



Correction to: Thoracic and cardiovascular surgery in Japan in 2016

Annual report by The Japanese Association for Thoracic Surgery

Committee for Scientific Affairs, The Japanese Association for Thoracic Surgery¹ · Hideyuki Shimizu² · Shunsuke Endo³ · Shoji Natsugoe⁴ · Yuichiro Doki⁵ · Yasutaka Hirata⁶ · Junjiro Kobayashi⁷ · Noboru Motomura⁸ · Kiyoharu Nakano⁹ · Hiroshi Nishida¹⁰ · Morihito Okada¹¹ · Yoshikatsu Saiki¹² · Aya Saito⁸ · Yukio Sato¹³ · Kazuo Tanemoto¹⁴ · Yasushi Toh¹⁵ · Hiroyuki Tsukihara¹⁶ · Shinji Wakui¹⁷ · Hiroyasu Yokomise¹⁸ · Munetaka Masuda¹⁹ · Kohei Yokoi²⁰ · Yutaka Okita²¹

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Correction to: General Thoracic and Cardiovascular Surgery

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In the original publication of the article, the values of the row “Norwood procedure”, under “(3) Main procedure” in Table 3 were published incorrectly. The corrected part of the table is given in this Correction.

In addition, the last sentence in the first paragraph on page 14 should read as “The Norwood type I procedure was performed in 125 cases, with a relatively low hospital mortality rate of 14%.”

The original article can be found online at <https://doi.org/10.1007/s11748-019-01068-9>.

✉ Hideyuki Shimizu
survey-adm@umin.net

¹ Committee for Scientific Affairs, The Japanese Association for Thoracic Surgery, Tokyo, Japan

² Department of Cardiovascular Surgery, Keio University, 35, Shinanomachi, Shinjuku-ku, Tokyo, Japan

³ Department of Thoracic Surgery, Jichi Medical University, Shimotsuke, Japan

⁴ Department of Digestive Surgery and Breast and Thyroid Surgery, Kagoshima University, Kagoshima, Japan

⁵ Department of Gastroenterological Surgery, Osaka University Graduate School of Medicine, Suita, Japan

⁶ Department of Cardiac Surgery, The University of Tokyo Hospital, Tokyo, Japan

⁷ Department of Cardiovascular Surgery, National Cerebral and Cardiovascular Center, Suita, Japan

⁸ Department of Cardiovascular Surgery, Toho University, Sakura Medical Center, Sakura, Japan

⁹ Harajuku Rehabilitation Hospital, Tokyo, Japan

¹⁰ Rehabilitation, Tokyo Shinagawa Hospital, Tokyo, Japan

¹¹ Department of Surgical Oncology, Hiroshima University, Higashihiroshima, Japan

¹² Division of Cardiovascular Surgery, Tohoku University Graduate School of Medicine, Sendai, Japan

¹³ Department of Thoracic surgery, University of Tsukuba, Tsukuba, Japan

¹⁴ Department of Cardiovascular Surgery, Kawasaki Medical School, Kurashiki, Japan

¹⁵ Department of Gastroenterological Surgery, National Kyushu Cancer Center, Fukuoka, Japan

¹⁶ Department of Cardiothoracic Surgery, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

¹⁷ Cardiovascular Surgery, Nihon University Hospital, Tokyo, Japan

¹⁸ Department of General Thoracic Surgery, Faculty of Medicine, Kagawa University, Kida-gun, Kagawa, Japan

¹⁹ Department of Surgery, Yokohama City University, Yokohama, Japan

²⁰ Department of Thoracic Surgery, Nagoya University Graduate School of Medicine, Nagoya, Japan

