# Aortic valve lithotripsy for critically ill patients unsuitable for TAVRI



61 to 94-year-old critically ill patients with severe aortic stenosis, acute decompensated heart failure, and multiple comorbidities

**Deemed unsuitable for both TAVR and SAVR after heart team review.** STS score 5.41-8.23%

Aortic valve lithotripsy by simultaneous inflation of 2-3 peripheral lithotripsy balloons in parallel, connected to a single insufflator

Access: 4 patients: 16 French right femoral artery, with embolic protection device from 6 French right radial artery. 1 patient: 7 French right distal radial, right ulnar, and left radial arteries

1 patient: Type zero bicuspid valve—start with 2 balloons in parallel 4 patients: trileaflet ballons. 2-3 balloons in parallel

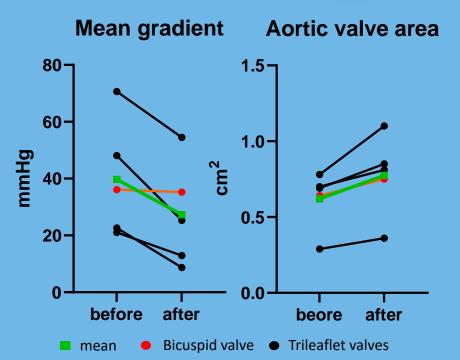
1 patient: Type zero bicuspid aortic valve

4 patients: trileaflet aortic valve





## Presenter: Jonathan X Fang Paper no: 5



### **Results:**

### **Periprocedural:**

100% procedural success. No complication No stroke. No increase in aortic regurgitation All patients discharged alive

### 90-day outcome:

Improved NYHA class in 4 out of 5 patients 4 surviving, 1 out-of-hospital mortality on day 87 No heart failure rehospitalization