OPERATION

Instructions:	i) Where check boxes ☐ are provided, check ☑ one or more boxes. Where radio buttons ◯ are provided, check ◉ one box only. ii) Red asterisk (*) indicates the field is mandatory and must be filled. iii) Underline label indicates the field is use for EuroSCORE II auto-calculation.

General Information

1 *	Date & time of operation (dd-mm-yyyy HH:mm 24 hours format)	Start operation		End operation		
2 *	Operative urgency	◯ Elective	◯ Urgent	◯ Emergency	◯ Salvage	
3	Number of previous heart operations					
4 *	Diagnosis	1 2 3 4 5				
5	Surgical Team	* Consultant Surgeon		Anaesthetist 1		
		* Surgeon		Anaesthetist 2		
		Assistant Surgeon 1		Surgical Assistant		
		Assistant Surgeon 2				

Procedures Classified by Group

1 *	Cardiac Procedure	◯ CABG alone	◯ CABG & Valve	◯ CABG & Valve & other	◯ CABG & other
		◯ Valve alone	◯ Valve & other	◯ Other	
2 *	Other Cardiac Procedure	☐ None		☐ Cardiac trauma	
		☐ LV aneurysmectomy		☐ Cardiac transplant	
		☐ Acquired VSD		☐ Epicardial pacemaker	
		☐ Atrial myxoma		☐ Pericardiectomy	
		☐ ASD closure		☐ Other procedure for congenital condition	
		☐ Pulmonary transplant		☐ Other procedure not listed above	
		☐ Pulmonary embolectomy		☐ VAD	
		☐ Atrial fibrillation ablation		☐ Left atrial appendage ligation	
3 *	Other Thoracic & Vascular Procedure	☐ None		☐ Other vascular procedures	
		☐ Aorta or peripheral vascular		☐ General Thoracic Procedure, please specify:	
		☐ Carotid endarterectomy			
4 *	Surgical Approach	◯ Standard sternotomy	◯ Mini sternotomy	◯ Standard thoracotomy	◯ Mini thoracotomy
		◯ Other, specify	◯ Not Available		
		If Others, please specify			
5 *	Intra Op TEE	◯ Yes	◯ No	◯ Not Available	
		If Yes, did surgical decision change after TEE	◯ Yes	◯ No	◯ Not Available
			If Yes, please specify		

