1,000 Mosaic Embryo Transfers

Viotti et al. 2021

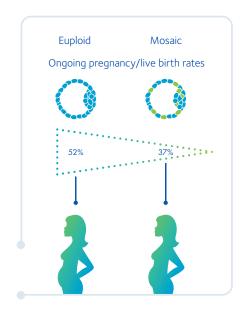
Study aim:

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

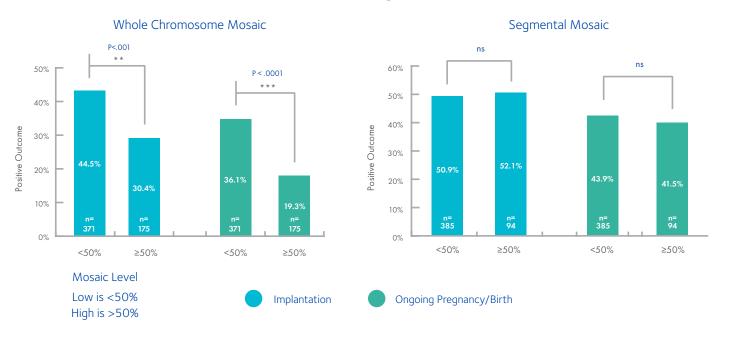


Fertility Solutions

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

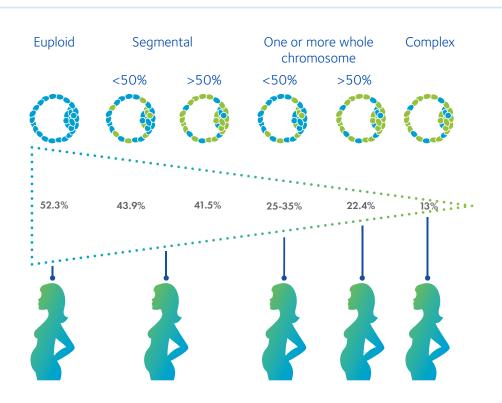
Ongoing Pregnancy/Birth Mos. Monosomy n=106 Mos. Trisomy Chromosome Chromosome Segmental Complex loss gain mosaic Euploid P > 0.000 P < .0001 Mos. Segmental P > 0.000 Mos. One Chr. Mos. Two Chr. Mos. Complex 10% 30% 40% 50% 60% CooperSurgical®

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."





Read the published paper in full



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