

**Supplementary Table SIII** Additional datasets used in evaluating performance of the genetics artificial intelligence model.

Datasets <sup>a</sup>	Day 5 mosaic test dataset	Day 6 test dataset	Day 5 double-blind test dataset—India	Day 5 double-blind test dataset—Spain (GERI)	Day 5 double-blind test dataset—Malaysia (EmbryoScope) <sup>c</sup>
Total images	403	5574	178	182	141
Number of patients	334	2571	31	63	65
Dates treated	2018–2020	2013–2020	Jun–Aug 2021	May–Sep 2021	Nov 2019–Oct 2020
Number of cycles	334	2651	31	63	66
Average cycles per patient (range)	1.0 (1–1)	1.0 (1–3)	1.0 (1–1)	1.0 (1–1)	1.0 (1–2)
Average embryo cohort size (range) <sup>b</sup>	1.2 (1–6)	2.1 (1–17)	6.4 (2–12)	2.7 (1–14)	2.1 (1–11)
Average patient age in years (range)	35.0 (19–45)	36.2 (19–51)	34.6 (25–51)	29.0 (18–43)	36.8 (26–49)
Number of donor gamete(s) used (%)	50 (12.4%)	932 (16.7%)	Not recorded	11 (6.0%)	Not recorded
Number of euploid embryos (%)	0 (0.0%)	2941 (52.8%)	132 (74.2%)	112 (61.5%)	83 (58.9%)
Number of aneuploid embryos (%)	0 (0.0%)	2633 (47.2%)	46 (25.8%)	70 (38.5%)	58 (41.1%)
Number of mosaic embryos (%)	403 (100.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
<i>Origin of images</i>					
Ovation—Austin (TX, USA)	209 (51.9%)	3944 (70.8%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
San Antonio IVF (TX, USA)	22 (5.5%)	716 (12.8%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Midwest Fertility Specialists (IN, USA)	33 (8.2%)	300 (5.4%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
California Fertility Partners (CA, USA)	139 (34.4%)	605 (10.9%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Ovation—Baton Rouge (LA, USA)	0 (0.0%)	9 (0.1%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Wings IVF Women's Hospital (Ahmedabad, India)	0 (0.0%)	0 (0.0%)	178 (100.0%)	0 (0.0%)	0 (0.0%)
IVF-Spain (Alicante, Spain)	0 (0.0%)	0 (0.0%)	0 (0.0%)	83 (45.6%)	0 (0.0%)
IVF-Spain (Madrid, Spain)	0 (0.0%)	0 (0.0%)	0 (0.0%)	66 (36.3%)	0 (0.0%)
IVF-Spain (San Sebastián, Spain)	0 (0.0%)	0 (0.0%)	0 (0.0%)	33 (18.1%)	0 (0.0%)
Alpha IVF & Women's Specialists (Selangor, Malaysia)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	141 (100.0%)

<sup>a</sup>All datasets for evaluating performance were uncleansed (untrainable data cleansing (UDC) not applied).<sup>b</sup>Some cohorts consisted of a combination of Day 5 and Day 6 embryos—these were separated according to dataset.<sup>c</sup>Time-lapse images for an additional 16 mosaic and aneuploid embryos were provided by Alpha IVF & Women's Specialists for preimplantation testing for aneuploidies (PGT-As) rebiopsy analyses. See [Supplementary Table SV](#) for more information.