

# CARDIOVASCULAR SURGICAL PROCEDURES

## PREAMBLE

1. Unless otherwise stated, excision or repair procedures for arteries and veins include endarterectomy, thrombectomy and/or bypass graft.
2. Excision or repair procedures for arteries and veins include harvest of graft tissue, except where harvest of graft tissue is explicitly excluded from the procedure. Where harvest of graft tissue is included as a specific element of the procedure, the harvest is an insured service payable at nil.

# CARDIOVASCULAR SURGICAL PROCEDURES

## HEART AND PERICARDIUM

Asst | Surg | Anae

**Note:**

Preliminary diagnostic catheterization - extra to operative fees (see Diagnostic and Therapeutic Procedures). The basic anaesthetic fee of 28 units or more for major cardiovascular surgery includes such procedures as insertion of C.V.P. line (G268), arterial line, blood sampling, blood analysis and interpretations.

# R700 With hypothermia and without bypass - basic fee for cardiovascular procedures . . . . . - 25

**Note:**

R700 replaces procedural basic code when hypothermia is used where basic is less than 25 units.

# Z759 Removal of failed vascular graft without arterial reconstruction - when sole procedure . . . . . 189.55 6

# E655 - re-operation for failed vascular grafts - for repair or replacement of existing prosthesis (more than one month after original operation) . . . . . add 348.70

**Pump bypass**

# E650 - includes cannulating and decannulating heart or major vein, major artery, supervision of pump and pump run. . . . . add 366.50 28

# E682 - axillary artery graft for cardiopulmonary bypass, to E650 . . . . . add 423.85

**Note:**

Anaesthesiologist - see General Preamble GP59 to GP63.

**Circulatory assist device e.g. intra-aortic balloon**

# Z743 - open . . . . . 307.80 6

# Z780 - percutaneous . . . . . 219.80 6

**Note:**

Includes cannulation, repair of artery, daily care and supervision.

**Decannulation of circulatory assist device**

# Z744 - open . . . . . 123.05 6

# Z781 - percutaneous . . . . . 39.00

**Note:**

1. Includes repair of artery.
2. R815 not to be claimed in addition to Z744.

**Repositioning of intra-aortic balloon pump**

# Z751 - open . . . . . 127.95 6

# Z782 - percutaneous . . . . . 82.55

**Note:**

No claim to be made for repositioning within 24 hrs of original insertion.

# CARDIOVASCULAR SURGICAL PROCEDURES

## HEART AND PERICARDIUM

Asst Surg Anae

### Re-operation involving open heart procedures with pump

# E670	- following previous thoracotomy . . . . .	add	224.70	
# E671	- following previous sternotomy . . . . .	add	337.00	

**Note:**

More than one month after original operation.

### Cardiac massage

# R765	- open . . . . .		13 231.30	13
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**Note:**

For closed massage - see Critical Care - Diagnostic and Therapeutic Procedures.

# Z433	Replacement of pacemaker pack (single or multiple leads) . . .		146.45	6
# Z444	Insertion of permanent endocardial electrode and implantation of pack, includes insertion of temporary transvenous lead at same surgical procedure by same surgeon . . . . .	6	323.75	6
# Z445	Repositioning of permanent endocardial electrode (as separate procedure) . . . . .		323.75	6
# Z435	Insertion of permanent endocardial electrode(s) . . . . .		154.10	
# Z436	Exposure of vein and implantation of pack . . . . .		166.55	6
# R752	Atrio-ventricular sequential pacemaker with permanent atrial and ventricular endocardial electrodes . . . . .	6	454.55	6
# R751	Implantation of epicardial electrode(s) plus implantation of pack . . . . .	6	465.00	20
# Z429	Implantation of coronary sinus lead for biventricular pacing . . .	6	299.25	8

### Implantation of ventricular assist device

# R701	- uni-ventricular . . . . .	18	721.60	28
# R702	- bi-ventricular . . . . .	18	1334.80	28
# Z412	Replacement or repair of pacemaker lead . . . . .	6	110.75	6
# Z428	Pacemaker lead extraction, including the use of extraction sheathes, with or without laser or similar technology . . . . .	10	598.50	7
# E628	- each additional lead extraction . . . . .		194.50	

### Implantation of cardioverter (CD) defibrillator

# R753	- by thoracotomy . . . . .	6	720.30	20
# R761	- by transvenous approach . . . . .	6	587.35	8

**Note:**

Induction of ventricular arrhythmia at time of CD implant payable at 85%. See note re: G259 in Diagnostic and Therapeutic Procedures.

