## **ONLINE SUPPLEMENTARY CONTENT**

**Table SI** - List of Structure Measures

Structure Components	St	ructure Drivers		Structure Measures
components			1	There is a PBM Workgroup (PBM WG) with a specific mandate to seek for PBM development
			2	The PBM WG is multiprofessional
			3	There is a PBM Champion/s recognized by the organization
			4	The PBM WG is officially authorized by hospital management
	F	PBM Workgroup	5	There is a decision-making process in place. PBM WG recommendations are applicable to the organization  The PBM WG adopts existing national and/or international guidelines and standards to set the local recommendations and clinical
			6	protocols
			7	The performance of the PBM WG is periodically assessed
			9	The PBM WG has dedicated time freed up The PBM WG has budget resource allocation
			10	There is a Preoperative anaemia management protocol in place, and it is in line with the national guidelines and standards
			11	The Preoperative anaemia management protocol is recent/updated
		Pillar 1.	12	The Preoperative anaemia management protocol is publicly recognized by the organization
	Optimising red cell mass	13	Required FTEs are allocated to support the execution of the protocol	
Organization			14	Required logistics and patient accessibility is granted to support the execution of the protocol  Required biomarkers and therapies are funded to support the execution of the protocol
& Governance			16	There is a Tranexamic protocol in place, and it is in line with the national guidelines and standards
			17	The Tranexamic protocol is recent/updated
			18	The Tranexamic protocol is publicly recognized by the organization
	Clinical		19 20	There is a autotransfusion (predonation) protocol for high bleeding procedures (Escoliosis, review hip replacement etc.)  The Autotransfusion protocol is recent/updated
	Protocols	Pillar 2.	21	Required logistics and patient accessibility is granted to support the execution of the Autotransfusion protocol
		Minimising blood loss and bleeding	22	There is an Intra-operative autotransfusion protocol (Cell saver)
			23	The Intra-operative autotransfusion protocol is recent/updated
			24	The Intra-operative protocol is publicly recognized by the organization
			26	There is a Post-operative autotransfusion protocol (Recuperadores de drenaje)  The Post-operative autotransfusion protocol is recent/updated
			27	The Post-operative autotransfusion protocol is publicly recognized by the organization
		Pillar 3.	28	There is a Transfusion thresholds protocol in place, and it is in line with the national guidelines and standards
		Optimising the physiological reserve of anaemia	29	The Transfusion thresholds protocol is recent/updated
		reserve of affaerilla	30	The Transfusion thresholds protocol is publicly recognized by the organization  Do you know if there is a PBM program in your hospital?
			32	Do you consider alternatives to avoid/minimize transfusion in your daily practice with your patients?
		6 : 111 - 11	33	Are you familiar with the preoperative anaemia management protocol of your hospital?
		professionals' knowledge bital internal survey)	34	Are you familiar with any blood loss minimization protocol of your hospital (i.e. us of antifibrinolytics)
	•		35 36	Are you familiar with the transfusion protocol (transfusion thresholds) of your hospital?  Do you consider any other factors than Hb levels for transfusion decision?
			37	Do you regularly receive (or have access to) useful information of your transfusion related clinical practice?
D			38	PBM learning courses and/or clinical sessions are regularly offered to specialists involved in transfusion risk Surgery processes
Professionals & Training			39	PBM learning courses and/or clinical sessions are regularly offered to specialists involved in transfusion risk Medical processes
	DRM oducatio	onal programs for clinicians	40	PBM learning courses and/or clinical sesions are offered to residents  PBM learning courses and/or clinical sesions are offered to nurses
	r Divi educati	onat programs for clinicians	42	PBM learning courses and/or clinical sesions are offered to GPs
			43	PBM learnings provide credits and certificates are issued
			44	There is a continuous learning system in place with an educational program, attendance registry and individual learning history record
	PRM educati	ional programs for patients	45	ID/IDA patients scheduled for surgery receive PBM information  Informational material is made available to patients and patients associations concerning alternatives to transfusion
	. om cuucdt	programs for patients	47	There is a PBM/ alternatives to transfusion information consent form
	DDM v-l-41	omputorized physician and	48	Patient transfusion history records are accessible in the patient clinical history
		omputerized physician order ry (CPOE) systems	49	CPOE includes a transfusion risk estimation model
		Surveillance and monitoring	50 51	CPOE supports clinical decision for prescribing transfusion and alternatives  Automates follow-up of the appropriateness of RBC orders vs recommendations and clinical protocols
		ca. ventance and monitoring	52	Transfusion rate
	[ ]		53	Transfusion index
		Patient-level KPIs (with	54	Use of single unit
		possibility to compare	55 56	Use of pharamcological agents (i.e. quantity and doses of i.v. iron, erythopoietic agents, factor concentrates etc.)  Use of cell salvage
		baseline)	57	Use of point of care (POC) coagulation testing
Information	Reporting		58	Haemoglobin concentration/haematocrit at hospital admission
Systems	capabilities		59	Haemoglobin /haematocrit at hospital discharge
		Activity Based consumptions	60	Transfusion related consumables and overhead PBM related consumables (pharmacological agents) and overhead
			62	In hospital mortality per clinical process, with the possibility to differentiate between transfused and non-transfused
			63	LOS per clinical process, with the possibility to differentiate between transfused and non-transfused
		Patient-level outcomes	64	Readmision per clinical process, with the possibility to differentiate between transfused and non-transfused
			65 66	Infections per clinical process, with the possibility to differentiate between transfused and non-transfused  MACE and cerebrovascular event per clinical process, with the possibility to differentiate between transfused and non-transfused
	Use of Informatio			Surveillance, monitoring and audit on adherence to protocols are periodically performed
				Consumptions, outcomes and KPIs are periodically assessed
	ose of miorinado		69	Results are made available to all involved professionals
			70	Incentives schemes are set vs defined objectives

**Table SII** - Definitions of Process and Outcomes KPIs

Dimension	Driver		КРІ	Numerator	Denominator	Clinical procedures in scope
		1	% of patients with a Hb determination 21-90 days before surgery (1)	Patients with a Hb determination between 21-90 days before surgery (1)	All patients	TKR, THR, CRC, CAV
	Pillar 1. Preoperative	2	% of patients with an iron metabolism determination 21-90 days before surgery (1)	Patients with a Ferritin determination 21-90 days before surgery (1)(2)	All patients	TKR, THR, CRC, CAV
		3	% of patients treated preoperatively 7-90 days before surgery	Patients who are anaemic and have an administration of intravenous iron (FeIV) and/or erythropoietin (EPO) between 90-7 days prior surgery (3)(4)	Anaemic patients between 90-7 days before surgery (4)	TKR, THR, CRC, CAV
	Anaemia management	4	% of patients with anaemia prior to surgery	Patients who are anaemic as per the last Hb determination between 90 days and 1 hour before surgery (4)	Patients with a Hb determination between 90 days and 1 hour before to surgery	TKR, THR, CRC, CAV
		5	% of patients treated with IV iron during hospital stay	Patients with a prescription of FeIV during hospital stay	All patients	TKR, THR, CRC, CAV, HIF, GIB
Process		6	% of patients with preoperative transfusion	Patients with a red blood cell transfusion between 21 days and 1 hour before surgery	All patients	TKR, THR, CRC, CAV
FIOCESS		7	% of patients under spinal anaesthesia	Patients with spinal anaesthesia	Patients with informed field	TKR, THR, HIF
	Pillar 2. Minimising blood loss and bleeding	8	% of patients treated with antifibrinolytics perioperatively	Patients with an administration of antifibrinolytics	Patients with informed field	TKR, THR, CRC, CAV
		9	% of patients with blood recovery systems perioperatively	Patients for whom blood recovery system was used	Patients with informed field	TKR, THR, CRC, CAV
		10	Hb level prior to transfusion	Sum of latest Hb value prior transfusion for patients transfused between 1 hour after surgery and discharge	Patients transfused between 1 hour after surgery and discharge and with a Hb determination 1 day prior transfusion	TKR, THR, CRC, CAV, HIF, GIB
	Pillar 3. Optimising the physiological reserve of anaemia	11	% of patients transfused with Hb >= 8 g/dl	Patients transfused between 1 hour after surgery and discharge and with latest Hb value prior transfusion >= 8 g/dl	Patients transfused between 1 hour after surgery and discharge and with a Hb determination 1 day prior transfusion	TKR, THR, CRC, CAV, HIF, GIB
		12	% of single-unit transfused patients	Single-unit transfusion events	Total of transfusion events between 1 day after surgery and discharge	TKR, THR, CRC, CAV, HIF, GIB
		1	Transfusion Rate	Patients with a red blood cell transfusion during hospital stay	All patients	TKR, THR, CRC, CAV, HIF, GIB
	Intermediate Outcomes	2	Transfusion Index	Total of red blood cell units transfused during hospital stay	Patients with a red blood cell transfusion during hospital stay	TKR, THR, CRC, CAV, HIF, GIB
		3	Total Transfusion Index	Total of red blood cell units transfused during hospital stay	All patients	TKR, THR, CRC, CAV, HIF, GIB
Outcomes	Hard Outcomes	4	In-hospital Mortality	Patients with exitus during hospital stay	All patients	TKR, THR, CRC, CAV, HIF, GIB
		5	Complications	Patients with a PBM-related complications	All patients	TKR, THR, CRC, CAV, HIF, GIB
		6	Lenght of stay	Sum of hospital stay days for all patients	All patients	TKR, THR, CRC, CAV, HIF, GIB
		7	30-day related Readmissions	Patients with unscheduled 30 days related readmission	All patients	TKR, THR, CRC, CAV, HIF, GIB

<sup>1)</sup> In colorectal cancer resection 14-45 days before surgery
2) Ferritin as the determination which is always used in combination with others to assess iron metabolism
3) Only hospital use treatments are considered
4) Definition of anaemic patient follows current WHO criteria: Hb <12 for women and 13 g/dL for men.
RC: colorectal cancer surgery, CAV: cardiac valve surgery; HIF: hip fracture; GIB: gastrointestinal bleeding; TKR: total knee replacement; THR: total hip replacement.

#### Table SIII - ICD10 Codes

#### **TOTAL KNEE REPLACEMENT (TKR) CODES**

Scheduled episodes (Circ. Admission = Scheduled) with knee replacement procedure. Episodes that also have a knee prosthesis removal procedure are excluded (since spare parts are excluded from the analysis).

## Knee replacement procedure codes

0SRC0.19 Replace of R Knee Jt with Synth Sub, Cement, Open Approach 0SRC0JA Replace of R Knee Jt with Synth Sub, Uncement, Open Approach OSRCO 17 Replacement of R Knee Jt with Synth Sub, Open Approach Replace of R Knee Jt with Med Unicnd, Cement, Open Approach 0SRC0L9 0SRC0LA Replace R Knee Jt w Med Unicnd, Uncement, Open 0SRC0LZ Replacement of R Knee Jt with Med Unicnd, Open Approach 0SRC07Z Replacement of R Knee Jt with Autol Sub, Open Approach Replacement of R Knee Jt with Nonaut Sub, Open Approach 0SRC0KZ 0SRD0J9 Replace of L Knee Jt with Synth Sub, Cement, Open Approach 0SRD0JA Replace of L Knee Jt with Synth Sub, Uncement, Open Approach 0SRD0JZ Replacement of Left Knee Joint with Synth Sub, Open Approach Replace of L Knee Jt with Med Unicnd, Cement, Open Approach 0SRD0L9 0SRD0LA Replace L Knee Jt w Med Unicnd, Uncement, Open 0SRD0LZ Replacement of L Knee Jt with Med Unicod, Open Approach 0SRD07Z Replacement of Left Knee Joint with Autol Sub. Open Approach 0SRD0KZ Replacement of L Knee Jt with Nonaut Sub, Open Approach 0SRT0J9 Replace R Knee Jt, Femoral w Synth Sub, Cement, Open 0SRT0JA Replace R Knee Jt, Femoral w Synth Sub, Uncement, Open 0SRT0JZ Replace of R Knee Jt, Femoral with Synth Sub, Open Approach 0SRT077 Replace of R Knee Jt, Femoral with Autol Sub, Open Approach Replace of R Knee Jt, Femoral with Nonaut Sub, Open Approach 0SRT0K7 0SRU0J9 Replace L Knee Jt, Femoral w Synth Sub, Cement, Open 0SRU0JA Replace L Knee Jt, Femoral w Synth Sub, Uncement, Open 0SRU0JZ Replace of L Knee Jt, Femoral with Synth Sub, Open Approach Replace of L Knee Jt. Femoral with Autol Sub. Open Approach 0SRU07Z 0SRU0K7 Replace of L Knee Jt, Femoral with Nonaut Sub, Open Approach 0SRV0J9 Replace R Knee Jt, Tibial w Synth Sub, Cement, Open 0SRV0JA Replace R Knee Jt, Tibial w Synth Sub, Uncement, Open Replace of R Knee Jt, Tibial with Synth Sub, Open Approach 0SRV0JZ 0SRV07Z Replace of R Knee Jt, Tibial with Autol Sub, Open Approach Replace of R Knee Jt, Tibial with Nonaut Sub, Open Approach 0SRV0KZ 0SRW0J9 Replace L Knee Jt, Tibial w Synth Sub, Cement, Open 0SRW0JA Replace L Knee Jt, Tibial w Synth Sub, Uncement, Open 0SRW0JZ Replace of L Knee Jt, Tibial with Synth Sub, Open Approach Replace of L Knee Jt, Tibial with Autol Sub, Open Approach 0SRW0KZ Replace of L Knee Jt, Tibial with Nonaut Sub, Open Approach

#### Knee replacement removal procedure codes

0SPC07Z Removal of Autol Sub from R Knee Jt, Open Approach 0SPC0JC Removal of Synth Sub from R Knee Jt, Patella, Open Approach 0SPC0JZ Removal of Synth Sub from R Knee Jt, Open Approach 0SPC0KZ Removal of Nonaut Sub from R Knee Jt, Open Approach 0SPC37Z Removal of Autol Sub from R Knee Jt, Perc Approach 0SPC3JC Removal of Synth Sub from R Knee Jt, Patella, Perc Approach 0SPC3JZ Removal of Synth Sub from R Knee Jt, Perc Approach 0SPC3KZ Removal of Nonaut Sub from R Knee Jt, Perc Approach 0SPC47Z Removal of Autol Sub from R Knee Jt, Perc Endo Approach 0SPC4JC Remove Synth Sub from R Knee Jt. Patella, Perc Endo 0SPC4.17 Removal of Synth Sub from R Knee Jt, Perc Endo Approach 0SPC4K7 Removal of Nonaut Sub from R Knee Jt, Perc Endo Approach 0SPD07Z Removal of Autol Sub from L Knee Jt, Open Approach 0SPD0JC Removal of Synth Sub from L Knee Jt, Patella, Open Approach 0SPD0JZ Removal of Synth Sub from L Knee Jt, Open Approach 0SPD0K7 Removal of Nonaut Sub from L Knee Jt, Open Approach Removal of Autol Sub from L Knee Jt, Perc Approach 0SPD377 0SPD3JC Removal of Synth Sub from L Knee Jt, Patella, Perc Approach 0SPD3JZ Removal of Synth Sub from L Knee Jt, Perc Approach 0SPD3KZ Removal of Nonaut Sub from L Knee Jt, Perc Approach 0SPD47Z Removal of Autol Sub from L Knee Jt. Perc Endo Approach 0SPD4.IC Remove Synth Sub from I. Knee It. Patella, Perc Endo 0SPD4JZ Removal of Synth Sub from L Knee Jt, Perc Endo Approach 0SPD4KZ Removal of Nonaut Sub from L Knee Jt, Perc Endo Approach Removal of Synth Sub from R Knee Jt, Femoral, Open Approach 0SPT0JZ 0SPT3JZ Removal of Synth Sub from R Knee Jt, Femoral, Perc Approach 0SPT4JZ Remove Synth Sub from R Knee Jt, Femoral, Perc Endo

0SPU0JZ	Removal of Synth Sub from L Knee Jt, Femoral, Open Approach
0SPU3JZ	Removal of Synth Sub from L Knee Jt, Femoral, Perc Approach
0SPU4JZ	Remove Synth Sub from L Knee Jt, Femoral, Perc Endo
0SPV0JZ	Removal of Synth Sub from R Knee Jt, Tibial, Open Approach
0SPV3JZ	Removal of Synth Sub from R Knee Jt, Tibial, Perc Approach
0SPV4JZ	Remove Synth Sub from R Knee Jt, Tibial, Perc Endo
0SPW0JZ	Removal of Synth Sub from L Knee Jt, Tibial, Open Approach
0SPW3JZ	Removal of Synth Sub from L Knee Jt, Tibial, Perc Approach
0SPW4JZ	Remove Synth Sub from L Knee Jt, Tibial, Perc Endo

#### TOTAL HIP REPLACEMENT (THR) CODES

Scheduled episodes (Circ. Admission = Scheduled) with hip replacement procedure. Episodes that also have hip fracture as primary diagnostic and/or hip prosthesis removal procedure are excluded (since spare parts are excluded from the analysis).

#### Hip replacement procedure codes

нір геріасе	
0SR9019	Replacement of R Hip Jt with Metal, Cement, Open Approach
0SR901A	Replacement of R Hip Jt with Metal, Uncement, Open Approach
0SR901Z	Replacement of Right Hip Joint with Metal, Open Approach
0SR9029	Replace R Hip Jt w Metal on Poly, Cement, Open
0SR902A	Replace R Hip Jt w Metal on Poly, Uncement, Open
0SR902Z	Replacement of R Hip Jt with Metal on Poly, Open Approach
0SR9039	Replacement of R Hip Jt with Ceramic, Cement, Open Approach
0SR903A	Replace of R Hip Jt with Ceramic, Uncement, Open Approach
0SR903Z	Replacement of Right Hip Joint with Ceramic, Open Approach
0SR9049	Replace R Hip Jt w Ceramic on Poly, Cement, Open
0SR904A	Replace R Hip Jt w Ceramic on Poly, Uncement, Open
0SR904Z	Replacement of R Hip Jt with Ceramic on Poly, Open Approach
0SR90J9	Replace of R Hip Jt with Synth Sub, Cement, Open Approach
0SR90JA	Replace of R Hip Jt with Synth Sub, Uncement, Open Approach
0SR90JZ	Replacement of Right Hip Joint with Synth Sub, Open Approach
0SR907Z	Replacement of Right Hip Joint with Autol Sub, Open Approach
0SR90KZ	Replacement of R Hip Jt with Nonaut Sub, Open Approach
0SRB019	Replacement of L Hip Jt with Metal, Cement, Open Approach
0SRB01A	Replacement of L Hip Jt with Metal, Uncement, Open Approach
0SRB01Z	Replacement of Left Hip Joint with Metal, Open Approach
0SRB029	Replace L Hip Jt w Metal on Poly, Cement, Open
0SRB02A	Replace L Hip Jt w Metal on Poly, Uncement, Open
0SRB02Z	Replacement of L Hip Jt with Metal on Poly, Open Approach
0SRB039	Replacement of L Hip Jt with Ceramic, Cement, Open Approach
0SRB03A	Replace of L Hip Jt with Ceramic, Uncement, Open Approach
0SRB03Z	Replacement of Left Hip Joint with Ceramic, Open Approach
0SRB049	Replace L Hip Jt w Ceramic on Poly, Cement, Open
0SRB04A	Replace L Hip Jt w Ceramic on Poly, Uncement, Open
0SRB04Z	Replacement of L Hip Jt with Ceramic on Poly, Open Approach
0SRB0J9	Replace of L Hip Jt with Synth Sub, Cement, Open Approach
0SRB0JA	Replace of L Hip Jt with Synth Sub, Uncement, Open Approach
0SRB0JZ	Replacement of Left Hip Joint with Synth Sub, Open Approach
0SRB07Z	Replacement of Left Hip Joint with Autol Sub, Open Approach
0SRB0KZ	Replacement of Left Hip Joint with Nonaut Sub, Open Approach
0SRR019	Replace R Hip Jt, Femoral w Metal, Cement, Open
0SRR01A	Replace R Hip Jt, Femoral w Metal, Uncement, Open
0SRR01Z	Replacement of R Hip Jt, Femoral with Metal, Open Approach
0SRR039	Replace R Hip Jt, Femoral w Ceramic, Cement, Open
0SRR03A	Replace R Hip Jt, Femoral w Ceramic, Uncement, Open
0SRR03Z	Replacement of R Hip Jt, Femoral with Ceramic, Open Approach
0SRR0J9	Replace R Hip Jt, Femoral w Synth Sub, Cement, Open
0SRR0JA	Replace R Hip Jt, Femoral w Synth Sub, Uncement, Open
0SRR0JZ	Replace of R Hip Jt, Femoral with Synth Sub, Open Approach
0SRS019	Replace L Hip Jt, Femoral w Metal, Cement, Open
0SRS01A	Replace L Hip Jt, Femoral w Metal, Uncement, Open
0SRS01Z	Replacement of L Hip Jt, Femoral with Metal, Open Approach
0SRS039	Replace L Hip Jt, Femoral w Ceramic, Cement, Open
0SRS03A	Replace L Hip Jt, Femoral w Ceramic, Uncement, Open
0SRS03Z	Replacement of L Hip Jt, Femoral with Ceramic, Open Approach
OSRSOJ9	Replace L Hip Jt, Femoral w Synth Sub, Cement, Open
OSRSOJA	Replace L Hip Jt, Femoral w Synth Sub, Uncement, Open
0SRS0JZ	Replace of L Hip Jt, Femoral with Synth Sub, Open Approach
0SRA009	Replace R Hip Jt, Acetab w Polyeth, Cement, Open
OSRAOOA	Replace R Hip Jt, Acetab w Polyeth, Uncement, Open
OSRA00Z	Replacement of R Hip Jt, Acetab with Polyeth, Open Approach
0SRA019	Replace R Hip Jt, Acetab w Metal, Cement, Open

