

## Normal Dooler Echcardiographic Values for Prosthetic Aortic Valves

Valve	Size	Peak gradient (mm Hg)	Mean gradient (mm Hg)	Effective orifice area (cm <sup>2</sup> )
ATS <i>Bileaflet</i>	19	47.0 ± 12.6	25.3 ± 8.0	1.1 ± 0.3
	21	23.7 ± 6.8	15.9 ± 5.0	1.4 ± 0.5
	23		14.4 ± 4.9	1.7 ± 0.5
	25		11.3 ± 3.7	2.1 ± 0.7
	27		8.4 ± 3.7	2.5 ± 0.1
	29		8.0 ± 3.0	3.1 ± 0.8
ATS AP <i>Bileaflet</i>	18		21.0 ± 1.8	1.2 ± 0.3
	20	21.4 ± 4.2	11.1 ± 3.5	1.3 ± 0.3
	22	18.7 ± 8.3	10.5 ± 4.5	1.7 ± 0.4
	24	15.1 ± 5.6	7.5 ± 3.1	2.0 ± 0.6
	26		6.0 ± 2.0	2.1 ± 0.4
Baxter Perimount <i>Stented bovine pericardial</i>	19	32.5 ± 8.5	19.5 ± 5.5	1.3 ± 0.2
	21	24.9 ± 7.7	13.8 ± 4.0	1.3 ± 0.3
	23	19.9 ± 7.4	11.5 ± 3.9	1.6 ± 0.3
	25	16.5 ± 7.8	10.7 ± 3.8	1.6 ± 0.4
	27	12.8 ± 5.4	4.8 ± 2.2	2.0 ± 0.4
Biocor <i>Stented porcine</i>	23	30.0 ± 10.7	20 ± 6.6	1.3 ± 0.3
	25	23.0 ± 7.9	16 ± 5.1	1.7 ± 0.4
	27	22.0 ± 6.5	15.0 ± 3.7	2.2 ± 0.4
Extended Biocor <i>Stentless</i>	19-21	17.5 ± 6.5	9.6 ± 3.6	1.4 ± 0.4
	23	14.7 ± 7.3	7.7 ± 3.8	1.7 ± 0.4
	25	14.0 ± 4.3	7.4 ± 2.5	1.8 ± 0.4
Bioflo <i>Stented bovine pericardial</i>	19	37.2 ± 8.8	26.4 ± 5.5	0.7 ± 0.1
	21	28.7 ± 6.2	18.7 ± 5.5	1.1 ± 0.1
Bjork-Shiley <i>Single tilting disc</i>	21	38.9 ± 11.9	21.8 ± 3.4	1.1 ± 0.3
	23	28.8 ± 11.2	15.7 ± 5.3	1.3 ± 0.3
	25	23.7 ± 8.2	13.0 ± 5.0	1.5 ± 0.4
	27		10.0 ± 2.0	1.6 ± 0.3
Carbomedics Reduced <i>Bileaflet</i>	19	43.4 ± 1.2	24.4 ± 1.2	1.2 ± 0.1
Carbomedics Standard <i>Bileaflet</i>	19	38.0 ± 12.8	18.9 ± 8.3	1.0 ± 0.3
	21	26.8 ± 10.1	12.9 ± 5.4	1.5 ± 0.4
	23	22.5 ± 7.4	11.0 ± 4.6	1.4 ± 0.3
	25	19.6 ± 7.8	9.1 ± 3.5	1.8 ± 0.4
	27	17.5 ± 7.1	7.9 ± 3.2	2.2 ± 0.2
	29	9.1 ± 4.7	5.6 ± 3.0	3.2 ± 1.6
Carbomedics Tophat <i>Bileaflet</i>	21	30.2 ± 10.9	14.9 ± 5.4	1.2 ± 0.3
	23	24.2 ± 7.6	12.5 ± 4.4	1.4 ± 0.4
	25		9.5 ± 2.9	1.6 ± 0.32

