

Study Guide: ESHRE Nurses & Midwives Certification			
Curriculum		Book Chapters/Guidelines	Webinars
A. Physiology of Spontaneous Conception	A.1. In vivo sperm and egg transport A.2. In vivo oocyte maturation A.3. In vivo fertilization A.4. In vivo implantation	<u>Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf</u> Chapter 5: Regulation of the Menstrual Cycle (<i>Complete chapter</i>) Chapter 6: Conception, Sperm and Egg Transport, Fertilization, and Implantation (<i>Only the following sections: 'Sperm transport', 'Egg transport'; pp432-447, and the summaries in addition to summaries on pp 455-456 and p473</i>) Chapter 25: Female Infertility (<i>excluding section: 'Epidemiology of infertility in the US'; p2527-2529</i>) In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN: 978-1108594387 Chapter 6: Implantation and early stages of fetal development (<i>Complete chapter</i>)	Talk of ESHRE Florence course 2018 by Dr. Inge Custers: <u>https://ecampus.eshre.eu/course/view.php?id=6243</u>

B. Epidemiology of Infertility	B.1. Prevalence	Boivin J, Bunting L, Collins JA, Nygren KG. International estimates of infertility prevalence and treatment-seeking: potential need and demand for infertility medical care. Hum Reprod. 2007 Jun;22(6):1506-12. DOI: 10.1093/humrep/dem046.	Part I of talk of ESHRE Florence course 2018 by Ms. Sara Somers: https://ecampus.eshre.eu/course/view.php?id=6243 (Please note that the reference in the presentation to 'Calhaz-Jorge et al, 2016' should be updated to: 'De Geyter et al, 2018').
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		Download PDF ESHRE ART fact sheet	
	B.2. Definitions	ICMART glossary (Complete document) Download PDF	
	B.3. Fertility (treatment) prognosis	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 25: Female Infertility <i>(excluding section: 'Epidemiology of infertility in the US'; p2527-2529)</i>	

C. Factors Affecting Fertility	C.1. Age C.2. Lifestyle C.3. Environment C.4. Preconception care	Schmidt et al. (2012) ESHRE Reproduction and Society Task Force. Demographic and medical consequences of the postponement of parenthood. Hum Reprod Update. https://www.eshre.eu/-/media/sitecore-files/Accreditation/Nurses/reading-list/Papers/Schmidt_dmr040.pdf Sharma et al. Lifestyle factors and reproductive health: taking control of your fertility. https://www.eshre.eu/-/media/sitecore-files/Accreditation/Nurses/reading-list/Papers/Sharma_147778271166.pdf Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf	Part II of talk of ESHRE Florence course 2018 by Ms. Sara Somers: https://ecampus.eshre.eu/course/view.php?id=6243
D. Female	D.1. Development of the	Chapter 10: Amenorrhea (<i>Only the following sections: 'Hypothalamic Amenorrhea', 'Eating Disorders', 'Exercise and Amenorrhea'; p. 906-917</i>) Chapter 25: Female Infertility (<i>excluding section: 'Epidemiology of infertility in the US'; p2527-2529</i>) Chapter 26: Male Infertility (<i>Complete chapter</i>) Clinical Gynecologic Endocrinology & Infertility, 9th Edition	Webinar by Prof. Dr. Antti Perheentupa:

Reproduction	female reproductive tract	Chapter 2: The Ovary-Embryology and Development (<i>Complete chapter</i>)	https://ecampus.eshre.eu/course/view.php?id=6243
	D.2. Anatomy of the female reproductive system D.3. Physiology of the female reproductive system	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 3: The Uterus, Endometrial Physiology, and Menstruation (<i>excluding sections: 'A Teleological Theory of Endometrial Menstrual Events'; 'The uterus is an endocrine organ'; 'Reproductive function of Leiomyomas'; 'Medical treatment of Leiomyomas'; pp. 218-219 and pp. 248-255)</i>)	
	D.3.1. Endocrinology and the menstrual cycle	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 2: The Ovary-Embryology and Development (<i>Complete chapter</i>) Chapter 3: The Uterus (<i>excluding section: 'A Teleological Theory of Endometrial Menstrual Events'; 'The uterus is an endocrine organ';</i>	

