

ANSWERS TO CASE SCENARIOS AND CLINICAL RECORD ABSTRACTS



ICD-10-AM/ACHI/ACS Seventh Edition Answers workbook © National Centre for Classification in Health, Australia 2010

ICD-10-AM is based upon the *International Statistical Classification of Diseases and Related Health Problems, Tenth Revision* (ICD-10) Third Edition © Copyright World Health Organization 2009. All rights reserved. Modified by permission for Australian Government purposes.

Published by the National Centre for Classification in Health (Sydney), Faculty of Health Sciences, The University of Sydney, NSW 1825 Australia.

Whilst every reasonable care has been taken to ensure information accuracy within this publication, the National Centre for Classification in Health and its staff make no warranty or guarantee that the information presented here is error free and will bear no responsibility for the results or consequences of the use of this book.

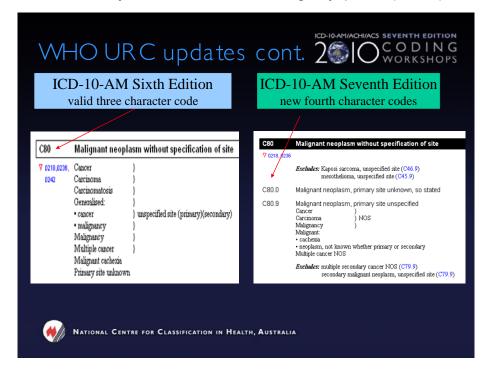
This work is copyright. It may not be reproduced in whole or in part without the written permission of the National Centre for Classification in Health (Sydney), PO Box 170, Lidcombe, NSW 1825 Australia.

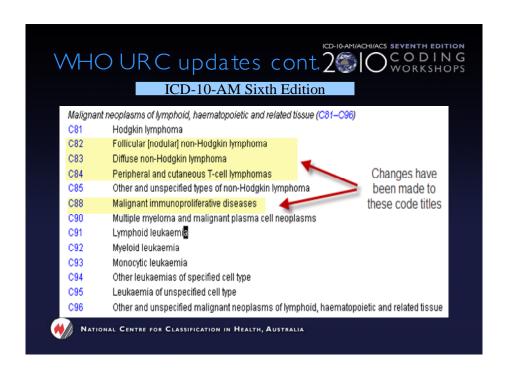
Background information to main changes:

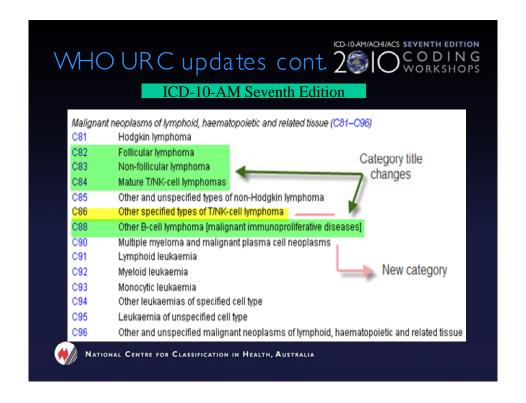
1. WHO URC updates

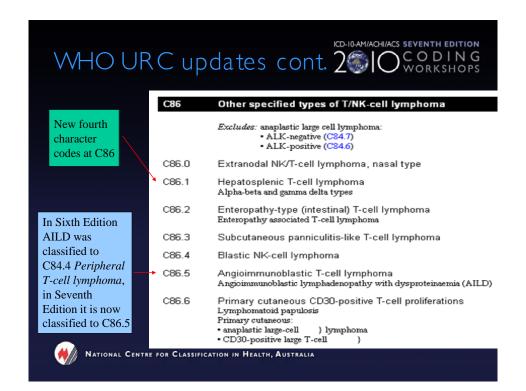
Main changes:

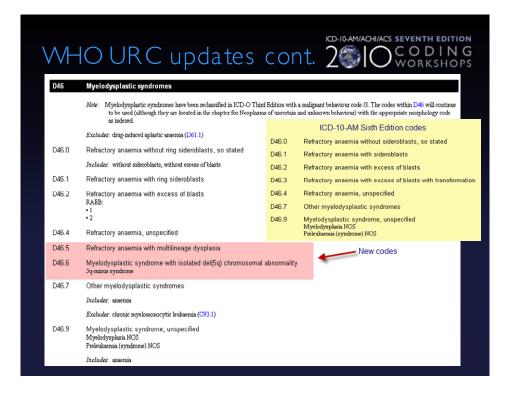
- New codes:
 - secondary malignant neoplasm of unspecified site (C79.9)
 - malignant neoplasm, primary site unknown (C80.0) new fourth character subdivision
 - malignant neoplasm, unspecified (C80.9)
 - lymphoma (C81-C88) and, leukaemia (C90-C95), with changes to existing code titles in line with current terminology
 - refractory anaemia with multilineage dysplasia (D46.5)











