

# Appendix B: Data collection form

AUSTRALIAN INSTITUTE OF HEALTH AND WELFARE

## CARDIAC SURGERY REGISTER

Annual report form for year ending December 1994

*To be completed by .....*

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**CARDIAC SURGERY REGISTER REPORT FORM  
FOR OPERATIONS PERFORMED IN 1994**

**NAME OF UNIT:** .....

**UNIT NUMBER:** .....

**CARDIAC SURGEONS IN YOUR UNIT**

	1994	
<b>SURGEONS</b>	<b>Names of surgeons</b>	<b>Head of department</b>
		<b>Surgeon responsible for this report</b>
<b>SURGEONS IN TRAINING IN AUSTRALIA*</b>	<b>Names of trainees</b>	<b>Status (i.e. R.A.C.S. approved trainee, service registrar, overseas registrar)</b>
<b>AUSTRALIANS TRAINING OVERSEAS</b>		

- *Please indicate if a foreign national visiting Australia for training.*

## MISCELLANEOUS PROCEDURES

**List here all procedures not readily fitting into any other section**

Only enter here cases that do not fit into the specific categories used on subsequent pages. Please provide as much information as possible on these miscellaneous cases, such as the age of the patients, if the case involves a congenital defect, the number of grafts involved, if it includes coronary artery surgery, and the type of valve used if it is a valve case. If it is not obvious, please indicate whether cardiopulmonary bypass was used or not.

***for ACQUIRED DISEASE***

PROCEDURE	CLOSED		OPEN	
	No.	D.	No.	D.

***for CONGENITAL DEFECTS***

PROCEDURE	CLOSED		OPEN	
	No.	D.	No.	D.

**Please note:** Throughout the form, the column heading 'No.' refers to the total number of operations in the particular category, not only the survivors of the operation. The column heading 'D.' refers to the number of deaths resulting from this total number of operations.

**ACQUIRED DISEASE : VALVE SURGERY - SINGLE**

<b>MITRAL</b> - Valvotomy	<b>CLOSED</b>	
	<b>No.</b>	<b>D.</b>

<b>SINGLE VALVE PROCEDURE</b>			<b>OPEN</b>			
			<b>Without coronary artery graft</b>		<b>With coronary artery graft</b>	
			<b>No.</b>	<b>D.</b>	<b>No.</b>	<b>D.</b>
<b>MITRAL</b>	Open mitral valvotomy					
	Reconstruction	<i>with support ring</i>				
		<i>without ring</i>				
	Replacement	<i>mitral homograft</i>				
		<i>heterograft prosthesis</i>				
<b>AORTIC</b>	Valvotomy					
	Reconstruction	<i>decalcification</i>				
		<i>for regurgitation</i>				
		<i>other/unstated</i>				
	Replacement	<i>pulmonary autograft</i>				
		<i>classical homograft</i>				
		<i>"mini root" homograft</i>				
		<i>stent mounted heterograft</i>				
		<i>"mini root" heterograft</i>				
		<i>prosthesis</i>				
<b>TRICUSPID</b>	Reconstruction	<i>with support ring</i>				
		<i>without ring</i>				
	Replacement	<i>heterograft</i>				
		<i>prosthesis</i>				
<b>PULMONARY</b>	Reconstruction					
	Replacement*	<i>homograft</i>				
		<i>heterograft prosthesis</i>				
<b>TOTAL NUMBER OF PATIENTS</b>						

\* *In case of valve replacement using pulmonary autograft, please indicate the pulmonary replacement as an attached note. This will not be included as a double valve.*

## ACQUIRED DISEASE : VALVE SURGERY - DOUBLE

DOUBLE VALVE PROCEDURE			OPEN			
			Without coronary artery graft		With coronary artery graft	
			No.	D.	No.	D.
<b>MITRAL</b>	Valvotomy					
	Reconstruction	<i>with support ring</i>				
		<i>without ring</i>				
	Replacement	<i>mitral homograft</i>				
		<i>heterograft prosthesis</i>				
<b>AORTIC</b>	Valvotomy					
	Reconstruction	<i>decalcification</i>				
		<i>for regurgitation</i>				
		<i>other/unstated</i>				
	Replacement	<i>pulmonary autograft</i>				
		<i>classical homograft</i>				
		<i>"mini root" homograft</i>				
		<i>stent mounted heterograft</i>				
		<i>"mini root" heterograft</i>				
		<i>prosthesis</i>				
<b>TRICUSPID</b>	Reconstruction	<i>with support ring</i>				
		<i>without ring</i>				
	Replacement	<i>heterograft</i>				
		<i>prosthesis</i>				
<b>TOTAL NUMBER OF VALVES*</b>						
<b>TOTAL NUMBER OF PATIENTS</b>						

