

Gamete Alert

Artificial Intelligence(AI) Versus Embryologist : A systematic review on embryo selection

Embryo selection through artificial intelligence (AI) has shown promising results when compared to embryologists, according to a systematic review. AI models consistently outperformed clinical teams in predicting embryo morphology grade and the likelihood of successful clinical pregnancy. The AI models had a median accuracy of 75.5% for predicting embryo morphology grade and 77.8% for predicting clinical pregnancy, compared to embryologist's accuracy of 65.4% and 64%, respectively. When both images/time-lapse and clinical information inputs were combined, AI models had a median accuracy of 81.5%. These findings suggest that AI has the potential to improve in vitro fertilization (IVF) success rates. However, there is a need for prospective evaluation and external validation of AI models. The focus should shift from successful implantation to ongoing pregnancy or live birth as the ultimate clinical outcome.

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