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Graft Procedure							
Fill-in if Cardiac Procedure = CABG							
6 *	Number of distal coronary anstomosis						
		Graft 1	Graft 2	Graft 3	Graft4	Graft 5	Graft 6
7 *	Graft site	Acute Marginal	Acute Marginal	Acute Marginal	Acute Marginal	Acute Marginal	Acute Marginal
		Cx-PDA	Cx-PDA	Cx-PDA	Cx-PDA	Cx-PDA	Cx-PDA
		Diag1	Diag1	Diag1	Diag1	Diag1	Diag1
		Diag2	Diag2	Diag2	Diag2	Diag2	Diag2
		Dis LAD	Dis LAD	Dis LAD	Dis LAD	Dis LAD	Dis LAD
		Dist LCX	Dist LCX	Dist LCX	Dist LCX	Dist LCX	Dist LCX
		Dist RCA	Dist RCA	Dist RCA	Dist RCA	Dist RCA	Dist RCA
		Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
		LMS	LMS	LMS	LMS	LMS	LMS
		Mid LAD	Mid LAD	Mid LAD	Mid LAD	Mid LAD	Mid LAD
		Mild RCA	Mild RCA	Mild RCA	Mild RCA	Mild RCA	Mild RCA
		OM1	OM1	OM1	OM1	OM1	OM1
		OM2	OM2	OM2	OM2	OM2	OM2
		OM3	OM3	OM3	OM3	OM3	OM3
		OM4	OM4	OM4	OM4	OM4	OM4
		Prox LAD	Prox LAD	Prox LAD	Prox LAD	Prox LAD	Prox LAD
		Prox.RCA	Prox.RCA	Prox.RCA	Prox.RCA	Prox.RCA	Prox.RCA
		ProxCx	ProxCx	ProxCx	ProxCx	ProxCx	ProxCx
		RCA-LV	RCA-LV	RCA-LV	RCA-LV	RCA-LV	RCA-LV
		RCA-PDA	RCA-PDA	RCA-PDA	RCA-PDA	RCA-PDA	RCA-PDA
8 *	Graft conduit	Pedicle LIMA	Pedicle LIMA	Pedicle LIMA	Pedicle LIMA	Pedicle LIMA	Pedicle LIMA
		Skeletonised LIMA	Skeletonised LIMA	Skeletonised LIMA	Skeletonised LIMA	Skeletonised LIMA	Skeletonised LIMA
		Pedicle RIMA	Pedicle RIMA	Pedicle RIMA	Pedicle RIMA	Pedicle RIMA	Pedicle RIMA
		Skeletonised RIMA	Skeletonised RIMA	Skeletonised RIMA	Skeletonised RIMA	Skeletonised RIMA	Skeletonised RIMA
		Pedicle RGEA	Pedicle RGEA	Pedicle RGEA	Pedicle RGEA	Pedicle RGEA	Pedicle RGEA
		Free LIMA	Free LIMA	Free LIMA	Free LIMA	Free LIMA	Free LIMA
		Free RIMA	Free RIMA	Free RIMA	Free RIMA	Free RIMA	Free RIMA
		Free RGEA	Free RGEA	Free RGEA	Free RGEA	Free RGEA	Free RGEA
		Radial Artery	Radial Artery	Radial Artery	Radial Artery	Radial Artery	Radial Artery
		Long SV	Long SV	Long SV	Long SV	Long SV	Long SV
		Short SV	Short SV	Short SV	Short SV	Short SV	Short SV
	If LIMA / RIMA not used, please specify reason why not use						
9 *	Anastomosis	End to Side	End to Side	End to Side	End to Side	End to Side	End to Side
		Side to side	Side to side	Side to side	Side to side	Side to side	Side to side
10 *	Coronary Endarterectomy	Yes		No		Not Available	

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Valve Procedure

Fill-in if Cardiac Procedure = Valve

		Aortic valve	Mitral valve	Tricuspid valve	Pulmonary valve
11 *	Haemodynamic Pathology	None Regurgitation Stenosis Mixed	None Regurgitation Stenosis Mixed	None Regurgitation Stenosis Mixed	None Regurgitation Stenosis Mixed
12 *	Explant valve type	None Native Mechanical Biological Homograft Autograft Ring	None Native Mechanical Biological Homograft Autograft Ring	None Native Mechanical Biological Homograft Autograft Ring	None Native Mechanical Biological Homograft Autograft Ring
13 *	Native valve pathology	Congenital Degenerative valve Active endocarditis Previous endocarditis Rheumatic Annuloaortic estasia Calcific degeneration Ishaemic Functional Other native valve pathology	Congenital Degenerative valve Active endocarditis Previous endocarditis Rheumatic Annuloaortic estasia Calcific degeneration Ishaemic Functional Other native valve pathology	Congenital Degenerative valve Active endocarditis Previous endocarditis Rheumatic Annuloaortic estasia Calcific degeneration Ishaemic Functional Other native valve pathology	Congenital Degenerative valve Active endocarditis Previous endocarditis Rheumatic Annuloaortic estasia Calcific degeneration Ishaemic Functional Other native valve pathology
	Other native valve pathology				
14 *	Reason for repeat valve surgery	None Thrombosis ingrowth of tissue valve Dehiscene Embolism Infection Intrinsic valve failure Haemolysis Other	None Thrombosis ingrowth of tissue valve Dehiscene Embolism Infection Intrinsic valve failure Haemolysis Other	None Thrombosis ingrowth of tissue valve Dehiscene Embolism Infection Intrinsic valve failure Haemolysis Other	None Thrombosis ingrowth of tissue valve Dehiscene Embolism Infection Intrinsic valve failure Haemolysis Other
	Other reason for repeat valve surgery				
15 *	Valve procedure	Replacement Repair None	Replacement Repair None	Replacement Repair None	Replacement Repair None
16 *	Implant type	Autograft Biological Homograft Mechanical Ring None	Autograft Biological Homograft Mechanical Ring None	Autograft Biological Homograft Mechanical Ring None	Autograft Biological Homograft Mechanical Ring None
17	Implant prosthesis				
18	Valve or ring size (mm)				
19 *	Number of valve replaced/repaired (Auto Calculated)				

