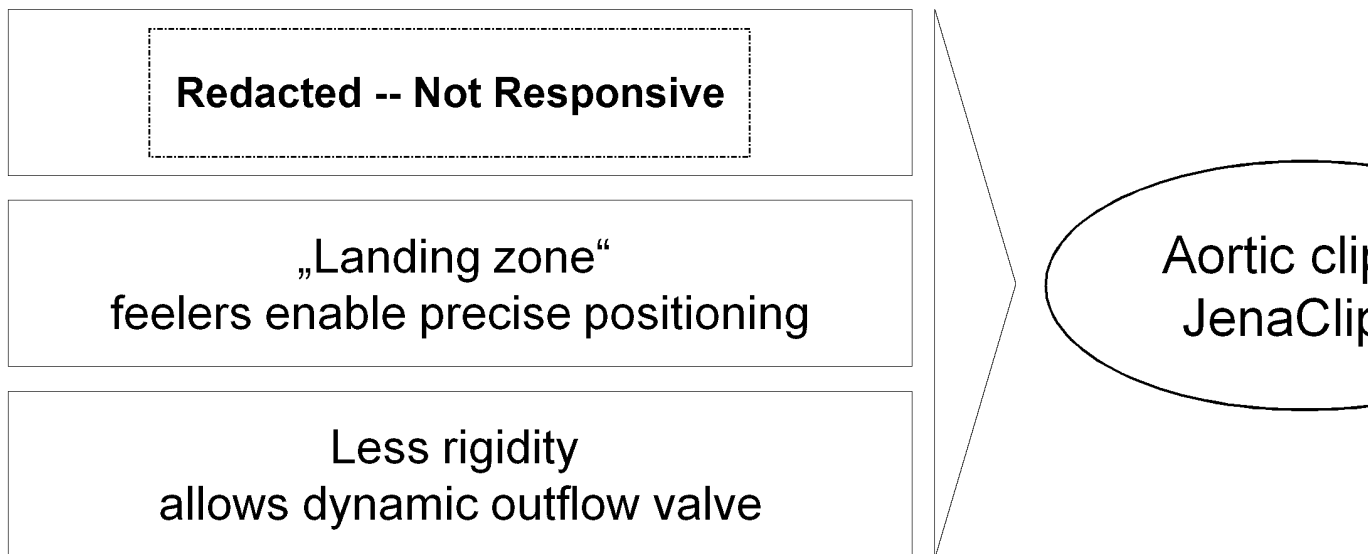


# JenaValve

## Evolutionary development steps



# JenaValve



Feasibility and performance evaluation of the JenaClip™ transapical AVR system in an a

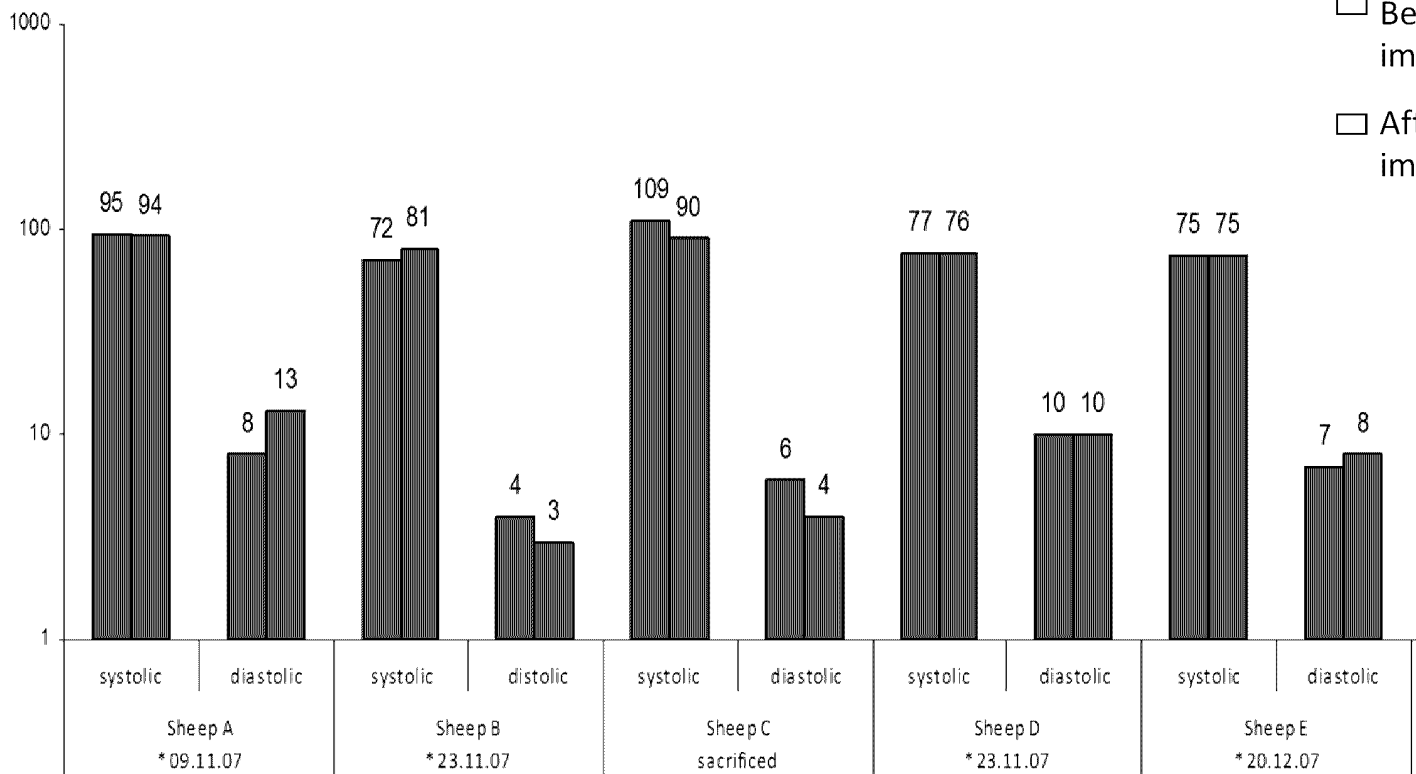
<b>Objective</b>	<ul style="list-style-type: none"><li>● To evaluate the feasibility of a catheter-based transapical aortic valve in a beating heart</li><li>● To assess the hemodynamic performance of a self-expanding aortic valve</li></ul>
<b>Design</b>	<ul style="list-style-type: none"><li>▶ Study on healthy sheep for chronic assessment</li></ul>
<b>Procedure</b>	<ul style="list-style-type: none"><li>▶ Cannulation of an upper limb artery for catheterization &amp; measurement</li><li>▶ Sternotomy in general anesthesia</li><li>▶ Purse string suture and insertion of a guide wire into the carotid artery</li><li>▶ Transapical insertion of the delivery system</li><li>▶ Positioning, stent placement, valve release in the aortic annulus</li><li>▶ Assessment of implantation</li></ul>