0SRA01A	Replace R Hip Jt, Acetab w Metal, Uncement, Open
0SRA01Z	Replacement of R Hip Jt, Acetab with Metal, Open Approach
0SRA039	Replace R Hip Jt, Acetab w Ceramic, Cement, Open
0SRA03A	Replace R Hip Jt, Acetab w Ceramic, Uncement, Open
0SRA03Z	Replacement of R Hip Jt, Acetab with Ceramic, Open Approach
0SRA0J9	Replace R Hip Jt, Acetab w Synth Sub, Cement, Open
0SRA0JA	Replace R Hip Jt, Acetab w Synth Sub, Uncement, Open
0SRA0JZ	Replace of R Hip Jt, Acetab with Synth Sub, Open Approach
0SRA07Z	Replace of R Hip Jt, Acetab with Autol Sub, Open Approach
0SRA0KZ	Replace of R Hip Jt, Acetab with Nonaut Sub, Open Approach
0SRE009	Replace L Hip Jt, Acetab w Polyeth, Cement, Open
0SRE00A	Replace L Hip Jt, Acetab w Polyeth, Uncement, Open
0SRE00Z	Replacement of L Hip Jt, Acetab with Polyeth, Open Approach
0SRE019	Replace L Hip Jt, Acetab w Metal, Cement, Open
0SRE01A	Replace L Hip Jt, Acetab w Metal, Uncement, Open
0SRE01Z	Replacement of L Hip Jt, Acetab with Metal, Open Approach
0SRE039	Replace L Hip Jt, Acetab w Ceramic, Cement, Open
0SRE03A	Replace L Hip Jt, Acetab w Ceramic, Uncement, Open
0SRE03Z	Replacement of L Hip Jt, Acetab with Ceramic, Open Approach
0SRE0J9	Replace L Hip Jt, Acetab w Synth Sub, Cement, Open
0SRE0JA	Replace L Hip Jt, Acetab w Synth Sub, Uncement, Open
0SRE0JZ	Replace of L Hip Jt, Acetab with Synth Sub, Open Approach
0SRE07Z	Replace of L Hip Jt, Acetab with Autol Sub, Open Approach
0SRE0KZ	Replace of L Hip Jt, Acetab with Nonaut Sub, Open Approach

## Femur fracture diagnosis codes

Femur frac	ture diagnosis codes
S72.001A	Fracture of unsp part of neck of right femur, init
S72.001B	Fx unsp part of neck of r femur, init for opn fx type I/2
S72.001C	Fx unsp part of neck of r femur, init for opn fx type 3A/B/C
S72.002A	Fracture of unsp part of neck of left femur, init
S72.002B	Fx unsp part of neck of left femur, init for opn fx type I/2
S72.002C	Fx unsp part of neck of I femur, init for opn fx type 3A/B/C
S72.009A	Fracture of unsp part of neck of unsp femur, init
S72.009B	Fx unsp part of neck of unsp femur, init for opn fx type I/2
S72.009C	Fx unsp part of nk of unsp femr, init for opn fx type 3A/B/C
S72.011A	Unsp intracapsular fracture of right femur, init for clos fx
S72.011B	Unsp intracap fx right femur, init for opn fx type I/2
S72.011C	Unsp intracap fx right femur, init for opn fx type 3A/B/C
S72.012A	Unsp intracapsular fracture of left femur, init for clos fx
S72.012B	Unsp intracap fx left femur, init for opn fx type I/2
S72.012C	Unsp intracap fx left femur, init for opn fx type 3A/B/C
S72.019A	Unsp intracapsular fracture of unsp femur, init for clos fx
S72.019B	Unsp intracap fx unsp femur, init for opn fx type I/2
S72.019C	Unsp intracap fx unsp femur, init for opn fx type 3A/B/C
S72.021A	Disp fx of epiphysis (separation) (upper) of r femur, init
S72.021B	Disp fx of epiphy (separation) (upper) of r femr, 7thB
S72.021C	Disp fx of epiphy (separation) (upper) of r femr, 7thC
S72.022A	Disp fx of epiphysis (separation) (upper) of l femur, init
S72.022B	Disp fx of epiphy (separation) (upper) of I femr, 7thB
S72.022C	Disp fx of epiphy (separation) (upper) of I femr, 7thC
S72.023A	Disp fx of epiphy (separation) (upper) of unsp femur, init
S72.023B	Disp fx of epiphy (separation) (upper) of unsp femr, 7thB
S72.023C	Disp fx of epiphy (separation) (upper) of unsp femr, 7thC
S72.024A	Nondisp fx of epiphy (separation) (upper) of r femur, init
S72.024B	Nondisp fx of epiphy (separation) (upper) of r femr, 7thB
S72.024C	Nondisp fx of epiphy (separation) (upper) of r femr, 7thC
S72.025A	Nondisp fx of epiphy (separation) (upper) of I femur, init
S72.025B	Nondisp fx of epiphy (separation) (upper) of I femr, 7thB
S72.025C	Nondisp fx of epiphy (separation) (upper) of I femr, 7thC
S72.026A	Nondisp fx of epiphy (separation) (upper) of unsp femr, init
S72.026B	Nondisp fx of epiphy (separation) (upper) of unsp femr, 7thB
S72.026C	Nondisp fx of epiphy (separation) (upper) of unsp femr, 7thC
S72.031A	Displaced midcervical fracture of right femur, init
S72.031B	Displaced midcervical fx r femur, init for opn fx type I/2
S72.031C	Displ midcervical fx r femur, init for opn fx type 3A/B/C
S72.032A	Displaced midcervical fracture of left femur, init
S72.032B	Displaced midcervical fx l femur, init for opn fx type I/2
S72.032C	Displ midcervical fx l femur, init for opn fx type 3A/B/C
S72.033A	Displaced midcervical fracture of unsp femur, init
S72.033B	Displ midcervical fx unsp femur, init for opn fx type I/2
S72.033C	Displ midcervical fx unsp femur, init for opn fx type 3A/B/C
S72.034A	Nondisplaced midcervical fracture of right femur, init
S72.034B	Nondisp midcervical fx right femur, init for opn fx type I/2
S72.034C	Nondisp midcervical fx r femur, init for opn fx type 3A/B/C
S72.035A	Nondisplaced midcervical fracture of left femur, init

	S72.036B	Nondisp midcervical fx unsp femur, init for opn fx type I/2
ach	S72.036C	Nondisp midcervical fx unsp femr, 7thC
	S72.041A	Disp fx of base of neck of right femur, init for clos fx
	S72.041B	Disp fx of base of neck of r femur, init for opn fx type I/2
	S72.041C	Disp fx of base of nk of r femr, init for opn fx type 3A/B/C
	S72.042A	Disp fx of base of neck of left femur, init for clos fx
ch	S72.042B	Disp fx of base of neck of I femur, init for opn fx type I/2
	S72.042C	Disp fx of base of nk of I femr, init for opn fx type 3A/B/C
	S72.043A	Disp fx of base of neck of unsp femur, init for clos fx
ich	S72.043B	Disp fx of base of nk of unsp femr, init for opn fx type I/2
	S72.043C	Disp fx of base of nk of unsp femr, 7thC
	S72.044A	Nondisp fx of base of neck of right femur, init for clos fx
1	S72.044B	Nondisp fx of base of nk of r femr, init for opn fx type I/2
	S72.044C	Nondisp fx of base of nk of r femr, 7thC
	S72.045A	Nondisp fx of base of neck of left femur, init for clos fx
ach	S72.045B	Nondisp fx of base of nk of l femr, init for opn fx type I/2
	S72.045C	Nondisp fx of base of nk of l femr, 7thC
	S72.046A	Nondisp fx of base of neck of unsp femur, init for clos fx
	S72.046B	Nondisp fx of base of nk of unsp femr, 7thB
	S72.046C	Nondisp fx of base of nk of unsp femr, 7thC
:h	S72.051A	Unsp fracture of head of right femur, init for clos fx
	S72.051B	Unsp fx head of right femur, init for opn fx type I/2
	S72.051C	Unsp fx head of right femur, init for opn fx type 3A/B/C
	S72.052A	Unsp fracture of head of left femur, init for clos fx
	S72.052B	Unsp fx head of left femur, init for opn fx type I/2
	S72.052C	Unsp fx head of left femur, init for opn fx type 3A/B/C
	S72.059A	Unsp fracture of head of unsp femur, init for clos fx
	S72.059B	Unsp fx head of unsp femur, init for opn fx type I/2
	S72.059C	Unsp fx head of unsp femur, init for opn fx type 3A/B/C
	S72.061A	Displaced articular fracture of head of right femur, init
	S72.061B	Displaced artic fx head of r femur, init for opn fx type I/2
	S72.061C	Displ artic fx head of r femur, init for opn fx type 3A/B/C
	S72.062A	Displaced articular fracture of head of left femur, init
	S72.062B	Displaced artic fx head of l femur, init for opn fx type I/2
	S72.062C	Displ artic fx head of l femur, init for opn fx type 3A/B/C
	S72.063A	Displaced articular fracture of head of unsp femur, init
	S72.063B	Displ artic fx head of unsp femur, init for opn fx type I/2
	S72.063C	Displ artic fx head of unsp femr, 7thC
	S72.064A	Nondisplaced articular fracture of head of right femur, init
	S72.064B	Nondisp artic fx head of r femur, init for opn fx type I/2
	S72.064C	Nondisp artic fx head of r femr, init for opn fx type 3A/B/C
	S72.065A	Nondisplaced articular fracture of head of left femur, init
	S72.065B	Nondisp artic fx head of l femur, init for opn fx type I/2
	S72.065C	Nondisp artic fx head of l femr, init for opn fx type 3A/B/C
	S72.066A	Nondisplaced articular fracture of head of unsp femur, init
	S72.066B	Nondisp artic fx head of unsp femr, init for opn fx type I/2
	S72.066C	Nondisp artic fx head of unsp femr, 7thC
	S72.001A	Oth fracture of head and neck of right femur, init
	S72.091B	Oth fx head/neck of right femur, init for opn fx type I/2
	S72.091C	Oth fx head/neck of right femur, init for opn fx type 1/2
	S72.091C	Oth fracture of head and neck of left femur, init
	S72.092B	Oth fx head/neck of left femur, init for opn fx type I/2
		Oth fx head/neck of left femur, init for opn fx type 3A/B/C
	S72 092C	
	S72.092C S72.099A	
	S72.099A	Oth fracture of head and neck of unsp femur, init
	S72.099A S72.099B	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type I/2
	S72.099A S72.099B S72.099C	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type I/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C
R	\$72.099A \$72.099B \$72.099C \$72.101A	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type I/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of right femur, init for clos fx
В	\$72.099A \$72.099B \$72.099C \$72.101A \$72.101B	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type I/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of right femur, init for clos fx Unsp trochan fx right femur, init for opn fx type I/2
B C	\$72.099A \$72.099B \$72.099C \$72.101A \$72.101B \$72.101C	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type I/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of right femur, init for clos fx Unsp trochan fx right femur, init for opn fx type I/2 Unsp trochan fx right femur, init for opn fx type 3A/B/C
	\$72.099A \$72.099B \$72.099C \$72.101A \$72.101B \$72.101C \$72.102A	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type I/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of right femur, init for clos fx Unsp trochan fx right femur, init for opn fx type I/2 Unsp trochan fx right femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of left femur, init for clos fx
	\$72.099A \$72.099B \$72.099C \$72.101A \$72.101B \$72.101C \$72.102A \$72.102B	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type I/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of right femur, init for clos fx Unsp trochan fx right femur, init for opn fx type I/2 Unsp trochan fx right femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of left femur, init for clos fx Unsp trochan fx left femur, init for opn fx type I/2
	\$72.099A \$72.099B \$72.099C \$72.101A \$72.101B \$72.101C \$72.102A \$72.102B \$72.102C	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type I/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of right femur, init for clos fx Unsp trochan fx right femur, init for opn fx type I/2 Unsp trochanteric fracture of left femur, init for clos fx Unsp trochan fx left femur, init for opn fx type I/2 Unsp trochan fx left femur, init for opn fx type I/2 Unsp trochan fx left femur, init for opn fx type I/2
	\$72.099A \$72.099B \$72.099C \$72.101A \$72.101B \$72.101C \$72.102A \$72.102B \$72.102C \$72.109A	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type I/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of right femur, init for clos fx Unsp trochan fx right femur, init for opn fx type I/2 Unsp trochan fx right femur, init for opn fx type 3A/B/C Unsp trochan fx left femur, init for opn fx type I/2 Unsp trochan fx left femur, init for opn fx type I/2 Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of unsp femur, init for clos fx
	\$72.099A \$72.099B \$72.099C \$72.101A \$72.101B \$72.101C \$72.102A \$72.102B \$72.102C \$72.109A \$72.109B	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type I/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of right femur, init for clos fx Unsp trochan fx right femur, init for opn fx type I/2 Unsp trochan fx right femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of left femur, init for clos fx Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochanfx left femur, init for opn fx type I/2 Unsp trochanfx unsp femur, init for opn fx type I/2
	\$72.099A \$72.099B \$72.099C \$72.101A \$72.101B \$72.101C \$72.102B \$72.102B \$72.102C \$72.109A \$72.109B \$72.109C	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type I/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of right femur, init for clos fx Unsp trochan fx right femur, init for opn fx type I/2 Unsp trochan fx right femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of left femur, init for clos fx Unsp trochan fx left femur, init for opn fx type I/2 Unsp trochanfx left femur, init for opn fx type I/2 Unsp trochanfx ulsp femur, init for opn fx type I/2 Unsp trochanfx unsp femur, init for opn fx type I/2 Unsp trochan fx unsp femur, init for opn fx type I/2 Unsp trochan fx unsp femur, init for opn fx type I/2
	\$72.099A \$72.099B \$72.099C \$72.101A \$72.101B \$72.101C \$72.102A \$72.102A \$72.102C \$72.102C \$72.109A \$72.109B \$72.109C \$72.111A	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type I/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of right femur, init for clos fx Unsp trochan fx right femur, init for opn fx type I/2 Unsp trochan fx right femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of left femur, init for clos fx Unsp trochan fx left femur, init for opn fx type I/2 Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochan fx unsp femur, init for opn fx type I/2 Unsp trochan fx unsp femur, init for opn fx type I/2 Unsp trochan fx unsp femur, init for opn fx type 3A/B/C Disp fx of greater trochanter of right femur, init
	\$72.099A \$72.099B \$72.099C \$72.101A \$72.101B \$72.101C \$72.102A \$72.102B \$72.102C \$72.109A \$72.109B \$72.109C \$72.111B	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type I/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of right femur, init for clos fx Unsp trochan fx right femur, init for opn fx type I/2 Unsp trochan fx right femur, init for opn fx type 3A/B/C Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochan fx left femur, init for opn fx type I/2 Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochan fx unsp femur, init for opn fx type I/2 Unsp trochan fx unsp femur, init for opn fx type I/2 Unsp trochan fx unsp femur, init for opn fx type 3A/B/C Disp fx of greater trochanter of right femur, init Disp fx of greater trochanter of r femr, 7thB
	\$72.099A \$72.099B \$72.099C \$72.101A \$72.101B \$72.101C \$72.102A \$72.102B \$72.102C \$72.109A \$72.109B \$72.109C \$72.1111A \$72.111B	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type I/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of right femur, init for clos fx Unsp trochan fx right femur, init for opn fx type I/2 Unsp trochan fx right femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of left femur, init for clos fx Unsp trochan fx left femur, init for opn fx type I/2 Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochan fx unsp femur, init for opn fx type 3A/B/C Unsp trochan fx unsp femur, init for opn fx type 3A/B/C Unsp trochan fx unsp femur, init for opn fx type 3A/B/C Disp fx of greater trochanter of right femur, init Disp fx of greater trochanter of r femr, 7thB Disp fx of greater trochanter of r femr, 7thC
	\$72.099A \$72.099B \$72.099C \$72.101A \$72.101B \$72.101C \$72.102A \$72.102A \$72.102C \$72.109A \$72.109B \$72.109C \$72.111A \$72.111B \$72.111C \$72.1112A	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type I/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of right femur, init for clos fx Unsp trochan fx right femur, init for opn fx type I/2 Unsp trochan fx right femur, init for opn fx type 3A/B/C Unsp trochan fx left femur, init for opn fx type 1/2 Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochan fx unsp femur, init for opn fx type 3A/B/C Unsp trochan fx unsp femur, init for opn fx type 3A/B/C Unsp trochan fx unsp femur, init for opn fx type 3A/B/C Disp fx of greater trochanter of right femur, init Disp fx of greater trochanter of r femr, 7th Disp fx of greater trochanter of r femr, 7th Disp fx of greater trochanter of left femur, init
	\$72.099A \$72.099B \$72.099C \$72.101A \$72.101B \$72.102A \$72.102A \$72.102A \$72.109A \$72.109A \$72.109A \$72.111B \$72.111B \$72.111B \$72.111C \$72.111A \$72.111B	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type 1/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of right femur, init for clos fx Unsp trochan fx right femur, init for opn fx type 1/2 Unsp trochan fx right femur, init for opn fx type 1/2 Unsp trochan fx left femur, init for opn fx type 1/2 Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochan fx unsp femur, init for opn fx type 1/2 Unsp trochan fx unsp femur, init for opn fx type 1/2 Unsp trochan fx unsp femur, init for opn fx type 3A/B/C Disp fx of greater trochanter of right femur, init Disp fx of greater trochanter of r femr, 7thB Disp fx of greater trochanter of r femr, 7thC Disp fx of greater trochanter of left femur, init Disp fx of greater trochanter of left femur, init
	\$72.099A \$72.099B \$72.099C \$72.101A \$72.101B \$72.101C \$72.102A \$72.102B \$72.102A \$72.109A \$72.109C \$72.109C \$72.111A \$72.111B \$72.111C \$72.1112A \$72.112A	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type I/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of right femur, init for clos fx Unsp trochan fx right femur, init for opn fx type I/2 Unsp trochan fx right femur, init for opn fx type 3A/B/C Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochan fx left femur, init for opn fx type I/2 Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochan fx unsp femur, init for opn fx type I/2 Unsp trochan fx unsp femur, init for opn fx type I/2 Unsp trochan fx unsp femur, init for opn fx type 3A/B/C Disp fx of greater trochanter of right femur, init Disp fx of greater trochanter of r femr, 7thC Disp fx of greater trochanter of left femur, init Disp fx of greater trochanter of left femur, init Disp fx of greater trochanter of left femur, init Disp fx of greater trochanter of left femur, TthB Disp fx of greater trochanter of left femur, TthB Disp fx of greater trochanter of leftenr, 7thB
	\$72.099A \$72.099B \$72.099C \$72.101A \$72.101B \$72.102A \$72.102A \$72.102A \$72.109A \$72.109A \$72.109A \$72.111B \$72.111B \$72.111B \$72.111C \$72.111A \$72.111B	Oth fracture of head and neck of unsp femur, init Oth fx head/neck of unsp femur, init for opn fx type 1/2 Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C Unsp trochanteric fracture of right femur, init for clos fx Unsp trochan fx right femur, init for opn fx type 1/2 Unsp trochan fx right femur, init for opn fx type 1/2 Unsp trochan fx left femur, init for opn fx type 1/2 Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochan fx left femur, init for opn fx type 3A/B/C Unsp trochan fx unsp femur, init for opn fx type 1/2 Unsp trochan fx unsp femur, init for opn fx type 1/2 Unsp trochan fx unsp femur, init for opn fx type 3A/B/C Disp fx of greater trochanter of right femur, init Disp fx of greater trochanter of r femr, 7thB Disp fx of greater trochanter of r femr, 7thC Disp fx of greater trochanter of left femur, init Disp fx of greater trochanter of left femur, init