		<i>'Reproductive function of Leiomyomas'; 'Medical treatment of Leiomyomas' pp. 218-219 and pp. 248-255)</i> Chapter 5: Regulation of the Menstrual Cycle (<i>Complete chapter</i>)	
	D.3.2. Function of the organs	<u>Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf</u> Chapter 2: The Ovary-Embryology and Development (<i>Complete chapter</i>) Chapter 3: The Uterus (<i>excluding sections: 'A Teleological Theory of Endometrial Menstrual Events'; 'The uterus is an endocrine organ'; 'Reproductive function of Leiomyomas'; 'Medical treatment of Leiomyomas'; pp. 218-219 and pp. 248-255)</i>	
	D.3.3. Oogenesis D.3.4. The oocyte	<u>Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf</u> Chapter 2: The Ovary-Embryology and Development (<i>Complete chapter</i>)	

	D.4. Diagnostic evaluation of the female reproductive system D.4.1. Medical history taking D.4.2. Physical and gynecological examination	ESHRE Good practice recommendations on add-ons in reproductive medicine (<i>Human Reproduction paper only</i>) Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 25: Female Infertility (<i>excluding section: 'Epidemiology of infertility in the US'; p2527-2529</i>) Genital examination in women: A resource for skills development and assessment (Royal College of Nursing) https://www.rcn.org.uk/-/media/royal-college-of-nursing/documents/publications/2016/march/005480.pdf	Webinar by Dr. Jon Hausken: https://ecampus.eshre.eu/course/view.php?id=6243 Gynecological ultrasound: Talk of ESHRE Florence course 2018 by Ms. Annick Geril: https://ecampus.eshre.eu/course/view.php?id=6243 ESHRE POI Guideline: Talk - ESHRE eCampus by Dr. Femi Janse: https://ecampus.eshre.eu/course/view.php?id=6243
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	D.4.3. Endocrine analysis	<u>Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf</u> Chapter 20: Reproduction and the Thyroid (<i>excluding sections: 'Functional changes with aging', 'Thyroid function tests', 'Osteoporosis and excessive thyroxine', p 1983, p 1984-1992, p 2003 – 2004)</i> <i>Thyroid nodules', and from 'Thyroid physiology in the fetus and the neonate' until the end of the chapter; p2005-2009, p 2012-2020</i> In-Vitro Fertilization (4th edition, 2020). Chapter 2: Endocrine control of reproduction: Controlled ovarian hyperstimulation for ART (<i>Complete chapter</i>)	
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	D.4.4. Gynecological ultrasound D.4.5. Imaging of uterine cavity and tubal patency (i.e. HSG, saline, gel, oil or foam HyCoSy, 3D ultrasound) D.4.6. Hysteroscopy D.4.7. Laparoscopy	British Medical Ultrasound Society (2021) Guidelines for Professional Ultrasound Practice (pp. 159-164): https://www.bmus.org/static/uploads/resources/2021_SoR_and_BMUS_guidelines_v1.0_.pdf Section 2 e-textbook Ultrasound in Obstetrics & Gynaecology: A Practical Approach; 1st Edn) Ultrasound in OB Clips Secured.pdf Venketash et al., (2019) Role of Ultrasound in the evaluation of first-trimester pregnancies in the acute setting https://pmc.ncbi.nlm.nih.gov/articles/PMC7065984	
		Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 25: Female Infertility (excluding section: 'Epidemiology of infertility in the US'; p2527-2529)	
	D.5. Diagnosing and treating pathology of the female reproductive system	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf	

		Chapter 25: Female Infertility (excluding section: 'Epidemiology of infertility in the US'; p2527-2529)	
	D.5.1. Polycystic Ovary Syndrome	ESHRE Recommendations from the 2023 international evidence-based guideline for the assessment and management of polycystic ovary syndrome (<i>Human Reproduction</i>) https://pubmed.ncbi.nlm.nih.gov/37580314	
	D.5.2. Endometriosis	ESHRE endometriosis guideline (Human Reproduction Open publication only) Download PDF	
	D.5.3. Premature Ovarian Insufficiency	ESHRE Guideline POI Guideline on premature ovarian insufficiency	
	D.5.4. Tubal pathology	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf	
		Chapter 25: Female Infertility (excluding section: 'Epidemiology of infertility in the US'; p2527-2529)	
	D.5.5. Uterine malformations	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf	