**Normal Dooler Echcardiographic Values for Prosthetic Aortic Valves**  
(continued)

<b>Valve</b>	<b>Size</b>	<b>Peak gradient (mm Hg)</b>	<b>Mean gradient (mm Hg)</b>	<b>Effective orifice area (cm<sup>2</sup>)</b>
Carpentier Edwards	19	32.1 ± 3.4	24.2 ± 8.6	1.2 ± 0.3
Pericardial	21	25.7 ± 9.9	20.3 ± 9.1	1.5 ± 0.4
<i>Stented bovine pericardial</i>	23	21.7 ± 8.6	13.0 ± 5.3	1.8 ± 0.3
	25	16.5 ± 5.4	9.0 ± 2.3	
Carpentier Edwards	19	43.5 ± 12.7	25.6 ± 8.0	0.9 ± 0.2
Standard	21	27.7 ± 7.6	17.3 ± 6.2	1.5 ± 0.3
<i>Stented porcine</i>	23	28.9 ± 7.5	16.1 ± 6.2	1.7 ± 0.5
	25	24.0 ± 7.1	12.9 ± 4.6	1.9 ± 0.5
	27	22.1 ± 8.2	12.1 ± 5.5	2.3 ± 0.6
	29		9.9 ± 2.9	2.8 ± 0.5
Carpentier Supra-Annular	19	34.1 ± 2.7	17.5 ± 3.8	1.1 ± 0.1
<i>Stented porcine</i>	21	28.0 ± 10.5	13.4 ± 4.5	1.4 ± 0.9
	23	25.3 ± 10.5	13.2 ± 4.8	1.6 ± 0.6
	25	24.4 ± 7.6	8.8 ± 2.8	1.8 ± 0.4
	27	16.7 ± 4.7		1.9 ± 0.7
Cryolife	19		9.0 ± 2.0	1.5 ± 0.3
<i>Stentless</i>	21		6.6 ± 2.9	1.7 ± 0.4
	23		6.0 ± 2.3	2.3 ± 0.2
	25		6.1 ± 2.6	2.6 ± 0.2
	27		4.0 ± 2.4	2.8 ± 0.3
Edwards Duromedics	21	39.0 ± 13		
<i>Bileaflet</i>	23	32.0 ± 8.0		
	25	26.0 ± 10.0		
	27	24.0 ± 10.0		
Edwards Mira	19		18.2 ± 5.3	1.2 ± 0.4
<i>Bileaflet</i>	21		13.3 ± 4.3	1.6 ± 0.4
	23		14.7 ± 2.8	1.6 ± 0.6
	25		13.1 ± 3.8	1.9
Hancock	21	18.0 ± 6.0	12.0 ± 2.0	
<i>Stented porcine</i>	23	16.0 ± 2.0	11.0 ± 2.0	
	25	15.0 ± 3.0	10.0 ± 3.0	
Hancock II	21		14.8 ± 4.1	1.3 ± 0.4
<i>Stented porcine</i>	23	34.0 ± 13.0	16.6 ± 8.5	1.3 ± 0.4
	25	22.0 ± 5.3	10.8 ± 2.8	1.6 ± 0.4
	29	16.2 ± 1.5	8.2 ± 1.7	1.6 ± 0.2