\* *By individual valves. As each patient has operations on two valves, the total number and total deaths must each add up to twice the number shown for total patients.*

### ACQUIRED DISEASE : VALVE SURGERY - TRIPLE

TRIPLE VALVE PROCEDURE			OPEN			
			Without coronary artery graft		With coronary artery graft	
			No.	D.	No.	D.
<b>MITRAL</b>	Valvotomy					
	Reconstruction	<i>with support ring</i>				
		<i>without ring</i>				
	Replacement	<i>mitral homograft</i>				
		<i>heterograft</i>				
		<i>prosthesis</i>				
<b>AORTIC</b>	Valvotomy					
	Reconstruction	<i>decalcification</i>				
		<i>for regurgitation</i>				
		<i>other/unstated</i>				
	Replacement	<i>pulmonary autograft</i>				
		<i>classical homograft</i>				
		<i>"mini root" homograft</i>				
		<i>"mini root" valve replacement</i>				
		<i>stent mounted heterograft</i>				
		<i>"mini root" heterograft</i>				
		<i>prosthesis</i>				
	<b>TRICUSPID</b>	Reconstruction	<i>with support ring</i>			
<i>without ring</i>						
Replacement		<i>heterograft</i>				
		<i>prosthesis</i>				
<b>TOTAL NUMBER OF VALVES*</b>						
<b>TOTAL NUMBER OF PATIENTS</b>						
Some of the valve patients reported on pages 3, 4 & 5 will be having their second valve replacement. Please indicate the number of valve replaced for:						
			No.	D.		
1. Mechanical valve failures						
2. Tissue valve failures						

\* *By individual valves. As each patient has operations on three valves, the total number and total deaths must each add up to three times the number shown for total patients.*

## SURGERY FOR ACQUIRED CORONARY HEART DISEASE

<b>OPEN WITH GRAFTS</b>												
Number of distal anastomoses	No other procedure		With valve surgery		With myocardial resection or plication		With repair of VSD		With other procedures		Total	
	No.	D.	No.	D.	No.	D.	No.	D.	No.	D.	No.	D.
1.												
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
<b>TOTAL</b>			**									
Reoperations for coronary artery disease*												

\* *Please make sure that the reoperations are also included in the main part of the table.*

\*\* *Please check that this total is the same as the total number of patients reported on pages 3, 4 & 5 as having coronary artery grafts as well as valve surgery.*

## SURGERY FOR ACQUIRED CORONARY HEART DISEASE (Cont)

### TYPE OF GRAFT

Please enter here how many of your patients had one of the following used as at least one of their grafts, so that we can calculate the use of each. Please report the number of *patients*, not grafts.

	No. of Patients
Saphenous vein	
Internal mammary artery	
Inferior epigastric artery	
Gastroepiploic artery	
Cephalic vein	
Radial artery	
Prosthetic or bio prosthetic	

### SURGERY FOR ACQUIRED CORONARY HEART DISEASE WITHOUT GRAFTS

Open	Myocardial resection or plication		Closure of VSD		Other		Total	
	No.	D.	No.	D.	No.	D.	No.	D.
Without Grafts								

### OTHER PROCEDURES FOR CORONARY HEART DISEASE

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**ACQUIRED DISEASE : GREAT VESSEL SURGERY**

<b>REPAIR OR REPLACEMENT OF ASCENDING AORTA</b>			<b>OPEN</b>			
			<b>Without coronary artery graft</b>		<b>With coronary artery graft</b>	
			<b>No.</b>	<b>D.</b>	<b>No.</b>	<b>D.</b>
Acute (dissection)	aortic repair	without valve resuspension				
	aortic repair	with valve resuspension				
	*composite graft replacing aortic valve and ascending aorta					
	*homograft replacement of aortic valve and ascending aorta					
	*separate aorta and valve replacement					
Chronic (for aneurysm or dissection)	aortic repair	without valve resuspension				
	aortic repair	with valve resuspension				
	*composite graft replacing aortic valve and ascending aorta					
	*homograft replacement of aortic valve and ascending aorta					
	*separate aorta and valve replacement					
<b>TOTAL</b>						