	D.5.6. Other	Chapter 3: The Uterus (<i>excluding sections: 'A Teleological Theory of Endometrial Menstrual Events'; 'The uterus is an endocrine organ'; 'Reproductive function of Leiomyomas'; 'Medical treatment of Leiomyomas'; pp. 218-219 and pp. 248-255)</i>	
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	D.6. General pathology interfering with female fertility	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 3: The Uterus (<i>excluding sections: 'A Teleological Theory of Endometrial Menstrual Events'; 'The uterus is an endocrine organ'; 'Reproductive function of Leiomyomas'; 'Medical treatment of Leiomyomas'; pp. 218-219 and pp. 248-255</i>) Chapter 25: Female Infertility (<i>excluding section: 'Epidemiology of infertility in the US'; p2527-2529</i>) ESHRE Good practice recommendations on recurrent implantation failure (<i>Human Reproduction Open</i>): https://pubmed.ncbi.nlm.nih.gov/37332387 ESHRE Evidence-based guideline on	
		Unexplained Infertility (<i>Human Reproduction paper</i>): https://www.eshre.eu/Guidelines-and-Legal/Guidelines/Unexplained-infertility	

E. Male Reproduction	E.1. Development of the male reproductive tract E.2. Anatomy of the male reproductive system E.3. Physiology of the male reproductive system E.3.1. Endocrinology E.3.2. Function of the organs E.3.3. Spermatogenesis E.3.4. The spermatozoa	<u>Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf</u> Chapter 2: The Ovary-Embryology and Development (<i>Complete chapter</i>) Chapter 26: Male Infertility (<i>Complete chapter</i>) In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN: 978-1108594387 Chapter 2: Endocrine control of reproduction: Controlled ovarian hyperstimulation for ART (<i>Complete chapter</i>) Chapter 3: Gametes and gametogenesis (<i>Complete chapter</i>) Chapter 4: Gamete interaction (<i>Complete chapter</i>)	Webinar by Dr. Jackson Kirkman-Brown: <u>https://ecampus.eshre.eu/course/view.php?id=6243</u>
	E.4. Diagnostic evaluation of the male reproductive system E.4.1. Medical history taking E.4.2. Physical examination	Good practice recommendations on add-ons in reproductive medicine (HR paper only) <u>Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf</u>	Webinar by Dr. Nan Birgitte Oldereid: <u>https://ecampus.eshre.eu/course/view.php?id=6243</u>

	E.4.3. Assessment of the sperm sample based on WHO guidelines(*) E.4.4. Endocrine analysis E.4.5. Ultrasound of the testis and/or prostate E.5. Pathology of the male reproductive system E.5.1. Obstructive azoospermia E.5.2. Non-obstructive azoospermia E.5.3. Varicocele E.5.4. Other E.6. General pathology interfering with male fertility	Chapter 26: Male Infertility (<i>Complete chapter</i>) (*) WHO laboratory manual for the examination and processing of human semen Chapter 8, page 213, Table 8.3 (5th centile) https://www.who.int/publications/i/item/9789240030787	
F. Clinical Fertility Treatments		ESHRE Good practice recommendations on add-ons in reproductive medicine (<i>Human Reproduction</i>) https://pubmed.ncbi.nlm.nih.gov/37747409 ESHRE Evidence-based guideline on Unexplained Infertility (HR paper only) Evidence-based guideline: unexplained infertility† Human Reproduction Oxford Academic	
	F.1. Surgical treatment	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 25: Female Infertility (<i>excluding section: 'Epidemiology of infertility in the US'; p2527-2529</i>)	