2. ACS 0042 Procedures normally not coded

Main changes:

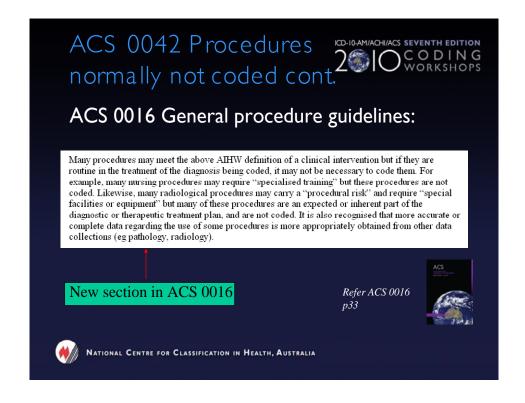
- expansion of list of radiological procedures not to be coded
- definitional revisions of a 'significant procedure' and 'procedure components' in ACS 0016 General procedure guidelines
- code procedures if <u>cerebral</u> anaesthesia is required in order for the procedure to be performed (see also ACS 0031 *Anaesthesia*)

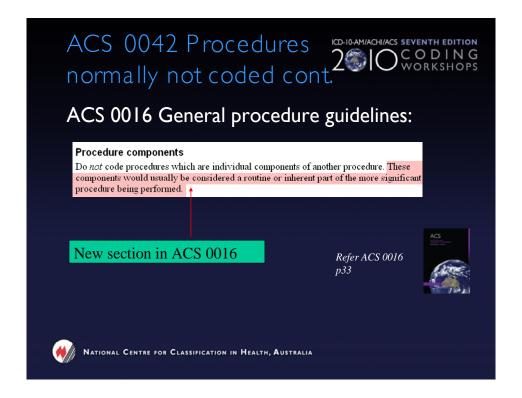
Do not routinely code:

- Arterial or venous catheterisation eg Hickman's, PICC, CVC
- Bladder washout via indwelling catheter
- Doppler recordings
- Imaging services (all codes in ACHI Chapter 20) eg CTs, MRIs and block
 [451] Dental radiological examination and interpretation

Continue to code:

- coronary angiography [668]
- cardiac catheterisation [667]
- suprapubic catheterisation [1093]
- transoesophageal echocardiogram (TOE) [1942]
- intraoperative cholangiography [957]

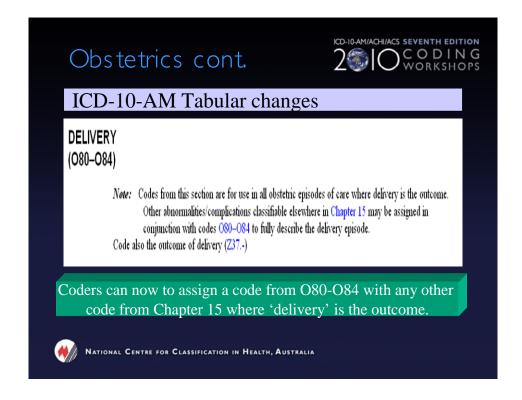


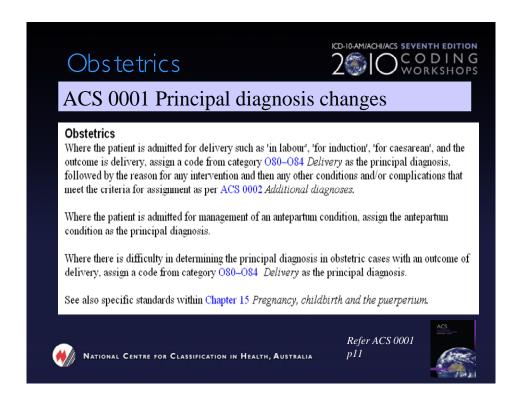


3. Obstetrics

Main changes:

- Maintaining the primacy of ACS 0001 Principal diagnosis:
 - Incorporation of WHO ICD-10 delivery codes O83 and O84
 - Assignment of other codes from Chapter 15 with O80-O84
 - Amendments to ACS 0001 Principal diagnosis





- Maintaining the primacy of ACS 0002 Additional diagnoses:
 - Deletion of standards within Chapter 15 Pregnancy, childbirth and the puerperium
 - Information now included in the Tabular

4. Diabetes mellitus and impaired glucose regulation

Given the limitations with current code structure within category E09-E14 the following general principles are now being proposed for the coding of diabetes:

- 1. Primacy of ACS 0001 and ACS 0002 is to be maintained
- 2. A change to the Sixth Edition guidelines regarding the sequencing of diabetes complications
- 3. Complications of diabetes will only be coded when the condition meets ACS 0001 and/or ACS 0002
- 4. Removal of the reverse indexing options.

