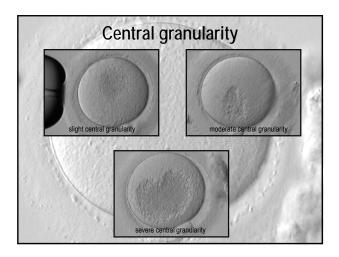


Author	spindle	spindle	Fertilization		1.17
MI-622	positive	near Pb	spindle	none	3.17
Wang et al., 2001	327/533 (61.4)	61 (18.7)	61.8%	44.2%	4
Wang et al., 2001	1266/1544 (82.0)	nd	69.4%	62.9%	
Cooke et al., 2003	115/124 (92.7)	35 (30.4)	70.4%	nd	
Moon et al., 2003	523/626 (83.6)	252 (48.2)	84.9%	75.5%	
Rienzi et al., 2003	484/532 (91.0)	254 (52.5)	74.8%	33.3%	
Cohen et al., 2004	585/770 (76.0)	nd	70.6%	62.2%	
Konc et al., 2004	320/428 (74.8)	31 (9.7)	73.4%	nd	



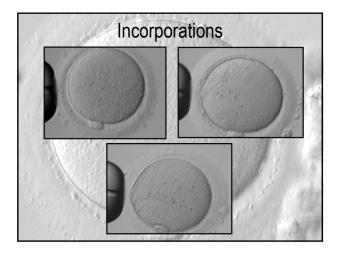



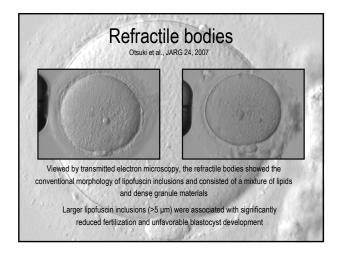


## Relationship between central granularity and pregnancy outcome Kahraman et al., HR 15, 2000

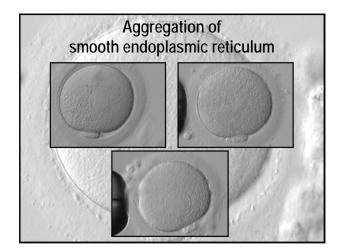
- Anomaly was observed in 8% of the cycles (35% of the eggs were positive)
- Fertilization rate, embryo quality were inconspicuous
- Ongoing pregnancy rate was 12.8% (from slight form of CG), the implantaion rate 4.3%
- PGD in 44 blastomeres from impaired embryos revealed that 52.3 % were in fact aneuploid

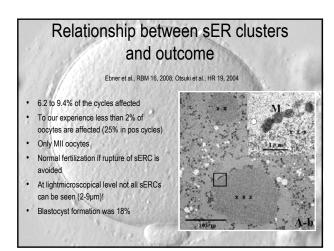
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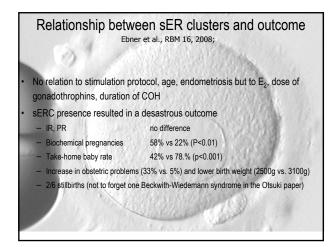


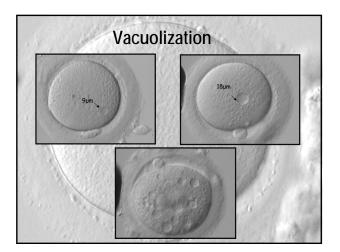


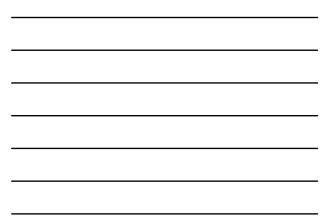


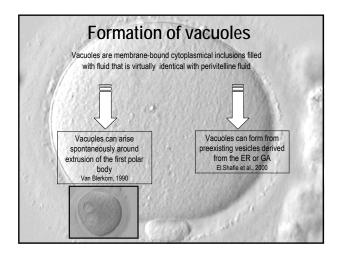




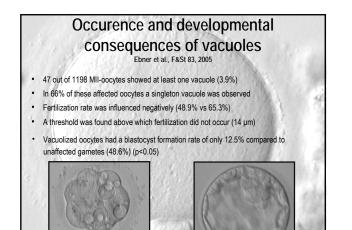


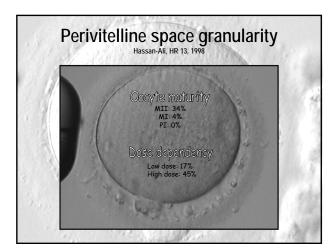




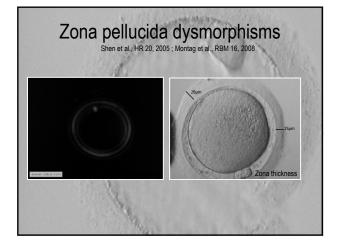




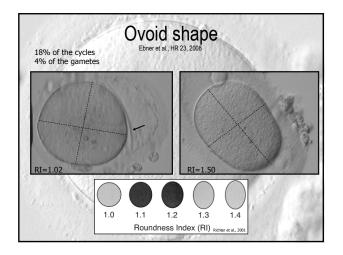


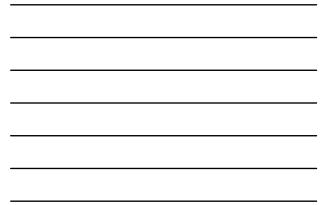


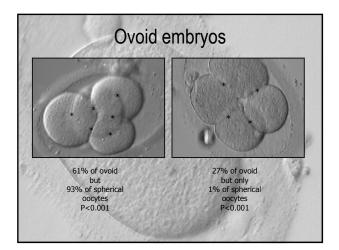




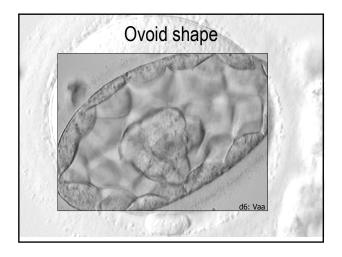












## Conclusion

- The developmental fate of an oocyte is strongly dependant on the quality of the follicle (O<sub>2</sub>, apoptosis)
- Controlled ovarian hyperstimulation recruits follicles of different qualities
- Either nuclear or cytoplasmic maturation may be affected both of which can influence oocyte morphology

(1.6 M)

 Potential negative predictors are aggregation of sER, vacuolization, dense central granulation and undetectable meiotic spindles

