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.

Embryo selection through artificial intelligence versus embryologists: a systematic review

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