A novel preclinical experimental model of AAA disease using genetically mutated LDLR-/- mini-pigs

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Disclosures

no potential conflict of interest
Introduction

- spontaneous AAA (LDL-/-) (Prescott et al. 1999 AnnNYACadSci)
- chemical induction (CaCl₂/elastase) (Tanaka et al. 2009 JVS; Bhamidipati et al. 2012)
- AngII infusion ApoE -/- (Daugherty et al. 2000 JCI)
- porcine pancreatic elastase PPE (Pyo et al. 2000 JCI)
Introduction

porcine pancreatic elastase PPE

(Pyo et al. 2000 JCI)
LDLR−/− Yucatan pig
AAA in LDLR<sup>-/-</sup> Yucatan pig

- PPE
- Sham

normalized aortic diameter

weeks after aneurysm induction
Treating AAA in LDLR\(^{-/-}\) Yucatan pig

**Day 0**
Aneurysm Induction

**Day 7**
Balloon Intervention

**Day 28**
Animal Sacrifice


MicroRNA-29b regulation of abdominal aortic aneurysm development.
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Thank you for your attention!

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