**Normal Dooler Echcardiographic Values for Prosthetic Aortic Valves**  
(continued)

Valve	Size	Peak gradient (mm Hg)	Mean gradient (mm Hg)	Effective orifice area (cm <sup>2</sup> )
Homograft <i>Homograft valves</i>	17-19		9.7 ± 4.2	4.2 ± 1.8
	19-21			5.4 ± 0.9
	20-21		7.9 ± 4.0	3.6 ± 2.0
	20-22		7.2 ± 3.0	3.5 ± 1.5
	22	1.7 ± 0.3		5.8 ± 3.2
	22-23		5.6 ± 3.1	2.6 ± 1.4
	22-24			5.6 ± 1.7
	24-27		6.2 ± 2.6	2.8 ± 1.1
	26	1.4 ± 0.6		6.8 ± 2.9
	25-28			6.2 ± 2.5
Intact <i>Stented porcine</i>	19	40.4 ± 15.4	24.5 ± 9.3	
	21	40.9 ± 15.6	19.6 ± 8.1	1.6 ± 0.4
	23	32.7 ± 9.6	19.0 ± 6.1	1.6 ± 0.4
	25	29.7 ± 15.0	17.7 ± 7.9	1.7 ± 0.3
	27	25.0 ± 7.6	15.0 ± 4.5	
Ionescu-Shiley <i>Stented bovine pericardial</i>	17	23.8 ± 3.4		0.9 ± 0.1
	19	19.7 ± 5.9	13.3 ± 3.9	1.1 ± 0.1
	21	26.6 ± 9.0		
	23		15.6 ± 4.4	
Labcor Santiago <i>Stented bovine pericardial</i>	19	18.6 ± 5.0	11.8 ± 3.3	1.2 ± 0.1
	21	17.5 ± 6.6	8.2 ± 4.5	1.3 ± 0.1
	23	14.8 ± 5.2	7.8 ± 2.9	1.8 ± 0.2
	25	12.3 ± 3.4	6.8 ± 2.0	2.1 ± 0.3
Labcor Synergy <i>Stented porcine</i>	21	24.3 ± 8.1	13.3 ± 4.2	1.1 ± 0.3
	23	27.3 ± 13.7	15.3 ± 6.9	1.4 ± 0.4
	25	22.5 ± 11.9	13.2 ± 6.4	1.5 ± 0.4
	27	17.8 ± 7.0	10.6 ± 4.6	1.8 ± 0.5
MCRI On-X <i>Bileaflet</i>	19	21.3 ± 10.8	11.8 ± 3.4	1.5 ± 0.2
	21	16.4 ± 5.9	9.9 ± 3.6	1.7 ± 4.0
	23	15.9 ± 6.4	8.6 ± 3.4	1.9 ± 0.6
	25	16.5 ± 10.2	6.9 ± 4.3	2.4 ± 0.6
Medtronic Advantage <i>Bileaflet</i>	23		10.4 ± 3.1	2.2 ± 0.3
	25		9.0 ± 3.7	2.8 ± 0.6
	27		7.6 ± 3.6	3.3 ± 0.7
	29		6.1 ± 3.8	3.9 ± 0.7
Medtronic Freestyle <i>Stentless</i>	19	11.0 ± 4.0	13.0 ± 3.9	
	21		9.1 ± 5.1	1.4 ± 0.3
	23		8.1 ± 4.6	1.7 ± 0.5
	25		5.3 ± 3.1	2.1 ± 0.5
	27		4.6 ± 3.1	2.5 ± 0.1

