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

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

Euploid  Segmental  One or more whole chromosome  Complex

<50% <50% >50% >50%

52.3% 43.9% 41.5% 25-35% 22.4% 13%

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