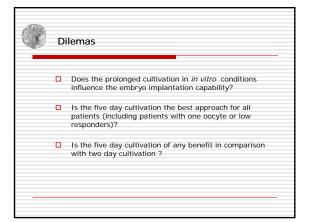
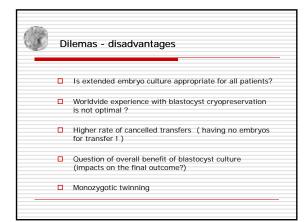
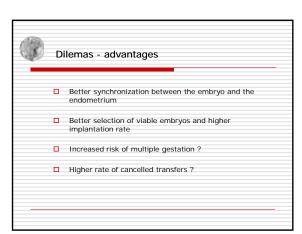
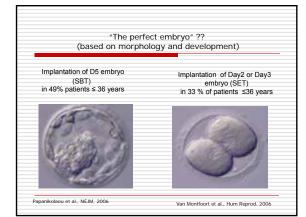


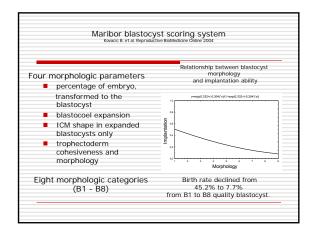
Analysis of Cochrane data
Why do we prefer to transfer blastocyst stage embryo?
Analysis of retrospective, non-randomized comparison of day-2 ET versus day-5 ET
Extended embryo culture in non stimulated cycles, poor low and normal responders
To evaluate the clinical efficacy of using day 5 embryo transfer for all patients
Slow freezing or vitrification ?
Outcome of blastocyst transfers

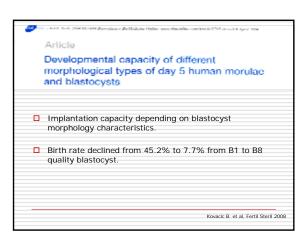


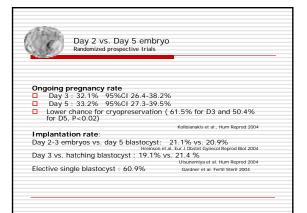








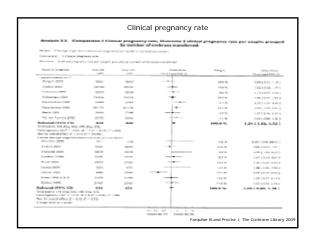




# Cochrane data (2009) Primary outcome ( live births per couple) Secondary outcome ( clinical pregnancy rate, multiple pregnancy rate, high order MPR, cryopreservation, failure to have any ET per couple ) Outcomes not appropriate for statistical analysis ( live births per OPU and ET, CPR/OPU&ET, implantation rate

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Levius 2004	3/23	3/11		21%	1.40 (-0.26, 7 a
. evinn 2002	8/46	15/44	-	21%	341[015.8
Peparakehoru 2005	38.83	23489	-	:12%	2.40 [ 1.25, 4.6
Paparako eta 2005	56/175	38/176	-	246%	1714106 27
Aesa 300	2450	24:49	+	122%	092 [ 042, 2 0
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Total (95% CI) total every 204 (Day 56): 15 stransgenes, Chi <sup>2</sup> = 5.92 c tes for overal effect Z = 7.3	c! - 8 p* = 004), 17	<b>578</b>		100.0 %	1.35 [ 1.05, 1.74
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Live birth rate per couple (2)						
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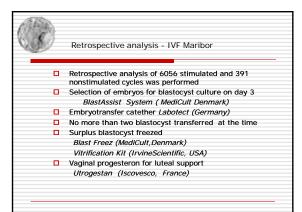