S72.035B Nondisp midcervical fx left femur, init for opn fx type I/2
 S72.035C Nondisp midcervical fx l femur, init for opn fx type 3A/B/C
 S72.036A Nondisplaced midcervical fracture of unsp femur, init
 S72.036B Nondisp midcervical fx unsp femur, init for opn fx type I/2

S72.113B	Disp fx of greater trochanter of unsp femr, 7thB
S72.113C	Disp fx of greater trochanter of unsp femr, 7thC
S72.113C	Nondisp fx of greater trochanter of right femur, init
S72.114A	Nondisp fx of greater trochanter of right femal, find
S72.114C	Nondisp fx of greater trochanter of r femr, 7thC
S72.115A	Nondisp fx of greater trochanter of left femur, init
S72.115B	Nondisp fx of greater trochanter of I femr, 7thB
S72.115C	Nondisp fx of greater trochanter of I femr, 7thC
S72.116A	Nondisp fx of greater trochanter of unsp femur, init
S72.116B	Nondisp fx of greater trochanter of unsp femr, 7thB
S72.116C	Nondisp fx of greater trochanter of unsp femr, 7thC
S72.121A	Disp fx of lesser trochanter of right femur, init
S72.121B	Disp fx of less trochanter of r femr, 7thB
S72.121C	Disp fx of less trochanter of r femr, 7thC
S72.122A	Disp fx of lesser trochanter of left femur, init for clos fx
S72.122B	Disp fx of less trochanter of I femr, 7thB
S72.122C	Disp fx of less trochanter of l femr, 7thC
S72.123A	Disp fx of lesser trochanter of unsp femur, init for clos fx
S72.123B	Disp fx of less trochanter of unsp femr, 7thB
S72.123C	Disp fx of less trochanter of unsp femr, 7thC
S72.123C	Nondisp fx of lesser trochanter of right femur, init
S72.124A	Nondisp fx of less trochanter of right femal, find
S72.1246	Nondisp fx of less trochanter of r femr, 7thC
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S72.125A	Nondisp fx of lesser trochanter of left femur, init
S72.125B	Nondisp fx of less trochanter of l femr, 7thB
S72.125C	Nondisp fx of less trochanter of l femr, 7thC
S72.126A	Nondisp fx of lesser trochanter of unsp femur, init
S72.126B	Nondisp fx of less trochanter of unsp femr, 7thB
S72.126C	Nondisp fx of less trochanter of unsp femr, 7thC
S72.131A	Displaced apophyseal fracture of right femur, init
S72.131B	Displaced apophyseal fx r femur, init for opn fx type I/2
S72.131C	Displaced apophyseal fx r femur, init for opn fx type 3A/B/C
S72.132A	Displaced apophyseal fracture of left femur, init
S72.132B	Displaced apophyseal fx left femur, init for opn fx type I/2
S72.132C	Displaced apophyseal fx I femur, init for opn fx type 3A/B/C
S72.133A	Displaced apophyseal fracture of unsp femur, init
S72.133B	Displaced apophyseal fx unsp femur, init for opn fx type I/2
S72.133C	Displ apophyseal fx unsp femur, init for opn fx type 3A/B/C
S72.134A	Nondisplaced apophyseal fracture of right femur, init
S72.134B	Nondisp apophyseal fx right femur, init for opn fx type I/2
S72.134C	Nondisp apophyseal fx r femur, init for opn fx type 3A/B/C
S72.135A	Nondisplaced apophyseal fracture of left femur, init
S72.135B	Nondisp apophyseal fx left femur, init for opn fx type I/2
S72.135C	Nondisp apophyseal fx l femur, init for opn fx type 3A/B/C
S72.136A	Nondisplaced apophyseal fracture of unsp femur, init
S72.136B	
S72.136C	
S72.136C S72.141A	Nondisp apophyseal fx unsp femur, init for opn fx type I/2
	Nondisp apophyseal fx unsp femr, init for opn fx type 3A/B/C
	Nondisp apophyseal fx unsp femr, init for opn fx type 3A/B/C Displaced intertrochanteric fracture of right femur, init
S72.141B	Nondisp apophyseal fx unsp femr, init for opn fx type 3A/B/C Displaced intertrochanteric fracture of right femur, init Displaced intertroch fx r femur, init for opn fx type I/2
S72.141B S72.141C	Nondisp apophyseal fx unsp femr, init for opn fx type 3A/B/C Displaced intertrochanteric fracture of right femur, init Displaced intertroch fx r femur, init for opn fx type I/2 Displaced intertroch fx r femur, init for opn fx type 3A/B/C
\$72.141B \$72.141C \$72.142A	Nondisp apophyseal fx unsp femr, init for opn fx type 3A/B/C Displaced intertrochanteric fracture of right femur, init Displaced intertroch fx r femur, init for opn fx type I/2 Displaced intertroch fx r femur, init for opn fx type 3A/B/C Displaced intertrochanteric fracture of left femur, init
\$72.141B \$72.141C \$72.142A \$72.142B	Nondisp apophyseal fx unsp femr, init for opn fx type 3A/B/C Displaced intertrochanteric fracture of right femur, init Displaced intertroch fx r femur, init for opn fx type I/2 Displaced intertroch fx r femur, init for opn fx type 3A/B/C Displaced intertrochanteric fracture of left femur, init Displaced intertroch fx left femur, init for opn fx type I/2
\$72.141B \$72.141C \$72.142A \$72.142B \$72.142C	Nondisp apophyseal fx unsp femr, init for opn fx type 3A/B/C Displaced intertrochanteric fracture of right femur, init Displaced intertroch fx r femur, init for opn fx type 1/2 Displaced intertroch fx r femur, init for opn fx type 3A/B/C Displaced intertrochanteric fracture of left femur, init Displaced intertroch fx left femur, init for opn fx type 1/2 Displaced intertroch fx l femur, init for opn fx type 3A/B/C
\$72.141B \$72.141C \$72.142A \$72.142B \$72.142C \$72.143A	Nondisp apophyseal fx unsp femr, init for opn fx type 3A/B/C Displaced intertrochanteric fracture of right femur, init Displaced intertroch fx r femur, init for opn fx type I/2 Displaced intertroch fx r femur, init for opn fx type 3A/B/C Displaced intertrochanteric fracture of left femur, init Displaced intertroch fx left femur, init for opn fx type I/2 Displaced intertroch fx l femur, init for opn fx type 3A/B/C Displaced intertrochanteric fracture of unsp femur, init
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S72.24XB	Nondisp subtrochnt fx right femur, init for opn fx type I/2
S72.24XC	Nondisp subtrochnt fx r femur, init for opn fx type 3A/B/C
S72.25XA	Nondisplaced subtrochanteric fracture of left femur, init
S72.25XB	Nondisp subtrochnt fx left femur, init for opn fx type I/2
S72.25XC	Nondisp subtrochnt fx l femur, init for opn fx type 3A/B/C
S72.26XA	Nondisplaced subtrochanteric fracture of unsp femur, init
S72.26XB	Nondisp subtrochnt fx unsp femur, init for opn fx type I/2
S72.26XC	Nondisp subtrochnt fx unsp femr, init for opn fx type 3A/B/C

## **Hip Replacement Removal Procedure Codes**

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0SP9	907Z	Removal of Autol Sub from R Hip Jt, Open Approach
0SP9	90BZ	Removal of Resurfacing Device from R Hip Jt, Open Approach
0SP9	90JZ	Removal of Synthetic Substitute from R Hip Jt, Open Approach
0SP9	90KZ	Removal of Nonaut Sub from R Hip Jt, Open Approach
0SP9	937Z	Removal of Autol Sub from R Hip Jt, Perc Approach
0SP9	3JZ	Removal of Synthetic Substitute from R Hip Jt, Perc Approach
0SP9	3KZ	Removal of Nonaut Sub from R Hip Jt, Perc Approach
0SP9	947Z	Removal of Autol Sub from R Hip Jt, Perc Endo Approach
0SP9	4JZ	Removal of Synth Sub from R Hip Jt, Perc Endo Approach
0SP9	4KZ	Removal of Nonaut Sub from R Hip Jt, Perc Endo Approach
0SPA	A0JZ	Removal of Synth Sub from R Hip Jt, Acetab, Open Approach
0SPA	A3JZ	Removal of Synth Sub from R Hip Jt, Acetab, Perc Approach
0SPA	4JZ	Remove Synth Sub from R Hip Jt, Acetab, Perc Endo
0SPE	307Z	Removal of Autol Sub from L Hip Jt, Open Approach
0SPE	30BZ	Removal of Resurfacing Device from L Hip Jt, Open Approach
0SPE	30JZ	Removal of Synthetic Substitute from L Hip Jt, Open Approach
0SPE	30KZ	Removal of Nonaut Sub from L Hip Jt, Open Approach
0SPE	337Z	Removal of Autol Sub from L Hip Jt, Perc Approach
0SPE	33JZ	Removal of Synthetic Substitute from L Hip Jt, Perc Approach
0SPE	33KZ	Removal of Nonaut Sub from L Hip Jt, Perc Approach
0SPE	347Z	Removal of Autol Sub from L Hip Jt, Perc Endo Approach
0SPE	34JZ	Removal of Synth Sub from L Hip Jt, Perc Endo Approach
0SPE	34KZ	Removal of Nonaut Sub from L Hip Jt, Perc Endo Approach
0SPE	E0JZ	Removal of Synth Sub from L Hip Jt, Acetab, Open Approach
0SPE	E3JZ	Removal of Synth Sub from L Hip Jt, Acetab, Perc Approach
0SPE		Remove Synth Sub from L Hip Jt, Acetab, Perc Endo
0SPF	ROJZ	Removal of Synth Sub from R Hip Jt, Femoral, Open Approach
0SPF	R3JZ	Removal of Synth Sub from R Hip Jt, Femoral, Perc Approach
0SPF		Remove Synth Sub from R Hip Jt, Femoral, Perc Endo
0SPS		Removal of Synth Sub from L Hip Jt, Femoral, Open Approach
0SPS		Removal of Synth Sub from L Hip Jt, Femoral, Perc Approach
0SPS	S4JZ	Remove Synth Sub from L Hip Jt, Femoral, Perc Endo

## OPEN COLORECTAL CANCER SURGERY (CRC)

Scheduled episodes (Circ. Admission = Scheduled) with primary diagnosis of colon and rectal neoplasia and with open colon and rectal procedure. Those episodes that also have a secondary diagnosis of metastasis are excluded.

# Colon and rectal neoplasia diagnostic codes

C18.0	Malignant neoplasm of cecum
C18.1	Malignant neoplasm of appendix
C18.2	Malignant neoplasm of ascending colon
C18.3	Malignant neoplasm of hepatic flexure
C18.4	Malignant neoplasm of transverse colon
C18.5	Malignant neoplasm of splenic flexure
C18.6	Malignant neoplasm of descending colon
C18.7	Malignant neoplasm of sigmoid colon
C18.8	Malignant neoplasm of overlapping sites of colon
C18.9	Malignant neoplasm of colon, unspecified
C19	Malignant neoplasm of rectosigmoid junction
C20	Malignant neoplasm of rectum
C21.0	Malignant neoplasm of anus, unspecified
C21.1	Malignant neoplasm of anal canal
C21.2	Malignant neoplasm of cloacogenic zone
C21.8	Malig neoplasm of ovrlp sites of rectum, anus and anal canal
C7A.020	Malignant carcinoid tumor of the appendix
C7A.021	Malignant carcinoid tumor of the cecum
C7A.022	Malignant carcinoid tumor of the ascending colon
C7A.023	Malignant carcinoid tumor of the transverse colon
C7A.024	Malignant carcinoid tumor of the descending colon
C7A.025	Malignant carcinoid tumor of the sigmoid colon
C7A.026	Malignant carcinoid tumor of the rectum
C7A.029	Malignant carcinoid tumor of the lg int, unsp portion

Open colon and rectum pro	cedure codes
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0DTE0ZZ	Resection of Large Intestine, Open Approach
0DTF0ZZ	Resection of Right Large Intestine, Open Approach
0DTG0ZZ	Resection of Left Large Intestine, Open Approach
0DTH0ZZ	Resection of Cecum, Open Approach
0DTJ0ZZ	Resection of Appendix, Open Approach
0DTK0ZZ	Resection of Ascending Colon, Open Approach
0DTL0ZZ	Resection of Transverse Colon, Open Approach
0DTM0ZZ	Resection of Descending Colon, Open Approach
0DTN0ZZ	Resection of Sigmoid Colon, Open Approach
0DTP0ZZ	Resection of Rectum, Open Approach
0DTQ0ZZ	Resection of Anus, Open Approach
0DBE0ZZ	Excision of Large Intestine, Open Approach
0DBF0ZZ	Excision of Right Large Intestine, Open Approach
0DBG0ZZ	Excision of Left Large Intestine, Open Approach
0DBH0ZZ	Excision of Cecum, Open Approach
0DBJ0ZZ	Excision of Appendix, Open Approach
0DBK0ZZ	Excision of Ascending Colon, Open Approach
0DBL0ZZ	Excision of Transverse Colon, Open Approach
0DBM0ZZ	Excision of Descending Colon, Open Approach
0DBN0ZZ	Excision of Sigmoid Colon, Open Approach
0DBP0ZZ	Excision of Rectum, Open Approach
0DBQ0ZZ	Excision of Anus, Open Approach

Metastasi	s diagnostic codes
C77.0	Sec and unsp malig neoplasm of nodes of head, face and neck
C77.1	Secondary and unsp malignant neoplasm of intrathorac nodes
C77.2	Secondary and unsp malignant neoplasm of intra-abd nodes
C77.3	Sec and unsp malig neoplasm of axilla and upper limb nodes
C77.4	Sec and unsp malig neoplasm of inguinal and lower limb nodes
C77.5	Secondary and unsp malignant neoplasm of intrapely nodes
C77.8	Sec and unsp malig neoplasm of nodes of multiple regions
C77.9	Secondary and unsp malignant neoplasm of lymph node, unsp
C77.9	Secondary malignant neoplasm of unspecified lung
C78.01	Secondary malignant neoplasm of right lung
C78.02	Secondary malignant neoplasm of left lung
C78.02	Secondary malignant neoplasm of mediastinum
C78.2	Secondary malignant neoplasm of pleura
C78.30	Secondary malignant neoplasm of unsp respiratory organ
C78.39	Secondary malignant neoplasm of other respiratory organs
C78.4	Secondary malignant neoplasm of small intestine
C78.5	Secondary malignant neoplasm of large intestine and rectum
C78.6	Secondary malignant neoplasm of retroperiton and peritoneum
C78.7	Secondary malig neoplasm of liver and intrahepatic bile duct
C78.80	Secondary malignant neoplasm of unspecified digestive organ
C78.89	Secondary malignant neoplasm of other digestive organs
C79.00	Secondary malignant neoplasm of unsp kidney and renal pelvis
C79.01	Secondary malignant neoplasm of r kidney and renal pelvis
C79.02	Secondary malignant neoplasm of left kidney and renal pelvis
C79.10	Secondary malignant neoplasm of unspecified urinary organs
C79.11	Secondary malignant neoplasm of bladder
C79.19	Secondary malignant neoplasm of other urinary organs
C79.2	Secondary malignant neoplasm of skin
C79.31	Secondary malignant neoplasm of brain
C79.32	Secondary malignant neoplasm of cerebral meninges
C79.40	Secondary malignant neoplasm of unsp part of nervous system
C79.49	Secondary malignant neoplasm of oth parts of nervous system
C79.51	Secondary malignant neoplasm of bone
C79.52	Secondary malignant neoplasm of bone marrow
C79.60	Secondary malignant neoplasm of unspecified ovary
C79.61	Secondary malignant neoplasm of right ovary
C79.62	Secondary malignant neoplasm of left ovary
C79.70	Secondary malignant neoplasm of unspecified adrenal gland
C79.71	Secondary malignant neoplasm of right adrenal gland
C79.72	Secondary malignant neoplasm of left adrenal gland
C79.81	Secondary malignant neoplasm of breast
C79.82	Secondary malignant neoplasm of genital organs
C79.89	Secondary malignant neoplasm of other specified sites
C79.9	Secondary malignant neoplasm of unspecified site
C80.0	Disseminated malignant neoplasm, unspecified
C80.1	Malignant (primary) neoplasm, unspecified
C80.2	Malignant neoplasm associated with transplanted organ
C7B.00	Secondary carcinoid tumors, unspecified site
C7B.01	Secondary carcinoid tumors of distant lymph nodes

C7B.02	Secondary carcinoid tumors of liver
C7B.03	Secondary carcinoid tumors of bone
C7B.04	Secondary carcinoid tumors of peritoneum
C7B.09	Secondary carcinoid tumors of other sites
C7B.1	Secondary Merkel cell carcinoma
C7B.8	Other secondary neuroendocrine tumors

## LAPAROSCOPIC COLORECTAL CANCER SURGERY (CRC)

Scheduled episodes (Circ. Admission = Scheduled) with primary diagnosis of colon and rectal neoplasia and with laparoscopic colon and rectal procedure. Those episodes that also have a secondary diagnosis of metastasis are excluded.

