

A NEW FŒTAL SHEEP MODEL OF OESOPHAGEAL ATRESIA WITH TRACHEO-OESOPHAGEAL FISTULA

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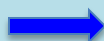


Association Française de l'Atresie de l'Œsophage



LONG TERM PROGNOSIS of oesophageal atresia (OA) = TRACHEOMALACIA

No experimental model of OA with tracheo-oesophageal fistula (TOF) in big animal available in the literature



SHEEP MODEL is ideal for fetal surgery

Foetuses N=32

Control N=4

Tracheal control
N=5

Type 1 N=7

Type 3 N=16

Sacrifice
at 120 DOG

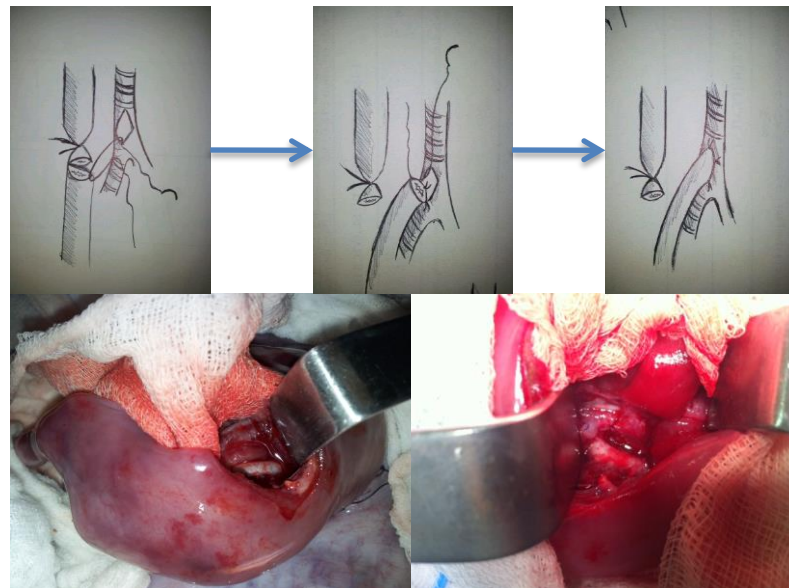
Abortion rate
50%

CONCLUSION

OA with TOF permeability in a foetal sheep model is FEASIBLE

PATHOLOGICAL ANALYSIS of tracheal modifications could help understanding **TRACHEOMALACIA** in OA with TOF

MODEL available for **PRENATAL DIAGNOSIS** by MRI and for testing **ALTERNATIVE THERAPEUTIC TECHNIQUES**



Permeability
of TOF = 50%

Eosinophilic polynuclears
within tracheal
epithelium