# Z415	Removal and/or replacement of implantable cardioverter defibrillator . . . . .	6	339.45	6
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# CARDIOVASCULAR SURGICAL PROCEDURES

## HEART AND PERICARDIUM

	Asst	Surg	Anae
<b>Thoracotomy</b>			
# M137 - with or without biopsy . . . . .	9	390.65	13
# M134 - for post-operative haemorrhage . . . . .	9	390.65	13
# Z401 Aspiration of pericardium . . . . .		131.70	
# Z414 Injection of pericardial sclerosing agents . . . . .		23.10	
# R750 Open biopsy of pericardium and drainage (transthoracic or epigastric) . . . . .	13	317.85	13
<b>Pericardiectomy</b>			
# R748 - one side open . . . . .	13	635.45	20
# R749 - both sides open or sternal split . . . . .	13	1001.40	20
<b>Cardiotomy</b>			
# R712 - with exploration . . . . .	18	525.75	20
# R713 - with removal of foreign body . . . . .	18	635.45	20
# R714 - with removal of tumour . . . . .	18	525.75	20
# E660 - epicardial E.P.S. mapping . . . . . add		185.15	
# E661 - endocardial E.P.S. mapping . . . . . add		185.15	
# E658 - HIS Bundle ablation . . . . . add		278.10	
# R711 Division of accessory conduction pathway (to include cardiotomy, mapping with or without HIS bundle) . . . . .		741.55	20
# R709 Atrial ablative procedure for surgical treatment of atrial arrhythmia (either Cox-Maze procedure or performed using an energy source) . . . . .	18	741.55	20
# R710 Resection/ablation for ventricular tachycardia (to include cardiotomy, mapping with or without HIS bundle) . . . . .		1112.15	20
<b>EXCISION</b>			
# R920 Ventricular tumour . . . . .	18	712.15	28
# R746 Ventricular aneurysm . . . . .	18	864.50	28
# R747 Aneurysm of sinus of Valsalva . . . . .	18	783.55	28
# E648 - excision of extensive endocardial scar, to ventriculotomy or aneurysm repair . . . . . add		135.80	
# R741 Coronary artery endarterectomy and/or gas endarterectomy . . . . .	18	730.70	20
# E651 - when done in conjunction with coronary artery repair . . . . . add		202.05	

**Note:**

R741, E651 - for multiple or complex procedures, assessment by the Medical Consultant is available and may be requested.

# CARDIOVASCULAR SURGICAL PROCEDURES

## HEART AND PERICARDIUM

Asst Surg Anae

### Coronary artery repair

# R742	- one .....	18	895.55	20
# R743	- two .....	18	1202.45	20
# E654	- each additional .....		187.70	
# E645	- off pump coronary artery bypass grafting, to R742 or R743 .....	24	366.50	40

#### Note:

1. For the anaesthesiologist, when off-pump coronary artery bypass grafting is rendered, submit claim using E645C with 40 basic units plus time units, instead of R742C or R743C. See General Preamble GP63.
2. For the surgical assistant, when off-pump coronary artery bypass grafting is rendered, submit claim using E645B with 24 basic units plus time units, instead of R742B or R743B.
3. Where a single segment of vein is used for more than 2 anastomoses, the second and subsequent anastomoses are to be claimed at 50% of the E654 fee.

# E652	- use of internal mammary or epigastric or radial artery for construction of bypass graft .....		183.00	
# E646	- vein patch angioplasty of coronary artery .....		187.80	

### Interruption of bronchial collateral arteries (one or more arteries)

# R857	- as sole procedure .....	13	730.70	20
# E663	- when done in conjunction with other cardiac surgery .....		183.00	

### Ligation or division patent ductus

# R754	- infant or child .....	13	525.75	20
# R755	- adolescent or adult .....	13	730.70	20

### Resection coarctation

# R757	- infant .....	13	785.90	20
# R756	- child .....	13	755.80	20
# R758	- adolescent or adult .....	13	967.10	20
# R759	Congenital heart procedures - e.g. Blalock, Glenn, Potts, Waterston or Central .....	13	755.80	20

### Creation of ASD

# R763	- by balloon septostomy .....	9	317.85	9
# R762	- by thoracotomy or Sterling Edwards .....	18	755.80	20

### Closure of atrial septal defect

# R715	- secundum .....	18	755.80	20
# R716	- endocardial cushion and valve defect .....	18	1124.70	20
# R717	- with anomalous pulmonary venous drainage .....	18	948.75	28
# R718	Closure of ventricular septal defect .....	18	948.75	28

#### Note:

R718 should be claimed only once regardless of the number of defects repaired by one patch.