## Colon and rectal neoplasia diagnostic codes Malignant neoplasm of cecum

C18.1	Malignant neoplasm of appendix
C18.2	Malignant neoplasm of ascending colon
C18.3	Malignant neoplasm of hepatic flexure
C18.4	Malignant neoplasm of transverse colon
C18.5	Malignant neoplasm of splenic flexure
C18.6	Malignant neoplasm of descending colon
C18.7	Malignant neoplasm of sigmoid colon
C18.8	Malignant neoplasm of overlapping sites of colon
C18.9	Malignant neoplasm of colon, unspecified
C19	Malignant neoplasm of rectosigmoid junction
C20	Malignant neoplasm of rectum
C21.0	Malignant neoplasm of anus, unspecified
C21.1	Malignant neoplasm of anal canal
C21.2	Malignant neoplasm of cloacogenic zone
C21.8	Malig neoplasm of ovrlp sites of rectum, anus and anal canal
C7A.020	Malignant carcinoid tumor of the appendix
C7A.021	Malignant carcinoid tumor of the cecum
C7A.022	Malignant carcinoid tumor of the ascending colon
C7A.023	Malignant carcinoid tumor of the transverse colon
C7A.024	Malignant carcinoid tumor of the descending colon
C7A.025	Malignant carcinoid tumor of the sigmoid colon
C7A.026	Malignant carcinoid tumor of the rectum
C7A.029	Malignant carcinoid tumor of the lg int, unsp portion

C7A.026	Malignant carcinold tumor of the rectum
C7A.029	Malignant carcinoid tumor of the lg int, unsp portion
Laparoscop	ic colon and rectum procedure codes
0DTE4ZZ	Resection of Large Intestine, Perc Endo Approach
0DTE7ZZ	Resection of Large Intestine, Via Opening
0DTE8ZZ	Resection of Large Intestine, Endo
0DTF4ZZ	Resection of Right Large Intestine, Perc Endo Approach
0DTF7ZZ	Resection of Right Large Intestine, Via Opening
0DTF8ZZ	Resection of Right Large Intestine, Endo
0DTG4ZZ	Resection of Left Large Intestine, Perc Endo Approach
0DTG7ZZ	Resection of Left Large Intestine, Via Opening
0DTG8ZZ	Resection of Left Large Intestine, Endo
0DTH4ZZ	Resection of Cecum, Percutaneous Endoscopic Approach
0DTH7ZZ	Resection of Cecum, Via Natural or Artificial Opening
0DTH8ZZ	Resection of Cecum, Endo
0DTJ4ZZ	Resection of Appendix, Percutaneous Endoscopic Approach
0DTJ7ZZ	Resection of Appendix, Via Natural or Artificial Opening
0DTJ8ZZ	Resection of Appendix, Endo
0DTK4ZZ	Resection of Ascending Colon, Perc Endo Approach
0DTK7ZZ	Resection of Ascending Colon, Via Opening
0DTK8ZZ	Resection of Ascending Colon, Endo
0DTL4ZZ	Resection of Transverse Colon, Perc Endo Approach
0DTL7ZZ	Resection of Transverse Colon, Via Opening
0DTL8ZZ	Resection of Transverse Colon, Endo
0DTM4ZZ	Resection of Descending Colon, Perc Endo Approach
0DTM7ZZ	Resection of Descending Colon, Via Opening
0DTM8ZZ	Resection of Descending Colon, Endo
0DTN4ZZ	Resection of Sigmoid Colon, Percutaneous Endoscopic Approach
0DTN7ZZ	Resection of Sigmoid Colon, Via Opening
0DTN8ZZ	Resection of Sigmoid Colon, Endo
0DTP4ZZ	Resection of Rectum, Percutaneous Endoscopic Approach
ODTP7ZZ	Resection of Rectum, Via Natural or Artificial Opening
ODTP8ZZ	Resection of Rectum, Endo
0DTQ4ZZ	Resection of Anus, Percutaneous Endoscopic Approach
0DTQ7ZZ	Resection of Anus, Via Natural or Artificial Opening

0DTQ8ZZ Resection of Anus, Endo

0DBE3ZZ Excision of Large Intestine, Percutaneous Approach

0DBE4ZZ	Excision of Large Intestine, Perc Endo Approach	C79.40	Secondary malignant neoplasm of unsp part of nervous system
0DBE7ZZ	Excision of Large Intestine, Via Opening	C79.49	Secondary malignant neoplasm of oth parts of nervous system
0DBE8ZZ	Excision of Large Intestine, Endo	C79.51	Secondary malignant neoplasm of bone
0DBF3ZZ	Excision of Right Large Intestine, Percutaneous Approach	C79.52	Secondary malignant neoplasm of bone marrow
0DBF4ZZ	Excision of Right Large Intestine, Perc Endo Approach	C79.60	Secondary malignant neoplasm of unspecified ovary
0DBF7ZZ	Excision of Right Large Intestine, Via Opening	C79.61	Secondary malignant neoplasm of right ovary
0DBF8ZZ	Excision of Right Large Intestine, Endo	C79.62	Secondary malignant neoplasm of left ovary
0DBG3ZZ	Excision of Left Large Intestine, Percutaneous Approach	C79.70	Secondary malignant neoplasm of unspecified adrenal gland
0DBG4ZZ	Excision of Left Large Intestine, Perc Endo Approach	C79.71	Secondary malignant neoplasm of right adrenal gland
0DBG7ZZ	Excision of Left Large Intestine, Via Opening	C79.72	Secondary malignant neoplasm of left adrenal gland
0DBG8ZZ	Excision of Left Large Intestine, Endo	C79.81	Secondary malignant neoplasm of breast
0DBH3ZZ	Excision of Cecum, Percutaneous Approach	C79.82	Secondary malignant neoplasm of genital organs
0DBH4ZZ	Excision of Cecum, Percutaneous Endoscopic Approach	C79.89	Secondary malignant neoplasm of other specified sites
0DBH7ZZ	Excision of Cecum, Via Natural or Artificial Opening	C79.9	Secondary malignant neoplasm of unspecified site
0DBH8ZZ	Excision of Cecum, Endo	C80.0	Disseminated malignant neoplasm, unspecified
0DBJ3ZZ	Excision of Appendix, Percutaneous Approach	C80.1	Malignant (primary) neoplasm, unspecified
0DBJ4ZZ	Excision of Appendix, Percutaneous Endoscopic Approach	C80.2	Malignant neoplasm associated with transplanted organ
0DBJ7ZZ	Excision of Appendix, Via Natural or Artificial Opening	C7B.00	Secondary carcinoid tumors, unspecified site
0DBJ8ZZ	Excision of Appendix, Endo	C7B.01	Secondary carcinoid tumors of distant lymph nodes
0DBK3ZZ	Excision of Ascending Colon, Percutaneous Approach	C7B.02	Secondary carcinoid tumors of liver
0DBK4ZZ	Excision of Ascending Colon, Perc Endo Approach	C7B.03	Secondary carcinoid tumors of bone
0DBK7ZZ	Excision of Ascending Colon, Via Opening	C7B.04	Secondary carcinoid tumors of peritoneum
0DBK8ZZ	Excision of Ascending Colon, Endo	C7B.09	Secondary carcinoid tumors of other sites
0DBL3ZZ	Excision of Transverse Colon, Percutaneous Approach	C7B.1	Secondary Merkel cell carcinoma
0DBL4ZZ	Excision of Transverse Colon, Perc Endo Approach	C7B.8	Other secondary neuroendocrine tumors
0DBL7ZZ	Excision of Transverse Colon, Via Opening		
0DBL8ZZ	Excision of Transverse Colon, Endo		
0DBM3ZZ	Excision of Descending Colon, Percutaneous Approach	CARDIA	C VALVE SURGERY
0DBM4ZZ	Excision of Descending Colon, Perc Endo Approach	CARDIA	L VALVE SURGERY
0DBM7ZZ	Excision of Descending Colon, Via Opening	Calaadiilaa	d anisa dae (Cine Adminsion – Cabadulad) with an an augustus . Enisa da
0DBM8ZZ	Excision of Descending Colon, Endo		d episodes (Circ. Admission = Scheduled) with open surgery. Episode nave a heart transplant or bypass procedure are excluded.
0DBN3ZZ	Excision of Sigmoid Colon, Percutaneous Approach	triat also i	lave a fleart transplant of bypass procedure are excluded.
0DBN4ZZ	Excision of Sigmoid Colon, Percutaneous Endoscopic Approach	Cardinav	alva nya caduya cadas (anan suygayı)
0DBN7ZZ	Excision of Sigmoid Colon, Via Natural or Artificial Opening	02QF0ZJ	alve procedure codes (open surgery)  Repair Aortic Valve created from Trunc Vlv, Open Approach
0DBN8ZZ	Excision of Sigmoid Colon, Endo		
0DBP3ZZ	Excision of Rectum, Percutaneous Approach	02QF0ZZ	Repair Aortic Valve, Open Approach
0DDD477	Excision of Postum Porcutanoous Endoscopic Approach	02QG0ZE	Repair Mitral Valve created from L AV Vlv, Open Approach

## Metastasis diagnostic codes

0DBQ8ZZ Excision of Anus, Endo

0DBP4ZZ

0DBP7ZZ

0DBP8ZZ

0DBQ3ZZ 0DBQ4ZZ 0DBQ7ZZ

Metastasis	diagnostic codes
C77.0	Sec and unsp malig neoplasm of nodes of head, face and neck
C77.1	Secondary and unsp malignant neoplasm of intrathorac nodes
C77.2	Secondary and unsp malignant neoplasm of intra-abd nodes
C77.3	Sec and unsp malig neoplasm of axilla and upper limb nodes
C77.4	Sec and unsp malig neoplasm of inguinal and lower limb nodes
C77.5	Secondary and unsp malignant neoplasm of intrapely nodes
C77.8	Sec and unsp malig neoplasm of nodes of multiple regions
C77.9	Secondary and unsp malignant neoplasm of lymph node, unsp
C78.00	Secondary malignant neoplasm of unspecified lung
C78.01	Secondary malignant neoplasm of right lung
C78.02	Secondary malignant neoplasm of left lung
C78.1	Secondary malignant neoplasm of mediastinum
C78.2	Secondary malignant neoplasm of pleura
C78.30	Secondary malignant neoplasm of unsp respiratory organ
C78.39	Secondary malignant neoplasm of other respiratory organs
C78.4	Secondary malignant neoplasm of small intestine
C78.5	Secondary malignant neoplasm of large intestine and rectum
C78.6	Secondary malignant neoplasm of retroperiton and peritoneum
C78.7	Secondary malig neoplasm of liver and intrahepatic bile duct
C78.80	Secondary malignant neoplasm of unspecified digestive organ
C78.89	Secondary malignant neoplasm of other digestive organs
C79.00	Secondary malignant neoplasm of unsp kidney and renal pelvis
C79.01	Secondary malignant neoplasm of r kidney and renal pelvis
C79.02	Secondary malignant neoplasm of left kidney and renal pelvis
C79.10	Secondary malignant neoplasm of unspecified urinary organs
C79.11	Secondary malignant neoplasm of bladder
C79.19	Secondary malignant neoplasm of other urinary organs
C79.2	Secondary malignant neoplasm of skin
C79.31	Secondary malignant neoplasm of brain
C79.32	Secondary malignant neoplasm of cerebral meninges

Excision of Rectum, Percutaneous Endoscopic Approach

Excision of Rectum, Via Natural or Artificial Opening

Excision of Anus, Percutaneous Approach
Excision of Anus, Percutaneous Endoscopic Approach

Excision of Anus, Via Natural or Artificial Opening

Excision of Rectum, Endo

	02QF0ZZ	Repair Aortic Valve, Open Approach
	02QG0ZE	Repair Mitral Valve created from L AV Vlv, Open Approach
	02QG0ZZ	Repair Mitral Valve, Open Approach
	02QH0ZZ	Repair Pulmonary Valve, Open Approach
	02QJ0ZG	Repair Tricuspid Valve created from R AV Vlv, Open Approach
	02QJ0ZZ	Repair Tricuspid Valve, Open Approach
	02RF07Z	Replacement of Aortic Valve with Autol Sub, Open Approach
)	02RF08Z	Replacement of Aortic Valve with Zooplastic, Open Approach
	02RF0JZ	Replacement of Aortic Valve with Synth Sub, Open Approach
	02RF0KZ	Replacement of Aortic Valve with Nonaut Sub, Open Approach
	02RG07Z	Replacement of Mitral Valve with Autol Sub, Open Approach
	02RG08Z	Replacement of Mitral Valve with Zooplastic, Open Approach
	02RG0JZ	Replacement of Mitral Valve with Synth Sub, Open Approach
	02RG0KZ	Replacement of Mitral Valve with Nonaut Sub, Open Approach
	02RH07Z	Replacement of Pulmonary Valve with Autol Sub, Open Approach
	02RH08Z	Replacement of Pulm Valve with Zooplastic, Open Approach
	02RH0JZ	Replacement of Pulmonary Valve with Synth Sub, Open Approach
	02RH0KZ	Replacement of Pulm Valve with Nonaut Sub, Open Approach
	02RJ07Z	Replacement of Tricuspid Valve with Autol Sub, Open Approach
	02RJ08Z	Replacement of Tricusp Valve with Zooplastic, Open Approach
	02RJ0JZ	Replacement of Tricuspid Valve with Synth Sub, Open Approach
	02RJ0KZ	Replacement of Tricusp Valve with Nonaut Sub, Open Approach

## Heart transplant procedure codes

02YA0Z0	Transplantation of Heart, Allogeneic, Open Approach
02YA0Z1	Transplantation of Heart, Syngeneic, Open Approach
02YA0Z2	Transplantation of Heart, Zooplastic, Open Approach

## Bypass procedure codes

0210083	Bypass 1 Cor Art from Cor Art with Zooplastic, Open Approach
0210088	Bypass 1 Cor Art from R Int Mammary w Zooplastic, Open
0210089	Bypass 1 Cor Art from L Int Mammary w Zooplastic, Open
021008C	Bypass 1 Cor Art from Thor Art w Zooplastic, Open
021008F	Bypass 1 Cor Art from Abd Art with Zooplastic, Open Approach
021008W	Bypass 1 Cor Art from Aorta with Zooplastic, Open Approach
0210093	Bypass 1 Cor Art from Cor Art with Autol Vn, Open Approach
0210098	Bypass 1 Cor Art from R Int Mammary w Autol Vn, Open
0210099	Bypass 1 Cor Art from L Int Mammary w Autol Vn, Open
021009C	Bypass 1 Cor Art from Thor Art with Autol Vn, Open Approach
021009F	Bypass 1 Cor Art from Abd Art with Autol Vn, Open Approach
021009W	Bypass 1 Cor Art from Aorta with Autol Vn, Open Approach