		ESHRE Endometriosis guideline (<i>Human Reproduction paper</i>) https://pubmed.ncbi.nlm.nih.gov/35350465	
	F2. Ovulation induction F3. Intra-Uterine Insemination (IUI) F3.1. Controlled Ovarian Stimulation F3.1.1. Types of medication F3.1.2. Stimulation protocols F3.2. Insemination	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 25: Female Infertility (<i>excluding section: 'Epidemiology of infertility in the US'; p2527-2529</i>) Chapter 28: Assisted Reproductive Technologies (<i>Complete chapter</i>) Cohlen et al., 2018	Talk of ESHRE Florence course 2018 by Prof. Dr. Anja Pinborg: https://ecampus.eshre.eu/course/view.php?id=6243
	F.4. In Vitro Fertilisation and Intra-Cytoplasmic Sperm Injection (IVF/ICSI)	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 28: Assisted Reproductive Technologies (<i>Complete chapter</i>) In-Vitro Fertilization Chapter 11: Oocyte retrieval and embryo culture (<i>Complete chapter</i>) Chapter 13: Micromanipulation techniques (<i>Only the following sections: 'Introduction'; 'ICSI: genetic implications', 'Surgical sperm retrieval', 'Indications for ICSI'; 'IMSI'; 'Assisted Hatching'; pp. 284-287, pp. 290-291, pp. 297-298</i>)	Webinar by Prof. Dr. Diane De Neubourg: https://ecampus.eshre.eu/cours8e/view.php?id=6243
	F4.1. Controlled Ovarian Stimulation F4.1.1. Types of medication F4.1.2. Stimulation protocols	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf	

		Chapter 28: Assisted Reproductive Technologies (<i>Complete chapter</i>)	
	F.4.2. Oocyte retrieval	ESHRE Recommendations for good practice in ultrasound: oocyte pick-up (<i>Human Reproduction Open paper only</i>) Recommendations for good practice in ultrasound: oocyte pick up† Human Reproduction Open Oxford Academic	
	F.4.2.1. Procedure	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 32: Assisted Reproductive Technologies (<i>Complete chapter</i>) In-Vitro Fertilization Chapter 11: Oocyte retrieval and embryo culture (<i>Complete chapter</i>)	
	F.4.2.2. Pain relief	ESHRE Recommendations for good practice in ultrasound: oocyte pick-up (<i>Human Reproduction Open paper only</i>) Recommendations for good practice in ultrasound: oocyte pick up† Human Reproduction Open Oxford Academic	
	F.4.3. Embryo transfer	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 28: Assisted Reproductive Technologies (<i>Complete chapter</i>)	

	F.5. Frozen Embryo Transfer (FET) cycles	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf	
		Chapter 28: Assisted Reproductive Technologies (<i>Complete chapter</i>) In-Vitro Fertilization Chapter 11: Oocyte retrieval and embryo culture (<i>Complete chapter</i>) Chapter 12: Cryopreservation of gametes and embryos (<i>excluding section: 'Principles of cryobiology'; pp. 254-259</i>)	
	F.5.1. Monitoring and timing of the FET cycle	In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN: 978-1108594387 Chapter 12: Cryopreservation of gametes and embryos (<i>excluding section: 'Principles of cryobiology'; pp. 254-259</i>)	
	F.5.2. Natural cycles and stimulated cycles	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf	

		Chapter 28: Assisted Reproductive Technologies (<i>Complete chapter</i>) In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN: 978-1108594387	
		Chapter 12: Cryopreservation of gametes and embryos (<i>excluding section: 'Principles of cryobiology'; p254-259</i>)	
	F.6. Surgical treatments for sperm retrieval in the male patient	<u>Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf</u> Chapter 28: Assisted Reproductive Technologies (<i>Complete chapter</i>) In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN: 978-1108594387 Chapter 10: Sperm and ART (<i>excluding section: 'Sperm preparation for ICSI'; pp. 204-206</i>)	Webinar by Prof. Dr. Herman Tournaye: <u>https://ecampus.eshre.eu/course/view.php?id=6243</u>

	F.6.1. PESA (Percutaneous Epididymal Sperm Aspiration) F.6.2. MESA (Microsurgical Epididymal Sperm Aspiration) F.6.3. TESE (Testicular Sperm Extraction)	In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN: 978-1108594387 Chapter 10: Sperm and ART (<i>excluding section: 'Sperm preparation for ICSI'; pp. 204-206</i>)	
	F.7. Third party reproduction F.7.1. Oocyte, sperm and embryo donation F.7.2. Legislation, anonymity and donor quota F.7.3. Secrecy and disclosure F.7.4. Direct-to-consumer genetic testing F.7.5. Information and support needs of donors, recipients and offspring	ESHRE Task Force (3) on Ethics and Law: Gamete and embryo donation https://www.eshre.eu/Specialty-groups/Special-Interest-Groups/Ethics-and-Law/Documents-of-the-Task-Force-Ethics-Law ESHRE Good practice recommendations for information provision for those involved in reproductive donation https://pubmed.ncbi.nlm.nih.gov/35178481	Talk of ESHRE Florence course 2018 by Dr. Kirsten Tryde-Macklon: https://ecampus.eshre.eu/course/view.php?id=6243
	F.7.6. Gestational carrier	ESHRE Task Force Ethics & Law 23) Documents of the Task Force Ethics Law	