# JenaValve



**Left ventricular pressure  
(systolic / end diastolic) results in mmHg:**



# JenaValve

## The transapical procedure



### Summary and prospects:

- ▶ Transapical implantation of a catheter-based aortic valve in a beating heart in sheep is feasible
- ▶ First-in-man clinical trial will begin after hemodynamic testings are completed



# JenaValve

## Durability test of porcine valve

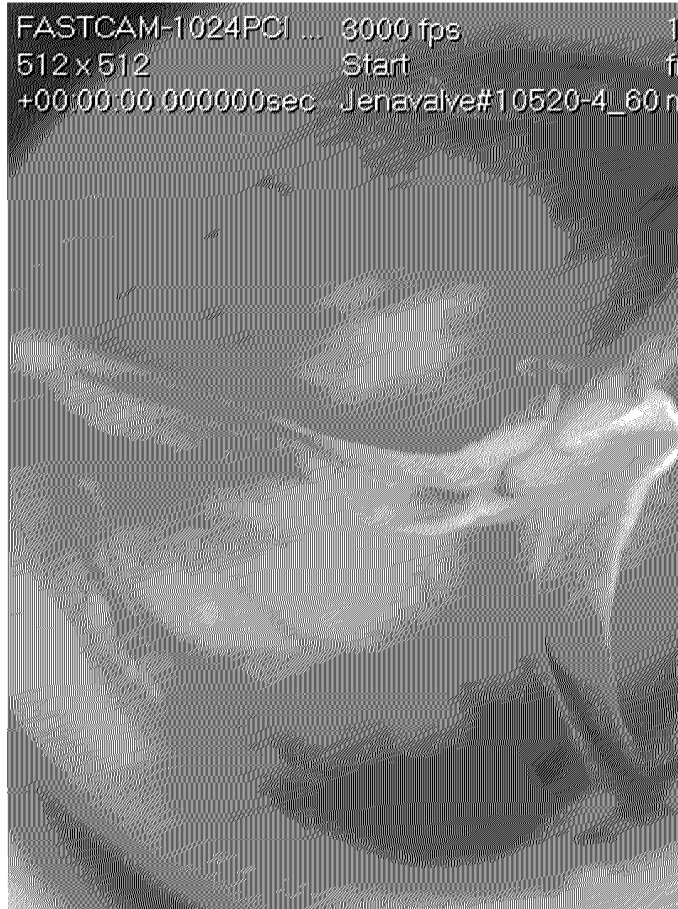


**High Speed Image after 60  
Million cycles**

**No leakage**

**No damages**

FASTCAM-1024PCI ... 3000 fps  
512 x 512 Start  
+00:00:00.000000sec JenaValve#10520-4\_60 n



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