

Annual Report of Cardiovascular Surgery 2008

Nagasaki University

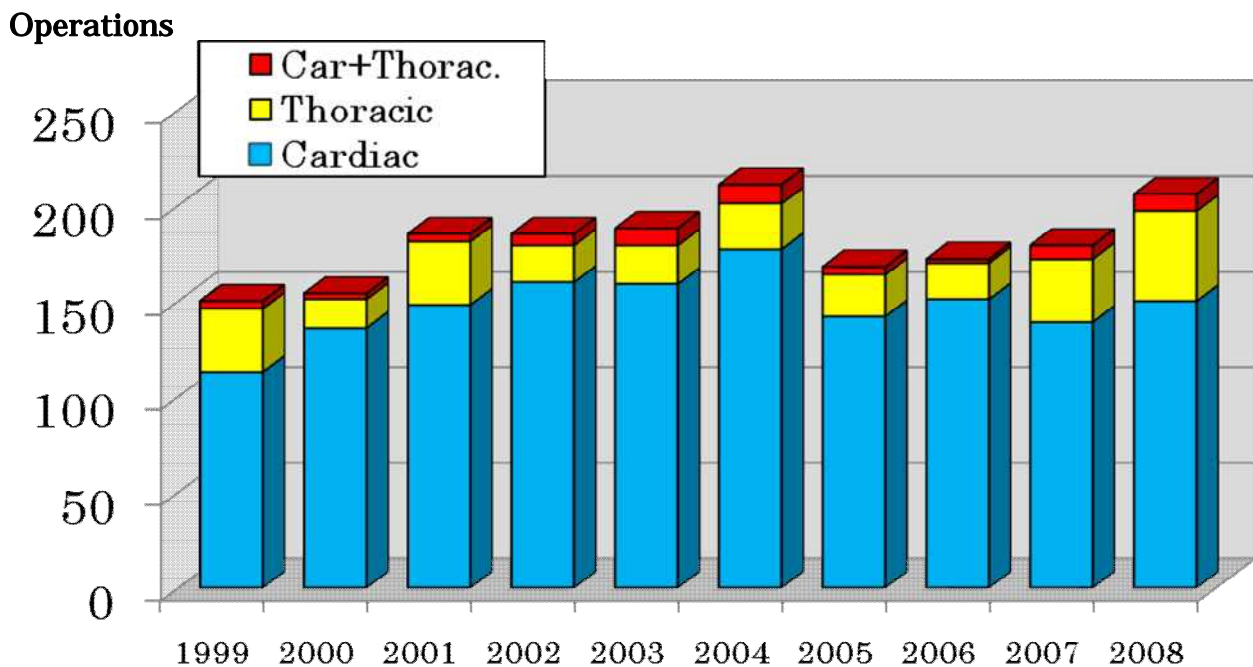
2008.1 ~ 2008.12

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~ Overall ~

. Number of Operations and Surgical mortality

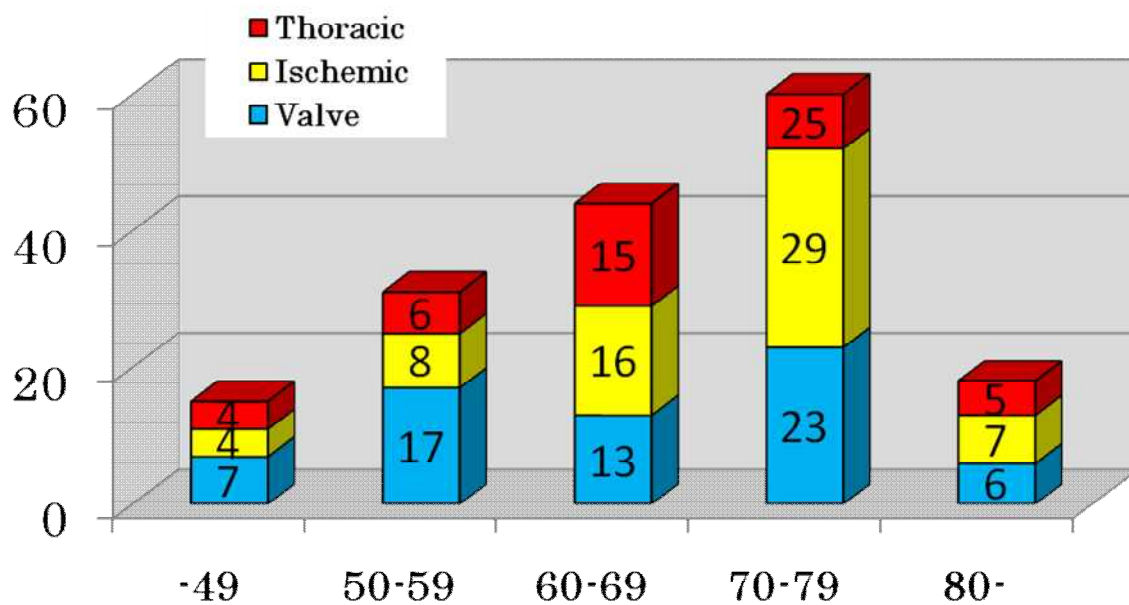
Division	No. Cases	No. OP.	OP. mortality (%)	Hosp. mortality (%)
Cardiac	148	149	1 (0.7)	2 (1.3)
Thoracic	47	47	2 (4.3)	2 (4.3)
Car. + Thoracic	9	9	0	0
Total	204	205	3 (1.5)	4 (1.9)
Abdominal aorta	42	42	1 (2.3)	1 (2.3)
Periphearal artery	26	26	0	0



