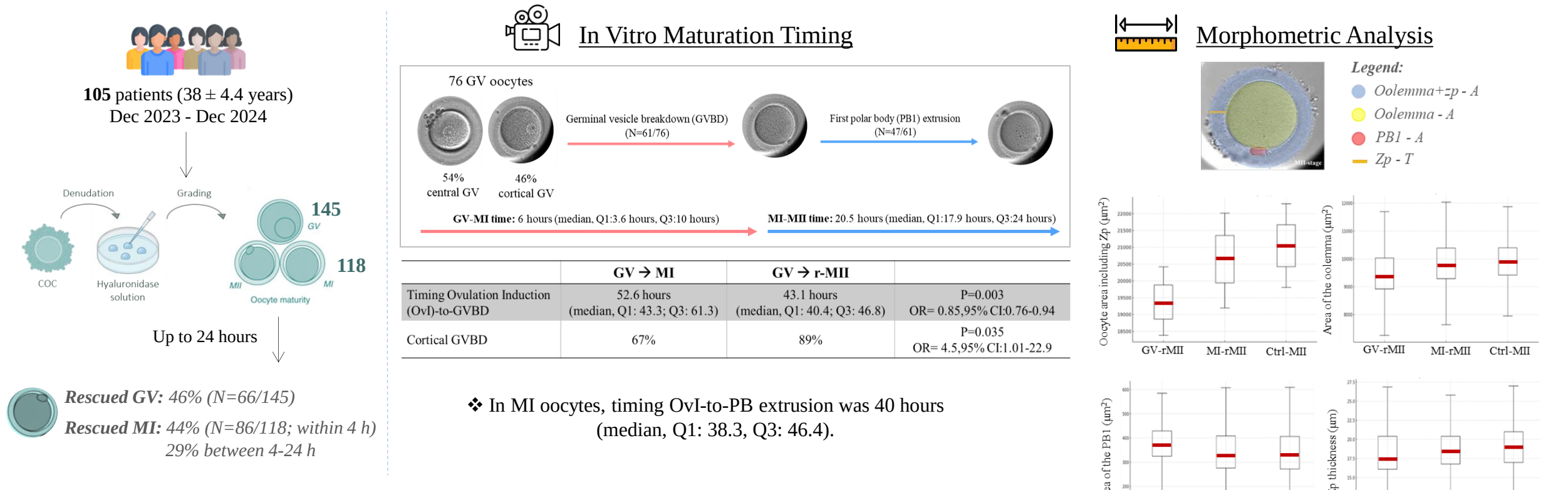


Morphometric and morphodynamic factors influencing GV to MII oocyte maturation in rescue-IVM

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STUDY QUESTION: What morphometric and morphodynamic features are associated with the maturation of germinal vesicle (GV) and metaphase-I (MI) oocytes to the metaphase-II (MII) stage in rescue-IVM?



CONCLUSIONS: Additional evaluations of embryo competence following r-IVM are required, as current guidelines for culture strategies and media are lacking. Timely GVBD and cortical GV positioning show promise as potential markers for r-IVM, indicating their involvement in regulating oocyte meiosis. Leveraging AI can improve data collection and help develop more accurate predictive models for the competence of rescued oocytes.

GV-rMII oocytes were smaller than both MI-rMII and Ctrl-MII oocytes; no difference was found between the latter two.