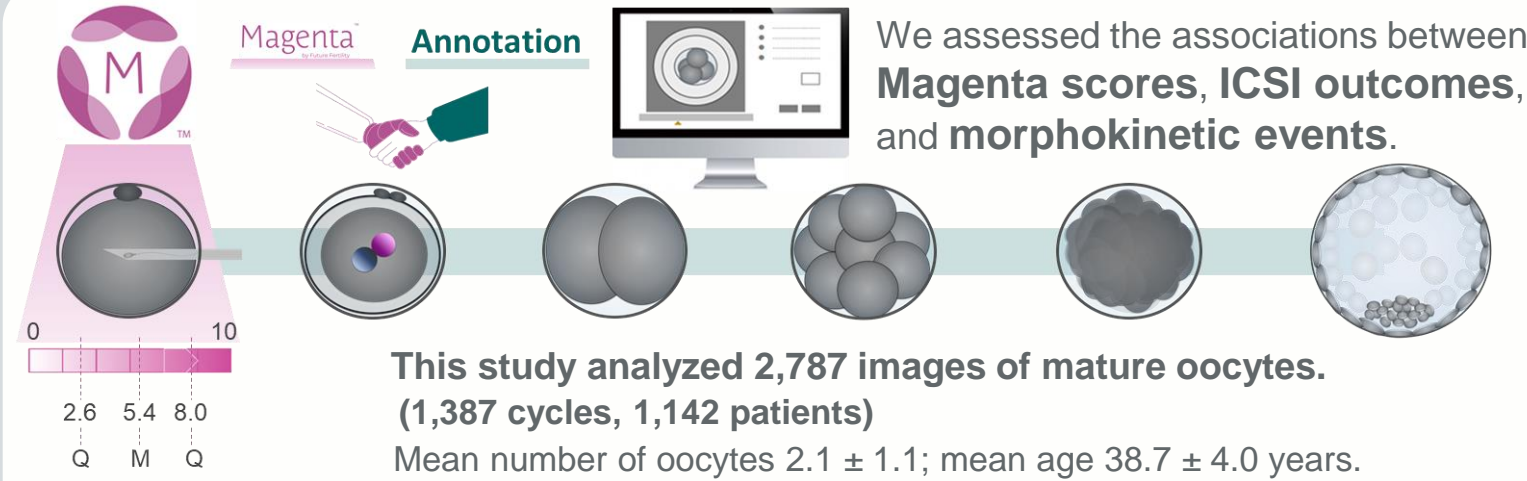




## BACKGROUND

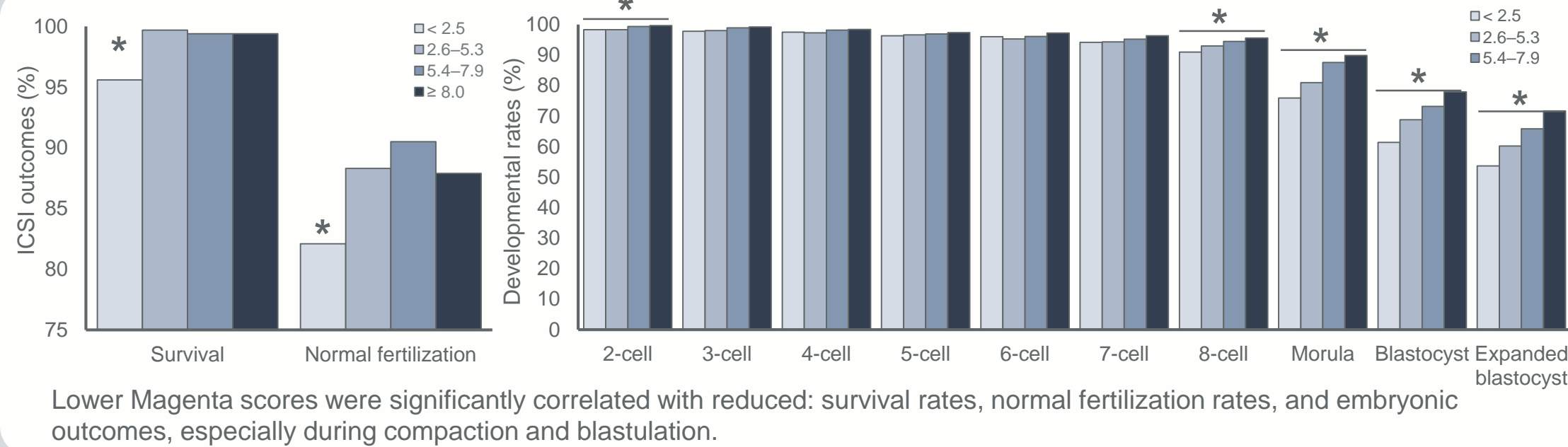
Magenta is a deep learning-based tool that predicts the embryonic development of mature oocytes to the blastocyst stage. It provides individual oocyte scores where higher scores indicate greater likelihood of blastocyst development. However, the specific relationship between Magenta score and morphokinetic parameters is unclear.