\* *These cases should **not** be included under valve surgery.*

<b>REPLACEMENT OF AORTIC ARCH</b>		<b>OPEN</b>			
		<b>Without coronary artery graft</b>		<b>With coronary artery graft</b>	
		<b>No.</b>	<b>D.</b>	<b>No.</b>	<b>D.</b>
	for aneurysm				
	for dissection				
<b>TOTAL</b>					

<b>REPLACEMENT OF DESCENDING THORACIC AORTA</b>		<b>CLOSED</b>		<b>OPEN</b>	
		<b>No.</b>	<b>D.</b>	<b>No.</b>	<b>D.</b>
	for aneurysm				
	for dissection				
<b>TOTAL</b>					

*If hemi arch replacement is part of any of the above procedures, please indicate this in a footnote or attachment.*

### ACQUIRED DISEASE : OTHER CONDITIONS

TRANSPLANTATION		NO.	DEATHS
Cardiac	cardiomyopathy		
	ischaemia		
	other/unstated		
Heart-Lung	congenital		
	other/unstated		
Lung	whole		
	lobe		

		OPEN			
		Without coronary artery graft		With coronary artery graft	
		No.	D.	No.	D.
<b>ELECTROPHYSIOLOGICAL SURGERY</b>					
<b>SUPRAVENTRICULAR TACHYCARDIAS</b>	Wolff-Parkinson White Syndrome				
	AV-Junction				
	Atrial fibrillation or flutter				
	AV node ablation				
<b>VENTRICULAR TACHYCARDIAS</b>	Recurrent ventricular tachycardia				
	- aneurysmectomy				
	- myocardial incision				
<b>CARDIAC TUMOUR/ CARDIOMYOPATHY</b>	myxoma				
	other cardiac tumour				
	IHSS				
<b>TOTAL</b>					

**ACQUIRED DISEASE : OTHER CONDITIONS (Cont)**

		CLOSED		OPEN without grafts	
		No.	D.	No.	D.
<b>CARDIAC TRAUMA</b>	atrium				
	ventricle				
	*valves				
	ascending aorta				
	descending aorta				
	other				
<b>PULMONARY EMBOLLECTOMY</b>					
<b>PERICARDIECTOMY FOR</b>	tuberculosis				
	non-specific infection				
	uraemia				
	other				
<b>OTHER CONDITIONS</b>	please list				
<b>TOTAL</b>					

\* *These cases **should not be** included under valve surgery.*

TOTAL PATIENTS : ACQUIRED DISEASE	OPEN				CLOSED	
	WITHOUT GRAFTS		WITH GRAFTS			
	No.	D.	No.	D.	No.	D.

### CONGENITAL DEFECTS : VALVE SURGERY

	CLOSED		
	No.	D.	Age
MITRAL - valvotomy			
PULMONARY - valvotomy			

SINGLE VALVE PROCEDURE	Under 1 Month		1-6 Months		Over 6 Months	
	No.	D.	No.	D.	No.	D.
<b>OPEN</b>						
<b>MITRAL</b> Valvotomy						
Reconstruction						
Replacement <i>heterograft</i>						
<i>prosthesis</i>						
<b>AORTIC</b> Valvotomy						
Reconstruction						
Replacement <i>homograft</i>						
<i>heterograft</i>						
<i>prosthesis</i>						
<b>TRICUSPID</b> Valvotomy						
Reconstruction						
Replacement <i>heterograft</i>						
<i>prosthesis</i>						
<b>PULMONARY</b> Valvotomy						
Reconstruction						
Replacement <i>homograft</i>						
<i>heterograft</i>						
<i>prosthesis</i>						
<b>TOTAL NUMBER OF PATIENTS</b>						

## CONGENITAL DEFECTS : OTHER COMMON CONDITIONS

	Under 1 Month				1-6 Months				Over 6 Months			
	Closed		Open		Closed		Open		Closed		Open	
	No.	D.	No.	D.	No.	D.	No.	D.	No.	D.	No.	D.
<b>Persistent ductus arteriosus</b>												
<b>Coarctation of aorta</b>												
Simple												
Complicated												
<b>Atrial septal defect</b>												
<b>Ventricular septal defect</b>												
Uncomplicated <i>palliative</i>												
<i>corrective</i>												
With PS <i>palliative</i>												
<i>corrective</i>												
With pulmonary <i>palliative</i>												
atresia <i>corrective</i>												
<b>Tetralogy of Fallot</b>												
Simple <i>palliative</i>												
<i>corrective</i>												
Complicated <i>palliative</i>												
<i>corrective</i>												
Acquired <i>palliative</i>												
pulmonary atresia <i>corrective</i>												
<b>TOTALS (this page)</b>												

**Please note:** Please be careful to put the cases in the correct columns, indicating whether they were done using the open or closed technique.