**Normal Dooler Echcardiographic Values for Prosthetic Aortic Valves**  
(continued)

<b>Valve</b>	<b>Size</b>	<b>Peak gradient (mm Hg)</b>	<b>Mean gradient (mm Hg)</b>	<b>Effective orifice area (cm<sup>2</sup>)</b>
Medtronic Hall <i>Single tilting disc</i>	20	34.4 ± 13.1	17.1 ± 5.3	1.2 ± 0.5
	21	26.9 ± 10.5	14.1 ± 5.9	1.1 ± 0.2
	23	26.9 ± 8.9	13.5 ± 4.08	1.4 ± 0.4
	25	17.1 ± 7.0	9.5 ± 4.3	1.5 ± 0.5
	27	18.9 ± 9.7	8.7 ± 5.6	1.9 ± 0.2
Medtronic Mosaic <i>Stented porcine</i>	21		14.2 ± 5.0	1.4 ± 0.4
	23	23.8 ± 11.0	13.7 ± 4.8	1.5 ± 0.4
	25	22.5 ± 10.0	11.7 ± 5.1	1.8 ± 0.5
	27		10.4 ± 4.3	1.9 ± 0.1
	29		11.1 ± 4.3	2.1 ± 0.2
Mitroflow <i>Stented bovine pericardial</i>	19	18.6 ± 5.3	13.1 ± 3.3	1.1 ± 0.2
Monostrut Bjork-Shiley <i>Single tilting disc</i>	19		27.4 ± 8.8	
	21	27.5 ± 3.1	20.5 ± 6.2	
	23	20.3 ± 0.7	17.4 ± 6.4	
	25		16.1 ± 4.9	
	27		11.4 ± 3.8	
Prima <i>Stentless</i>	21	28.8 ± 6.0	13.7 ± 1.9	1.4 ± 0.7
	23	21.5 ± 7.5	11.5 ± 4.9	1.5 ± 0.3
	25	22.1 ± 12.5	11.6 ± 7.2	1.8 ± 0.5
Omnicarbon <i>Single tilting disc</i>	21	37.4 ± 12.8	20.4 ± 5.4	1.3 ± 0.5
	23	28.8 ± 9.1	17.4 ± 4.9	1.5 ± 0.3
	25	23.7 ± 8.1	13.2 ± 4.6	1.9 ± 0.5
	27	20.1 ± 4.2	12.4 ± 2.9	2.1 ± 0.4
Omniscience <i>Single tilting disc</i>	21	50.8 ± 2.8	28.2 ± 2.2	0.9 ± 0.1
	23	39.8 ± 8.7	20.1 ± 5.1	1.0 ± 0.1
Starr Edwards <i>Caged ball</i>	23	32.6 ± 12.8	22.0 ± 9.0	1.1 ± 0.2
	24	34.1 ± 10.3	22.1 ± 7.5	1.1 ± 0.3
	26	31.8 ± 9.0	19.7 ± 6.1	
	27	30.8 ± 6.3	18.5 ± 3.7	
	29	29.0 ± 9.3	16.3 ± 5.5	
Sorin Bicarbon <i>Bileaflet</i>	19	30.1 ± 4.5	16.7 ± 2.0	1.4 ± 0.1
	21	22.0 ± 7.1	10.0 ± 3.3	1.2 ± 0.4
	23	16.8 ± 6.1	7.7 ± 3.3	1.5 ± 0.2
	25	11.2 ± 3.1	5.6 ± 1.6	2.4 ± 0.3
Sorin Pericarbon <i>Stentless</i>	19	36.5 ± 9.0	28.9 ± 7.3	1.2 ± 0.5
	21	28.0 ± 13.3	23.8 ± 11.1	1.3 ± 0.6
	23	27.5 ± 11.5	23.2 ± 7.6	1.5 ± 0.5