## MATERIALS & METHODS

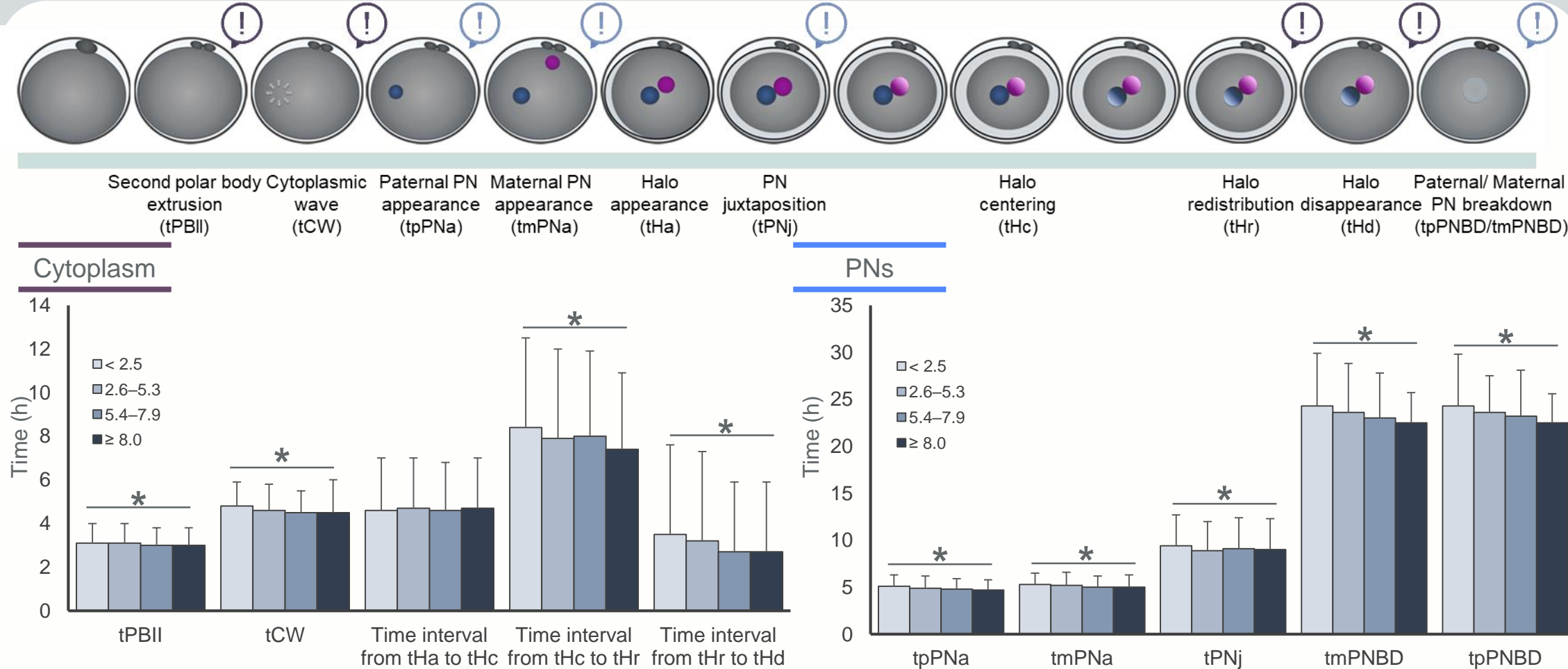


The study cohort was stratified based on the quartile values of the Magenta scores. Mean±SD [5.3 ± 2.9], Median [5.4], Quartiles [2.6, 8.0]

