

The establishment of Alfred, Cabrini and Epworth Transcatheter Aortic Valve Implantation (ACE-TAVI) registry: Description and trends

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Background:

Alfred, Cabrini and Epworth Transcatheter Aortic Valve Implantation (ACE-TAVI) registry is a clinical quality registry involving three major hospitals in Melbourne, established in 2008. It monitors delivery of care by measuring procedural, short-term as well as long-term outcomes up to 10 years post TAVI.

Methods:

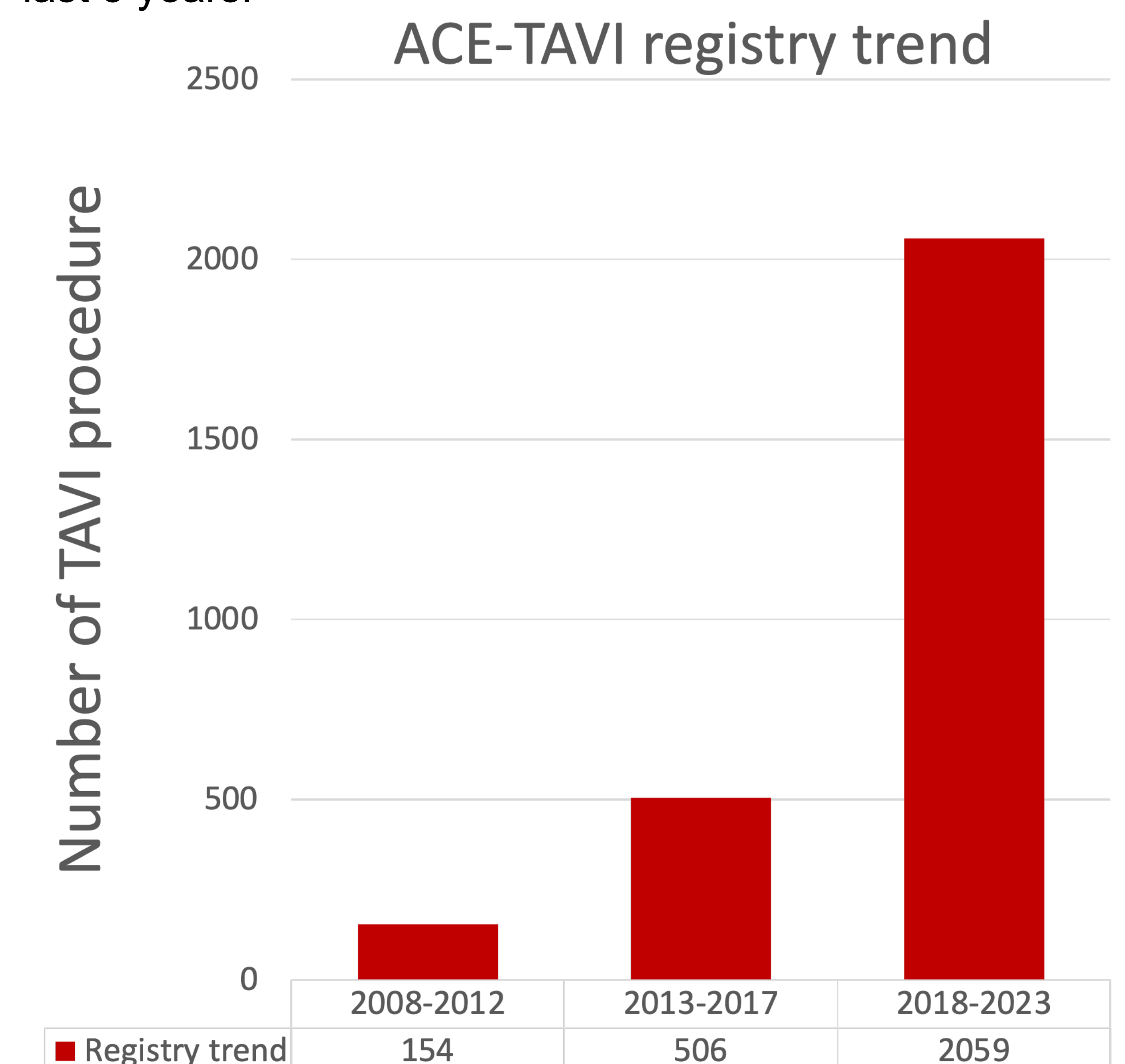
Each hospital data base is managed by their respective research staff and the main data base is stored in the Alfred Hospital REDCap.



Results:

ACE-TAVI registry has currently collected data on 2708 patients who have undergone TAVI procedures with the average age of 82 ± 7 years, 57% of them males. The indications for the procedure were 90% for severe native valve aortic stenosis and 98% of accesses were transfemoral. Over the last 15 years, the number of TAVIs

has increased from 154 in (2008-2012) to 506 in (2013-2017) and 2059 cases in (2018-2023). Valve-in-valve indication has increased from 5 to 23 then to 115 cases during the same periods. The average age remained the same in the first 10 years at 84 ± 6 years with reduction to 81 ± 7 years in the last 5 years. There has been a reduction in STS score from 5 ± 3 in the first 10 years to 4 ± 3 in the last 5 years.



Conclusion:

As TAVI grows to include more complex as well as younger and lower risk patients, ACE-TAVI registry provides comprehensive data that can be utilised to track outcomes and to plan future treatments that will potentially be safer and more effective than current practices.