**Normal Dooler Echcardiographic Values for Prosthetic Aortic Valves**  
(continued)

Valve	Size	Peak gradient (mm Hg)	Mean gradient (mm Hg)	Effective orrifice area (cm <sup>2</sup> )
St. Jude Medical	19	28.5 ± 10.7	17.0 ± 7.8	1.9 ± 0.1
Haem Plus	21	16.3 ± 17.0	10.6 ± 5.1	1.8 ± 0.5
<i>Bileaflet</i>	23	16.8 ± 7.3	12.1 ± 4.2	1.7 ± 0.5
	19	20.6 ± 12	11.0 ± 4.9	1.6 ± 0.4
St Jude Medical Regent	21	15.6 ± 9.4	8.0 ± 4.8	2.0 ± 0.7
<i>Bileaflet</i>	23	12.8 ± 6.8	6.9 ± 3.5	2.3 ± 0.9
	25	11.7 ± 6.8	5.6 ± 3.2	2.5 ± 0.8
	27	7.9 ± 5.5	3.5 ± 1.7	3.6 ± 0.5
	19	42.0 ± 10.0	24.5 ± 5.8	1.5 ± 0.1
	21	25.7 ± 9.5	15.2 ± 5.0	1.4 ± 0.4
St Jude Medical Standard	23	21.8 ± 7.5	13.4 ± 5.6	1.6 ± 0.4
<i>Bileaflet</i>	25	18.9 ± 7.3	11.0 ± 5.3	1.9 ± 0.5
	27	13.7 ± 4.2	8.4 ± 3.4	2.5 ± 0.4
	29	13.5 ± 5.8	7.0 ± 1.7	2.8 ± 0.5
	21	22.6 ± 14.5	10.7 ± 7.2	1.3 ± 0.6
St Jude Medical	23	16.2 ± 9.0	8.2 ± 4.7	1.6 ± 0.6
<i>Stentless</i>	25	12.7 ± 8.2	6.3 ± 4.1	1.8 ± 0.5
	27	10.1 ± 5.8	5.0 ± 2.9	2.0 ± 0.3
	29	7.7 ± 4.4	4.1 ± 2.4	2.4 ± 0.6

## Normal Doppler Echocardiography Values for Prosthetic Mitral

Valve	Size	Peak gradient (mm Hg)	Mean gradient (mm Hg)	Peak velocity (m/s)	Pressure half-time (ms)	Effective orifice area (cm <sup>2</sup> )
Biocor <i>Stentless bioprosthesis</i>	27	13 ± 1				
	29	14 ± 2.5				
	31	11.5 ± 0.5				
	33	12 ± 0.5				
Bioflo pericardial <i>Stented bioprosthesis</i>	25	10 ± 2	6.3 ± 1.5			2.0 ± 0.1
	27	9.5 ± 2.6	5.4 ± 1.2			2.0 ± 0.3
	29	5.0 ± 2.8	3.6 ± 1.0			2.4 ± 0.2
	31	4.0	2.0			2.3
Bjork - Shiley <i>Tilting disc</i>	23			1.7	115	
	25	12 ± 4	6 ± 2	1.75 ± 0.38	99 ± 27	1.72 ± 0.6
	27	10 ± 4	5 ± 2	1.60 ± 0.49	89 ± 28	1.81 ± 0.54
	29	7.83 ± 2.93	2.83 ± 1.27	1.37 ± 0.25	79 ± 17	2.10 ± 0.43
	31	6 ± 3	2.0 ± 1.9	1.41 ± 0.26	70 ± 14	2.2 ± 0.3
Bjork-Shiley monostrut <i>Tilting disc</i>	23		5.0	1.9		
	25	13 ± 2.5	5.57 ± 2.3	1.8 ± 0.3		
	27	12 ± 2.5	4.53 ± 2.2	1.7 ± 0.4		
	29	13 ± 3	4.26 ± 1.6	1.6 ± 0.3		
	31	14 ± 4.5	4.9 ± 1.6	1.7 ± 0.3		
Carbomedics <i>Bileaflet</i>	23			1.9 ± 0.1	126 ± 7	
	25	10.3 ± 2.3	3.6 ± 0.6	1.3 ± 0.1	93 ± 8	2.9 ± 0.8
	27	8.79 ± 3.46	3.46 ± 1.03	1.61 ± 0.30	89 ± 20	2.9 ± 0.75
	29	8.78 ± 2.9	3.39 ± 0.97	1.52 ± 0.30	88 ± 17	2.3 ± 0.4
	31	8.87 ± 2.34	3.32 ± 0.87	1.61 ± 0.29	92 ± 24	2.8 ± 1.14
	33	8.8 ± 2.2	4.8 ± 2.5	1.5 ± 0.2	93 ± 12	
Carpentier-Edwards <i>Stented bioprosthesis</i>	27		6 ± 2	1.7 ± 0.3	98 ± 28	
	29		4.7 ± 2.0	1.76 ± 0.27	92 ± 14	
	31		4.4 ± 2.0	1.54 ± 0.15	92 ± 19	
	33		6 ± 3		93 ± 12	
Carpentier-Edwards pericardial <i>Stented Bioprosthesis</i>	27		3.6	1.6	100	
	29		5.25 ± 2.36	1.67 ± 0.3	110 ± 15	
	31		4.05 ± 0.83	1.53 ± 0.1	90 ± 11	
	33		1.0	0.8	80	
Duromedics <i>Bileaflet</i>	27	13 ± 6	5 ± 3	1.61 ± 0.4	75 ± 12	
	29	10 ± 4	3 ± 1	1.40 ± 0.25	85 ± 22	
	31	10.5 ± 4.33	3.3 ± 1.36	1.38 ± 0.27	81 ± 12	
	33	11.2	2.5		85	
Hancock I or not specified <i>Stented bioprosthesis</i>	27	10 ± 4	5 ± 2			1.3 ± 0.8
	29	7 ± 3	2.46 ± 0.79		115 ± 20	1.5 ± 0.2
	31	4.00 ± 0.86	4.86 ± 1.69		95 ± 17	1.6 ± 0.2
	33	3 ± 2	3.87 ± 2.00		90 ± 12	1.9 ± 0.2