	F.8. Fertility preservation F.8.1. Ovarian tissue cryopreservation F.8.2. Oocyte/embryo cryopreservation F.8.3. Fertility Preservation for pre-pubertal boys	ESHRE guideline (2020) ESHRE Guideline Female Fertility Preservation Fertility Preservation for pre-pubertal boys 20-year overview of fertility preservation in boys: new insights gained through a comprehensive international survey Human Reproduction Open Oxford Academic Schüring AN, et al., (2018) Practical recommendations for fertility preservation in women by the FertiPROTEKT network. Part I: Indications for fertility preservation. Download PDF	
		von Wolff M, et al., (2018) Practical recommendations for fertility preservation in women by the FertiPROTEKT network. Part II: fertility preservation techniques. Download PDF	

		In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN: 978-1108594387 Schüring et al., (2018) Practical recommendations for fertility preservation in women by the FertiPROTEKT network. Part I: Indications for fertility preservation - PubMed von Wolff et al., (2018) Fertility preservation: ovarian response to freeze oocytes is not affected by different malignant diseases-an analysis of 992 stimulations - PubMed	
G. Lab Medical Assisted Reproduction (MAR) Procedures	G.1. Sperm preparation for IUI, IVF, ICSI	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 28: Assisted Reproductive Technologies (Complete chapter) In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN:	Webinar by Ms. Hilde Afschrift: https://ecampus.eshre.eu/course/view.php?id=6243

		978-1108594387 Chapter 10: Sperm and ART (excluding section: 'Sperm preparation for ICSI'; pp. 204-206)	
	G.2. Slow freezing and vitrification	In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN: 978-1108594387 Chapter 12: Cryopreservation of gametes and embryos (<i>excluding section: 'Principles of cryobiology'; pp. 254-259</i>)	
	G.3. ICSI	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 28: Assisted Reproductive Technologies (<i>Complete chapter</i>)	

	G.4. IVF	Hart R, Norman RJ. The longer-term health outcomes for children born as a result of IVF treatment: Part I--General health outcomes. Hum Reprod Update. 2013 May-Jun;19(3):232-43. doi.org/10.1093/humupd/dms062. Download PDF Hart R, Norman RJ. The longer-term health outcomes for children born as a result of IVF treatment. Part II--Mental health and development outcomes. Hum Reprod Update. 2013
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		May-Jun;19(3):244-50. doi: 10.1093/humupd/dmt002. ↓ Download PDF Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 28: Assisted Reproductive Technologies (<i>Complete chapter</i>)	
	G.5. Non-routine methods		
	G.5.1. In Vitro Maturation (IVM)	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 28: Assisted Reproductive Technologies (<i>Complete chapter</i>)	

	G.5.2. Assisted Hatching (AHA)	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 28: Assisted Reproductive Technologies (<i>Complete chapter</i>) In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN: 978-1108594387 Chapter 13: Micromanipulation techniques (<i>Only the following sections: 'Introduction'; 'ICSI: genetic implications', 'Surgical sperm retrieval', 'Indications for ICSI'; 'IMSI'; 'Assisted Hatching'; pp. 284-287, pp. 290-291, pp. 297-298</i>)	
H. Embryology	H.1. Mitosis and meiosis	In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN: 978-1108594387 Chapter 5: First stages of development (<i>The following section only: 'Pre-implantation development'; pp. 97-104</i>) Chapter 6: Implantation and early stages of fetal development (<i>Complete chapter</i>)	Webinar by Dr. Hanne Devroe: https://ecampus.eshre.eu/course/view.php?id=6243

