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Chapter 3  Non-invasive metabolomic profiling as an adjunct to morphology for non-invasive embryo assessment in women undergoing single embryo transfer.
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Chapter 4  Non-invasive viability assessment of day 4 frozen-thawed human embryos by near-infrared spectroscopy.
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Chapter 5  Day 3 embryo selection by metabolomic profiling of culture medium with near-infrared spectroscopy as an adjunct to morphology: a randomized controlled trial.
Chapter 6  No evidence that embryo selection by near-infrared spectroscopy in addition to morphology is able to improve live birth rates: results from an individual patient data meta-analysis.

Chapter 7  The association of the blastomere volume index (BVI), the blastomere symmetry index (BSI) and the mean ovality (MO) with ongoing implantation after single embryo transfer.

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