02100A3	Bypass 1 Cor Art from Cor Art with Autol Art, Open Approach	02110A8	Bypass 2 Cor Art from R Int Mammary w Autol Art, Open
02100A8	Bypass 1 Cor Art from R Int Mammary w Autol Art, Open	02110A9	Bypass 2 Cor Art from L Int Mammary w Autol Art, Open
02100A9	Bypass 1 Cor Art from L Int Mammary w Autol Art, Open	02110AC	Bypass 2 Cor Art from Thor Art with Autol Art, Open Approach
02100AC	Bypass 1 Cor Art from Thor Art with Autol Art, Open Approach	02110AF	Bypass 2 Cor Art from Abd Art with Autol Art, Open Approach
02100AF	Bypass 1 Cor Art from Abd Art with Autol Art, Open Approach	02110AW	Bypass 2 Cor Art from Aorta with Autol Art, Open Approach
02100/\(\text{\text{\$1}}\)		02110J3	
	Bypass 1 Cor Art from Aorta with Autol Art, Open Approach		Bypass 2 Cor Art from Cor Art with Synth Sub, Open Approach
02100J3	Bypass 1 Cor Art from Cor Art with Synth Sub, Open Approach	02110J8	Bypass 2 Cor Art from R Int Mammary w Synth Sub, Open
02100J8	Bypass 1 Cor Art from R Int Mammary w Synth Sub, Open	02110J9	Bypass 2 Cor Art from L Int Mammary w Synth Sub, Open
02100J9	Bypass 1 Cor Art from L Int Mammary w Synth Sub, Open	02110JC	Bypass 2 Cor Art from Thor Art with Synth Sub, Open Approach
02100JC	Bypass 1 Cor Art from Thor Art with Synth Sub, Open Approach	02110JF	Bypass 2 Cor Art from Abd Art with Synth Sub, Open Approach
02100JF	Bypass 1 Cor Art from Abd Art with Synth Sub, Open Approach	02110JW	Bypass 2 Cor Art from Aorta with Synth Sub, Open Approach
02100JW	Bypass 1 Cor Art from Aorta with Synth Sub, Open Approach	02110K3	Bypass 2 Cor Art from Cor Art with Nonaut Sub, Open Approach
02100K3	Bypass 1 Cor Art from Cor Art with Nonaut Sub, Open Approach	02110K8	Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Open
02100K8	Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Open	02110K9	Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Open
	Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Open	02110KS	**
02100K9	21		Bypass 2 Cor Art from Thor Art w Nonaut Sub, Open
02100KC	Bypass 1 Cor Art from Thor Art w Nonaut Sub, Open	02110KF	Bypass 2 Cor Art from Abd Art with Nonaut Sub, Open Approach
02100KF	Bypass 1 Cor Art from Abd Art with Nonaut Sub, Open Approach	02110KW	Bypass 2 Cor Art from Aorta with Nonaut Sub, Open Approach
02100KW	Bypass 1 Cor Art from Aorta with Nonaut Sub, Open Approach	02110Z3	Bypass 2 Cor Art from Cor Art, Open Approach
02100Z3	Bypass 1 Cor Art from Cor Art, Open Approach	02110Z8	Bypass 2 Cor Art from R Int Mammary, Open Approach
02100Z8	Bypass 1 Cor Art from R Int Mammary, Open Approach	02110Z9	Bypass 2 Cor Art from L Int Mammary, Open Approach
02100Z9	Bypass 1 Cor Art from L Int Mammary, Open Approach	02110ZC	Bypass 2 Cor Art from Thor Art, Open Approach
02100ZC	Bypass 1 Cor Art from Thor Art, Open Approach	02110ZF	Bypass 2 Cor Art from Abd Art, Open Approach
02100ZF	Bypass 1 Cor Art from Abd Art, Open Approach	0211344	Bypass 2 Cor Art from Cor V w Drug-elut Intra, Perc
0210021	Bypass 1 Cor Art from Cor V w Drug-elut Intra, Perc	02113T1	Bypass 2 Cor Art from Cor V with Intralum Dev, Perc Approach
	,,	0211304	7 11
02103D4	Bypass 1 Cor Art from Cor V with Intralum Dev, Perc Approach		Bypass 2 Cor Art from Cor V w Drug-elut Intra, Perc Endo
0210444	Bypass 1 Cor Art from Cor V w Drug-elut Intra, Perc Endo	0211483	Bypass 2 Cor Art from Cor Art w Zooplastic, Perc Endo
0210483	Bypass 1 Cor Art from Cor Art w Zooplastic, Perc Endo	0211488	Bypass 2 Cor Art from R Int Mammary w Zooplastic, Perc Endo
0210488	Bypass 1 Cor Art from R Int Mammary w Zooplastic, Perc Endo	0211489	Bypass 2 Cor Art from L Int Mammary w Zooplastic, Perc Endo
0210489	Bypass 1 Cor Art from L Int Mammary w Zooplastic, Perc Endo	021148C	Bypass 2 Cor Art from Thor Art w Zooplastic, Perc Endo
021048C	Bypass 1 Cor Art from Thor Art w Zooplastic, Perc Endo	021148F	Bypass 2 Cor Art from Abd Art w Zooplastic, Perc Endo
021048F	Bypass 1 Cor Art from Abd Art w Zooplastic, Perc Endo	021148W	Bypass 2 Cor Art from Aorta w Zooplastic, Perc Endo
021048W	Bypass 1 Cor Art from Aorta w Zooplastic, Perc Endo	0211493	Bypass 2 Cor Art from Cor Art w Autol Vn, Perc Endo
0210493	Bypass 1 Cor Art from Cor Art w Autol Vn, Perc Endo	0211498	Bypass 2 Cor Art from R Int Mammary w Autol Vn, Perc Endo
0210498	Bypass 1 Cor Art from R Int Mammary w Autol Vn, Perc Endo	0211499	Bypass 2 Cor Art from L Int Mammary w Autol Vn, Perc Endo
0210499	Bypass 1 Cor Art from L Int Mammary w Autol Vn, Perc Endo	021149C	Bypass 2 Cor Art from Thor Art w Autol Vn, Perc Endo
021049C	Bypass 1 Cor Art from Thor Art w Autol Vn, Perc Endo	021149F	Bypass 2 Cor Art from Abd Art w Autol Vn, Perc Endo
021049F	Bypass 1 Cor Art from Abd Art w Autol Vn, Perc Endo	021149W	Bypass 2 Cor Art from Aorta w Autol Vn, Perc Endo
021049W	Bypass 1 Cor Art from Aorta w Autol Vn, Perc Endo	02114A3	Bypass 2 Cor Art from Cor Art w Autol Art, Perc Endo
02104A3	Bypass 1 Cor Art from Cor Art w Autol Art, Perc Endo	02114A8	Bypass 2 Cor Art from R Int Mammary w Autol Art, Perc Endo
02104A8	Bypass 1 Cor Art from R Int Mammary w Autol Art, Perc Endo	02114A9	Bypass 2 Cor Art from L Int Mammary w Autol Art, Perc Endo
02104A9	Bypass 1 Cor Art from L Int Mammary w Autol Art, Perc Endo	02114AC	Bypass 2 Cor Art from Thor Art w Autol Art, Perc Endo
02104AC	Bypass 1 Cor Art from Thor Art w Autol Art, Perc Endo	02114AF	Bypass 2 Cor Art from Abd Art w Autol Art, Perc Endo
02104AF	Bypass 1 Cor Art from Abd Art w Autol Art, Perc Endo	02114AW	Bypass 2 Cor Art from Aorta w Autol Art, Perc Endo
02104AW	Bypass 1 Cor Art from Aorta w Autol Art, Perc Endo	02114D4	Bypass 2 Cor Art from Cor V w Intralum Dev, Perc Endo
02104D4	Bypass 1 Cor Art from Cor V w Intralum Dev, Perc Endo	02114J3	Bypass 2 Cor Art from Cor Art w Synth Sub, Perc Endo
02104J3	Bypass 1 Cor Art from Cor Art w Synth Sub, Perc Endo	02111JS 02114J8	Bypass 2 Cor Art from R Int Mammary w Synth Sub, Perc Endo
02104J8	Bypass 1 Cor Art from R Int Mammary w Synth Sub, Perc Endo	02114J9	Bypass 2 Cor Art from L Int Mammary w Synth Sub, Perc Endo
02104J9	Bypass 1 Cor Art from L Int Mammary w Synth Sub, Perc Endo	02114JC	
02104JC	Bypass 1 Cor Art from Thor Art w Synth Sub, Perc Endo		Bypass 2 Cor Art from Thor Art w Synth Sub, Perc Endo
02104JF		02114JF	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo
02104JW	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo	02114JF 02114JW	
021043			Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo
021045W 02104K3	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo	02114JW	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo
	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo	02114JW 02114K3	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo
02104K3 02104K8	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo	02114JW 02114K3 02114K8 02114K9	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo
02104K3 02104K8 02104K9	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo	02114JW 02114K3 02114K8 02114K9 02114KC	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo
02104K3 02104K8 02104K9 02104KC	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo	02114JW 02114K3 02114K8 02114K9 02114KC 02114KF	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo
02104K3 02104K8 02104K9 02104KC 02104KF	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo	02114JW 02114K3 02114K8 02114K9 02114KC 02114KF 02114KW	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo
02104K3 02104K8 02104K9 02104KC 02104KF 02104KW	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo	02114JW 02114K3 02114K8 02114K9 02114KC 02114KF 02114KW 02114Z3	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach
02104K3 02104K8 02104K9 02104KC 02104KF 02104KW 02104Z3	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach	02114JW 02114K3 02114K8 02114K9 02114KC 02114KF 02114KW 02114Z3 02114Z8	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach
02104K3 02104K8 02104K9 02104KC 02104KF 02104KW 02104Z3 02104Z8	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from R Int Mammary, Perc Endo Approach	02114JW 02114K3 02114K8 02114K9 02114KC 02114KF 02114KW 02114Z3 02114Z8 02114Z9	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from L Int Mammary, Perc Endo Approach
02104K3 02104K8 02104K9 02104KC 02104KF 02104KW 02104Z3 02104Z8 02104Z9	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach	02114JW 02114K3 02114K8 02114K9 02114KC 02114KF 02114KW 02114Z3 02114Z8	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from L Int Mammary, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach
02104K3 02104K8 02104K9 02104KC 02104KF 02104KW 02104Z3 02104Z8	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from R Int Mammary, Perc Endo Approach	02114JW 02114K3 02114K8 02114K9 02114KC 02114KF 02114KW 02114Z3 02114Z8 02114Z9	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from L Int Mammary, Perc Endo Approach
02104K3 02104K8 02104K9 02104KC 02104KF 02104KW 02104Z3 02104Z8 02104Z9	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from R Int Mammary, Perc Endo Approach Bypass 1 Cor Art from L Int Mammary, Perc Endo Approach	02114JW 02114K3 02114K8 02114K9 02114KC 02114KF 02114KW 02114Z3 02114Z8 02114Z9 02114ZC	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from L Int Mammary, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach
02104K3 02104K8 02104K9 02104KC 02104KF 02104KW 02104Z3 02104Z8 02104Z9 02104ZC	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from R Int Mammary, Perc Endo Approach Bypass 1 Cor Art from L Int Mammary, Perc Endo Approach Bypass 1 Cor Art from Thor Art, Perc Endo Approach	02114JW 02114K3 02114K8 02114K9 02114KC 02114KF 02114KW 02114Z3 02114Z8 02114Z9 02114ZC 02114ZF	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach
02104K3 02104K8 02104K9 02104KC 02104KF 02104KW 02104Z3 02104Z3 02104Z9 02104ZC 02104ZF	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from L Int Mammary, Perc Endo Approach Bypass 1 Cor Art from Thor Art, Perc Endo Approach Bypass 1 Cor Art from Thor Art, Perc Endo Approach Bypass 1 Cor Art from Abd Art, Perc Endo Approach	02114JW 02114K3 02114K8 02114K9 02114KC 02114KF 02114KW 02114Z3 02114Z8 02114Z9 02114ZC 02114ZF 0212083	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 3 Cor Art from Abd Art, Perc Endo Approach Bypass 3 Cor Art from Cor Art with Zooplastic, Open Approach
02104K3 02104K8 02104K9 02104KC 02104KW 02104Z3 02104Z3 02104Z8 02104Z9 02104ZC 02104ZF 02104ZF	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from C Int Mammary, Perc Endo Approach Bypass 1 Cor Art from Thor Art, Perc Endo Approach Bypass 1 Cor Art from Thor Art, Perc Endo Approach Bypass 1 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Cor Art with Zooplastic, Open Approach	02114JW 02114K3 02114K8 02114KC 02114KC 02114KF 02114Z3 02114Z8 02114Z9 02114ZC 02114ZC 02114ZF 0212083 0212088	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach Bypass 3 Cor Art from Cor Art, Perc Endo Approach Bypass 3 Cor Art from Cor Art, Perc Endo Approach Bypass 3 Cor Art from Cor Art, Perc Endo Approach Bypass 3 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 3 Cor Art from R Int Mammary w Zooplastic, Open
02104K3 02104K8 02104K9 02104KC 02104KF 02104Z3 02104Z3 02104Z9 02104ZC 02104ZC 02104ZF 0211083 0211088 0211089	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from R Int Mammary, Perc Endo Approach Bypass 1 Cor Art from Thor Art, Perc Endo Approach Bypass 1 Cor Art from Abd Art, Perc Endo Approach Bypass 1 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Cor Art with Zooplastic, Open Bypass 2 Cor Art from R Int Mammary w Zooplastic, Open Bypass 2 Cor Art from R Int Mammary w Zooplastic, Open	02114JW 02114K3 02114K8 02114KP 02114KF 02114KF 02114Z3 02114Z8 02114Z9 02114ZF 02114ZF 02114ZF 0212083 0212088 0212089 021208C	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach Bypass 3 Cor Art from Cor Art with Cooplastic, Open Approach Bypass 3 Cor Art from R Int Mammary w Zooplastic, Open Bypass 3 Cor Art from L Int Mammary w Zooplastic, Open Bypass 3 Cor Art from L Int Mammary w Zooplastic, Open Bypass 3 Cor Art from Thor Art w Zooplastic, Open
02104K3 02104K8 02104K9 02104KC 02104KF 02104Z3 02104Z8 02104Z9 02104ZC 02104ZF 0211083 0211088 0211089 021108C	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from R Int Mammary, Perc Endo Approach Bypass 1 Cor Art from L Int Mammary, Perc Endo Approach Bypass 1 Cor Art from Thor Art, Perc Endo Approach Bypass 1 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 2 Cor Art from R Int Mammary w Zooplastic, Open Bypass 2 Cor Art from L Int Mammary w Zooplastic, Open Bypass 2 Cor Art from L Int Mammary w Zooplastic, Open Bypass 2 Cor Art from Thor Art w t Zooplastic, Open	02114JW 02114K3 02114K9 02114KC 02114KF 02114KW 02114Z3 02114Z8 02114Z9 02114ZC 02114ZF 0212083 0212088 0212089 021208C 021208F	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach Bypass 3 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 3 Cor Art from R Int Mammary w Zooplastic, Open Bypass 3 Cor Art from Thor Art w Zooplastic, Open Bypass 3 Cor Art from Thor Art w Zooplastic, Open Bypass 3 Cor Art from Thor Art w Zooplastic, Open Bypass 3 Cor Art from Thor Art w Zooplastic, Open Bypass 3 Cor Art from Abd Art with Zooplastic, Open Approach
02104K3 02104K8 02104K9 02104KC 02104KW 02104Z3 02104Z8 02104Z9 02104ZC 02104ZF 0211083 0211088 0211089 021108C	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from K Int Mammary, Perc Endo Approach Bypass 1 Cor Art from L Int Mammary, Perc Endo Approach Bypass 1 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 2 Cor Art from R Int Mammary w Zooplastic, Open Bypass 2 Cor Art from Thor Art w Zooplastic, Open Bypass 2 Cor Art from Thor Art w Zooplastic, Open Bypass 2 Cor Art from Thor Art w Zooplastic, Open Bypass 2 Cor Art from Thor Art w Zooplastic, Open	02114JW 02114K3 02114K8 02114KP 02114KF 02114KF 02114Z3 02114Z8 02114Z9 02114ZC 02114ZF 0212083 0212088 0212089 021208C 021208F 021208W	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 3 Cor Art from Abd Art, Perc Endo Approach Bypass 3 Cor Art from R Int Mammary w Zooplastic, Open Bypass 3 Cor Art from L Int Mammary w Zooplastic, Open Bypass 3 Cor Art from Thor Art with Zooplastic, Open Bypass 3 Cor Art from Abd Art with Zooplastic, Open Bypass 3 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 3 Cor Art from Abd Art with Zooplastic, Open Approach
02104K3 02104K8 02104K9 02104KC 02104KF 02104Z3 02104Z8 02104Z9 02104ZF 02104ZF 02104ZF 021108S 021108B 021108C 021108F 021108W	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from L Int Mammary, Perc Endo Approach Bypass 1 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 2 Cor Art from L Int Mammary w Zooplastic, Open Bypass 2 Cor Art from Thor Art w Zooplastic, Open Bypass 2 Cor Art from Thor Art w Zooplastic, Open Bypass 2 Cor Art from Thor Art w Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 2 Cor Art from Abd Art with Zooplastic, Open Approach	02114JW 02114K3 02114K9 02114KC 02114KF 02114KW 02114Z3 02114Z3 02114Z9 02114Z9 02114ZF 0212083 0212088 0212089 021208C 021208F 021208W 0212099	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from L Int Mammary, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 3 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 3 Cor Art from R Int Mammary w Zooplastic, Open Bypass 3 Cor Art from L Int Mammary w Zooplastic, Open Bypass 3 Cor Art from Abd Art with Zooplastic, Open Bypass 3 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 3 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 3 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 3 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 3 Cor Art from Cor Art with Autol Vn, Open Approach
02104K3 02104K8 02104K9 02104KC 02104KF 02104Z3 02104Z8 02104Z9 02104ZC 02104ZF 02104ZF 021108S 0211089 021108C 021108W 0211093	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from Thor Art, Perc Endo Approach Bypass 1 Cor Art from Thor Art, Perc Endo Approach Bypass 1 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary w Zooplastic, Open Bypass 2 Cor Art from L Int Mammary w Zooplastic, Open Bypass 2 Cor Art from Thor Art w Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 2 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 2 Cor Art from Aorta with Zooplastic, Open Approach Bypass 2 Cor Art from Aorta with Zooplastic, Open Approach Bypass 2 Cor Art from Cor Art with Autol Vn, Open Approach	02114JW 02114K3 02114K9 02114KP 02114KF 02114KF 02114Z3 02114Z8 02114Z9 02114ZC 02114ZC 02114ZF 0212088 0212088 021208C 021208C 021208W 0212098 0212098	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach Bypass 3 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 3 Cor Art from L Int Mammary w Zooplastic, Open Bypass 3 Cor Art from Thor Art w Zooplastic, Open Bypass 3 Cor Art from Thor Art w Zooplastic, Open Bypass 3 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 3 Cor Art from Aorta with Zooplastic, Open Approach Bypass 3 Cor Art from Cor Art with Autol Vn, Open Approach Bypass 3 Cor Art from Cor Art with Autol Vn, Open Approach Bypass 3 Cor Art from R Int Mammary w Autol Vn, Open
02104K3 02104K8 02104K9 02104KC 02104KF 02104Z3 02104Z8 02104Z9 02104ZC 02104ZC 02104ZF 021108S 0211088 021108C 021108F 021108W 0211098	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from R Int Mammary, Perc Endo Approach Bypass 1 Cor Art from Thor Art, Perc Endo Approach Bypass 1 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 2 Cor Art from L Int Mammary w Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 2 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 2 Cor Art from Aorta with Zooplastic, Open Approach Bypass 2 Cor Art from Aorta with Zooplastic, Open Approach Bypass 2 Cor Art from Cor Art with Autol Vn, Open Approach Bypass 2 Cor Art from R Int Mammary w Autol Vn, Open	02114JW 02114K3 02114K8 02114KP 02114KF 02114KF 02114Z3 02114Z8 02114Z9 02114ZC 02114ZC 02114ZC 02114ZC 0212083 0212088 0212089 021208C 021208C 021208W 0212093 0212098 0212099	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach Bypass 3 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 3 Cor Art from L Int Mammary w Zooplastic, Open Bypass 3 Cor Art from Thor Art w Zooplastic, Open Bypass 3 Cor Art from Thor Art w Zooplastic, Open Bypass 3 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 3 Cor Art from Aorta with Zooplastic, Open Approach Bypass 3 Cor Art from Aorta with Zooplastic, Open Approach Bypass 3 Cor Art from R Int Mammary w Autol Vn, Open Approach Bypass 3 Cor Art from R Int Mammary w Autol Vn, Open Bypass 3 Cor Art from L Int Mammary w Autol Vn, Open
02104K3 02104K8 02104K9 02104KC 02104KF 02104Z3 02104Z8 02104Z9 02104ZF 02104ZF 021108S 021108S 021108C 021108W 0211093 0211099	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from R Int Mammary, Perc Endo Approach Bypass 1 Cor Art from L Int Mammary, Perc Endo Approach Bypass 1 Cor Art from Thor Art, Perc Endo Approach Bypass 1 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 2 Cor Art from L Int Mammary w Zooplastic, Open Bypass 2 Cor Art from Thor Art w Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Bypass 2 Cor Art from Aorta with Zooplastic, Open Approach Bypass 2 Cor Art from Aorta with Zooplastic, Open Approach Bypass 2 Cor Art from Cor Art with Autol Vn, Open Approach Bypass 2 Cor Art from Cor Art with Autol Vn, Open Approach Bypass 2 Cor Art from R Int Mammary w Autol Vn, Open Bypass 2 Cor Art from Int Mammary w Autol Vn, Open Bypass 2 Cor Art from Int Mammary w Autol Vn, Open	02114JW 02114K3 02114K9 02114KC 02114KF 02114KF 02114Z3 02114Z8 02114Z8 02114Z9 02114ZC 02114ZF 0212083 0212088 0212089 021208C 021208F 021209W 0212093 0212099 0212099 0212099	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach Bypass 3 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 3 Cor Art from R Int Mammary w Zooplastic, Open Bypass 3 Cor Art from Thor Art w Zooplastic, Open Bypass 3 Cor Art from Abd Art with Zooplastic, Open Bypass 3 Cor Art from Abd Art with Zooplastic, Open Bypass 3 Cor Art from Aorta with Zooplastic, Open Approach Bypass 3 Cor Art from Aorta with Zooplastic, Open Approach Bypass 3 Cor Art from Aorta with Zooplastic, Open Approach Bypass 3 Cor Art from R Int Mammary w Autol Vn, Open Approach Bypass 3 Cor Art from R Int Mammary w Autol Vn, Open Bypass 3 Cor Art from L Int Mammary w Autol Vn, Open Bypass 3 Cor Art from L Int Mammary w Autol Vn, Open Bypass 3 Cor Art from L Int Mammary w Autol Vn, Open Bypass 3 Cor Art from Thor Art with Autol Vn, Open Approach
02104K3 02104K8 02104K9 02104KC 02104KF 02104Z3 02104Z3 02104Z9 02104ZF 02104ZF 02104ZF 02108S 0211088 021108C 021108F 021109W 0211098 0211098 0211099 0211099	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from R Int Mammary, Perc Endo Approach Bypass 1 Cor Art from L Int Mammary, Perc Endo Approach Bypass 1 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Kor Art with Zooplastic, Open Bypass 2 Cor Art from Thor Art w Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 2 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 2 Cor Art from Cor Art with Autol Vn, Open Approach Bypass 2 Cor Art from Cor Art with Autol Vn, Open Bypass 2 Cor Art from L Int Mammary w Autol Vn, Open Bypass 2 Cor Art from L Int Mammary w Autol Vn, Open Bypass 2 Cor Art from L Int Mammary w Autol Vn, Open Bypass 2 Cor Art from L Int Mammary w Autol Vn, Open Bypass 2 Cor Art from Thor Art with Autol Vn, Open Bypass 2 Cor Art from Thor Art with Autol Vn, Open	02114JW 02114K3 02114K8 02114KC 02114KF 02114KW 02114Z3 02114Z8 02114Z9 02114ZF 02114ZF 0212088 0212088 0212089 021208C 021208F 0212098 0212099 0212099 0212099 0212099 0212095	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 3 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 3 Cor Art from R Int Mammary w Zooplastic, Open Bypass 3 Cor Art from Thor Art with Zooplastic, Open Bypass 3 Cor Art from Thor Art with Zooplastic, Open Bypass 3 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 3 Cor Art from Art with Zooplastic, Open Approach Bypass 3 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 3 Cor Art from Cor Art with Autol Vn, Open Approach Bypass 3 Cor Art from C Int Mammary w Autol Vn, Open Bypass 3 Cor Art from C Int Mammary w Autol Vn, Open Bypass 3 Cor Art from L Int Mammary w Autol Vn, Open Bypass 3 Cor Art from Thor Art with Autol Vn, Open Bypass 3 Cor Art from Thor Art with Autol Vn, Open Bypass 3 Cor Art from Thor Art with Autol Vn, Open Approach Bypass 3 Cor Art from Thor Art with Autol Vn, Open Approach Bypass 3 Cor Art from Thor Art with Autol Vn, Open Approach
02104K3 02104K8 02104K9 02104KC 02104KF 02104Z3 02104Z8 02104Z9 02104ZF 02104ZF 021108S 021108S 021108C 021108W 0211093 0211099	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from R Int Mammary, Perc Endo Approach Bypass 1 Cor Art from L Int Mammary, Perc Endo Approach Bypass 1 Cor Art from Thor Art, Perc Endo Approach Bypass 1 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 2 Cor Art from L Int Mammary w Zooplastic, Open Bypass 2 Cor Art from Thor Art w Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Bypass 2 Cor Art from Aorta with Zooplastic, Open Approach Bypass 2 Cor Art from Aorta with Zooplastic, Open Approach Bypass 2 Cor Art from Cor Art with Autol Vn, Open Approach Bypass 2 Cor Art from Cor Art with Autol Vn, Open Approach Bypass 2 Cor Art from R Int Mammary w Autol Vn, Open Bypass 2 Cor Art from Int Mammary w Autol Vn, Open Bypass 2 Cor Art from Int Mammary w Autol Vn, Open	02114JW 02114K3 02114K9 02114KC 02114KF 02114KF 02114Z3 02114Z8 02114Z8 02114Z9 02114ZC 02114ZF 0212083 0212088 0212089 021208C 021208F 021209W 0212093 0212099 0212099 0212099	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 3 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 3 Cor Art from R Int Mammary w Zooplastic, Open Bypass 3 Cor Art from Thor Art w Zooplastic, Open Bypass 3 Cor Art from Thor Art w Zooplastic, Open Bypass 3 Cor Art from Abd Art with Zooplastic, Open Bypass 3 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 3 Cor Art from Art w Zooplastic, Open Approach Bypass 3 Cor Art from Art w With Zooplastic, Open Approach Bypass 3 Cor Art from R Int Mammary w Autol Vn, Open Approach Bypass 3 Cor Art from R Int Mammary w Autol Vn, Open Bypass 3 Cor Art from L Int Mammary w Autol Vn, Open Bypass 3 Cor Art from L Int Mammary w Autol Vn, Open Bypass 3 Cor Art from L Int Mammary w Autol Vn, Open Bypass 3 Cor Art from Thor Art with Autol Vn, Open Approach
02104K3 02104K8 02104K9 02104KC 02104KF 02104Z3 02104Z3 02104Z9 02104ZF 02104ZF 02104ZF 02108S 0211088 021108C 021108F 021109W 0211098 0211098 0211099 0211099	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from R Int Mammary, Perc Endo Approach Bypass 1 Cor Art from L Int Mammary, Perc Endo Approach Bypass 1 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Kor Art with Zooplastic, Open Bypass 2 Cor Art from Thor Art w Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 2 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 2 Cor Art from Cor Art with Autol Vn, Open Approach Bypass 2 Cor Art from Cor Art with Autol Vn, Open Bypass 2 Cor Art from L Int Mammary w Autol Vn, Open Bypass 2 Cor Art from L Int Mammary w Autol Vn, Open Bypass 2 Cor Art from L Int Mammary w Autol Vn, Open Bypass 2 Cor Art from L Int Mammary w Autol Vn, Open Bypass 2 Cor Art from Thor Art with Autol Vn, Open Bypass 2 Cor Art from Thor Art with Autol Vn, Open	02114JW 02114K3 02114K8 02114KC 02114KF 02114KW 02114Z3 02114Z8 02114Z9 02114ZF 02114ZF 0212088 0212088 0212089 021208C 021208F 0212098 0212099 0212099 0212099 0212099 0212095	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 3 Cor Art from Abd Art, Perc Endo Approach Bypass 3 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 3 Cor Art from R Int Mammary w Zooplastic, Open Bypass 3 Cor Art from Thor Art with Zooplastic, Open Bypass 3 Cor Art from Abd Art with Zooplastic, Open Bypass 3 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 3 Cor Art from Aorta with Zooplastic, Open Approach Bypass 3 Cor Art from Cor Art with Autol Vn, Open Approach Bypass 3 Cor Art from C Int Mammary w Autol Vn, Open Bypass 3 Cor Art from C Int Mammary w Autol Vn, Open Bypass 3 Cor Art from Thor Art with Autol Vn, Open Bypass 3 Cor Art from Thor Art with Autol Vn, Open Bypass 3 Cor Art from Thor Art with Autol Vn, Open Bypass 3 Cor Art from Thor Art with Autol Vn, Open Approach Bypass 3 Cor Art from Thor Art with Autol Vn, Open Approach
02104K3 02104K8 02104K8 02104KC 02104KF 02104KW 02104Z3 02104Z9 02104Z9 02104ZF 02104ZF 0211088 0211088 021108C 021108F 021108W 0211093 0211099 0211099 0211099 0211095	Bypass 1 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 1 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 1 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 1 Cor Art from Cor Art, Perc Endo Approach Bypass 1 Cor Art from L Int Mammary, Perc Endo Approach Bypass 1 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Abd Art, Perc Endo Approach Bypass 2 Cor Art from Cor Art with Zooplastic, Open Approach Bypass 2 Cor Art from L Int Mammary w Zooplastic, Open Bypass 2 Cor Art from Thor Art w Zooplastic, Open Bypass 2 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 2 Cor Art from Aorta with Zooplastic, Open Approach Bypass 2 Cor Art from R Int Mammary w Autol Vn, Open Approach Bypass 2 Cor Art from R Int Mammary w Autol Vn, Open Bypass 2 Cor Art from L Int Mammary w Autol Vn, Open Bypass 2 Cor Art from L Int Mammary w Autol Vn, Open Bypass 2 Cor Art from L Int Mammary w Autol Vn, Open Bypass 2 Cor Art from Thor Art with Autol Vn, Open Approach Bypass 2 Cor Art from Thor Art with Autol Vn, Open Approach Bypass 2 Cor Art from Thor Art with Autol Vn, Open Approach Bypass 2 Cor Art from Thor Art with Autol Vn, Open Approach Bypass 2 Cor Art from Thor Art with Autol Vn, Open Approach	02114JW 02114K3 02114K8 02114KP 02114KF 02114KW 02114Z3 02114Z8 02114Z9 02114ZF 02114ZF 0212088 0212088 0212089 021208C 021208F 0212099 0212099 0212099 0212099 021209F 021209F 021209F 021209F 021209F	Bypass 2 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 2 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 2 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 2 Cor Art from Cor Art, Perc Endo Approach Bypass 2 Cor Art from R Int Mammary, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 2 Cor Art from Thor Art, Perc Endo Approach Bypass 3 Cor Art from Abd Art, Perc Endo Approach Bypass 3 Cor Art from R Int Mammary w Zooplastic, Open Bypass 3 Cor Art from R Int Mammary w Zooplastic, Open Bypass 3 Cor Art from Thor Art with Zooplastic, Open Bypass 3 Cor Art from Abd Art with Zooplastic, Open Approach Bypass 3 Cor Art from Aorta with Zooplastic, Open Approach Bypass 3 Cor Art from Cor Art with Autol Vn, Open Approach Bypass 3 Cor Art from Cor Art with Autol Vn, Open Bypass 3 Cor Art from L Int Mammary w Autol Vn, Open Bypass 3 Cor Art from Cor Art with Autol Vn, Open Approach Bypass 3 Cor Art from Thor Art with Autol Vn, Open Approach Bypass 3 Cor Art from Thor Art with Autol Vn, Open Approach Bypass 3 Cor Art from Abd Art with Autol Vn, Open Approach Bypass 3 Cor Art from Abd Art with Autol Vn, Open Approach Bypass 3 Cor Art from Abd Art with Autol Vn, Open Approach Bypass 3 Cor Art from Abd Art with Autol Vn, Open Approach Bypass 3 Cor Art from Abd Art with Autol Vn, Open Approach Bypass 3 Cor Art from Abd Art with Autol Vn, Open Approach Bypass 3 Cor Art from Abd Art with Autol Vn, Open Approach Bypass 3 Cor Art from Abd Art with Autol Vn, Open Approach