# CARDIOVASCULAR SURGICAL PROCEDURES

## HEART AND PERICARDIUM

Asst Surg Anae

### Percutaneous transluminal catheter assisted closure for Secundum arterial septal defect

Z465	- device closure of a single defect . . . . .	198.55
Z466	- device closure of two or more defects . . . . .	347.45

**Note:**

A maximum of 2 services of either Z465 or Z467 are eligible for payment if the services are rendered by 2 different physicians, same patient same day.

# R870	Orthotopic cardiac transplantation . . . . .	18	1443.05	28
# R872	Donor cardiectomy. . . . .	7	481.40	8
# R874	Cardiopulmonary transplantation. . . . .	18	2534.25	28
# M157	Donor Heart - Lung removal . . . . .	8	906.45	8

### REPAIR

# R720	Total repair Tetralogy of Fallot - with or without previous arterial shunt . . . . .	18	1261.80	28
# R722	Total anomalous pulmonary venous drainage . . . . .	18	1124.70	28
# R723	Total correction transposition of great vessels. . . . .	18	1124.70	28
# R721	Arterial repair of transposition . . . . .	18	1687.50	28
# R921	Complete A-V canal. . . . .	18	1480.40	28
# R922	Single ventricle . . . . .	18	1687.50	28
# R923	Double outlet - right/left ventricle . . . . .	18	1480.40	28
# R924	Double outlet ventricle with transposition. . . . .	18	1687.50	28
# R925	Truncus arteriosus. . . . .	18	1687.50	28
# R926	Interrupted aortic arch . . . . .	18	1480.40	28
# R927	Aorto-pulmonary window . . . . .	18	948.75	28
# R928	R-V outflow tract with valve and tubular graft. . . . .	18	1064.55	28
# R929	Debanding arterioplasty of pulmonary artery . . . . .	18	943.45	28
# R768	Pulmonary artery banding . . . . .	13	628.95	20
# R769	- with pressure studies by anaesthetist, extra/hour . . . . .		-	6
# R770	Correction of cor triatriatum . . . . .	18	864.40	20
# R771	Vascular ring . . . . .	18	755.80	20

# CARDIOVASCULAR SURGICAL PROCEDURES

## VALVES

	Asst	Surg	Anae
# R724 Pulmonary valvotomy . . . . .	18	663.10	28
# R725 Pulmonary valvotomy and infundibular resection. . . . .	18	758.80	28
# R772 Pulmonary valve replacement . . . . .	18	758.80	28
# R726 Tricuspid valvotomy . . . . .	18	778.25	20
# R727 Tricuspid annuloplasty . . . . .	18	662.55	20
# R728 Tricuspid valve replacement . . . . .	18	758.80	28
# R729 Mitral valvotomy . . . . .	18	717.25	20
# R730 Mitral valvotomy - restenosis . . . . .	18	798.80	20
# R734 Mitral annuloplasty . . . . .	18	770.70	20
# R735 Mitral replacement . . . . .	18	933.55	28
# R733 Mitral valvoplasty . . . . .	18	963.40	28

### Mitral valve reconstruction

# R773 - simple (includes annuloplasty) . . . . .	18	1618.50	28
# R774 - complex (includes annuloplasty and repair of both the anterior and posterior leaflets) . . . . .	18	2021.05	28
# R930 Aortic valvoplasty . . . . .	18	837.70	28
# R736 Aortic valvotomy . . . . .	18	707.85	20
# R737 Aortic infundibular resection (ventriculomyotomy) . . . . .	18	869.70	28
# R738 Aortic valve replacement . . . . .	18	1010.55	28
# E647 - patch aortoplasty with pericardium or graft, to R738 and/or aortic annuloplasty . . . . . add		264.70	
# E656 - aortic annuloplasty (reconstruction and enlargement of aortic annulus), to R738 and/or patch aortoplasty . . . add		288.85	
# R863 Replacement of aortic valve, replacement of ascending aorta, and reimplantation of coronary arteries (Modified Bentall) .	18	2021.05	28
# R876 Valve sparing aortic root replacement or remodelling . . . . .	18	2021.05	28

**Note:**

Multivalvular replacement - the fee will be that for the major valve replaced plus 85% of the fee for the additional valve or valves.