	H.2. Fertilization and zygotes	In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK Print ISBN: 978-1108441810 eText ISBN: 978-1108594387 Chapter 4: Gamete interaction (<i>Complete chapter</i>) Chapter 5: First stages of development (<i>The following section only: 'Pre-implantation development'; pp. 97-104</i>)	
	H.3. Morphology and cleavage of the embryo	In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK Print ISBN: 978-1108441810 eText ISBN: 978-1108594387 Chapter 5: First stages of development (<i>The following section only: 'Pre-implantation development'; pp. 97-104</i>) Chapter 6: Implantation and early stages of fetal development (<i>Complete chapter</i>)	
	H.4. Implantation of the embryo	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf	

		Chapter 6: Conception, Sperm and Egg Transport, Fertilization, and Implantation (Only the following sections: 'Sperm transport', 'Egg transport'; pp432-447, and the summaries in addition to summaries on pp 455-456 and p473)	
		In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN: 978-1108594387 Chapter 5: First stages of development (The following section only: 'Pre-implantation development'; pp. 97-104) Chapter 6: Implantation and early stages of fetal development (Complete chapter)	
	H.5. Time lapse	In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN: 978-1108594387 Chapter 11: Oocyte retrieval and embryo culture (The following section only: 'Time-lapse systems'; pp. 236-239)	

	H.6.Guidelines	ESHRE Special Interest Group of Embryology and Alpha Scientists in Reproductive Medicine. The Vienna consensus: report of an expert meeting on the development of art laboratory performance indicators. Hum Reprod Open. 2017 Aug;2017(2):1-17. https://doi.org/10.1093/hropen/hox011 (Recommendations of the expert panel only, p. 9-17). Download PDF ESHRE revised guidelines for good practice in IVF laboratories (Full document) Download PDF	
I. Genetics	I.1. Introduction		Webinar by Prof. Dr. Sophie Debrock: https://ecampus.eshre.eu/course/view.php?id=6243
	I.2. Genotype and phenotype	In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN: 978-1108594387 Chapter 4: Gamete interaction <i>(Complete chapter)</i>	
	I.3. Chromosomal abnormalities: numerical, structural	In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN: 978-1108594387	
	I.4. Methods: karyotyping, fluorescent in-situ hybridization (FISH), polymerase chain reaction (PCR), next generation sequencing (NGS)	Chapter 14: Preimplantation genetic diagnosis <i>(Complete chapter)</i>	

	I.5. Preimplantation Genetic Testing for Monogenic/Single gene diseases (PGT-M) and Preimplantation Genetic Testing for Aneuploidies (PGT-A)	Managing chromosomal mosaicism in a PGT workflow (Two-page summary document only) Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf ESHRE Guideline Turner Syndrome Clinical practice guidelines for the care of girls and women with Turner syndrome European Journal of Endocrinology Oxford Academic Chapter 28: Assisted Reproductive Technologies (<i>Complete chapter</i>) In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN: 978-1108594387 Chapter 14 Preimplantation genetic diagnosis (<i>Complete chapter</i>)	
	I.6. Epigenetics/imprinting	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf	

		Chapter 28: Assisted Reproductive Technologies (<i>Complete chapter</i>) In-Vitro Fertilization (4th edition, 2020). Elder K and Dale B; Cambridge University Press; Cambridge, UK. Print ISBN: 978-1108441810 eText ISBN: 978-1108594387 Chapter 5: First stages of development (<i>The following section only: 'Pre-implantation development'; pp. 97-104</i>)	
		Chapter 15: Epigenetics and human assisted reproduction (<i>Complete chapter</i>)	
J. Early Pregnancy	J.1. Endocrinology of early pregnancy	Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 7: The Endocrinology of Pregnancy (<i>The following sections: 'Progesterone', 'Human Chorionic Gonadotropin'; pp. 487-491 and pp. 516-522</i>)	Talk of ESHRE Florence course 2018 by Dr. Emma Kirk: https://ecampus.eshre.eu/course/view.php?id=6243

	J.2. Pregnancy test J.3 Ultrasound assessment for viability J.4. Early pregnancy failures J.4.2 Ectopic Pregnancies	British Medical Ultrasound Society (2021) Guidelines for Professional Ultrasound Practice (pp. 159-164) https://www.bmus.org/static/uploads/resources/2021_SoR_and_BMUS_guidelines_v1.0_.pdf Sections 2 & 5:7 Terminology for describing normally sited and ectopic pregnancies on ultrasound: ESHRE recommendations for good practice - PMC	
	J.4.3 Recurrent pregnancy loss	ESHRE Guideline on the management of recurrent pregnancy loss 2022 Recurrent pregnancy loss ESHRE RPL patient Guideline Update 2022_Final Version January 2023 (1).pdf (whole document)	
K. Quality of Care	K.1. Quality Management	IVF Technologies & Infertility: Current Practices & New Perspectives Quality Management System in Medical Assisted Reproductive Technology (MART) IntechOpen	Webinar by Dr. Kelly Tilleman: https://ecampus.eshre.eu/course/view.php?id=6243

