

Uterus transplantation in a sheep model: Novel surgical technique with long-term survival and uterus vitality. first case series in Argentina

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Resumen

Objective: To develop a sheep autologous uterus transplantation (UT) program with an innovative surgical technique and assess long term uterus vitality and animal survival. **Methods:** A novel surgical technique consisting of the procurement of the complete uterus and the two ovaries, back table vascular reconstruction, and subsequent implantation in the same animal, performing only two arterial and two venous anastomoses. **Results:** Four autologous transplantations were performed; anesthesia and surgery were well tolerated by all the animals without complications. Direct observation and Doppler US performed a week after UT and laparoscopy performed three months later confirmed uterus vitality. All animals were alive more than a year after transplantation. **Conclusions:** Our study was the first to describe a novel surgical technique for sheep uterus autologous

transplantation in Latin America, showing long-term survival and uterus vitality.

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