# CARDIOVASCULAR SURGICAL PROCEDURES

## ARTERIES

	Asst	Surg	Anae
<b>Cannulation for infusion chemotherapy</b>			
# R775 - superficial temporal artery . . . . .	6	95.80	6
# R776 - hepatic artery . . . . .	6	212.15	6
# R778 - carotid artery. . . . .	6	148.50	6
# R760 Regional isolation perfusion e.g. iliac. . . . .	10	410.45	10
# R764 Exploration of major artery. . . . .	6	271.60	10
<b>INCISION</b>			
# Z402 Arteriotomy . . . . .		117.30	6
<b>Note:</b> Z402 not allowed in addition to other major cardiovascular surgery.			
<b>REPAIR</b>			
<b>Traumatic</b>			
# R790 Suture of lacerated major artery . . . . .	6	316.85	10
# R795 Repair of lacerated major artery or microscopic repair of digital artery (including patch angioplasty) . . . . .	10	498.65	10
# R862 - by bypass or interposition graft. . . . .	10	662.15	10
<b>LIGATION</b>			
# R781 Ligation of artery - as sole procedure. . . . .	6	170.10	8
# R788 Internal maxillary artery - Caldwell Luc approach . . . . .	7	408.10	10
# R789 Anterior ethmoid artery . . . . .	6	299.85	6
# R708 Internal iliac artery (unilateral or bilateral) . . . . .	7	409.55	10

# CARDIOVASCULAR SURGICAL PROCEDURES

## ARTERIES

Asst | Surg | Anae

### EXCISION AND/OR REPAIR

1. Common femoral artery repair (e.g. R784, R785) includes repair to the profunda femoris artery as far as the first major branch.
  2. If the repair extends beyond the first major branch of the profunda femoris artery, R815 may be claimed in addition.
  3. If the repair extends beyond the second major branch of the profunda femoris artery, R856 instead of R815 may be claimed in addition.
  4. For procedures involving the application of a complete aortic cross clamp, the anaesthetic basic fee will depend on:
    - a. the level of application of the cross clamp;  
and
    - b. the surgical exposure and extent of the aortic repair.
- 
- |        |   |        |
|--------|---|--------|
| # E679 | - with vein graft harvest remote from site of by-pass and only when saphenous vein is unavailable . . . . . add | 124.10 |
| # E649 | - embolectomy and/or thrombectomy when done in conjunction with other vascular procedures . . . . . add         | 112.45 |

**Note:**

E649 is only eligible for payment under the following circumstances:

- a. when embolectomy and/or thrombectomy is rendered at a site other than the main operative site,  
or
- b. when embolectomy and/or thrombectomy is rendered at the main operative site and thrombus and/or embolus was present prior to surgery.

**[Commentary:**

E649 is not eligible for payment when rendered at the main operative site in any other circumstance other than 1(b)].

# CARDIOVASCULAR SURGICAL PROCEDURES

## ARTERIES

	Asst	Surg	Anae
# R875 Endovascular aneurysm repair using stent grafting . . . . .	10	1330.40	17

**Note:**

This service includes insertion of all catheters including access catheters, interpretation of any images which may be taken at the time of the procedures and all variations of a single stent graft.