	K.1.1. Key Performance Indicators (structure, process, outcome) for all six quality dimensions	Harper et al., (2012) When and how should new technology be introduced into the IVF laboratory? When and how should new technology be introduced into the IVF laboratory? - PubMed Quality Indicators for all dimensions for infertility care quality: consensus between professionals and patients (Dancet et al., 2013) https://academic.oup.com/humrep/article/28/6/1584/603873 ESHRE Special Interest Group of Embryology and Alpha Scientists in Reproductive Medicine (2017) https://pubmed.ncbi.nlm.nih.gov/28784335	
	K.1.2. If, how and when to implement new procedures	Quality Management System in Medical Assisted Reproductive Technology (MART) https://www.intechopen.com/chapters/82825	
	K.2. European legislation K.2.1. Infection screening K.2.2. Laboratory conditions	ESHRE Revised guidelines for good practice in IVF Laboratories (<i>Complete document</i>) https://pubmed.ncbi.nlm.nih.gov/26908842 EU Tissues and Cells Directive (<i>Complete document</i>)	

L. Safety of Fertility Treatment	L.1. Ovarian hyperstimulation syndrome (OHSS)	Devroey P, Polyzos NP, Blockeel C, An OHSS-Free Clinic by segmentation of IVF treatment, Hum Reprod. 2011 https://www.eshre.eu/-/media/sitecore-files/Accreditation/Nurses/reading-list/Papers/Devroey_der251.pdf Clinical Gynecologic Endocrinology & Infertility, 9th Edition (PDF Drive).pdf Chapter 27: Induction of Ovulation page 2848 - 2851	Webinar by Prof. Dr. Anja Pinborg: https://ecampus.eshre.eu/course/view.php?id=6243
	L.2. Multiple pregnancies	Pinborg A. (2005) IVF/ICSI twin pregnancies: risks and prevention. Hum Reprod Update https://pubmed.ncbi.nlm.nih.gov/16123055	

	L.3. Risks to the mother L.3.1. Procedure related complications L.3.2. Pregnancy related complications	Siristatidis et al. (2013) Controlled ovarian hyperstimulation for IVF: impact on ovarian, endometrial and cervical cancer Hum Reprod Update. <i>(Excluding section: endometrial cancer)</i> https://www.eshre.eu/-/media/sitecore-files/Accreditation/Nurses/reading-list/Papers/Siristatidis_dms051.pdf ESGO/ESHRE/ESGE Guidelines for the fertility-sparing treatment of patients with endometrial carcinoma (HR Open paper only) ESGO/ESHRE/ESGE Guidelines for the fertility-sparing treatment of patients with endometrial carcinoma - PubMed	
	L.4. Risks to the child	Berntsen et al. (2019) The health of children conceived by ART: 'The chicken or the egg?'. Hum Reprod Update https://pubmed.ncbi.nlm.nih.gov/30753453 Hart R, Norman RJ. (2013) The longer-term health outcomes for children born as a result of IVF treatment: Part I--General health outcomes. Hum Reprod Update. https://pubmed.ncbi.nlm.nih.gov/23449642 Pinborg et al. (2013) Why do singletons conceived after assisted reproduction	