02120A9	Bypass 3 Cor Art from L Int Mammary w Autol Art, Open
02120AC	Bypass 3 Cor Art from Thor Art with Autol Art, Open Approach
02120AF	Bypass 3 Cor Art from Abd Art with Autol Art, Open Approach
02120AW	Bypass 3 Cor Art from Aorta with Autol Art, Open Approach
02120J3	Bypass 3 Cor Art from Cor Art with Synth Sub, Open Approach
02120J8	Bypass 3 Cor Art from R Int Mammary w Synth Sub, Open
02120J9	Bypass 3 Cor Art from L Int Mammary w Synth Sub, Open
02120JC	Bypass 3 Cor Art from Thor Art with Synth Sub, Open Approach
02120JF	Bypass 3 Cor Art from Abd Art with Synth Sub, Open Approach
02120JW	Bypass 3 Cor Art from Aorta with Synth Sub, Open Approach
02120K3	Bypass 3 Cor Art from Cor Art with Nonaut Sub, Open Approach
02120K8	Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Open
02120K9	Bypass 3 Cor Art from L Int Mammary w Nonaut Sub, Open
02120KC	Bypass 3 Cor Art from Thor Art w Nonaut Sub, Open
02120KF	Bypass 3 Cor Art from Abd Art with Nonaut Sub, Open Approach
02120KW	Bypass 3 Cor Art from Aorta with Nonaut Sub, Open Approach
02120Z3	Bypass 3 Cor Art from Cor Art, Open Approach
02120Z8	Bypass 3 Cor Art from R Int Mammary, Open Approach
02120Z9	Bypass 3 Cor Art from L Int Mammary, Open Approach
02120ZC	Bypass 3 Cor Art from Thor Art, Open Approach
02120ZF	Bypass 3 Cor Art from Abd Art, Open Approach
0212344	Bypass 3 Cor Art from Cor V w Drug-elut Intra, Perc
02123D4	Bypass 3 Cor Art from Cor V with Intralum Dev, Perc Approach
0212444	Bypass 3 Cor Art from Cor V w Drug-elut Intra, Perc Endo
0212483	Bypass 3 Cor Art from Cor Art w Zooplastic, Perc Endo
0212488	Bypass 3 Cor Art from R Int Mammary w Zooplastic, Perc Endo
0212489	Bypass 3 Cor Art from L Int Mammary w Zooplastic, Perc Endo
021248C	Bypass 3 Cor Art from Thor Art w Zooplastic, Perc Endo
021248F	Bypass 3 Cor Art from Abd Art w Zooplastic, Perc Endo
021248W	Bypass 3 Cor Art from Aorta w Zooplastic, Perc Endo
0212493	Bypass 3 Cor Art from Cor Art w Autol Vn, Perc Endo
0212498	Bypass 3 Cor Art from R Int Mammary w Autol Vn, Perc Endo
0212499	Bypass 3 Cor Art from L Int Mammary w Autol Vn, Perc Endo
021249C	Bypass 3 Cor Art from Thor Art w Autol Vn, Perc Endo
021249F	Bypass 3 Cor Art from Abd Art w Autol Vn, Perc Endo
021249W	Bypass 3 Cor Art from Aorta w Autol Vn, Perc Endo
02124A3	Bypass 3 Cor Art from Cor Art w Autol Art, Perc Endo
	Division 2 Court Authorize Divit Management Vivital Auth Davis Foods
02124A8	Bypass 3 Cor Art from R Int Mammary w Autol Art, Perc Endo
02124A9	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo
02124A9 02124AC	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo
02124A9 02124AC 02124AF	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo
02124A9 02124AC 02124AF 02124AW	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo
02124A9 02124AC 02124AF 02124AW 02124D4	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo
02124A9 02124AC 02124AF 02124AW 02124D4 02124J3	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo
02124A9 02124AC 02124AF 02124AW 02124D4 02124J3 02124J8	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo
02124A9 02124AC 02124AF 02124AW 02124D4 02124J3 02124J8 02124J9	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Synth Sub, Perc Endo
02124A9 02124AC 02124AF 02124AW 02124D4 02124J3 02124J8	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo
02124A9 02124AC 02124AF 02124AW 02124D4 02124J3 02124J8 02124J9 02124JC	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo
02124A9 02124AC 02124AF 02124AW 02124D4 02124J3 02124J8 02124J9 02124JC 02124JF	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo
02124A9 02124AC 02124AF 02124AW 02124D4 02124J3 02124J8 02124J9 02124JC 02124JF 02124JW	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Cor Art w Nonaut Sub, Perc Endo
02124A9 02124AC 02124AF 02124AW 02124D4 02124J3 02124J8 02124J9 02124JC 02124JF 02124JW 02124JW	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo
02124A9 02124AC 02124AF 02124AW 02124D4 02124J3 02124J8 02124J9 02124JC 02124JF 02124JF 02124JW 02124K3	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo
02124A9 02124AC 02124AF 02124AW 02124D4 02124J3 02124J8 02124J9 02124JC 02124JF 02124JW 02124K3 02124K8	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo
02124A9 02124AC 02124AF 02124AW 02124D4 02124J3 02124J8 02124JC 02124JF 02124JF 02124JW 02124K3 02124K3 02124K9 02124KC	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Nonaut Sub, Perc Endo
02124A9 02124AC 02124AF 02124AW 02124D4 02124J3 02124J8 02124JC 02124JF 02124JW 02124K3 02124K8 02124K8 02124K9 02124KC	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Cor Art, Perc Endo Approach
02124A9 02124AC 02124AF 02124AW 02124D4 02124J3 02124J8 02124J9 02124JC 02124JF 02124JW 02124K3 02124K8 02124K9 02124KC 02124KF	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Cor Art, Perc Endo Approach Bypass 3 Cor Art from R Int Mammary, Perc Endo Approach
02124A9 02124AC 02124AF 02124AW 02124D4 02124J3 02124J8 02124J9 02124JC 02124JF 02124JW 02124K3 02124K8 02124K9 02124KC 02124KC 02124KF 02124KW	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Cor Art, Perc Endo Approach Bypass 3 Cor Art from R Int Mammary, Perc Endo Approach Bypass 3 Cor Art from L Int Mammary, Perc Endo Approach
02124A9 02124AC 02124AF 02124AW 02124D4 02124J3 02124J8 02124JC 02124JF 02124JW 02124K3 02124K8 02124K9 02124KC 02124KF 02124KW 02124Z3 02124Z3 02124Z3 02124Z3 02124Z3	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary, Perc Endo Bypass 3 Cor Art from R Int Mammary, Perc Endo Approach Bypass 3 Cor Art from L Int Mammary, Perc Endo Approach Bypass 3 Cor Art from L Int Mammary, Perc Endo Approach Bypass 3 Cor Art from Thor Art, Perc Endo Approach
02124A9 02124AC 02124AF 02124AW 02124D4 02124J8 02124J9 02124JC 02124JF 02124JF 02124JW 02124K3 02124K8 02124K9 02124KC 02124KF 02124KW 02124Z3 02124Z8 02124Z8 02124Z8	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Cor Art, Perc Endo Approach Bypass 3 Cor Art from I Int Mammary, Perc Endo Approach Bypass 3 Cor Art from Thor Art, Perc Endo Approach Bypass 3 Cor Art from Thor Art, Perc Endo Approach Bypass 3 Cor Art from Abd Art, Perc Endo Approach
02124A9 02124AC 02124AF 02124AW 02124D4 02124J3 02124J8 02124J9 02124JC 02124JF 02124JW 02124KS 02124K8 02124KC 02124KC 02124KC 02124KW 02124Z3 02124Z8 02124Z8 02124Z8 02124Z8 02124Z9 02124Z9 02124ZC 02124ZF 02124ZF	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary, Perc Endo Approach Bypass 3 Cor Art from Thor Art, Perc Endo Approach Bypass 4 Cor Art from Cor Art w Zooplastic, Open
02124A9 02124AC 02124AF 02124AW 02124D4 02124J8 02124J9 02124JC 02124JF 02124JF 02124K8 02124K8 02124K8 02124KC 02124KC 02124KF 02124C 02124Z8 02124Z9 02124Z9 02124Z9 02124ZC 02124ZC 02124ZC 02124ZC 02124ZC 02124ZC 02124ZC	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Cor Art, Perc Endo Approach Bypass 3 Cor Art from R Int Mammary, Perc Endo Approach Bypass 3 Cor Art from Abd Art, Perc Endo Approach Bypass 3 Cor Art from Abd Art, Perc Endo Approach Bypass 3 Cor Art from Cor Art w Zooplastic, Open Bypass 4+ Cor Art from Cor Art w Zooplastic, Open
02124A9 02124AC 02124AF 02124AW 02124J3 02124J8 02124J9 02124JG 02124JF 02124JF 02124K8 02124K8 02124K9 02124KC 02124KF 02124KF 02124Z3 02124Z9 02124Z9 02124Z9 02124Z7 02124ZF 02124ZF 0213083 0213088	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary, Perc Endo Approach Bypass 3 Cor Art from Abd Art, Perc Endo Approach Bypass 3 Cor Art from Abd Art, Perc Endo Approach Bypass 4+ Cor Art from R Int Mammary w Zooplastic, Open Bypass 4+ Cor Art from L Int Mammary w Zooplastic, Open
02124A9 02124AC 02124AF 02124AW 02124J3 02124J8 02124J9 02124JC 02124JF 02124JF 02124K8 02124K8 02124K9 02124KC 02124KC 02124KW 02124KW 02124Z3 02124Z9 02124Z7 02124Z7 02124Z7 02124Z7 02124Z7 02124Z7 02124Z7 0213083 0213088 021308C	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Add Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Thor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art, Perc Endo Approach Bypass 3 Cor Art from Thor Art, Perc Endo Approach Bypass 3 Cor Art from Thor Art, Perc Endo Approach Bypass 3 Cor Art from Abd Art, Perc Endo Approach Bypass 4 Cor Art from Cor Art w Zooplastic, Open Bypass 4 Cor Art from L Int Mammary w Zooplastic, Open Bypass 4 + Cor Art from L Int Mammary w Zooplastic, Open Bypass 4 + Cor Art from L Int Mammary w Zooplastic, Open
02124A9 02124AC 02124AF 02124AW 02124D4 02124J8 02124J9 02124JF 02124JF 02124JF 02124JW 02124K3 02124K8 02124K9 02124KC 02124KF 02124KW 02124Z3 02124Z8 02124Z8 02124Z8 02124Z9 02124ZC 02124ZF 0213083 0213088 021308F	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary, Perc Endo Bypass 3 Cor Art from R Int Mammary, Perc Endo Approach Bypass 3 Cor Art from L Int Mammary, Perc Endo Approach Bypass 3 Cor Art from Thor Art, Perc Endo Approach Bypass 3 Cor Art from Abd Art, Perc Endo Approach Bypass 3 Cor Art from Cor Art, Perc Endo Approach Bypass 4 Cor Art from Cor Art, Perc Endo Approach Bypass 4 Cor Art from Cor Art w Zooplastic, Open Bypass 4 Cor Art from L Int Mammary w Zooplastic, Open Bypass 4 + Cor Art from Thor Art w Zooplastic, Open Bypass 4 + Cor Art from Thor Art w Zooplastic, Open Bypass 4 + Cor Art from Thor Art w Zooplastic, Open
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02124A9 02124AC 02124AF 02124AW 02124D4 02124J8 02124J9 02124JC 02124JF 02124JF 02124JW 02124KS 02124KS 02124KS 02124KC 02124KC 02124EC 02124ZF 02124ZZ 02124ZZ 021308S 021308S 021308C 021309S 021309S 021309S 021309C 021309W 02130A3	Bypass 3 Cor Art from L Int Mammary w Autol Art, Perc Endo Bypass 3 Cor Art from Thor Art w Autol Art, Perc Endo Bypass 3 Cor Art from Abd Art w Autol Art, Perc Endo Bypass 3 Cor Art from Aorta w Autol Art, Perc Endo Bypass 3 Cor Art from Cor V w Intralum Dev, Perc Endo Bypass 3 Cor Art from Cor Art w Synth Sub, Perc Endo Bypass 3 Cor Art from R Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Synth Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Aorta w Synth Sub, Perc Endo Bypass 3 Cor Art from Cor Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from L Int Mammary w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Abd Art w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Aorta w Nonaut Sub, Perc Endo Bypass 3 Cor Art from Cor Art, Perc Endo Approach Bypass 3 Cor Art from R Int Mammary, Perc Endo Approach Bypass 3 Cor Art from L Int Mammary, Perc Endo Approach Bypass 3 Cor Art from Cor Art w Zooplastic, Open Bypass 4+ Cor Art from Cor Art w Zooplastic, Open Bypass 4+ Cor Art from Thor Art w Zooplastic, Open Bypass 4+ Cor Art from Abd Art w Zooplastic, Open Bypass 4+ Cor Art from L Int Mammary w Zooplastic, Open Bypass 4+ Cor Art from Aorta with Zooplastic, Open Bypass 4+ Cor Art from Aorta with Zooplastic, Open Bypass 4+ Cor Art from Cor Art w Zooplastic, Open Bypass 4+ Cor Art from Aorta with Autol Vn, Open Approach Bypass 4+ Cor Art from Cor Art with Autol Vn, Open Approach Bypass 4+ Cor Art from Aorta with Autol Vn, Open Approach Bypass 4+ Cor Art from Aorta with Autol Vn, Open Approach Bypass 4+ Cor Art from Aorta with Autol Vn, Open Approach Bypass 4+ Cor Art from Aorta with Autol Vn, Open
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02130AF	Bypass 4+ Cor Art from Abd Art with Autol Art, Open Approach
02130AW	Bypass 4+ Cor Art from Aorta with Autol Art, Open Approach
02130J3	Bypass 4+ Cor Art from Cor Art with Synth Sub, Open Approach
02130J8	Bypass 4+ Cor Art from R Int Mammary w Synth Sub, Open
02130J9	Bypass 4+ Cor Art from L Int Mammary w Synth Sub, Open
02130JC	Bypass 4+ Cor Art from Thor Art w Synth Sub, Open
02130JF	Bypass 4+ Cor Art from Abd Art with Synth Sub, Open Approach
02130JW	Bypass 4+ Cor Art from Aorta with Synth Sub, Open Approach
02130K3	Bypass 4+ Cor Art from Cor Art w Nonaut Sub, Open
02130K8	Bypass 4+ Cor Art from R Int Mammary w Nonaut Sub, Open
02130K9	Bypass 4+ Cor Art from L Int Mammary w Nonaut Sub, Open
02130KC	Bypass 4+ Cor Art from Thor Art w Nonaut Sub, Open
02130KF	Bypass 4+ Cor Art from Abd Art w Nonaut Sub, Open
02130KW	Bypass 4+ Cor Art from Aorta with Nonaut Sub, Open Approach
02130Z3	Bypass 4+ Cor Art from Cor Art, Open Approach
02130Z8	Bypass 4+ Cor Art from R Int Mammary, Open Approach
02130Z9	Bypass 4+ Cor Art from L Int Mammary, Open Approach
02130ZC	Bypass 4+ Cor Art from Thor Art, Open Approach
02130ZF	Bypass 4+ Cor Art from Abd Art, Open Approach
0213344	Bypass 4+ Cor Art from Cor V w Drug-elut Intra, Perc
02133D4	Bypass 4+ Cor Art from Cor V w Intralum Dev, Perc
0213444	Bypass 4+ Cor Art from Cor V w Drug-elut Intra, Perc Endo
0213483	Bypass 4+ Cor Art from Cor Art w Zooplastic, Perc Endo
0213488	Bypass 4+ Cor Art from R Int Mammary w Zooplastic, Perc Endo
0213489	Bypass 4+ Cor Art from L Int Mammary w Zooplastic, Perc Endo
021348C	Bypass 4+ Cor Art from Thor Art w Zooplastic, Perc Endo
021348F	Bypass 4+ Cor Art from Abd Art w Zooplastic, Perc Endo
021348W	Bypass 4+ Cor Art from Aorta w Zooplastic, Perc Endo
0213493	Bypass 4+ Cor Art from Cor Art w Autol Vn, Perc Endo
0213498	Bypass 4+ Cor Art from R Int Mammary w Autol Vn, Perc Endo
0213499	Bypass 4+ Cor Art from L Int Mammary w Autol Vn, Perc Endo
021349C	Bypass 4+ Cor Art from Thor Art w Autol Vn, Perc Endo
021349F	Bypass 4+ Cor Art from Abd Art w Autol Vn, Perc Endo
021349W	Bypass 4+ Cor Art from Aorta w Autol Vn, Perc Endo
02134A3	Bypass 4+ Cor Art from Cor Art w Autol Art, Perc Endo
02134A8	Bypass 4+ Cor Art from R Int Mammary w Autol Art, Perc Endo
02134A9	Bypass 4+ Cor Art from L Int Mammary w Autol Art, Perc Endo
02134AC	Bypass 4+ Cor Art from Thor Art w Autol Art, Perc Endo
02134AF	Bypass 4+ Cor Art from Abd Art w Autol Art, Perc Endo
02134AW	Bypass 4+ Cor Art from Aorta w Autol Art, Perc Endo
02134D4	Bypass 4+ Cor Art from Cor V w Intralum Dev, Perc Endo
02134J3	Bypass 4+ Cor Art from Cor Art w Synth Sub, Perc Endo
02134J8	Bypass 4+ Cor Art from R Int Mammary w Synth Sub, Perc Endo
02134J9	Bypass 4+ Cor Art from L Int Mammary w Synth Sub, Perc Endo
02134JC	Bypass 4+ Cor Art from Thor Art w Synth Sub, Perc Endo
02134JF	Bypass 4+ Cor Art from Abd Art w Synth Sub, Perc Endo
02134JW	Bypass 4+ Cor Art from Aorta w Synth Sub, Perc Endo
02134K3	Bypass 4+ Cor Art from Cor Art w Nonaut Sub, Perc Endo
02134K8	Bypass 4+ Cor Art from R Int Mammary w Nonaut Sub, Perc Endo
02134K9	Bypass 4+ Cor Art from L Int Mammary w Nonaut Sub, Perc Endo
02134KC	Bypass 4+ Cor Art from Thor Art w Nonaut Sub, Perc Endo
02134KF	Bypass 4+ Cor Art from Abd Art w Nonaut Sub, Perc Endo
02134KW	Bypass 4+ Cor Art from Aorta w Nonaut Sub, Perc Endo  Bypass 4+ Cor Art from Cor Art Boro Endo Approach
02134Z3	Bypass 4+ Cor Art from Cor Art, Perc Endo Approach
02134Z8	Bypass 4+ Cor Art from R Int Mammary, Perc Endo Approach
02134Z9 02134ZC	Bypass 4+ Cor Art from L Int Mammary, Perc Endo Approach Bypass 4+ Cor Art from Thor Art, Perc Endo Approach
02134ZC 02134ZF	Bypass 4+ Cor Art from Abd Art, Perc Endo Approach
UZ134ZF	bypass +- Col Alt Holli Abu Alt, Perc Elido Approach