**Abdominal surgical exposure**

# R880 - supraceliac aortic cross clamp . . . . .	-		20
# R881 - infraceliac aortic cross clamp . . . . .	-		17
# R882 Thoracic surgical exposure . . . . .	-		25
# R883 Thoraco-abdominal surgical exposure . . . . .	-		30
# R815 Arterioplasty with or without patch graft including microvascular anastomosis, arterial or venous (other than listed below) . .	10	527.75	10

**Carotid**

# R792 - endarterectomy . . . . .	10	764.55	10
# R796 - carotid body tumour . . . . .	10	769.85	10
# R798 - aneurysm - reconstruction or excision with graft . . . . .	10	820.70	10

**Aortic arch reconstruction**

# R830 - innominate . . . . .	10	867.35	10
# R831 - subclavian . . . . .	10	867.35	10
# R832 - vertebral . . . . .	10	867.35	10
# E659 - with thoracotomy . . . . . add	6	169.00	7
# E667 - ruptured . . . . . add		266.60	3

**Thoracic aorta aneurysm - repair or excision with graft**

# R799 - ascending . . . . .	10	1455.30	20
# R800 - arch . . . . .	10	1807.10	20
# R801 - descending with or without temporary shunt . . . . .	10	1260.30	20
# E667 - ruptured . . . . . add		266.60	3
# R803 Thoraco-abdominal aneurysm . . . . .	18	2444.50	30

**Note:**

If the services of a second anaesthetist are required, the second anaesthetist is also permitted to claim R803C.

**Abdominal aorta - repair or excision with graft (excluding endovascular aneurysm repair using stent graft)**

# R802 - aneurysm repair alone or including unilateral common femoral repair . . . . .	10	1297.10	17
# R817 - aneurysm repair and bilateral common femoral repair . . . . .	10	1408.70	17
# R877 - aneurysm with repair of iliac artery aneurysm (unilateral or bilateral) . . . . .	10	2002.75	17
# E626 - with implantation of inferior mesenteric artery, to R802, R817 or R877 . . . . . add		174.35	
# E627 - ruptured aneurysm to R802, R803, R817 or R877 . . add		400.00	3

# CARDIOVASCULAR SURGICAL PROCEDURES

## ARTERIES

Asst Surg Anae

### Mesenteric or celiac artery repair

# R811	- aneurysm . . . . .	10	410.85	10
# R935	- removal of band only . . . . .	10	410.85	10
# R936	- endarterectomy or graft . . . . .	10	954.10	10

**Note:**

Use R935 for excision of celiac ganglion.

# R940	Pulmonary thromboendarterectomy (PTE) - includes circulatory arrest with hypothermia . . . . .	18	2021.05	28
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### Aorto-iliac repair

# R783	- including common iliac repair (uni- or bilateral). . . . .	10	1012.00	17
# R784	- plus unilateral common femoral repair . . . . .	10	1187.15	17
# R785	- plus bilateral common femoral repair . . . . .	10	1314.25	17
# E626	- plus implantation of inferior mesenteric artery. . . . . add		174.35	
# R814	- embolectomy or thrombectomy of bifurcation (aorta or graft). . . . .	10	461.50	10
# R858	Total removal of infected aortic graft (stem and limbs)*. . . . .	10	918.35	17
# E664	- closure of duodenum. . . . . add		127.05	
# R859	Partial removal of infected aortic graft (one limb only)* . . . . .	10	344.00	10

**Note:**

\* Arterial reconstruction extra.

# R805	Renal artery - aneurysm - reconstruction or excision with graft .	10	867.35	10
# R806	Renal artery repair . . . . .	10	867.35	10
# R807	Splenic artery aneurysm - reconstruction or excision with graft.	10	411.05	10
# R786	Iliac repair to include internal iliac aneurysm . . . . .	10	805.65	10
# R937	Ilio-femoral bypass graft. . . . .	10	805.65	10

### Per-obturator ilio-femoral graft

# R860	- with saphenous vein. . . . .	10	898.55	10
# R861	- with prosthetic graft. . . . .	10	876.85	10

### Profundoplasty

# R855	Common femoral/profunda femoris repair - as sole procedure .	10	559.20	10
# R856	Extended profundoplasty. . . . .	10	779.80	10
# R933	Axillo-femoral, femoro-femoral or axillo-axillary graft. . . . .	10	656.55	10
# R934	Aorto-femoral unilateral graft (for bilateral see R785) . . . . .	10	867.35	17
# R808	Femoral aneurysm - reconstruction or excision with graft . . . . .	10	600.30	10
# R873	Thrombin injection of femoral artery pseudoaneurysm . . . . .		55.00	6

**Note:**

J202/J502 is payable when rendered in conjunction with R873.

