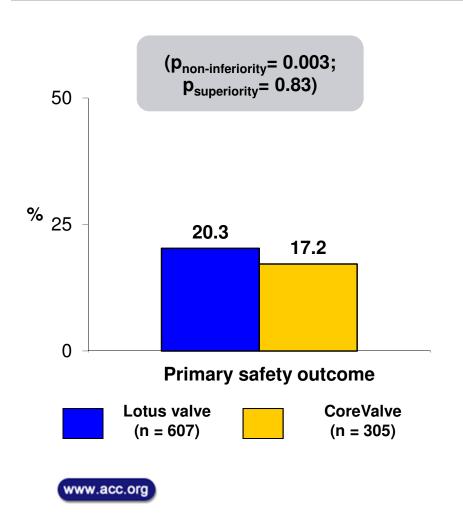
## REPRISE III

**Trial design**: High- or extreme-risk patients with severe symptomatic aortic stenosis (AS) undergoing TAVR were randomized in a 2:1 fashion to either TAVR with the Lotus valve or the CoreValve. Patients were followed for 12 months.



## Results

- Primary safety outcome: mortality/stroke/bleeding/ acute kidney injury/major vascular complications at 30 days, for Lotus vs. CoreValve: 20.3% vs. 17.2%, p<sub>non-inferiority</sub> = 0.003, p<sub>superiority</sub> = 0.83
- Primary efficacy outcome: mortality/stroke/ paravalvular leak (PVL) at 1 year: 15.4% vs. 25.5%, p < 0.001; moderate to severe PVL: 0.9% vs. 6.9%, p < 0.001</li>
- Permanent pacemaker: 34.2% vs. 18.5%, p < 0.05

## **Conclusions**

- Mechanically expanding Lotus valve was noninferior to self-expanding CoreValve for the safety and efficacy endpoints at 1 year among high- and extreme-risk AS patients undergoing TAVR
- Rates of moderate to severe PVL with Lotus were significantly lower, while pacemaker implantation rates were significantly higher

Feldman TE, et al. JAMA 2018;319:27-37