02130AC Bypass 4+ Cor Art from Thor Art w Autol Art, Open

## HIP FRACTURE (HIF)

Urgent episodes (Circ. Admission = Urgent) with main diagnosis of hip fracture that have been operated.

## Femur fracture diagnosis codes

S72.001A	Fracture of unsp part of neck of right femur, init
S72.001B	Fx unsp part of neck of r femur, init for opn fx type I/2
S72.001C	Fx unsp part of neck of r femur, init for opn fx type 3A/B/C
S72.002A	Fracture of unsp part of neck of left femur, init
S72.002B	Fx unsp part of neck of left femur, init for opn fx type I/2
S72.002C	Fx unsp part of neck of I femur, init for opn fx type 3A/B/C
S72.009A	Fracture of unsp part of neck of unsp femur, init
S72.009B	Fx unsp part of neck of unsp femur, init for opn fx type I/2

S72.009C	Fx unsp part of nk of unsp femr, init for opn fx type 3A/B/C	S72.061C	Displ artic fx head of r femur, init for opn fx type 3A/B/C
S72.011A	Unsp intracapsular fracture of right femur, init for clos fx	S72.062A	Displaced articular fracture of head of left femur, init
S72.011B	Unsp intracap fx right femur, init for opn fx type I/2	S72.062B	Displaced artic fx head of I femur, init for opn fx type I/2
S72.011C	Unsp intracap fx right femur, init for opn fx type 3A/B/C	S72.062C	Displ artic fx head of l femur, init for opn fx type 3A/B/C
S72.012A	Unsp intracapsular fracture of left femur, init for clos fx	S72.063A	Displaced articular fracture of head of unsp femur, init
S72.012B	Unsp intracap fx left femur, init for opn fx type I/2	S72.063B	Displ artic fx head of unsp femur, init for opn fx type I/2
S72.012C	Unsp intracap fx left femur, init for opn fx type 3A/B/C	S72.063C	Displ artic fx head of unsp femr, 7thC
S72.019A	Unsp intracapsular fracture of unsp femur, init for clos fx	S72.064A	Nondisplaced articular fracture of head of right femur, init
S72.019B	Unsp intracap fx unsp femur, init for opn fx type I/2	S72.064B	Nondisp artic fx head of r femur, init for opn fx type I/2
S72.019C	Unsp intracap fx unsp femur, init for opn fx type 3A/B/C	S72.064C	Nondisp artic fx head of r femr, init for opn fx type 3A/B/C
S72.021A	Disp fx of epiphysis (separation) (upper) of r femur, init	S72.065A	Nondisplaced articular fracture of head of left femur, init
S72.021B	Disp fx of epiphy (separation) (upper) of r femr, 7thB	S72.065B	Nondisp artic fx head of I femur, init for opn fx type I/2
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S72.021C	Disp fx of epiphy (separation) (upper) of r femr, 7thC	S72.065C	Nondisp artic fx head of I femr, init for opn fx type 3A/B/C
S72.022A	Disp fx of epiphysis (separation) (upper) of I femur, init	S72.066A	Nondisplaced articular fracture of head of unsp femur, init
S72.022B	Disp fx of epiphy (separation) (upper) of I femr, 7thB	S72.066B	Nondisp artic fx head of unsp femr, init for opn fx type I/2
S72.022C	Disp fx of epiphy (separation) (upper) of l femr, 7thC	S72.066C	Nondisp artic fx head of unsp femr, 7thC
S72.023A	Disp fx of epiphy (separation) (upper) of unsp femur, init	S72.091A	Oth fracture of head and neck of right femur, init
S72.023B	Disp fx of epiphy (separation) (upper) of unsp femr, 7thB	S72.091B	Oth fx head/neck of right femur, init for opn fx type I/2
S72.023C	Disp fx of epiphy (separation) (upper) of unsp femr, 7thC	S72.091C	Oth fx head/neck of right femur, init for opn fx type 3A/B/C
S72.024A	Nondisp fx of epiphy (separation) (upper) of r femur, init	S72.092A	Oth fracture of head and neck of left femur, init
S72.024B	Nondisp fx of epiphy (separation) (upper) of r femr, 7thB	S72.092B	Oth fx head/neck of left femur, init for opn fx type I/2
S72.024C	Nondisp fx of epiphy (separation) (upper) of r femr, 7thC	S72.092C	Oth fx head/neck of left femur, init for opn fx type 3A/B/C
S72.025A	Nondisp fx of epiphy (separation) (upper) of I femur, init	S72.099A	Oth fracture of head and neck of unsp femur, init
S72.025B	Nondisp fx of epiphy (separation) (upper) of l femr, 7thB	S72.099B	Oth fx head/neck of unsp femur, init for opn fx type I/2
			Oth fx head/neck of unsp femur, init for opn fx type 3A/B/C
S72.025C	Nondisp fx of epiphy (separation) (upper) of I femr, 7thC	S72.099C	1 1 21 11
S72.026A	Nondisp fx of epiphy (separation) (upper) of unsp femr, init	S72.101A	Unsp trochanteric fracture of right femur, init for clos fx
S72.026B	Nondisp fx of epiphy (separation) (upper) of unsp femr, 7thB	S72.101B	Unsp trochan fx right femur, init for opn fx type I/2
S72.026C	Nondisp fx of epiphy (separation) (upper) of unsp femr, 7thC	S72.101C	Unsp trochan fx right femur, init for opn fx type 3A/B/C
			, , , , , , , , , , , , , , , , , , , ,
S72.031A	Displaced midcervical fracture of right femur, init	S72.102A	Unsp trochanteric fracture of left femur, init for clos fx
S72.031B	Displaced midcervical fx r femur, init for opn fx type I/2	S72.102B	Unsp trochan fx left femur, init for opn fx type I/2
S72.031C	Displ midcervical fx r femur, init for opn fx type 3A/B/C	S72.102C	Unsp trochan fx left femur, init for opn fx type 3A/B/C
S72.032A	Displaced midcervical fracture of left femur, init	S72.109A	Unsp trochanteric fracture of unsp femur, init for clos fx
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S72.032B	Displaced midcervical fx l femur, init for opn fx type I/2	S72.109B	Unsp trochan fx unsp femur, init for opn fx type I/2
S72.032C	Displ midcervical fx l femur, init for opn fx type 3A/B/C	S72.109C	Unsp trochan fx unsp femur, init for opn fx type 3A/B/C
S72.033A	Displaced midcervical fracture of unsp femur, init	S72.111A	Disp fx of greater trochanter of right femur, init
S72.033B	Displ midcervical fx unsp femur, init for opn fx type I/2	S72.111B	Disp fx of greater trochanter of r femr, 7thB
S72.033C	Displ midcervical fx unsp femur, init for opn fx type 3A/B/C	S72.111C	Disp fx of greater trochanter of r femr, 7thC
S72.034A	Nondisplaced midcervical fracture of right femur, init	S72.112A	Disp fx of greater trochanter of left femur, init
S72.034B	Nondisp midcervical fx right femur, init for opn fx type I/2	S72.112B	Disp fx of greater trochanter of I femr, 7thB
S72.034C	Nondisp midcervical fx r femur, init for opn fx type 3A/B/C	S72.112C	Disp fx of greater trochanter of I femr, 7thC
S72.035A	Nondisplaced midcervical fracture of left femur, init	S72.113A	Disp fx of greater trochanter of unsp femur, init
S72.035B	Nondisp midcervical fx left femur, init for opn fx type I/2	S72.113B	Disp fx of greater trochanter of unsp femr, 7thB
S72.035C	Nondisp midcervical fx I femur, init for opn fx type 3A/B/C	S72.113C	Disp fx of greater trochanter of unsp femr, 7thC
S72.036A	Nondisplaced midcervical fracture of unsp femur, init	S72.114A	Nondisp fx of greater trochanter of right femur, init
S72.036B	Nondisp midcervical fx unsp femur, init for opn fx type I/2	S72.114B	Nondisp fx of greater trochanter of r femr, 7thB
S72.036C	Nondisp midcervical fx unsp femr, 7thC	S72.114C	Nondisp fx of greater trochanter of r femr, 7thC
S72.041A	Disp fx of base of neck of right femur, init for clos fx	S72.115A	Nondisp fx of greater trochanter of left femur, init
S72.041B	Disp fx of base of neck of r femur, init for opn fx type I/2	S72.115B	Nondisp fx of greater trochanter of I femr, 7thB
S72.041C	Disp fx of base of nk of r femr, init for opn fx type 3A/B/C	S72.115C	Nondisp fx of greater trochanter of I femr, 7thC
S72.042A	Disp fx of base of neck of left femur, init for clos fx	S72.116A	Nondisp fx of greater trochanter of unsp femur, init
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S72.042B	Disp fx of base of neck of I femur, init for opn fx type I/2	S72.116B	Nondisp fx of greater trochanter of unsp femr, 7thB
S72.042C	Disp fx of base of nk of I femr, init for opn fx type 3A/B/C	S72.116C	Nondisp fx of greater trochanter of unsp femr, 7thC
S72.043A	Disp fx of base of neck of unsp femur, init for clos fx	S72.121A	Disp fx of lesser trochanter of right femur, init
S72.043B	Disp fx of base of nk of unsp femr, init for opn fx type I/2	S72.121B	Disp fx of less trochanter of r femr, 7thB
S72.043C	Disp fx of base of nk of unsp femr, 7thC		Disp fx of less trochanter of r femr, 7thC
		S72.121C	·
S72.044A	Nondisp fx of base of neck of right femur, init for clos fx	S72.122A	Disp fx of lesser trochanter of left femur, init for clos fx
S72.044B	Nondisp fx of base of nk of r femr, init for opn fx type I/2	S72.122B	Disp fx of less trochanter of I femr, 7thB
S72.044C	Nondisp fx of base of nk of r femr, 7thC	S72.122C	Disp fx of less trochanter of I femr, 7thC
S72.045A	Nondisp fx of base of neck of left femur, init for clos fx	S72.123A	Disp fx of lesser trochanter of unsp femur, init for clos fx
S72.045B	Nondisp fx of base of nk of l femr, init for opn fx type I/2	S72.123B	Disp fx of less trochanter of unsp femr, 7thB
S72.045C	Nondisp fx of base of nk of l femr, 7thC	S72.123C	Disp fx of less trochanter of unsp femr, 7thC
S72.046A	Nondisp fx of base of neck of unsp femur, init for clos fx	S72.124A	Nondisp fx of lesser trochanter of right femur, init
S72.046B	Nondisp fx of base of nk of unsp femr, 7thB	S72.124B	Nondisp fx of less trochanter of r femr, 7thB
	· · · · · · · · · · · · · · · · · · ·		
S72.046C	Nondisp fx of base of nk of unsp femr, 7thC	S72.124C	Nondisp fx of less trochanter of r femr, 7thC
S72.051A	Unsp fracture of head of right femur, init for clos fx	S72.125A	Nondisp fx of lesser trochanter of left femur, init
S72.051B	Unsp fx head of right femur, init for opn fx type I/2	S72.125B	Nondisp fx of less trochanter of I femr, 7thB
S72.051C	Unsp fx head of right femur, init for opn fx type 3A/B/C	S72.125C	Nondisp fx of less trochanter of l femr, 7thC
S72.051C	Unsp fracture of head of left femur, init for clos fx		Nondisp fx of lesser trochanter of unsp femur, init
	·	S72.126A	· · · · · · · · · · · · · · · · · · ·
S72.052B	Unsp fx head of left femur, init for opn fx type I/2	S72.126B	Nondisp fx of less trochanter of unsp femr, 7thB
S72.052C	Unsp fx head of left femur, init for opn fx type 3A/B/C	S72.126C	Nondisp fx of less trochanter of unsp femr, 7thC
S72.059A	Unsp fracture of head of unsp femur, init for clos fx	S72.131A	Displaced apophyseal fracture of right femur, init
S72.059B	Unsp fx head of unsp femur, init for opn fx type I/2	S72.131R	Displaced apophyseal fx r femur, init for opn fx type I/2
S72.059C	Unsp fx head of unsp femur, init for opn fx type 3A/B/C	S72.131C	Displaced apophyseal fx r femur, init for opn fx type 3A/B/C
S72.061A	Displaced articular fracture of head of right femur, init	S72.132A	Displaced apophyseal fracture of left femur, init
S72.061A S72.061B			

S72.132C	Displaced apophyseal fx l femur, init for opn fx type 3A/B/C
S72.133A	Displaced apophyseal fracture of unsp femur, init
S72.133B	Displaced apophyseal fx unsp femur, init for opn fx type I/2
S72.133C	Displ apophyseal fx unsp femur, init for opn fx type 3A/B/C
S72.134A	Nondisplaced apophyseal fracture of right femur, init
S72.134B	Nondisp apophyseal fx right femur, init for opn fx type I/2
S72.134C	Nondisp apophyseal fx r femur, init for opn fx type 3A/B/C
S72.135A	Nondisplaced apophyseal fracture of left femur, init
S72.135B	Nondisp apophyseal fx left femur, init for opn fx type I/2
S72.135C	Nondisp apophyseal fx l femur, init for opn fx type 3A/B/C
S72.136A	Nondisplaced apophyseal fracture of unsp femur, init
S72.136B	Nondisp apophyseal fx unsp femur, init for opn fx type I/2
S72.136C	Nondisp apophyseal fx unsp femr, init for opn fx type 3A/B/C
S72.141A	Displaced intertrochanteric fracture of right femur, init
S72.141B	Displaced intertroch fx r femur, init for opn fx type I/2
S72.141C	Displaced intertroch fx r femur, init for opn fx type 3A/B/C
S72.142A	Displaced intertrochanteric fracture of left femur, init
S72.142B	Displaced intertroch fx left femur, init for opn fx type I/2
S72.142C	Displaced intertroch fx l femur, init for opn fx type 3A/B/C
S72.143A	Displaced intertrochanteric fracture of unsp femur, init
S72.143B	Displaced intertroch fx unsp femur, init for opn fx type I/2
S72.143C	Displ intertroch fx unsp femur, init for opn fx type 3A/B/C
S72.144A	Nondisplaced intertrochanteric fracture of right femur, init
S72.144B	Nondisp intertroch fx right femur, init for opn fx type I/2
S72.144C	Nondisp intertroch fx r femur, init for opn fx type 3A/B/C
S72.145A	Nondisplaced intertrochanteric fracture of left femur, init
S72.145B	Nondisp intertroch fx left femur, init for opn fx type I/2
S72.145C	Nondisp intertroch fx l femur, init for opn fx type 3A/B/C
S72.146A	Nondisplaced intertrochanteric fracture of unsp femur, init
S72.146B	Nondisp intertroch fx unsp femur, init for opn fx type I/2
S72.146C	Nondisp intertroch fx unsp femr, init for opn fx type 3A/B/C
S72.21XA	Displaced subtrochanteric fracture of right femur, init
S72.21XB	Displaced subtrochnt fx r femur, init for opn fx type I/2
S72.21XC	Displaced subtrochnt fx r femur, init for opn fx type 3A/B/C
S72.22XA	Displaced subtrochanteric fracture of left femur, init
S72.22XB	Displaced subtrochnt fx left femur, init for opn fx type I/2
S72.22XC	Displaced subtrochnt fx I femur, init for opn fx type 3A/B/C
S72.23XA	Displaced subtrochanteric fracture of unsp femur, init
S72.23XB	Displaced subtrochnt fx unsp femur, init for opn fx type I/2
S72.23XC	Displ subtrochnt fx unsp femur, init for opn fx type 3A/B/C
S72.24XA	Nondisplaced subtrochanteric fracture of right femur, init
S72.24XB	Nondisp subtrochnt fx right femur, init for opn fx type I/2
S72.24XC	Nondisp subtrochnt fx r femur, init for opn fx type 3A/B/C
S72.25XA	Nondisplaced subtrochanteric fracture of left femur, init
S72.25XB	Nondisp subtrochnt fx left femur, init for opn fx type I/2
S72.25XC	Nondisp subtrochnt fx I femur, init for opn fx type 3A/B/C
S72.26XA	Nondisplaced subtrochanteric fracture of unsp femur, init
S72.26XB	Nondisp subtrochnt fx unsp femur, init for opn fx type I/2
S72.26XC	Nondisp subtrochnt fx unsp femr, init for opn fx type 3A/B/C

