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Endoscopy-mediated intratubal insemination in the cow - development of a novel minimally invasive AI technique

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Abstract

Conventionally inseminated spermatozoa suffer a dramatic reduction in numbers during their long journey until fertilization. In addition sperm survival seems to be strongly affected by the reconstitution of the female reproductive tract in the post partum period. The purpose of this study was to develop a novel AI technique for cattle that allows the deposition of spermatozoa directly into the ampulla in the immediate vicinity of the fertilization site. This new reproductive biotechnique was investigated with focus on semen origin, sperm dosage, semen preparation and time of insemination. Finally, a first practical application was carried

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