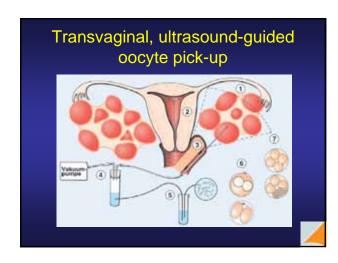
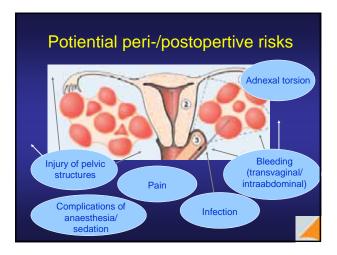
Risks of oocyte pick-up

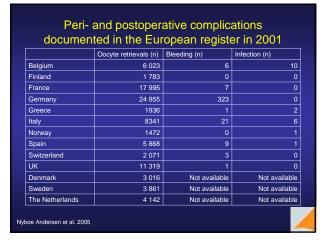
Priv.- Doz. Dr. med. Annika K. Ludwig ENDOKRINOLOGIKUM Hamburg Zentrum für Hormon- und Stoffwechselerkrankungen, Reproduktionsmedizin und Pränatale Medizin





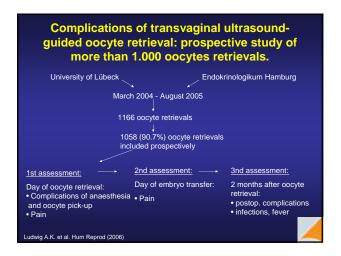






documented in the European register in 2001				
	Oocyte retrievals (n)	Bleeding (n)	Infection (n)	
Belgium	6 023	6	10	
Finland	1 783	0	0	
France	17 995	Z		
Germany	24 955	323	0	
Greece	1936		2	
Italy	8341	21	6	
Norway	1472	0	1	
Spain	5 868	9	1	
Switzerland	2 071	3	0	
UK	11 319	1	0	
Denmark	3 016	Not available	Not available	
Sweden	3 861	Not available	Not available	
The Netherlands	4 142	Not available	Not available	

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Oocyte retrieval

- General anaesthesia or sedation with midazolam 2.5 mg and pethidin 50 mg
- the vagina was soaked with an isotonic saline solution
- covered with a sterile surgical sheet and the gynaecologist wore sterile surgical gloves
- ultrasound transducer was covered with a sterile plastic sheet
- ultrasound-guidance with a 16G single lumen needle
- · no prophylaxis with antibiotics

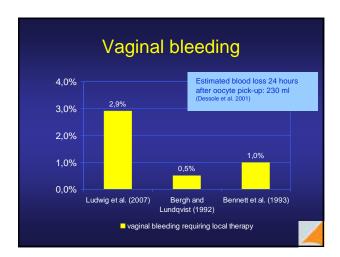
Ludwig A.K. et al. Hum Reprod (2006)

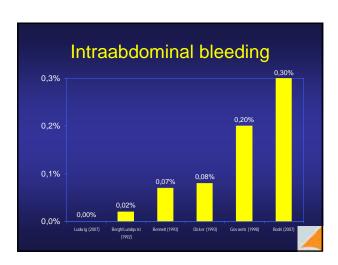
Patients Oocyte retrievals (n) Age at retrieval (years)* 34.21 ± 4.52 BMI (kg/m²) * 23.79 ± 7.39 Prior abdominal surgery 56.1% 14.6% Diagnostic laparoscopy Operative laparoscopy 26.1% Laparotomy 15.4% Surgeries (n)* 0.84 ± 0.98 mean ± standard deviation Ludwig A.K. et al. Hum Reprod (2006)

Cycle outcome n = 1058 Number of preceeding cycles (n) 1.15 ± 0.43 ICSI 76.9% Cycle outcome 8.75 ± 5.47 Oocytes retrieved (n)* Embryos transferred (n)* 2.10 ± 0.63 Pregnancy rate 21.4% Clinical pregnancy rate 14.0% Extrauterine pregnancies 6.8% 16.9% Ongoing pregnancy rate Ludwig A.K. et al. Hum Reprod (2006)

Anaesthesia

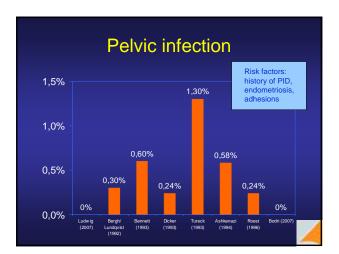
- 94.9% (1004/1058) of oocyte pick-ups performed under general anaesthesia
- No complications during/ after general anaesthesia
- Literature: no data on complications of anaesthesia
- Case-report on bradycardia after paracervical admistration of mepivacain

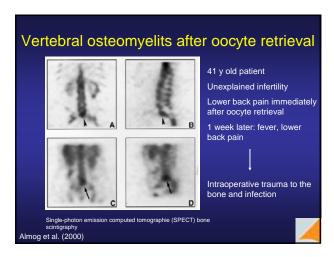




Injury of pelvic structures

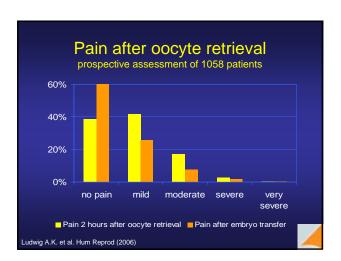
- In our study 1 case of injury of the ureter
- Literature: Case reports
- Case reports of injury of ureter
 (Jones et al., 1989;Coroleu et al., 1997;Fugita & Kayoussi, 2001;Miller et al., 2002
- 2 cases of perforated appendicitis with puncture holes in the appendix (Akman et al., 1995;Roest et al., 1996).

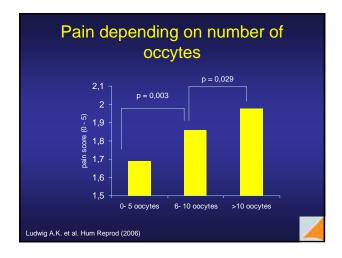




Pre-/perioperative antibiotics? • no prospective, controlled data, only case-reports routine prophylaxis prophylaxis in patients with increased risk (prior PID or endometriosis)

Adnexal torsion Very rare complication: • Govaerts et al. (1998): 0.13% (2/1500) • Bodri et al. 2007: 0.02% (1/4052)





Complications of oocyte pick-up - conclusions for counselling -

- Complications of anaesthesia: very rare
- Vaginal bleeding: 3/ 100
- Severe intraabdominal bleeding: <1/ 1000
- Injury of organs: 1/1000
- Pelvic infection: 1-5 /1000
- Adnexal torsion: <1/ 1000
- Severe pain: 3/ 100

Ludwig A.K. et al. Hum Reprod (2006)

Case for discussion

- 38 year old patient
- male factor infertility
- endometriosis rAFS III
- oocyte pick up for ICSI in 01 / 2007
- tuboovarian abscess
 - 10 days after oocyte pick up
 - → severe abdominal pain, fever
- Treatment: laparoscopy and laparotomy, antibiotic treatment, hospitalisation for 2 weeks

8

Case for discussion	
• 09 / 2007	
patient returned for another ICSI cycleQuestions:	
What is her risk to have another tuboovarian-abscess?	
 Is there a possibility of prophylaxis? e.g. intravaginal desinfection preoperatively 	
e.g. peri-operative antibiotics - Would you take the risk to perform another	
oocyte pick-up in this patient?	
	•