### CONGENITAL DEFECTS : OTHER COMMON CONDITIONS (Cont)

	Under 1 Month				1-6 Months				Over 6 Months			
	Closed		Open		Closed		Open		Closed		Open	
	No.	D.	No.	D.	No.	D.	No.	D.	No.	D.	No.	D.
<b>Transposition of great vessels</b>												
With intact ventricular septum												
<i>palliative</i>												
<i>corrective</i>												
With VSD												
<i>palliative</i>												
<i>corrective</i>												
With other significant anomaly												
<i>palliative</i>												
<i>corrective</i>												
With inversion of ventricles*												
<i>palliative</i>												
<i>corrective</i>												
Corrected transposition & other significant anomaly												
<i>palliative</i>												
<i>corrective</i>												
<b>TOTALS (this page)</b>												

\* Formerly 'corrected transposition with VSD'.

**Please note:** Please be careful to put the cases in the correct columns, indicating whether they were done using the open or closed technique.

## CONGENITAL DEFECTS : LESS COMMON CONDITIONS

	Under 1 Month				1-6 Months				Over 6 Months			
	Closed		Open		Closed		Open		Closed		Open	
	No.	D.	No.	D.	No.	D.	No.	D.	No.	D.	No.	D.
<b>EXTRA-CARDIAC LESIONS</b>												
A-P window												
Interrupted aortic arch												
Vascular ring												
<b>CORONARY ARTERY DEFECTS</b>												
<b>MISCELLANEOUS</b>												
Total anomalous pulmonary venous return												
<i>palliative</i>												
<i>corrective</i>												
Asplenia syndrome												
<i>palliative</i>												
<i>corrective</i>												
Exploration only												
Surgical procedures for other conditions (please specify)												
<b>TOTALS (this page)</b>												

**Please note:** Please be careful to put the cases in the correct columns, indicating whether they were done using the open or closed technique.

**CONGENITAL DEFECTS : LESS COMMON CONDITIONS (Cont)**

	Under 1 Month				1-6 Months				Over 6 Months			
	Closed		Open		Closed		Open		Closed		Open	
	No.	D.	No.	D.	No.	D.	No.	D.	No.	D.	No.	D.
<b>RIGHT SIDED LESIONS</b>												
Ebstein's anomaly <i>palliative</i>												
<i>corrective</i>												
Tricuspid atresia <i>palliative</i>												
<i>corrective</i>												
Pulmonary atresia <i>palliative</i> (with intact septum)												
<i>corrective</i>												
<b>LEFT SIDED LESIONS</b>												
Cor triatrium <i>palliative</i>												
<i>corrective</i>												
Mitral atresia												
Hypoplastic left heart syndrome												
Sub-aortic stenosis												
Supra valvular stenosis												
<b>TOTALS (this page)</b>												

**Please note:**    *Please be careful to put the cases in the correct columns, indicating whether they were done using the open or closed technique.*

**CONGENITAL DEFECTS : LESS COMMON CONDITIONS (Cont)**

	Under 1 Month				1-6 Months				Over 6 Months			
	Closed		Open		Closed		Open		Closed		Open	
	No.	D.	No.	D.	No.	D.	No.	D.	No.	D.	No.	D.
<b>DEFECTS OF PARTITIONING</b>												
AV Canal - partial <i>palliative</i>												
<i>corrective</i>												
AV Canal - total <i>palliative</i>												
<i>corrective</i>												
Double outlet RV <i>palliative</i>												
<i>corrective</i>												
Truncus arteriosus <i>palliative</i>												
<i>corrective</i>												
Other (please specify)												
<b>TOTALS (this page)</b>												
<b>TOTAL PATIENTS : CONGENITAL DEFECTS (pages 12 to 17)</b>												

**Please note:** *Please be careful to put the cases in the correct columns, indicating whether they were done using the open or closed technique.*