. Mode of Operation

	total	Scheduled (%)	Urgent (%)	Emergent (%)
Ischemic	64	54 (84.3)	5 (7.8)	5 (7.8)
Valvular	65	65 (100)	0	0
Congenital	7	7 (100)	0	0
Others	14	7 (50)	2 (14.3)	5 (35.7)
Thoracic aorta	56	31 (55.4)	4 (7.1)	21 (37.5)
Abdominal aorta	42	34 (82.9)	0	8 (19.5)
Peripheral artery	26	12 (46.2)	0	14 (53.8)
Total	274	210 (76.6%)	11 (4.0%)	53 (19.3%)

. Age Distribution



~ Summary of Cardio-Vascular Division ~

. Number of Operations and Surgical Mortality

	No. Cases	No. OP.	OP. mortality (%)	Hosp. mortality (%)
Cardiac				
Valvular (redo)	71 (4)	71	0	1 (1.4)
Ischemic (redo)	76 (3)	77	1 (1.3)	1 (1.3)
Congenital	7	7	0	0
Others	14	14	0	0
Vascular				
Thoracic aorta (Stent graft)	56 (11)	56	2 (3.6) 1 (1.8)	2 (3.6) 1 (1.8)
Abdominal aorta (Stent graft)	42 (18)	42	1 (2.4) 0	1 (2.4) 0
Peripheral artery	26	26	0	0

Concomitant Procedure

Valvular(only): 65 cases

CABG(only): 64 cases

Thoracic aorta(only): 47 cases

Valvular + CABG: 10 cases

Valvular + Thoracic aorta: 6 cases

CABG + Thoracic aorta: 3 cases

. Valvular Heart Disease

	No. Cases	No. OP	OP mortality (%)	Hosp. mortality (%)
Aortic *	41	41	0	1 (2.4)
Mitral	24	24	0	0
Tricuspid	1	1	0	0
Pulmonary	0	0	0	0
Combined				
A+M	3	3	0	0
M+T	2	2	0	0
Total	71	71	0	1 (1.4)

* Bentall ope 3cases

a) M-repair

Diagnosis

MR	MSr	MsR	MS	MSR	Total		MVR (%)	Repair (%)
21	0	0	0	0	21		8 (27.5%)	21 (72.5%)

Etiology

Congenital	Infectious	Degenerative	Ischemic	DCM
1	2	16	2	0

Post ope. follow up

Jet area	No. Ope	Post ope. (discharge)	Follow (~ 12M)
non to trivial (0-2cm ²)	21	20	18
mild (2-4cm ²)	0	1	3
mild to moderate (4-8cm ²)	0	0	0
moderate to severe (8cm ² -)	0	0	0

b) Valve Substitutes implanted**53 Prostheses**

	Mechanical	Tissue	Total
AVR	20	24	44
MVR	4	4	8
TVR	0	1	1
PVR	0	0	0
Total	24	29	53

c) Anastomoses

No. Anastomoses	1	2	3	4	5	No. OP
SVD	17	2	0	0	0	19
DVD	0	7	3	0	0	10
TVD	0	2	20	6	0	28
LMT	0	12	7	1	0	20
Total	17	23	30	7	0	77
Total anast.	17	46	90	28	0	181

c) Graft patency

	Anastomoses	Examined	Patent	Rate**	Stenosis*	Rate***
SVG	89	74	70	94.6	1	93.2
Artery	92	77	76	98.7	1	97.4
LITA	65	55	54	98.1	0	98.1
RITA	17	14	14	100	0	100
GEA	10	8	8	100	1	87.5
Total	181	151(83.4%)	146	96.7(%)	2	95.4(%)

Intervention : 0case

Redo CABG : 1 case

*Stenosis : 90%

**patency rate (excl.stenosis)

*** patency rate (incl.stenosis)

. Congenital Heart Disease

	No. Cases	No. OP.	OP. mortality (%)	Hosp. mortality (%)
ASD	6	6	0	0
PDA	1	1	0	0
Total	7	7	0	0

