1,000 Mosaic Embryo Transfers

Viotti et al. 2021

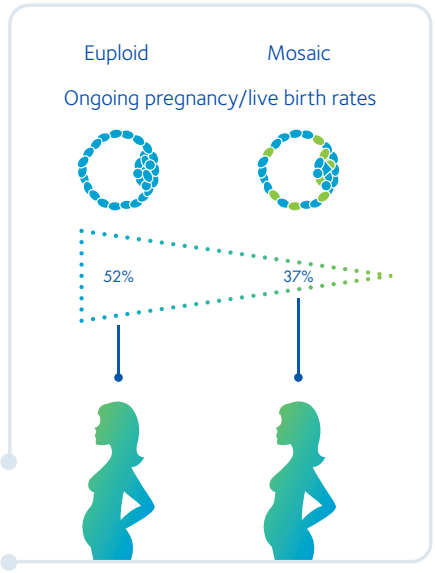
Study aim:

Using outcome data from 1,000 mosaic embryo transfers to formulate an embryo ranking system for clinical use.

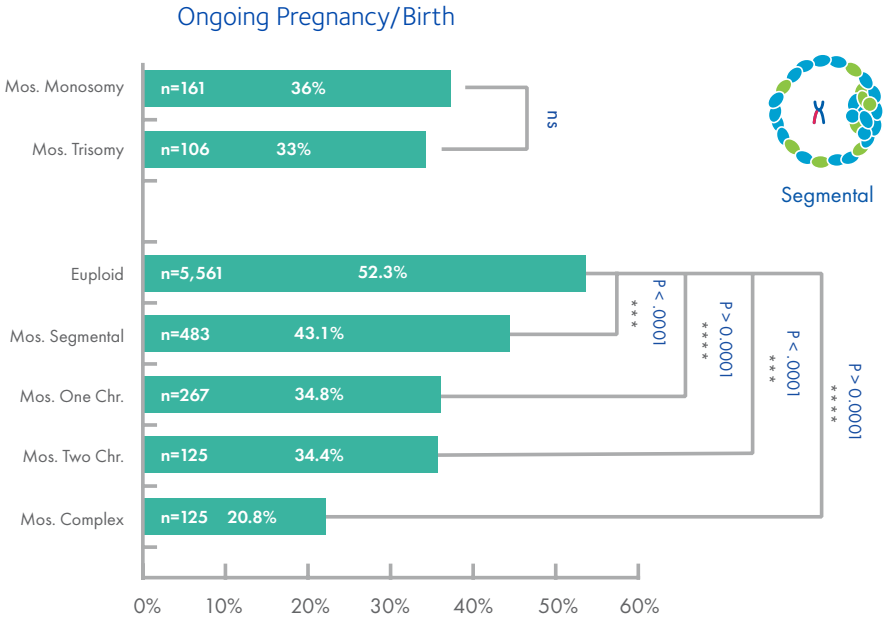
Data collection:

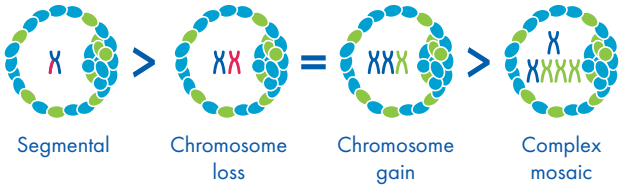
- **12,187** blastocysts analyzed by NGS
- **2,282 (18.7%)** diploid/aneuploid **mosaic embryos** detected
- **1,000** embryos with mosaic results were transferred to **923 women undergoing IVF/PGT** (467 of which had no euploid embryos)
  - **517** with whole chromosome aneuploidies
  - **483** with segmental abnormalities
- **5,561 euploid embryo transfers were used as a control**

Mosaic embryo transfer results in significantly fewer positive outcomes



Segmental mosaic embryos have better pregnancy outcomes than whole-chromosome mosaic embryos