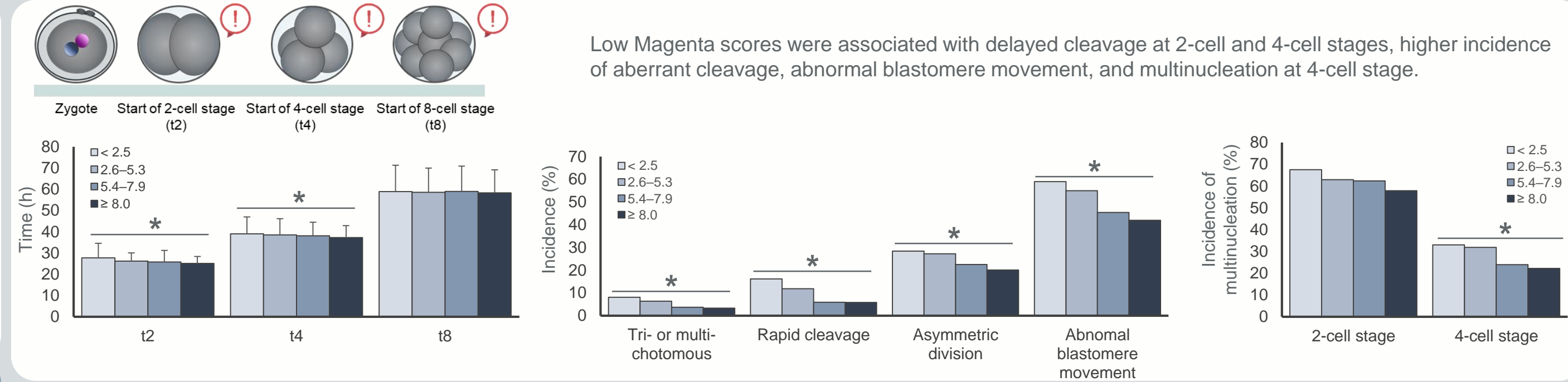
## RESULTS 1. ICSI OUTCOMES & DEVELOPMENTAL RATES



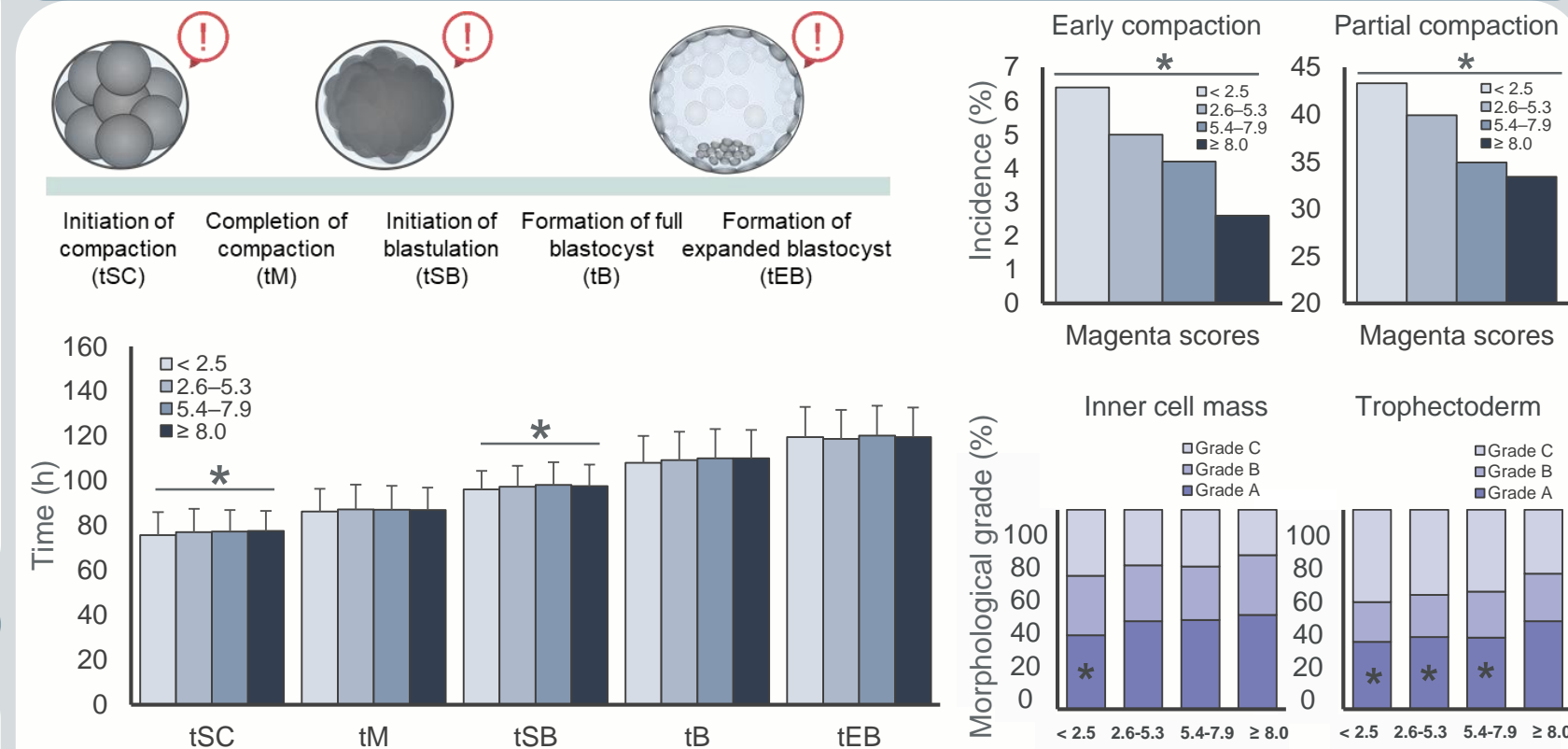
## RESULTS 2. MORPHOKINETICS DURING FERTILIZATION