### Normal Doppler Echocardiography Values for Prosthetic Mitral (continued)

Valve	Size	Peak gradient (mm Hg)	Mean gradient (mm Hg)	Peak velocity (m/s)	Pressure half-time (ms)	Effective orifice area (cm <sup>2</sup> )
Hancock II <i>Stented bioprosthesis</i>	27					2.21 ± 0.14
	29					2.77 ± 0.11
	31					2.84 ± 0.10
	33					3.15 ± 0.22
Hancock pericardial <i>Stented bioprosthesis</i>			2.61 ± 1.39	1.42 ± 0.14	105 ± 36	
			3.57 ± 1.02	1.51 ± 0.27	81 ± 23	
	29		4.87 ± 1.08	1.43 ± 0.15	93 ± 11	
	31		3.21 ± 0.82	1.31 ± 0.24	100 ± 28	
			3.22 ± 0.57	1.38 ± 0.20	85 ± 8	
Ionescu-Shiley <i>Stented bioprosthesis</i>	25		4.87 ± 1.08	1.43 ± 0.15	93 ± 11	
	27		3.21 ± 0.82	1.31 ± 0.24	100 ± 28	
	29		3.22 ± 0.57	1.38 ± 0.20	85 ± 8	
	31		3.63 ± 0.90	1.45 ± 0.06	100 ± 36	
Ionescu-Shiley low profile <i>Stented bioprosthesis</i>	29		3.31 ± 0.96	1.36 ± 0.25	80 ± 30	
	31		2.74 ± 0.37	1.33 ± 0.14	79 ± 15	
Labcor-Santiago pericardial <i>Stented bioprosthesis</i>	25	8.7	4.5		97	2.2
	27	5.6 ± 2.3	2.8 ± 1.5		85 ± 18	2.12 ± 0.48
	29	6.2 ± 2.1	3.0 ± 1.3		80 ± 34	2.11 ± 0.73
Lillehei-Kaster <i>Tilting disc</i>	18			1.7	140	
	20			1.7	67	
	22			1.56 ± 0.09	94 ± 22	
	25			1.38 ± 0.27	124 ± 46	
Medtronic-Hall <i>Tilting disc</i>	27			1.4	78	
	29			1.57 ± 0.10	69 ± 15	
	31			1.45 ± 0.12	77 ± 17	
Medtronic Intact Porcine <i>Stented bioprosthesis</i>	29		3.5 ± 0.51	1.60 ± 0.22		
	31		4.20 ± 1.44	1.60 ± 0.26		
	33		4.0 ± 1.3	1.40 ± 0.24		
	35		3.2 ± 1.77	1.3 ± 0.5		
Mitroflow <i>Stented bioprosthesis</i>	25		6.9	2.0	90	
	27		3.07 ± 0.91	1.5	90 ± 20	
	29		3.5 ± 1.65	1.43 ± 0.29	102 ± 21	
	31		3.85 ± 0.81	1.32 ± 0.26	91 ± 22	
Omnicarbon <i>Tilting disc</i>	23		8.0			
	25		6.05 ± 1.81	1.77 ± 0.24	102 ± 16	
	27		4.89 ± 2.05	1.63 ± 0.36	105 ± 33	
	29		4.93 ± 2.16	1.56 ± 0.27	120 ± 40	
	31		4.18 ± 1.4	1.30 ± 0.23	134 ± 31	
	33		4 ± 2			