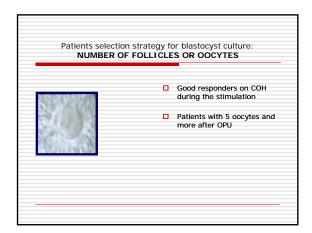
	Miscarriage rate per couple						
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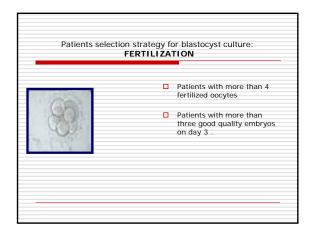
			cancellation rate				
Annual Extra	Analysis B.A. Historianskin S Petters in transfer applicate rate apr counts. Stategore S Fellow in transfer as analysis per couple grouped by months of embryos transferred.						
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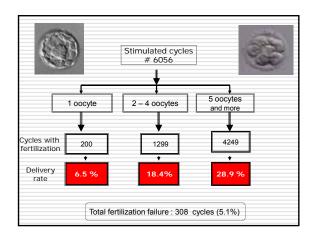
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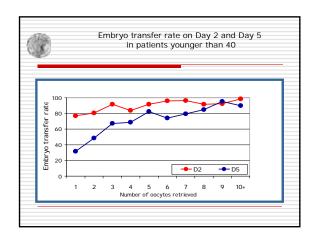


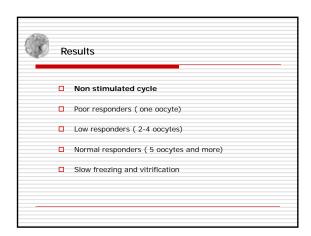


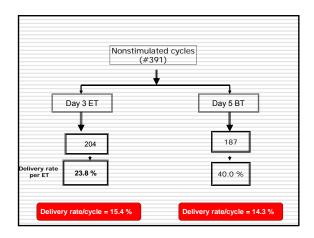




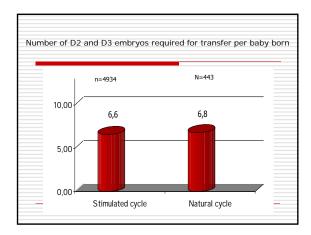




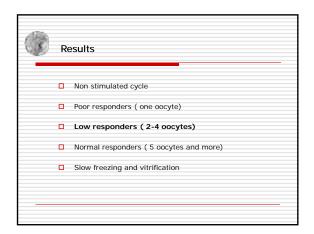


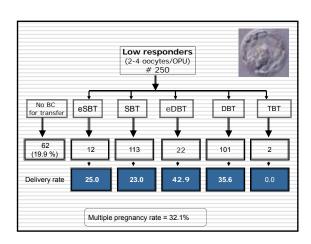


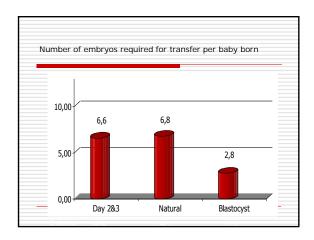
Is there any benefit from the culture of a single oocyte to a blastocyst-stage embryo in unstimulated cycles?					
Voljko Vlaimeljavki <sup>1,2</sup> , Borat S Mejco Click Sajko <sup>2</sup>					
SI 200 Market Streets	ET on day 2 (204)	ET on day 5 (187)	p-value		
Docyte recovery rate	79.4(162/204)	82.3 (154/187)	NS		
Fertilization rate	73.8 (113/153)	77.7 (115/148)	NS		
ET rate per aspiration	51.5 (105/204)	29.4 (55/187)	<0.05		
Pregnancy rate per ET	23.8 (25/105)	40.0 (22/55)	<0.05		
PR calculated /day 2 ET	23.8 (25/105)	22.2 (22/99)	NS		
PR/ aspirated oocyte	15.4 (25/162)	14.3 (22/154)	NS		