## **GASTROINTESTINAL BLEEDING (GIB)**

Episodes with some diagnosis of gastrointestinal bleeding

## **Gastrointestinal bleeding diagnostic codes**

185.01	Esophageal varices with bleeding
185.11	Secondary esophageal varices with bleeding
K22.11	Ulcer of esophagus with bleeding
K25.0	Acute gastric ulcer with hemorrhage
K25.2	Acute gastric ulcer with both hemorrhage and perforation
K25.4	Chronic or unspecified gastric ulcer with hemorrhage
K25.6	Chronic or unsp gastric ulcer w both hemorrhage and perf
K26.0	Acute duodenal ulcer with hemorrhage
K26.2	Acute duodenal ulcer with both hemorrhage and perforation
K26.4	Chronic or unspecified duodenal ulcer with hemorrhage
K26.6	Chronic or unsp duodenal ulcer w both hemorrhage and perf
K27.0	Acute peptic ulcer, site unspecified, with hemorrhage
K27.2	Acute peptic ulcer, site unsp, w both hemorrhage and perf
K27.4	Chronic or unsp peptic ulcer, site unsp, with hemorrhage
K27.6	Chr or unsp peptic ulcer, site unsp, w both hemor and perf
K28.0	Acute gastrojejunal ulcer with hemorrhage
K28.2	Acute gastrojejunal ulcer w both hemorrhage and perforation
K28.4	Chronic or unspecified gastrojejunal ulcer with hemorrhage
K28.6	Chronic or unsp gastrojejunal ulcer w both hemor and perf
K29.01	Acute gastritis with bleeding
K29.21	Alcoholic gastritis with bleeding
K29.31	Chronic superficial gastritis with bleeding
K29.41	Chronic atrophic gastritis with bleeding
K29.51	Unspecified chronic gastritis with bleeding
K29.61	Other gastritis with bleeding
K29.71	Gastritis, unspecified, with bleeding
K29.81	Duodenitis with bleeding
K29.91	Gastroduodenitis, unspecified, with bleeding
K92.0	Hematemesis

Gastrointestinal hemorrhage, unspecified

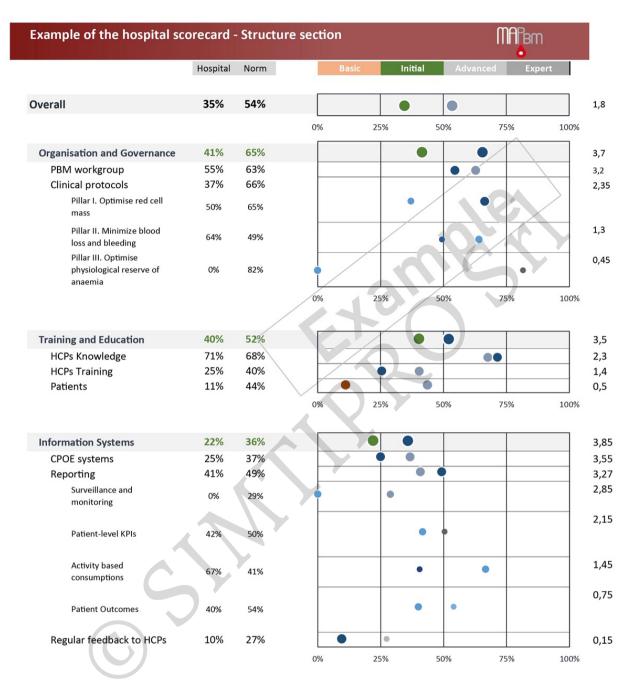
K92.1

K92.2

Melena

																	1111	rem •	
Pillar I. Optimise red cell mass										nimize l bleedi	Pillar III. Harness and optimise physiological reserve of anaemia								
Hb determination 21- 90 days before	surgery	% of patients with a Ferritin determination	21-90 days before surgery	% of patients treated	preoperatively 7-90 days before surgery	% of patients treated	hospital stay	% of patients with	transfusion	% of patients under	spinal anesthesia	% of patients treated	perioperatively	Hb level prior to	transfusion	% of patients	Hb > 8 g/dl	% of single-unit	transfused patients
sp. N	Norm	Hosp.	Norm	Hosp.	Norm	Hosp.	Norm	Hosp.	Norm	Hosp.	Norm	Hosp.	Norm	Hosp.	Norm	Hosp.	Norm	Hosp.	N
		12%	42%	13%	16%	6%	13%	1%	1%	65%	75%	100%	52%	8,5	8,4	63%	61%	42%	3
	-6%	▼	-72%	▼	-15%	▼	-57%	•	-1%	<b>V</b>	-13%	•		•	2%	-	2%	<b>A</b>	2
									1	37%									3
												7	53%					_	5
		<b>V</b>	-57%	<b>V</b>	-100%	<b>V</b>	-20%	•	-~<					0,0	-3%	▼	-43%	<b>A</b>	
% 5	59%	17%	46%	0%	21%	1%	12%	FC,	3%	7				8,2	8,5	67%	67%	50%	4
. :	25%	•	-62%	•	-100%	<b>V</b>	-8′ 。	•	61%					•	-4%	•	-1%	•	
% 4	44%	20%	41%	0%	5%	11%	6%	-2%	10%			85%	82%	8,7	9,2	58%	72%	67%	5
. :	23%	•	-52%	<b>V</b>	`0%		79%	_	122%			<b>•</b>	4%	•	-6%	•	-19%	<b>A</b>	2
						./6	25%			70%	73%	5%	12%	8,0	8,2	59%	60%	30%	4
						/▼	-92%				-4%	•	-55%	•	-2%	•	-2%	•	-3
						5%	32%							7,7	7,4	34%	35%	46%	4
		Int	erme	liate (	Outcor	nes							Hard (	Outcon	nes				Ī
ransfu	usion					Total -	Index		Ler	In-Hospital			spital	In-Hospital Complications			Re-admissions		
serve	d Exp	ected	Observ	ed Exp	pected	Observe			Ohsei		ected (								
88,0%	35	5,5%	4,38			Opseive	d Exp	ected	ODDC	ved Exp		Observed	Expecte	d Obser	rvea E	xpected	Observe	ed Exp	ect
-,0/0			.,		3,52	1663,5		47,65	14,		,54	Observed 7,1%	Expecte 4,8%	d Obser		7,4%	Observe		
Índice	•	1,07			1,24		6 12		_	68 9				10,5	5%			4	,49
		1,07					6 12	17,65	14,	68 9	,54		4,8%	10,5	5%	7,4%		4	,4%
			Observ	•			6 124	17,65	14,	68 9 ce 🛦	,54 1,54		4,8%	10,5	5%	7,4%	4,7%	4	,49 1,
Índice	d Exp			ed Exp	1,24	1663,5	6 124	17,65 1,33	14,	68 9 ce •	,54 1,54	7,1%	4,8%	10,5	rved E	7,4%	4,7%	4	,49 1,
Índice	d Exp	pected	Observ	ed Exp	1,24	1663,5 Observe	6 124  d Exp	17,65 1,33	14,1 Índi	68 9 ce A rved Exp	,54 1,54	7,1%  Observed	4,8%  1,4  Expecte	d Obser	5% rved E	7,4% 1,42	4,7%	4	,4% 1, 0ect
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índice	9 V	0,77 0,79 0,3%	Observ	ed Exp	1,24 Dected 2,49 1,89 2,11 1,45	1663,5 Observe 571,43	6 124  d Exp  3 38	1,33 eected 1,05 1,50 7,10	14, findi	68 9 cce A c	,54 1,54 eected ( 27 1,49 ,80 1,62	7,1%  Observed 0,0%	4,8%  ▲ 1,4  Expecte  0,1%  ▼ 0,0  0,0%  ▲ 6,9  2,4%	10,5 8 d Obser 4,8 0 4,4	5%	7,4% 1,42 ixpected 2,5% 1,89 2,0% 2,24 20,2%	4,7% Observe 0,9%	4 A A A A A A A A A A A A A A A A A A A	,4% 1, ,7% 0, ,2%
indice 2,1% indice 5,8%	9 V	0,59 0,3% 1,87	Observ 4,71 3,05	ed Exp	1,24  Deceted 2,49 1,89 2,11 1,45 2,66 0,99	0bserve 571,43 175,34	6 124  d Exp  d Exp  00 3c	17,65 1,33 eected 1,05 1,50 7,10	14,/ (indi	68 9 ce A ce	1,54 1,54 27 1,49 2,80 1,62 2,82 1,36	7,1%  Disserved 0,0%  0,3%	4,8%  ▲ 1,4  Expecte  0,1%  ▼ 0,0  0,0%  ▲ 6,9  2,4%  ▼ 0,0	d Observation 4,8	5%   Fried   E   Fried   Fried	7,4% 1,42 ixpected 2,5% 1,89 2,0% 2,24 20,2% 1,24	0,5% 0,6%	4	,4% 1, 7% 0, ,2% 0,
índice 2,1% índice 5,8%	9 9 12 12	0,77 0,79 0,3%	Observ 4,71 3,05	ed Exp	1,24 Dected 2,49 1,89 2,11 1,45	0bserve 571,43	6 124  dd Exp  dd Exp  338	1,33 eected 1,05 1,50 7,10	14, findi	68 9 ce    ce    frace    frac	,54 1,54 eected ( 27 1,49 ,80 1,62	7,1%  Dbserved 0,0%  0,3%	4,8%  ▲ 1,4  Expecte  0,1%  ▼ 0,0  0,0%  ▲ 6,9  2,4%	10,5 8 d Obser 4,8 0 4,4 9	5%	7,4% 1,42 ixpected 2,5% 1,89 2,0% 2,24 20,2%	0,9%	4 A A A A A A A A A A A A A A A A A A A	,4% 1, ,7% 0, ,2% 0, ,3% 0,
indice 2,1% indice 5,8%	9 V	0,77 0,7% 0,59 0,3% 1,87	Observ 4,71 3,05	ed Exp	1,24 Dected 2,49 1,89 2,11 1,45 2,66 0,99 2,5	0bserve 571,43 175,34	6 124  dd Exp  3 38	1,33 elected 1,05 1,50 1,7,10 25 1,72	14,/ (indi	68 9 ce    rved Express 66 (  7 5  838 12	1,54 1,54  ected ( 27 1,49  ,80 1,62 2,82 1,36	7,1%  Disserved 0,0%  0,3%	4,8%  1,4  Expecte 0,1%  0,0%  6,9  2,4%  0,0,9%	10,5 8 d Obser 4,8 0 4,4 9	rved E	7,4% 1,42 ixpected 2,5% 1,89 2,0% 2,24 20,2% 1,24 13,5%	0,5% 0,6%	4 A A A A A A A A A A A A A A A A A A A	,4% 1, ,7% 0, ,2% 0, ,3% 0,
2,1% (indice 12,1%) (indice 18,7,9%) (indice 19,9,0%)	99 9 V	0,77 0,7% 0,59 0,3% 1,87 0,74	3,05 2,64	ed Exp	1,24  Dected 2,49 1,89 2,11 1,45 2,66 0,99 0,75	0bserve 571,43 175,34 1.000,0	6 124  A  B 200  A  A  B 33 388  A  A  A  B 200  B 31  B 31	1,33 1,33 1,50 1,50 2,51 1,72 1,72	14,i findi  Obsess  9,3  findi  9,  17,6	68 9 cc	1,54 1,54 1,54 1,54 27 1,49 2,80 1,62 1,36 1,36 81 0,86	7,1%  Dbserved 0,0%  0,3%  0,0%	4,8%  ▲ 1,4  Expecte  0,1%  ▼ 0,0  0,0%  ▲ 6,9  2,4%  ▼ 0,0  0,9%  ▲ 1,4	10,5 8 d Obser 4,8 0 25,0 0	55%	7,4%  1,42  ixpected 2,5%  1,89 2,0% 2,24 20,2% 1,24 13,5% 0,95	0,5% 0,6% 8,0%	4 A A A A A A A A A A A A A A A A A A A	,49, 1, 79, 0, ,29, 0, ,39, 0, ,59, 2,
2,1% (indice 12,1%) (indice 18,7,9%) (indice 19,9,0%)	9 9 V V 200 12 V	0,77 0,78 0,59 0,3% 1,87 0,74 0,74	3,05 2,64	2 2 2 2 2 2 4 A A A A A A A A A A A A A	1,24  1,24  1,89  1,89  1,45  1,45  0,99  0,75  1,19  1,34	0bserve 571,43 175,34 1.000,0	6 124  d Expression 3 38  1 20  0 32  31  31	1,33 1,33 1,33 1,50 77,10 25 1,72 1,72 1,75 1,58	14,i findi  Obsess  9,3  findi  9,  17,6	68 9 ce A ce	,54 1,54 27 1,49 ,80 1,62 2,82 1,36 ,81 0,86	7,1%  Dbserved 0,0%  0,3%  0,0%	4,8%  ▲ 1,4  Expecte  0,1% ▼ 0,0  0,0% ▲ 6,9  2,4% ▼ 0,0  0,9% ▲ 1,4  3,6%	10,5 8 d Observed 4,8 0 4,4 9 25,0 0 12,8 2	rved E E	7,4% 1,42 2,5% 1,89 2,0% 2,24 20,2% 1,24 113,5% 0,95 17,6%	0,5% 0,6% 8,0%	4 A Exp	,49 1, 79 0, ,29 0, ,39 0, ,59 2, ,09
2,1% (indice 22,1% (indice 25,8% 29,0% 29,	9  V  20  12  V  47	0,59 0,77 0,59 1,87 0,74 1,21	3,05 2,64 1,71	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1,24  1,24  1,89  1,89  1,45  1,45  0,99  0,75  1,19  1,34	Observe 571,43 175,34 1.000,0	6 124  A  B 200  G 31  G 5 226  A  A  A  A  A  A  A  A  A  A  A  A  A	1,33 1,33 1,33 1,50 77,10 25 1,72 1,72 1,75 1,58	14, indii Observe 9,3,3,1 indii 17,,7,6 19,1	68 9 ce A ved Exp ved Exp 66 6 2 3 38 12 4 4 23 10	1,54 1,54 1,54 27 1,49 80 1,62 1,36 81 0,86 1,35	7,1%  Dbserved 0,0%  0,3%  0,0%  1,3%	4,8%  1,4  Expecte 0,1%  0,0%  6,9  2,4%  0,0,9%  1,4  3,6%  1,1	10,5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	55%	7,4% 1,42 2,5% 1,89 2,0% 2,24 20,2% 1,24 13,5% 0,95 17,6% 1,20	0,5%  Observe 0,9%  0,6%  8,0%	4 A Exp	,4% 1, 0, 2% 0, ,3% 0, ,5% 2, ,0% 1,
	% ! !	5p. Norm  51%  51%  48%  48%  51%  59%  25%  44%  23%  d - Outco	sp. Norm Hosp.  % 51% 12%  % 48% 21%  % 61% 17%  % 59% 17%  % 25%  % 44% 20%  % 23%  d - Outcomes  Interpretation Rate	sp. Norm Hosp. Norm  % 51% 12% 42%  7 -6% ▼ -72%  % 48% 21% 39%  8 -8% ▼ -47%  % 61% 17% 39%  17% 46%  25% ▼ -62%  % 44% 20% 41%  23% ▼ -52%  d - Outcomes sect  Intermed	sp. Norm Hosp. Norm Hosp.  % 51% 12% 42% 13%  7 -6% ▼ -72% ▼  8 48% 21% 39% 14%  8 -8% ▼ -47% ▼  8 61% 17% 39% 0%  17% 46% 0%  25% ▼ -62% ▼  44% 20% 41% 0%  23% ▼ -52% ▼  10% 17% 46% 0%  17% 46% 0%  17% 46% 0%  17% 46% 0%  17% 46% 0%  17% 46% 0%  17% 17% 46% 0%  17% 17% 17% 17%  18% 17% 18% 17%  18% 17% 17%  18% 1	sp. Norm Hosp. Norm Hosp. Norm  % 51% 12% 42% 13% 16%  7 -6% ▼ -72% ▼ -15%  % 48% 21% 39% 14% 17%  7 -8% ▼ -47% ▼ -21%  % 61% 17% 39% 0% 23%  \$ 37% ▼ -57% ▼ -100%  % 59% 17% 46% 0% 21%  \$ 25% ▼ -62% ▼ -100%  % 44% 20% 41% 0% 5%  \$ 23% ▼ -52% ▼ - 0%  d - Outcomes section  Intermediate Outcor  ransfusion Rate Transfusion Index	sp. Norm Hosp. Norm Hosp. Norm Hosp.  % 51% 12% 42% 13% 16% 6%  -6% ▼ -72% ▼ -15% ▼  % 48% 21% 39% 14% 17% 4%  √ -8% ▼ -47% ▼ -21% ▼  % 61% 17% 39% 0% 23% 10%  △ 37% ▼ -57% ▼ -100% ▼  № 59% 17% 46% 0% 21% 1%  △ 25% ▼ -62% ▼ -100% ▼  % 44% 20% 41% 0% 5% 11%  △ 23% ▼ -52% ▼ - 0% △  ■ 100% ▼  11% ▼ -52% ▼ - 52% ▼ - 50% ▼  ■ 10	sp. Norm Hosp. Norm Hosp. Norm Hosp. Norm  % 51% 12% 42% 13% 16% 6% 13%  -6% ▼ -72% ▼ -15% ▼ -57%  % 48% 21% 39% 14% 17% 4% 12%  -8% ▼ -47% ▼ -21% ▼ -68%  % 61% 17% 39% 0% 23% 10% 13%  17% 37% ▼ -57% ▼ -100% ▼ -20%  % 59% 17% 46% 0% 21% 1 1% 12%  25% ▼ -62% ▼ -100% ▼ -8°。  % 44% 20% 41% 0% 5% 11°4 6%  23% ▼ -52% ▼ -00% ▼ -92%  5% 32%  ▼ -92%  Intermediate Outcomes  Total Transfusion Index    Index   In	sp. Norm Hosp. Norm Hosp. Norm Hosp. Norm Hosp.  % 51% 12% 42% 13% 16% 6% 13% 1%  -6% ▼ -72% ▼ -15% ▼ -57% ▶  % 48% 21% 39% 14% 17% 4% 12% 1%  -8% ▼ -47% ▼ -21% ▼ -68% ▲  % 61% 17% 39% 0% 23% 10% 13% 5%  37% ▼ -57% ▼ -100% ▼ -20% ▲  % 59% 17% 46% 0% 21% 1% 12%  □ €  25% ▼ -62% ▼ -100% ▼ -86 &  % 44% 20% 41% 0% 5% 11% 6% 22%  23% ▼ -52% ▼ -00  ▲  100	5p. Norm Hosp. Norm Hosp. Norm Hosp. Norm Hosp. Norm  % 51% 12% 42% 13% 16% 6% 13% 1% 1% 1% 1% -6% ▼ .72% ▼ .15% ▼ .57% ▶ .1%  % 48% 21% 39% 14% 17% 4% 12% 19% 0% 14% 17% 4 12% 10% 0% 14% 17% 39% 0% 23% 10% 13% 5% 4% 14% 37% ▼ .57% ▼ .100% ▼ .20% ▲  % 59% 17% 46% 0% 21% 1% 12%	5p. Norm Hosp. Norm Hosp. Norm Hosp. Norm Hosp. Norm Hosp.  % 51% 12% 42% 13% 16% 6% 13% 1% 1% 1% 65%	5p. Norm Hosp. Norm H	sp. Norm Hosp. Norm H	sp. Norm Hosp. Norm H	5p. Norm Hosp. Norm H	5p. Norm Hosp. Norm H	5p. Norm Hosp. Norm H	pp. Norm Hosp. Norm H	## P. Norm Hosp. Norm

Figure S1 - Hospital Scorecard Executive Report



**Figure S1 - Hospital Scorecard Executive Report**