. Others

	No. Cases	No. OP.	OP. mortality (%)	Hosp. mortality (%)
Cardiac tumor	4	4	0	0
Constrictive pericarditis	3	3	0	0
VSP	1	1	0	0
RCC tumor thrombus	2	2	0	0
Transplantation	1	1	0	0
Others	3	3	0	0
Total	14	14	0	0

. Maze operation

	No. Cases	Sinus recovery	(%)
Atricure	2	1	50
Cryoablation	6	6	100
Total	8	7	87.5

. Vascular Disease

a) Replacement site

	No. Cases	No. OP.	OP. mortality (%)	Hosp. mortality (%)
Thoracic				
Ascending aorta	1	1	0	0
Hemiarch	14	14	1 (7.1)	1 (7.1)
Total arch	17	17	0	0
Descending aorta	20	20	0	0
(Stent graft)	(11)	(11)	1 (5)	1 (5)
Thoracoabdominal Ao.	4	4	0	0
Total	56	56	2 (3.6)	2 (3.6)

	No. Cases	No. OP.	OP. mortality (%)	Hosp. mortality (%)
Abdominal aorta	42	42	1 (2.4)	1 (2.4)
(Stent graft)	(18)	(18)	0	0
Peripheral artery	26	26	0	0
Total	68	68	1 (1.5)	1 (1.5)

b) Classification of Thoracic aorta

	No. Cases	Hosp. mortality (%)	Operation method		
Dissecting Acute	24	2 (8.3)	Total arch replacement(+Bentall) Hemiarch replacement Stent Graft	5 10 2	
	17	1 (5.9)			
	13	1 (7.7)			
	2	0			
	a	2			0
	b	0			0
Chronic	7	1 (14.3)	Total arch replacement(+AVR) Hemiarch replacement Descending aorta replacement Stent graft	2 2 1 2	
	1	0			
	2	0			
	a	3			0
	b	1			1 (100)
True Ascending	32	0	Total arch replacement(+CABG)	11	
Arch	3	0	Hemiarch replacement(+Bentall)	2	
Descending	10	0	Descending aorta replacement	8	
Thoracoabdominal	15	0	Stent graft	7	
	4	0	Thoracoabdominal Ao. replace.	4	

c) Classification of Abdominal aorta, peripheral artery

	No. Cases	Hosp. mortality (%)	Operation method	
Abdominal aorta	42	1 (2.4)	Graft replacement	23
AAA	41	1 (2.4)	Stent Graft	18
Non-ruptured	33	0		
Ruptured	8	1 (12.5)		
ASO	1	0	Ao-bifemoral bypass	1
Peripheral artery	26	0		
ASO	12	0	Thrombectomy	8
Acute arterial occlusion	8	0	Bypass grafting	11
Aneurysm	5	0	Plasty	5
Traumatic	1	0	PTA/Stent	2

~ Summary of Hospital death ~

No.	氏名	性	年齢	診断	手術日	緊/待	術後日数
				術式	死亡日	剖検	死因

Cardiac 2cases

1	千 八	M	83	U-AP OMI	2008/4/1	緊	8
				On pump beating CABG	2008/4/9	無	MOF
2	松 正	M	67	AR TAA Mediastinitis	2008/7/1	待機	190
				AVR Grafting	2009/1/7	無	脳出血

Thoracic aorta 2 cases

1	野 末	M	61	AD(A)	2008/1/2	緊	1
				Hemiarch replacement	2008/1/3	無	出血性shock
2	寺 茂	M	60	CD(B) HT	2008/12/10	待機	27
				Stent garfting	2009/12/6	有	逆行性解離

Abdominal aorta 1case

1	澤 フ	F	81	Ruptured AAA	2008/7/20	緊	8
				Grafting	2008/4/28	無	MOF

各種データの解釈

- 1) OP mortality: 術後30日以内の全死亡。
Hospital mortality: 術後院内での全死亡。(他科転科後の他病死も含む。他院転院後の手術関連死も含む)
- 2) Mode of Operation: 二つ以上のカテゴリーを含む手術は主病変と考えられるいずれかのカテゴリーに分類。ただし、CABG + 弁/大血管手術はそれぞれ弁、大血管手術としてカウント。Bentall手術は大血管手術としてカウント。
- 3) Number of Operations and Surgical Mortality: 各手術手技の延べ数を合算。
例: CABG + MP + As.Ao.置換 Ischemic, Valvular, Thoracic aortaのそれぞれに加算。
Bentall OP Valvular, Thoracic aortaのそれぞれに加算。
- 4) Valvular Heart Disease: 弁に対する操作を行った(付加手術の有無にかかわらず)症例数、手術数を計算。
- 5) Ischemic Heart Disease: CABGを行った(付加手術の有無にかかわらず)症例数を計算。
- 6) Vascular Disease: Ascending aortaに対する手術はBentall OPを含む。