# R864	Repair of false aneurysm at groin anastomosis. . . . .	10	893.20	10
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# CARDIOVASCULAR SURGICAL PROCEDURES

## ARTERIES

	Asst	Surg	Anae
# R809 Femoral-popliteal endarterectomy . . . . .	10	759.60	10
<b>Femoro-popliteal</b>			
# R791 - with saphenous vein . . . . .	10	857.35	10
# E672 - composite femoral popliteal/tibial bypass (vein PFPE, dacron) . . . . . add		133.40	
# R794 - with prosthetic graft . . . . .	10	733.15	10
<b>Femoro-anterior/posterial tibial/peroneal bypass graft</b>			
# R787 - with saphenous vein . . . . .	10	1006.75	10
# E672 - composite femoral popliteal/tibial bypass (vein PFPE, dacron) . . . . . add		133.40	
# R780 - with prosthetic graft . . . . .	10	878.00	10
<b>Note:</b> R791, E672, R794, R787, E672, R780 with or without endarterectomy.			
# R810 Popliteal aneurysm . . . . .	7	805.65	10
# R812 Peripheral arteries other than listed - aneurysm . . . . .	7	410.45	10
# R813 Embolectomy - artery or graft - as sole procedure. . . . .	7	490.00	10
# R867 Thrombectomy - artery or graft - as sole procedure. . . . .	7	490.00	10
# R866 Gastric devascularization - as sole procedure . . . . .	10	549.65	10
<b>In-situ saphenous vein arterial bypass</b>			
# R797 - popliteal . . . . .	10	1285.40	17
# R804 - tibial . . . . .	10	1490.25	17

# CARDIOVASCULAR SURGICAL PROCEDURES

## VEINS

Asst Surg Anae

### EXCISION

#### Resection of AV aneurysm or fistula with or without major graft

# R825	- major aneurysm . . . . .	10	975.50	17
# R826	- minor aneurysm . . . . .	10	497.25	10

### LIGATION

# Z745	Saphenous . . . . .		53.20	6
# Z746	Femoral . . . . .	6	74.25	6
# Z747	Popliteal . . . . .	6	74.25	6
# Z748	Internal jugular . . . . .	6	148.60	6
# R839	Internal iliac . . . . .	6	394.85	10
# R834	I.V.C. - transabdominal . . . . .	6	446.50	10
# R838	I.V.C. - transvenous (umbrella) . . . . .	6	303.00	10
# R868	High ligation and stripping of long saphenous vein with groin dissection . . . . .	6	148.60	6
# R869	Stripping of short saphenous vein with popliteal dissection . . . . .	6	107.50	6
# R837	Multiple ligation and avulsion . . . . .	6	148.60	6
# R844	Recurrent varicose veins - multiple ligation and/or stripping . . . . .	6	353.80	6
# R842	Extra fascial and sub-fascial incompetent perforators by full fascial technique . . . . .	6	384.75	6
# E653	- plus stripping . . . . . add		127.15	

# CARDIOVASCULAR SURGICAL PROCEDURES

## VEINS

Asst | Surg | Anae

### REPAIR

# R820	Lacerated major vein e.g. femoral, popliteal, vena cava, axillary, sub-clavian, brachial or microscopic repair of digital vein. . . . .	6	317.55	6
# R818	- including patch . . . . .	10	497.25	10
# R819	- by vein graft . . . . .	10	661.30	10
# R835	S.V.C. bypass graft . . . . .	7	758.40	17
# R836	Pulmonary embolectomy . . . . .	18	866.55	20
# R828	Ilio-femoral thrombectomy with or without femoral vein ligation. . . . .	10	446.50	10
# E657	- plus I.V.C. ligation . . . . . add		446.50	
# R829	Thrombectomy, other than above . . . . .	7	302.80	10
# R865	Distal spleno-renal shunt . . . . .	10	1259.55	10

### ANASTOMOSIS

# R822	Porto-caval . . . . .	10	919.10	10
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### Spleno-renal

# R823	- abdominal approach . . . . .	10	1117.90	10
# R821	- transthoracic approach . . . . .	10	1117.90	13
# R824	Meso-caval . . . . .	10	866.55	10
# R827	Creation of A.V. fistula . . . . .	6	440.00	6
# R841	Obliteration of A.V. fistula . . . . .		82.55	6
# R833	Ligation or removal of by-pass graft . . . . .		82.55	6