Main changes:

- Maintaining the primacy of ACS 0001 and ACS 0002:
 - Deletion of reverse index pathways which caused issues in relation to ACS 0001 (sequencing), ACS 0002 (code assignment contrary to ACS 0002 criteria) and forward and backward Index inconsistencies
 - Complications of diabetes and IGR will only be coded when the condition meets ACS 0001 and/or ACS 0002

e.g. I10 Essential [primary] hypertension will only be assigned with E11.72 Type 2 diabetes mellitus with features of insulin resistance if the 'hypertension' meets ACS 001/0002

- Amendments to ACS 0401 Diabetes mellitus and impaired glucose regulation
 - General classification principles box amended, refer to page
 92

Summary:

- Documentation of 'diabetic', 'due to' or 'secondary to' allow the coding of diabetes or IGR as per *Problems and underlying conditions* in ACS 0001 and ACS 0002
- Once DM or IGR meet ACS 0001 or ACS 0002 continue to code all current complications of diabetes from category E09–E14
 - Exception: multiple microvascular complications and diabetic foot where the specific classification guidelines for these should be followed
- Complications of diabetes classified outside of category E09–E14 are assigned only when that condition meets the criteria in ACS 0001 and/or ACS 0002
 - Exception: diabetic foot, follow the classification guidelines within that section of the ACS

5. Sepsis, severe sepsis and septic shock

Main changes:

- Incorporation of new codes from WHO Update and Revision Committee
- Amendments to ACS 0110 Sepsis, severe sepsis and septic shock

Overview:

The systemic inflammatory response to infection is a continuum:

- → localised or generalised infection
- → SIRS (the body's response)
- → sepsis
- → severe sepsis (with organ dysfunction or organ failure)
- → septic shock

Definitions:

Sepsis = SIRS with infection, or, the body's systemic reaction to an infection (localised or generalised).

Severe sepsis = sepsis with organ dysfunction or organ failure.

Septic shock = severe sepsis with circulatory shock with signs of organ dysfunction or hypoperfusion.

Code assignment:

Systemic inflammatory response syndrome [SIRS]:

- assign first a code for the aetiology (infection, trauma etc)
- followed by the appropriate code from category R65 Systemic inflammatory response syndrome [SIRS]

Sepsis

assign a code for the localised and/or generalised infection.

Severe sepsis

 assign a code for the localised and/or generalised infection, followed by R65.1 Systemic inflammatory response syndrome [SIRS] of infectious origin with acute organ failure.

Septic shock

 assign a code for the localised and/or generalised infection followed by R57.2 Septic shock.

6. Congenital malformations

Main changes:

- Fifth character subdivisions and revision of existing codes in Chapter 17 Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99) have been introduced to provide specificity required by the National Congenital Anomalies working party.
- · Indexing changes to reflect new and amended codes

7. Healthcare associated Staphylococcus aureus bacteraemia

Main changes:

- Incorporation of new definitions (developed by ACQSHC) and codes to capture this clinical indicator
- Amendments to ACS 0111 Healthcare associated Staphylococcus aureus bacteraemia

Classification:

The presence of healthcare associated Staphylococcus aureus bacteraemia (HASAB) **must be documented** by clinical staff, and meet the criteria in ACS 0001 *Principal diagnosis* or ACS 0002 *Additional diagnoses*, in order to assign U90.0 *Healthcare associated Staphylococcus aureus bacteraemia* which will act as a 'flag' code for these cases.

The manifestation of the bacteraemia

- localised and/or generalised sepsis, or
- bacteraemia if no site is specified,

together with any appropriate external cause codes, should be coded according to normal coding practice and sequenced before U90.0.