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Aortic Procedure

Fill-in if Other Thoracic & Vascular Procedure = Aorta or peripheral vascular

		Root	Ascending	Arch	Descending	Abdominal
20 *	Aortic procedure	Interposition tube graft Tube graft + separate AVR Root replacement with composite valve graft and coronary reimplantation Root replacement with preservation of native valve and coronary reimplantation Homograft root replacement Autograft root replacement (Ross procedure) Sinus of valsalva repair Reduction aortoplasty Aortic patch graft Endovascular stenting	Interposition tube graft Tube graft + separate AVR Root replacement with composite valve graft and coronary reimplantation Root replacement with preservation of native valve and coronary reimplantation Homograft root replacement Autograft root replacement (Ross procedure) Sinus of valsalva repair Reduction aortoplasty Aortic patch graft Endovascular stenting	Interposition tube graft Interposition tube graft (arch vessels anastomosed as a cuff) Interposition tube graft (arch vessels anastomosed individually) Interposition tube graft (hemi-arch replacement) Reduction aortoplasty Endovascular stenting	Interposition tube graft Interposition tube graft (elephant trunk) Reduction aortoplasty Endovascular stenting Frozen Elephant Trunk (FET)	Interposition tube graft Interposition tube graft (elephant trunk) Reduction aortoplasty Endovascular stenting
21 *	Aortic pathology	Aneurysm Syphilis Dissection Transection Coarctation Atheromatous Marfan Mycotic	Aneurysm Syphilis Dissection Transection Coarctation Atheromatous Marfan Mycotic	Aneurysm Syphilis Dissection Transection Coarctation Atheromatous Marfan Mycotic	Aneurysm Syphilis Dissection Transection Coarctation Atheromatous Marfan Mycotic	Aneurysm Syphilis Dissection Transection Coarctation Atheromatous Marfan Mycotic
22 *	Number of Aortic (Auto Calculated)					

Cardiopulmonary Support

23 * Cardiopulmonary Support: Central CPB / Peripheral CPB / No CPB

Fill-in if if Cardiopulmonary Support = Central CPB or Peripheral CPB

a *	Cardioplegia solution	Blood / Crystalloid / None / Not Available
b *	Cardioplegia Temperature	Warm / Cold / Not Available
c *	Cardioplegia Infusion Mode	Antegrade / Retrograde / None
d *	Cardioplegia Timing	Continuous / Intermittent / Not Available / Missing
e *	Non-cardioplegia myocardial protection	Aortic cross-clamping with fibrillation / Fibrillation with perfusion / Cross-clamp with direct coronary perfusion / Beating heart with cross-clamp / Beating heart without cross-clamp / None

24 *	Intra-aortic ballon pump used	No / Pre-op / Intra-op / Post-op Reason for IABP use: Not available / Hemodynamic instability / Unstable angina / CPB wean / Prophylactic
25 *	Other mechanical support	VAD / ECMO / None / Not Available
26 *	Lowest body temperature during CPB	Normothermia / Mild / Moderate / Profound / Not Available Temperature (°C)
27 *	Cerebral protection	Retrograde / Antegrade / None / Missing
28	Cumulative bypass time	(min)
29	Cumulative cross clamp time	(min)
30	Total circulatory arrest time	(min)

Remarks

31	Remarks	