		technology have adverse perinatal outcome? Systematic review and meta-analysis. Hum Reprod Update https://pubmed.ncbi.nlm.nih.gov/23154145	
M. Psychosocial Well-being and Patient Support	M.1. Psychosocial care in fertility clinics: patient preferences and well-being M.2. Psychosocial care of patients before treatment M.3. Psychosocial care of patients during treatment M.4. Psychosocial care of patients after treatment	ESHRE Guideline for routine psychosocial care (<i>Summary document only</i>) Psychosocial care Gameiro, S., & Finnigan, A. (2017). Long-term adjustment to unmet parenthood goals following ART: a systematic review and meta-analysis. <i>Hum Reprod Update</i>, 23(3), 322-337 Long-term adjustment to unmet parenthood goals following ART: a systematic review and meta-analysis - PubMed Gameiro, S., Leone, D., & Mertes, H. (2024). Fertility clinics have a duty of care towards patients who do not have children with treatment. <i>Hum Reprod</i>, 39 (8), 1591-1598. Fertility clinics have a duty of care towards patients who do not have children with treatment Human Reproduction Oxford Academic Sousa-Leite, M., Costa, R., Figueiredo, B., & Gameiro, S. (2023). Discussing the possibility of fertility treatment being unsuccessful as part of routine care offered at clinics: patients' experiences,	Talk of ESHRE Florence course 2018 by Prof. Dr. Eline Dancet: https://ecampus.eshre.eu/course/view.php?id=6243 Link to slides for the above: https://ecampus.eshre.eu/pluginfile.php/49393/mod_kalturnavideo/content/0/AC25A953-B6B7-45BA-BA9B-B2F1CF8D7B8B.pdf

		willingness, and preferences. <i>Hum Reprod</i> , 38 (7), 1332-1344. Discussing the possibility of fertility treatment being unsuccessful as part of routine care offered at clinics: patients' experiences, willingness, and preferences - PMC	
	M.5. Human and system factors of patient-centered care	Dancet EA, et al., (2011) Patient-centred infertility care: a qualitative study to listen to the patient's voice. Download PDF	
	M.6. Informed and shared decision making	Elwyn G, et al., (2017). A three-talk model for shared decision making: multistage consultation process. <i>BMJ</i> . Download PDF VL Peddie, E van Teilingen, S Bhattacharya (2005) A qualitative study of women's decision-making at the end of IVF treatment; <i>Human Reproduction</i> A qualitative study of women's decision-making at the end of IVF treatment - PubMed	
N. Research	N.1. Finding and reviewing research	Essentials of Nursing Research (8th edition, 2014) Denise Polit & Cheryl Tatano Beck; Wolters Kluwer Health/ Lippincott Williams & Wilkins; Philadelphia Print ISBN: 978-1451176797 Research Chapter 7: Finding and reviewing research evidence in the	Talk of ESHRE Florence course 2018 by Prof. Dr. Eline Dancet: https://ecampus.eshre.eu/course/view.php?id=6243

		literature (<i>Only the following sections: 'Summary points', p130; 'Locating relevant literature for a research review', p118-124</i>)	
	N.2. Basic principles of quantitative and qualitative research	Essentials of Nursing Research (8th edition, 2014) Denise Polit & Cheryl Tatano Beck; Wolters Kluwer Health/ Lippincott Williams & Wilkins; Philadelphia, Print ISBN: 978-1451176797 Chapter 3: Key concepts and steps in qualitative and quantitative research (<i>The following section only: 'Summary points', p59-60</i>) Chapter 11: Measurement and data quality (<i>The following section only: 'Summary points', p 212</i>)	
	N.3. Informed consent and other procedures for protecting research	Essentials of Nursing Research (8th edition, 2014) Denise Polit & Cheryl Tatano Beck; Wolters Kluwer Health/ Lippincott Williams & Wilkins; Philadelphia, Print ISBN: 978-1451176797 Chapter 5: Ethics in research (<i>Only the following sections: 'Summary points', p96; 'Informed consent' and 'Confidentiality of procedures', p87-89</i>)	
	N.4. Collecting quantitative data	Essentials of Nursing Research (8th edition, 2014) Denise Polit & Cheryl Tatano Beck; Wolters Kluwer Health/ Lippincott Williams & Wilkins; Philadelphia, Print ISBN: 978-1451176797 Chapter 10 : Sampling and data collection in quantitative studies (<i>Only the following</i>	

		sections; 'Summary points', p196-97; 'Sample in quantitative studies', p181-182 and 'Self-reports', p184-89)	
	N.5. Interpreting data	Clinical Gynecologic Endocrinology & Infertility, 8th Edition (PDF Drive).pdf Appendix I: Interpreting Epidemiologic Reports (<i>Complete appendix</i>) Essentials of Nursing Research Chapter 12: Statistical analysis of quantitative data (<i>Only the following section: 'Tips on reading text with statistical information', p240-242</i>)	