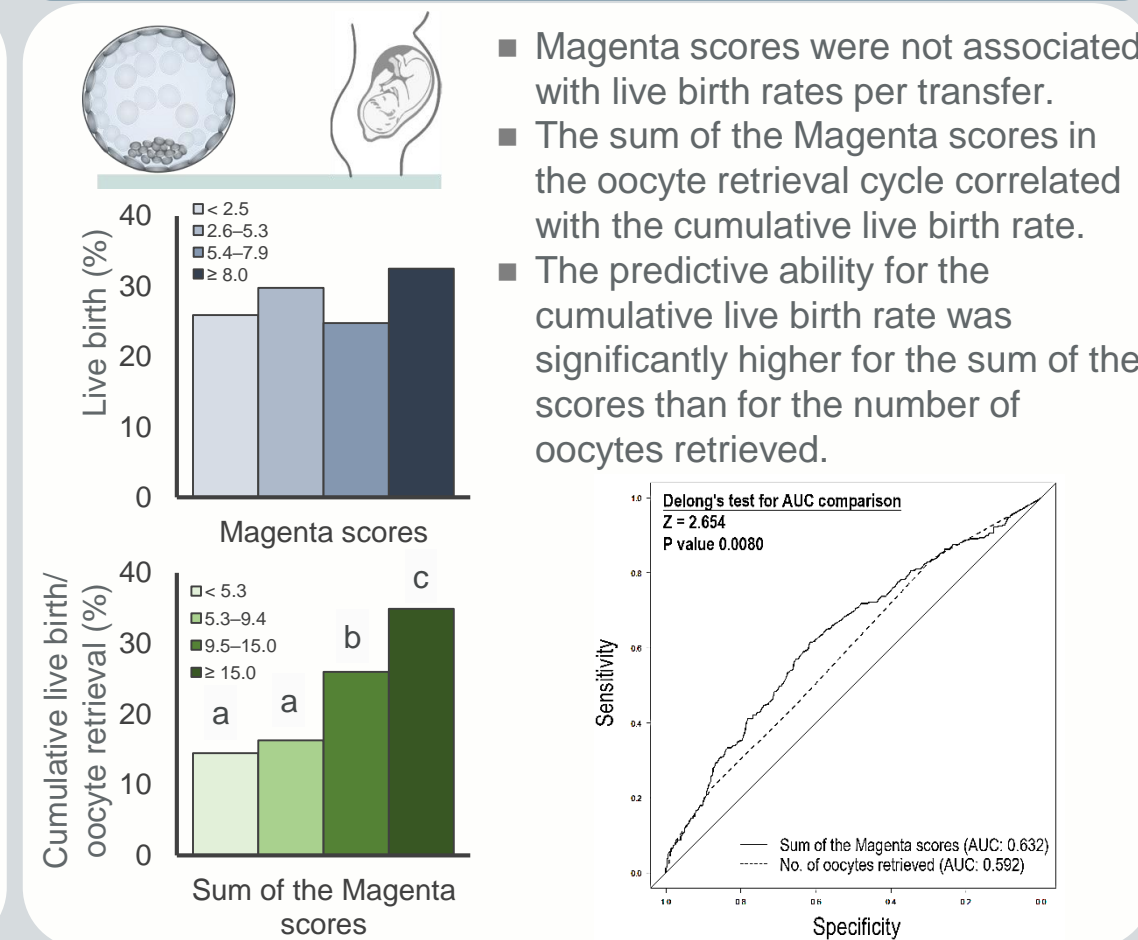
## RESULTS 3. MORPHOKINETICS DURING CLEAVAGE STAGE



## RESULTS 4. MORPHOKINETICS DURING COMPACTION & BLASTULATION



## RESULTS 5. PREGNANCY OUTCOMES



## CONCLUSION

The Magenta score may reflect the integrity of the cell membrane and cytoplasm, as well as the organization of the cytoskeleton during fertilization and the early cleavage stages, which contribute to later development, including cell polarization during compaction, followed by blastulation and expansion.