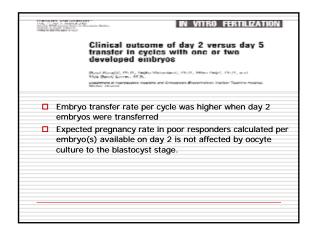


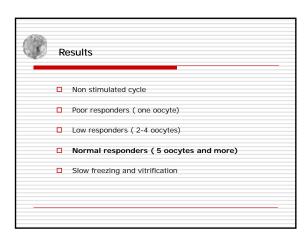
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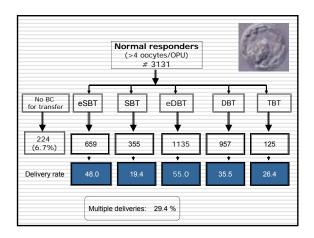


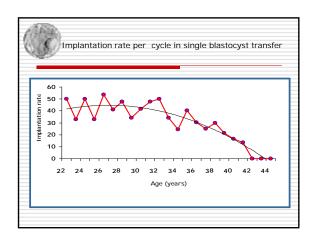


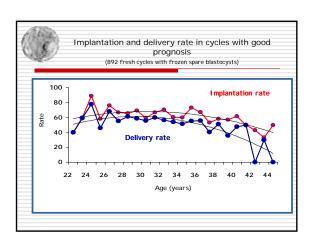


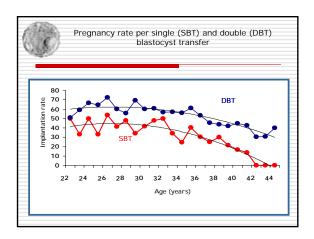


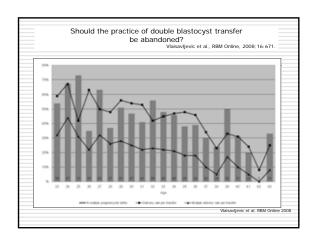


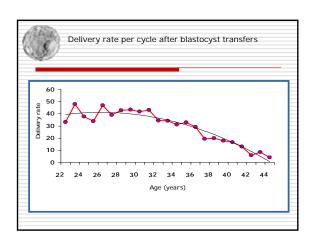




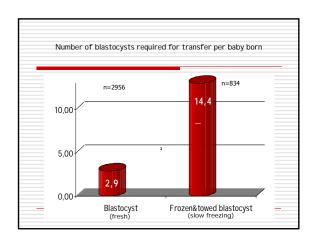




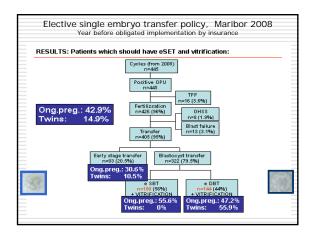








Retrospective analysis of nonselective blastocyst slow free (n=667 cycles)						
	At least 1 optimal blastocyst (n=317)	Only nonoptimal blastocysts (n=350)				
Survival rate (%)	77.3	65.6				
Transfers (%)	100	91.3				
Transferred blastocysts	1.6 ± 0.5	1.3 ± 0.7				
Positive beta hCG (%)	33.3	22.0				
Ongoing pregnancies rate (%)	19.7*	12.7				





# Conclusion (1) Cochrane review 2009

- ☐ Significant difference in live-birth rate per couple in favour of blastocyst transfer particulary in:

  - a. Good prognosis patients
     b. Equal number of embryos transferred ( including single embryo transfer)
     c. Randomization after Day3
- Rate of embryo freezing for couple was significantly higher on Day 2 to 3 transfers
- Failure to transfer any embryo was significantly higher in the blastocyst group, but not different in good prognosis patients.



### Conclusions (2)

- Necessary improvement of:
  - patient selection
  - embryo selection
  - more successful cryopreservation programmes
- Implementation of prospective randomized studies is necessary to select effective strategies.
- Absence of international standard procedures for eSET may hinder full implementation of eSBT.



## Conclusions (3)

Same number of pregnancies with lower number of fresh transferred embryos?

### YFS

- Major barriers for eSBT seem to be:
  - patients' lack of knowledge.actual reimbursement system.

  - cryopreservation technique ?