## Normal Doppler Echocardiography Values for Prosthetic Mitral (continued)

Valve	Size	Peak gradient (mm Hg)	Mean gradient (mm Hg)	Peak velocity (m/s)	Pressure half-time (ms)	Effective orifice area (cm <sup>2</sup> )
On-X <i>Bileaflet</i>	25	11.5 ± 3.2	5.3 ± 2.1			1.9 ± 1.1
	27-29	10.3 ± 4.5	4.5 ± 1.6			2.2 ± 0.5
	31-33	9.8 ± 3.8	4.8 ± 2.4			2.5 ± 1.1
Sorin Allcarbon <i>Tilting disc</i>	25	15 ± 3	5 ± 1	2.0 ± 0.2	105 ± 29	2.2 ± 0.6
	27	13 ± 2	4 ± 1	1.8 ± 0.1	89 ± 14	2.5 ± 0.5
	29	10 ± 2	4 ± 1	1.6 ± 0.2	85 ± 23	2.8 ± 0.7
	31	9 ± 1	4 ± 1	1.6 ± 0.1	88 ± 27	2.8 ± 0.9
Sorin Bicarbon <i>Bileaflet</i>	25	15.00 ± 0.25	4.0 ± 0.5	1.95 ± 0.02	70 ± 1	
	27	11.00 ± 2.75	4.0 ± 0.5	1.65 ± 0.21	82 ± 20	
	29	12 ± 3	4.0 ± 1.25	1.73 ± 0.22	80 ± 14	
	31	10.0 ± 1.5	4 ± 1	1.66 ± 0.11	83 ± 14	
St Jude Medical <i>Bileaflet</i>	23		4.0	1.5	160	1.0
	25		2.5 ± 1.0	1.34 ± 1.12	75 ± 4	1.35 ± 0.17
	27	11 ± 4	5.00 ± 1.82	1.61 ± 0.29	75 ± 10	1.67 ± 0.17
	29	10 ± 3	4.15 ± 1.80	1.57 ± 0.29	85 ± 10	1.75 ± 0.24
	31	12 ± 6	4.46 ± 2.22	1.59 ± 0.33	74 ± 13	2.03 ± 0.32
Starr-Edwards <i>Caged ball</i>	26		10.0			1.4
	28		7.00 ± 2.75			1.9 ± 0.57
	30	12.2 ± 4.6	6.99 ± 2.50	1.7 ± 0.3	125 ± 25	1.65 ± 0.4
	32	11.5 ± 4.2	5.08 ± 2.5	1.7 ± 0.3	110 ± 25	1.98 ± 0.40
	34		5.0			2.6
Stentless quadrileaflet bovine pericardial <i>Stented bioprosthesis</i>	26		2.2 ± 1.7	1.6	103 ± 31	1.7
	28			1.58 ± 0.25		1.7 ± 0.6
	30			1.42 ± 0.32		2.3 ± 0.4
Wessex <i>Stented bioprosthesis</i>	29		3.69 ± 0.61	1.66 ± 0.17	83 ± 19	
	31		3.31 ± 0.83	1.41 ± 0.25	80 ± 21	