-sparing surgery in cervical cancer. Gynecol Oncol 2014;135: 213-216.	Very small series
Rozner, R.N. and W.H. Frishman, Cardiovascular Effects of Chemotherapy Used in the Treatment of Breast Cancers. Cardiol Rev, 2019. 27(2): p. 87–96.	Cardiotoxicity in bc, not pregnancy
Rubert L, Lozoya T, Monfort R, Domingo S, Diago V, Perales A. Obstetric outcomes after a radical	Case report
trachelectomy complicated with haematometra: A case report. J Obstet Gynaecol 2016;36: 424-425.	
Sadler L, Saftlas A. Cervical surgery and preterm birth. J Perinat Med 2007;35: 5-9.	Non-systematic review
gynecologists. Am J Obstet Gynecol 2014;211: 7-14.	
Schechter T, Finkelstein Y, Doyle J, Koren G. Pregnancy after stem cell transplantation. Can Fam Physician 2005;51: 817–818.	Non-systematic review
Schoch JJ, Boull CL, Camilleri MJ, Tollefson MM, Hook KP, Polcari IC. Transplacental Transmission of Pemphigus Herpetiformis in the Setting of Maternal Lymphoma. Pediatr Dermatol 2015;32: e234- 237.	Case report
Schover LR. Motivation for parenthood after cancer: a review. J Natl Cancer Inst Monogr 2005: 2-5.	Non-systematic review
Scrivener CG, Gornall R, Rolland P. Simple vaginal trachelectomy as a fertility-sparing treatment to manage high-grade dyskaryosis following multiple large loop excision of the transformation zone. BMJ Case Rep 2016:2016.	Case report
Shah, J.S., et al., Reproductive counseling and pregnancy outcomes after radical trachelectomy for early stage cervical cancer. J Gynecol Oncol. 2010, 30(3): p. e45.	Not relevant addition
Shepherd JH, Spencer C, Herod J, Ind TE. Radical vaginal trachelectomy as a fertility-sparing	Already included in Zhang
procedure in women with early-stage cervical cancer-cumulative pregnancy rate in a series of 123 women. Bjog 2006;113; 719-724.	review
Shirali E, Yarandi F, Eftekhar Z, Shojaei H, Khazaeipour Z. Pregnancy outcome in patients with stage 1a endometrial adenocarcinoma, who conservatively treated with megestrol acetate. Arch Gynecol Obstet 2012;285; 791-795.	Too small
Smaldone GM, Richard SD, Krivak TC, Kelley JL, 3rd, Edwards RP. Pregnancy after tumor debulking and intraperitoneal cisplatin for appendiceal carcinoid tumor. Obstet Gynecol 2007;110: 477-479.	Case report
Spanos CP, Mamopoulos A, Tsapas A, Syrakos T, Kiskinis D. Female fertility and colorectal cancer. Int J Colorectal Dis 2008;23: 735-743.	Non-systematic review
Speiser D, Mangler M, Kohler C, Hasenbein K, Hertel H, Chiantera V, Gottschalk E, Lanowska M. Fertility outcome after radical vaginal trachelectomy: a prospective study of 212 patients. Int J Gynecol Cancer 2011;21: 1635-1639.	Already included in Zhang review
Stensheim H, Cvancarova M, Moller B, Fossa SD. Pregnancy after adolescent and adult cancer: a population-based matched cohort study. Int J Cancer 2011;129; 1225-1236.	Does not describe obs outcomes
Stikkelbroeck NM, Hermus AR, Braat DD, Otten BJ. Fertility in women with congenital adrenal hyperplasia due to 21-hydroxylase deficiency. Obstet Gynecol Surv 2003;58: 275-284.	Not relevant
Su HI, Connell MW, Bazhenova LA. Ovarian stimulation in young adult cancer survivors on targeted cancer therapies. Fertil Steril 2016;106: 1475-1478.	Case report
Surbone A, Petrek JA. Childbearing issues in breast carcinoma survivors. Cancer 1997;79: 1271-1278.	Non-systematic review
Sutton R, Buzdar AU, Hortobagyi GN. Pregnancy and offspring after adjuvant chemotherapy in breast cancer patients. Cancer 1990;65: 847-850.	Too old
Takada S, Ishioka S, Endo T, Baba T, Morishita M, Akashi Y, Mizuuchi M, Adachi H, Kim M, Saito T. Difficulty in the management of pregnancy after vaginal radical trachelectomy. Int J Clin Oncol 2013;18: 1085-1090.	Case report
Tamauchi S, Kajiyama H, Sakata J, Sekiya R, Suzuki S, Mizuno M, Utsumi F, Niimi K, Kotani T, Shibata K et al. Oncologic and obstetric outcomes of early stage cervical cancer with abdominal radical trachelectomy: Single-institution experience. J Obstet Gynaecol Res 2016;42: 1796-1801.	Too small
Tang, S., et al., Long-term comparisons of the efficacy, safety, and pregnancy outcomes of adjuvant tamoxifen plus ovarian function suppression in premenopausal Han and Zhuang Chinese patients with hormone receptor-positive early breast cancer. J Int Med Res, 2019. 47(2): p. 641-652.	Small series and not focused on pregnancy
Tasic L, Vasiljevic M, Prorocic M, Tasic D, Raznatovic S, Jurisic A. Pregnancy following conservative surgical treatment of the malignant mixed germ-cell tumor of the ovarycase report. Eur J Gynaecol Oncol 2011;32: 705-707.	Case report
Thomas LS, Murray IM, Bisset D, Johnston PW, Dempsey OJ. Metastatic thymoma, placenta praevia and two successful pregnancies: an obstetric challenge. Eur J Obstet Gynecol Reprod Biol 2013;166: 112-113.	Case report
Thomas SG, Sato HR, Glantz JC, Doyle PJ, Buchsbaum GM. Prevalence of symptomatic pelvic floor disorders among gynecologic oncology patients. Obstet Gynecol 2013;122: 976–980.	Not relevant
Torres A, Rosa ER, Mendez K, Menendez A, Romaguera J. Cervical dysplasia and pre-term birth in San Juan city hospital: a cohort retrospective study. Bol Asoc Med P R 2013;105; 36-38.	Full paper not available
Tripathi R, Chugh PK, Verma V, Mala YM. Fatal methotrexate toxicity: could it have been avoided? BMJ Case Rep 2013;2013.	Case report

