

TAVR: 1 year mean gradient

PHC Quality & Analytics

Rollie Parrish, RN, BSN rollie.parrish@providence.org

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- Comparison of mean gradient at 1 year post TAVR
- 23mm Edwards vs. 26mm Evolut
- Age/gender/race
- mean gradient at 1 year (% over 20mm)
- list of patients with mean gradients ≥ 20 mm

Table 1: Summary descriptives by groups of vendor-device size

	23mm Edwards N=120	26mm Evolut N=41	p-value
Age at procedure	81.9 (7.45)	79.1 (9.07)	0.084
Gender:			0.187
Female	108 (90.0%)	33 (80.5%)	
Male	12 (10.0%)	8 (19.5%)	
Race: White	118 (98.3%)	41 (100%)	1.000
Mean Gradient not available	4 (3.33%)	1 (2.44%)	1.000
Mean Gradient: Average [25th/75th %-tile]	13.0 [10.8;17.0]	9.00 [6.00;11.0]	<0.001
Gradient ≥ 20 mm	22 (19.0%)	0 (0.00%)	0.007

Methods

deferred...

Results

Of the 120 cases in the 23mm Edwards group, 22 (19.0%) had a gradient ≥ 20 mm. In comparison, of the 41 cases in the 26mm Evolut group, 0 (0.00%) had a gradient ≥ 20 mm.

Table 2: List of cases with 1 year mean gradient ≥ 20 mm

MRN	age_at_proc	Sex	Proc_Date	Follow_up_Date	mean_gradient
Z001231967	83	Female	2013-02-06	2014-03-04	44
Z000098490	83	Female	2013-07-03	2014-08-04	23
60003059186	72	Female	2014-02-12	2015-02-17	28
60001898687	67	Female	2014-07-18	2015-07-31	24
60001637622	89	Female	2014-12-17	2016-02-11	21
60001670746	73	Female	2016-01-27	2017-01-30	20
60004981492	77	Female	2016-03-11	2017-03-09	29
60001998064	82	Female	2016-05-04	2017-03-07	24
60002072461	77	Female	2016-06-15	2017-06-08	20
60005063962	82	Female	2016-08-03	2017-08-07	22
60003025382	85	Male	2016-08-03	2017-05-19	30
60002739584	74	Female	2016-11-02	2017-10-31	20
60001832286	77	Female	2017-02-08	2018-02-01	20
60003325911	82	Female	2017-02-24	2018-04-20	21
60003012199	87	Male	2017-06-14	2018-06-22	20
60004955163	77	Female	2017-08-18	2018-09-10	23
60001846317	86	Male	2017-08-30	2018-08-24	26
60004294297	85	Female	2017-11-15	2019-01-04	25
60001623629	83	Male	2017-11-17	2018-10-11	25
60003299403	74	Male	2017-12-01	2018-10-26	21
60001648036	71	Female	2017-12-15	2019-01-03	24
60001670179	63	Female	2018-01-05	2019-01-25	33

Data Sources

- TVT Registry (NCDR)

The code, queries and raw data files used to reproduce this report are located at:

H:/Projects/Reports/CV_Surgery/TAVR/Projects/Miscellaneous TAVR questions/Reports/TAVR_gradients

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