²¹ Cardio-aortic Center, Takatsuki General Hospital, Takatsuki, Japan

Table 3. Continued

	Neonate						Infant						1–17 years						≥ 18 years						Total					
	Cases		30-day mortality		Hospital mortality		Cases		30-day mortality		Hospital mortality		Cases		30-day mortality		Hospital mortality		Cases		30-day mortality		Hospital mortality		Cases		30-day mortality		Hospital mortality	
			Hospital	After discharge			Hospital	After discharge			Hospital	After discharge			Hospital	After discharge			Hospital	After discharge			Hospital	After discharge			Hospital	After discharge		
1	SP Shunt	162	4 (2.5)	1 (0.6)	7 (4.3)	0	0	8 (1.9)	49	0	0	1 (2.0)	0	0	0	0	0	0	0	0	0	0	0	0	0	642	9 (1.4)	1 (0.2)	16 (2.5)	
2	PAB	270	5 (1.9)	1 (0.4)	11 (4.1)	0	0	5 (1.8)	16	0	0	1 (0.9)	0	0	0	0	0	0	0	0	0	0	0	0	570	7 (1.2)	2 (0.4)	16 (2.8)		
3	Bidirectional Glenn or hemi-Fontan ± α	0	0	0	0	0	0	5 (1.8)	114	0	0	1 (0.9)	6	0	0	0	0	0	0	0	0	0	0	0	405	2 (0.5)	0	6 (1.5)		
4	Damus-Kaye–Stansel operation	3	0	0	0	0	0	5 (16.1)	13	3 (9.7)	0	1 (7.7)	1	0	0	0	0	0	0	0	0	0	0	0	48	3 (6.3)	0	6 (12.5)		
5	PA reconstruction/repair (including redo)	15	0	0	0	0	0	4 (2.9)	200	3 (2.2)	0	2 (1.0)	14	0	0	0	0	0	0	0	0	0	0	0	368	4 (1.1)	0	6 (1.6)		
6	RVOT reconstruction/repair	6	0	0	0	0	0	2 (1.1)	303	2 (0.7)	0	3 (1.0)	44	0	0	0	0	0	0	0	0	0	0	0	539	2 (0.4)	0	7 (1.3)		
7	Rastelli procedure	1	0	0	0	0	0	1 (3.7)	106	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	143	0	0	1 (0.7)		
8	Arterial switch procedure	138	3 (2.2)	0	7 (5.1)	0	0	2 (7.7)	6	2 (7.7)	0	1 (6.7)	1	0	0	0	0	0	0	0	0	0	0	0	171	6 (3.5)	0	10 (5.8)		
9	Atrial switch procedure	1	0	0	0	0	0	1 (50.0)	7	0	0	1 (14.3)	1	0	0	0	0	0	0	0	0	0	0	0	11	0	0	2 (18.2)		
10	Double switch procedure	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0		
11	Repair of anomalous origin of CA	3	1 (33.3)	0	1 (33.3)	0	0	1 (25.0)	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	10	1 (10.0)	0	2 (20.0)		
12	Closure of coronary AV fistula	1	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0		
13	Fontan/TCPC	1	0	0	0	0	0	0	364	2 (0.5)	0	7 (1.9)	42	2 (4.8)	0	0	0	0	0	0	0	0	0	0	0	410	4 (1.0)	0	9 (2.2)	
14	Norwood procedure	30	2 (6.7)	0	6 (18.7)	0	0	12 (13.0)	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125	8 (6.4)	0	18 (14.4)		
15	Ventricular septation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
16	Left side AV valve repair (including redo)	2	0	0	0	0	0	0	67	0	0	1 (1.5)	13	0	0	0	0	0	0	0	0	0	0	0	125	0	0	1 (0.8)		
17	Left side AV valve replace (including redo)	0	0	0	0	0	0	0	37	0	0	1 (2.7)	11	1 (9.1)	0	0	0	0	0	0	0	0	0	0	63	1 (1.6)	0	2 (3.2)		
18	Right side AV valve repair (including redo)	12	2 (13.3)	0	2 (13.3)	0	0	0	85	1 (1.2)	0	3 (3.5)	57	0	0	0	0	0	0	0	0	0	0	0	228	3 (1.3)	0	5 (2.2)		
19	Right side AV valve replace (including redo)	0	0	0	0	0	0	0	9	0	0	0	25	1 (4.0)	0	0	0	0	0	0	0	0	0	0	35	1 (2.9)	0	1 (2.9)		
20	Common AV valve repair (including redo)	8	3 (37.5)	0	6 (75.0)	0	0	3 (15.8)	10	1 (10.0)	0	1 (10.0)	1	0	0	0	0	0	0	0	0	0	0	0	38	5 (13.2)	0	10 (26.3)		
21	Common AV valve replace (including redo)	1	0	0	1 (100.0)	0	0	0	6	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	14	0	0	2 (14.3)		
22	Repair of supra-aortic stenosis	2	1 (50.0)	0	1 (50.0)	0	0	0	8	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	13	1 (7.7)	0	1 (7.7)		
23	Repair of subaortic stenosis (including redo)	1	0	0	0	0	0	0	11	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	52	0	0	0		

Table 3 continued

	Neonate			Infant			1–17 years			≥ 18 years			Total						
	30-day mortality		Hospital mortality	30-day mortality		Hospital mortality	30-day mortality		Hospital mortality	30-day mortality		Hospital mortality	30-day mortality		Hospital mortality				
	Hospital	After discharge		Hospital	After discharge		Hospital	After discharge		Hospital	After discharge		Hospital	After discharge		Cases			
24 Aortic valve plasty ± VSD closure	8	1 (12.5)	0	1 (12.5)	10	0	0	2 (20.0)	28	0	0	0	0	0	0	51	1 (2.0)	0	3 (5.9)
25 Aortic valve replacement	0	0	0	0	2	0	0	0	35	0	0	0	0	0	4 (13.8)	66	2 (3.0)	0	4 (6.1)
26 AVR with annular enlargement	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	10	0	0	0
27 Aortic root replace (except ross)	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	17	0	0	0
28 Ross procedure	1	0	0	0	4	0	0	0	13	0	0	0	0	0	0	18	0	0	0
29 Bilateral pulmonary artery banding	156	4 (2.6)	1 (0.6)	8 (5.1)	19	1 (5.3)	0	2 (10.5)	0	0	0	0	0	0	0	175	5 (2.9)	1 (0.6)	10 (5.7)
Total	822	26 (3.2)	3 (0.4)	51 (6.2)	1711	25 (1.5)	1 (0.1)	53 (3.1)	1543	8 (0.5)	0	23 (1.5)	281	6 (2.1)	0	4357	65 (1.5)	4 (0.09)	138 (3.2)

(), % mortality

SP systemic-pulmonary, PAB pulmonary artery banding, PA pulmonary artery, RVOT right ventricular outflow tract, CA coronary artery, AV fistula arteriovenous fistula, TCPC total cavopulmonary connection, AV valve atrioventricular valve, VSD ventricular septal defect, AVR aortic valve replacement

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