	Turan V, Ergenoglu M, Yeniel O, Ulukus M. Assessment of pregnancy outcomes with uterine leiomyomas larger than 10 cm; antepartum and postpartum complications. J Pediatr Adolesc Gynecol 2010;23: 57–58.	- Pregnancy outcomes
	Tzortzatos G, Sioutas A, Schedvins K. Successful pregnancy after treatment for ovarian malignant teratoma with growing teratoma syndrome. Fertil Steril 2009;91: 936.e931-933.	Case report
	Ungar L, Palfalvi L, Hogg R, Siklos P, Boyle DC, Del Priore G, Smith JR. Abdominal radical trachelectomy: a fertility-preserving option for women with early cervical cancer. Bjog 2005;112: 366-369.	Already included in Zhang review
	Upponi SS, Ahmad F, Whitaker IS, Purushotham AD. Pregnancy after breast cancer. Eur J Cancer 2003;39: 736-741.	Includes very old studies and many of them have been included in the Azim systematic review, I would exclude it
	Valenzano Menada M, Moioli M, Garaventa A, Nozza P, Foppiano M, Trimarchi N, Fulcheri E. Spontaneous regression of transplacental metastases from maternal melanoma in a newborn: case report and review of the literature. Melanoma Res 2010;20: 443-449.	Case report
	Virizuela, J.A., et al., SEOM clinical guidelines on cardiovascular toxicity (2018). Clin Transl Oncol, 2019. 21(1): p. 94-105.	Cardiotoxicity, not pregnancy
	Vucinic OK, Kovacevic G, Sulovic N, Kovacevic-Vukolic L, Vukolic D, Radunovic N. Pregnancy and delivery after vesico ileocystoplastya case report. Clin Exp Obstet Gynecol 2014;41: 727-729.	Case report
	Wald K, Easterling T, Swisher EM. Spontaneous Twin Pregnancy After Oophoropexy and Pelvic Radiation for Rectal Cancer. Obstet Gynecol 2016;128: 792-794.	Case report
	Weinmann S, Naleway A, Swamy G, Krishnarajah G, Arondekar B, Fernandez J, Myers E. Pregnancy Outcomes after Treatment for Cervical Cancer Precursor Lesions: An Observational Study. PLoS One 2017;12: e0165276.	Full paper not available
	Wethington SL, Cibula D, Duska LR, Garrett L, Kim CH, Chi DS, Sonoda Y, Abu-Rustum NR. An international series on abdominal radical trachelectomy: 101 patients and 28 pregnancies. Int J Gynecol Cancer 2012;22: 1251-1257.	Already included in Zhang review
	Wo JY, Viswanathan AN. Impact of radiotherapy on fertility, pregnancy, and neonatal outcomes in female cancer patients. Int J Radiat Oncol Biol Phys 2009;73; 1304-1312.	Very informative of the direct effect of dose on the uterine contractility
	Wolff EF, Hill MJ, Simonds WF, Segars JH. Aromatase inhibitor treatment of menorrhagia and subsequent pregnancy in a patient with familial hyperparathyroidism-jaw tumor syndrome. Fertil Steril 2012;98: 1616-1619.	Case report
	Wong I, Justin W, Gangooly S, Sabatini L, Al-Shawaf T, Davis C, Zosmer A, Tozer A. Assisted conception following radical trachelectomy. Hum Reprod 2009;24: 876–879.	Small series
	Wu HM, Lai CH, Huang HY, Wang HS, Soong YK. A successful live twin birth by in vitro fertilization after conservative treatment of recurrent endometrial cancer. Chang Gung Med J 2008;31: 102-106.	Case report
	Yan L, Tian Y, Fu Y, Zhao X. Successful pregnancy after fertility-preserving surgery for endometrial stromal sarcoma. Fertil Steril 2010;93: 269.e261-263.	Case report
-	Yasuda M, Terai Y, Sekijima T, Sasaki H, Yamashita Y, Kanemura M, Ohmichi M. Successful pregnancy after conservative surgery for stage IA endometrial cancer in a young woman. Fertil Steril 2009;91: 936.e913-935.	Case report
	Ye X, He Q, Zhou X. Study on the adverse effects following chemotherapy for breast cancer diagnosis during pregnancy: The first case report in China. Medicine (Baltimore) 2017;96: e8582.	3 cases

### Collection of data

To answer this narrative question, information was collected on the duration of storage in European countries to a survey send to the ESHRE committee of national representatives. The methodology of the survey is included in annex 7