

Differences in chromosome abnormalities in eggs and embryos between fertility centers

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In addition of the increase of chromosome abnormalities with maternal age we have reported a iatrogenic effect of ART procedures on chromosome abnormalities. To eliminate confounding factors, egg donor cycles undergoing PGS were compared among different fertility centers. Very significant differences were observed (18 to 60% aneuploidy rate, $p < 0.001$). Further study of doctors within the same center found that those using different controlled ovarian stimulation protocols had different rates of aneuploidy and mosaicism. Other factors identified were culture media type, temperature and Ph control during embryo culture, type of plastic dishes used, and other contaminants.