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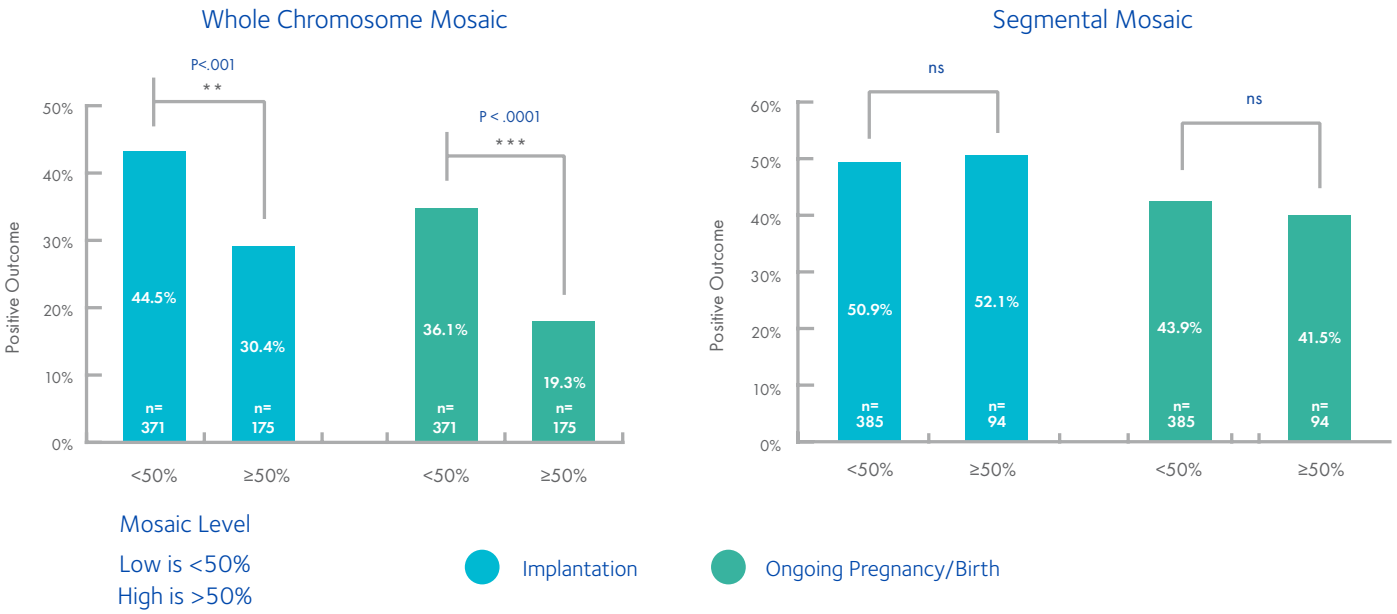
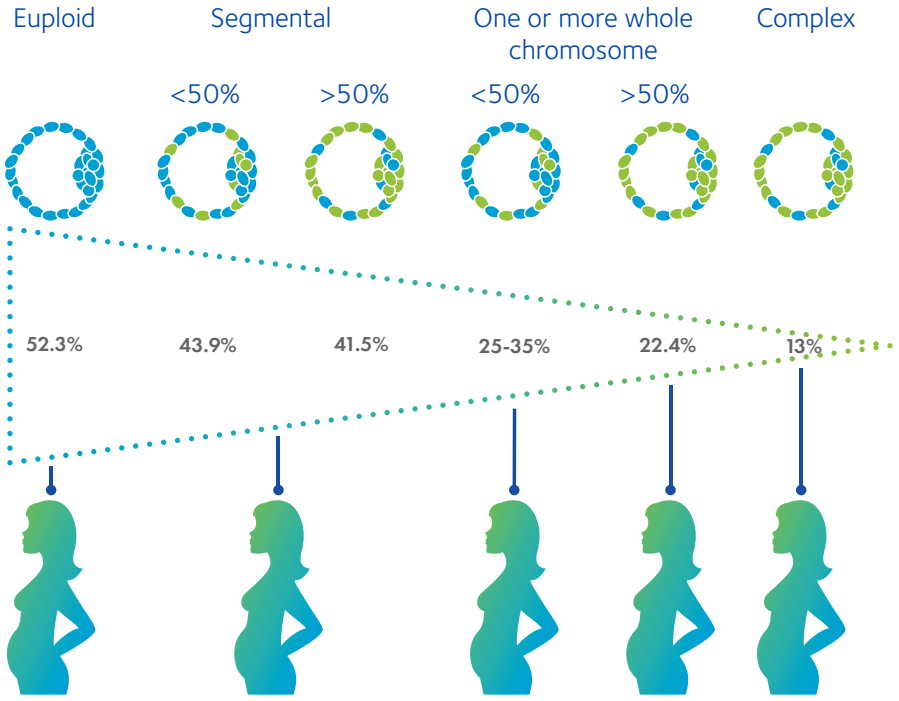
The percentage of mosaicism affects whole-chromosome mosaics but not segmental mosaics



A summary statement from the authors:

"The field has been transferring embryos "blindly" for 40 years, and a proportion of those undoubtedly have been of the mosaic category; now refined PGT-A tools can identify and characterize mosaics, allowing for their optimal clinical management."



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