CASE SCENARIOS

Case 1

Principal Diagnosis:

S64.3 Injury of digital nerve of thumb

Additional Diagnoses:

S61.0	Open wound of finger(s) without damage to nail
T89.01	Open wound with foreign body (with or without infection)
W25.6	Contact with drinking glass and glass containers
Y92.09	Place of occurrence, other and unspecified place in home
U73.9	Unspecified activity

Procedures:

39300-00 [83]	Primary repair of nerve
30023-00 [1566]	Excisional debridement of soft tissue
30068-00 [1559]	Removal of foreign body in soft tissue, not elsewhere classified
92514-99 [1910]	General anaesthesia, ASA 9, nonemergency or not known

HINTS:

ACS 0031 Anaesthesia

ACS 1203 Debridement

ACS 1217 Repair of wound of skin and subcutaneous tissue

ACS 1331 Soft tissue injuries

ACS 1908 Laceration with nerve and tendon damage

ACS 1917 Open wounds

Principal Diagnosis:

C78.6 Secondary malignant neoplasm of retroperitoneum and peritoneum

Additional Diagnosis:

M8000/6 Neoplasm, metastatic

C80.0 Malignant neoplasm, primary site unknown, so stated

M8000/3 Neoplasm, malignant

Procedures:

30406-00 [983] Abdominal paracentesis

96199-00 [1920] Intravenous administration of pharmacological agent,

antineoplastic agent

HINTS:

ACS 0044 Chemotherapy

ACS 0233 Morphology

ACS 0236 Neoplasm coding and sequencing (excluding same-day

chemotherapy/radiotherapy)

ACS 0239 Metastases

Principal Diagnoses:

D64.9 Anaemia, unspecified

Additional Diagnoses:

C90.00	Multiple myeloma, without mention of remission
M9732/3	Multiple myeloma
J70.4	Drug-induced interstitial lung disorders, unspecified
J84.1	Other interstitial pulmonary diseases with fibrosis
Y43.3	Drugs, medicaments and biological substances causing adverse
	effects in therapeutic use, other antineoplastic drugs
Y92.22	Place of occurrence, health service area
Z86.43	Personal history of tobacco use disorder

Procedures:

13706-02 [1893]	Administration of packed cells
41898-01 [544]	Fibreoptic bronchoscopy with biopsy
92515-99 [1910]	Sedation, ASA 9, nonemergency or not known

HINTS:

ACS 0016 General procedure guidelines

ACS 0031 Anaesthesia

ACS 0033 Conventions used in the tabular list of diseases – Type 1 exclusion notes

ACS 0042 Procedures normally not coded

ACS 0236 Neoplasm coding and sequencing

ACS 0245 Remission in malignant immunoproliferative diseases and leukaemia

ACS 0302 Blood Transfusions

ACS 0503 Drug, alcohol and tobacco use disorders

ACS 1902 Adverse effects

10-AM Commandments Volume 14 Number 4 March 2008 – Exclusion notes

Principal Diagnosis:

O80 Single spontaneous delivery

Additional Diagnoses:

O48 Prolonged pregnancy
O72.0 Third-stage haemorrhage

Z37.0 Single live birth

Procedures:

90472-00 [1343]	Episiotomy
90482-00 [1345]	Manual removal of placenta
92506-99 [1333]	Neuraxial block during labour, ASA 9, nonemergency or not
	known
90465-05 [1334]	Medical and surgical induction of labour

HINTS:

ACS 0001 Principal diagnosis – Obstetrics ACS 0031 Anaesthesia ACS 0042 Procedures normally not coded ACS 1513 Induction and augmentation

10-AM Commandments Volume 16 Number 2 September 2009 – FAQs Q14

Principal Diagnosis:

N17.9 Acute kidney failure, unspecified

Additional Diagnoses:

E11.	Type 2 diabetes mellitus with other specified kidney complication	
N18.	Chronic kidney disease, stage 3	
E11.	Type 2 diabetes mellitus with established diabetic nephropathy	
N02.	Recurrent and persistent haematuria, other	
N39.	Urinary tract infection, site not specified	
B96.	Escherichia coli [E. coli] as the cause of diseases classified to other	er
	chapters	
I10	Essential (primary) hypertension	
E11.	Type 2 diabetes mellitus with features of insulin resistance	
Z72.	Tobacco use, current	

Procedures:

95550-14 [1916] Allied health intervention, diabetes education

HINTS:

ACS 0001 Principal diagnosis – acute on chronic conditions

ACS 0032 Allied health interventions

ACS 0401 Diabetes mellitus and impaired glucose regulation

ACS 0503 Drug, alcohol and tobacco use disorders

ACS 1438 Chronic kidney disease

Principal Diagnosis:

T21.34 Full thickness burn of trunk, back

Additional Diagnoses:

T24.2	Partial thickness [blisters, epidermal loss] burn of hip and lower limb, except ankle and foot
T31.22	Burns involving 20-29% of body surface area, 20-29%
W40	Explosion of other materials
Y92.09	Place of occurrence, other and unspecified place in home
U73.9	Unspecified activity
R65.1	Systemic inflammatory response syndrome [SIRS] of infectious origin
	with acute organ failure
J96.0	Acute respiratory failure
J15.4	Pneumonia due to other streptococci

Procedures:

45464-00 [1644]	Split skin graft to burn of other sites involving ≥ 20% and < 30% body surface area grafted
30010-00 [1600]	Dressing of burn, < 10% of body surface area dressed
92514-10 [1910]	General anaesthesia, ASA 1, emergency
13882-01 [569]	Management of continuous ventilatory support, > 24 and <
	96 hours

HINTS:

ACS 0031 Anaesthesia

ACS 0110 Sepsis, severe sepsis and septic shock

ACS 1006 Ventilatory support

ACS 1911 Burns - body surface area

- dressing/debridement of burns

Principal Diagnosis:

P07.32 Other preterm infant, 32 or more completed weeks but less than 37 completed weeks

Additional Diagnoses:

P07.13	Other low birth weight 1500–2499g
P22.0	Respiratory distress syndrome of newborn
Q35.32	Cleft soft palate, median
Q35.12	Cleft hard palate, median
P59.0	Neonatal jaundice associated with preterm delivery
P39.1	Neonatal conjunctivitis and dacryocystitis
B96.88	Other and unspecified bacterial agents as the cause of diseases
	classified to other chapters
Z38.0	Singleton, born in hospital

Procedures:

92209-01 [570]	Management of noninvasive ventilatory support, > 24 and <
	96 hours
90677-00 [1611]	Other phototherapy, skin
96199-07 [1920]	Intravenous administration of pharmacological agent,
	nutritional substance

HINTS:

ACS 0042 Procedures normally not coded

ACS 1006 Ventilatory support

ACS 1605 Conditions originating in the perinatal period

ACS 1607 Newborn/Neonate

ACS 1614 Respiratory distress syndrome/Hyaline membrane disease/Surfactant deficiency

ACS 1615 Specific interventions for the sick neonate

ACS 1618 Low birth weight and gestational age

Principal Diagnosis:

D70 Agranulocytosis

Additional Diagnoses:

R50.2	Drug-induced fever
Y43.1	Drugs, medicaments and biological substances causing adverse
	effects in therapeutic use, antineoplastic antimetabolites
Y43.3	Drugs, medicaments and biological substances causing adverse
	effects in therapeutic use, other antineoplastic drugs
Y92.22	Place of occurrence, health service area
C92.81	Acute myeloid leukaemia with multilineage dysplasia, in remission
M9895/3	Acute myeloid leukaemia with multilineage dysplasia
D64.9	Anaemia, unspecified
D69.6	Thrombocytopenia, unspecified
A49.01	Staphylococcus aureus infection, unspecified site
U90.0	Healthcare associated Staphylococcus aureus bacteraemia

Procedures:

13706-02 [1893]	Administration of packed cells
13706-03 [1893]	Administration of platelets

HINTS:

ACS 0109 Neutropenia

ACS 0111 Healthcare associated staphylococcus aureus bacteraemia

ACS 0245 Remission in malignant immunoproliferative diseases and leukaemia

ACS 0302 Blood transfusions

ACS 0304 Pancytopenia

ACS 1902 Adverse effects

Principal Diagnosis:

E10.73 Type 1 diabetes mellitus with foot ulcer due to multiple causes

Additional Diagnoses:

B95.6	Staphylococcus aureus as the cause of diseases classified to other chapters
Z06.32	Methicillin resistant agent
G62.9	Polyneuropathy, unspecified
E10.71	Type 1 diabetes mellitus with multiple microvascular and other specified nonvascular complications
N18.5	Chronic kidney disease, stage 5

Procedures:

30023-01 [1566]	Excisional debridement of soft tissue involving bone or
	cartilage
92514-29 [1910]	General anaesthesia, ASA 2, nonemergency or not known
13100-00 [1060]	Haemodialysis
95550-00 [1916]	Allied health intervention, dietetics
95550-03 [1916]	Allied health intervention, physiotherapy
95550-14 [1916]	Allied health intervention, diabetes education

HINTS:

ACS 0031 Anaesthesia

ACS 0032 Allied health interventions

ACS 0042 Procedures normally not coded

ACS 0112 Infection with drug resistant microorganisms

ACS 0401 Diabetes mellitus and impaired glucose regulation

ACS 1203 Debridement

ACS 1438 Chronic kidney disease

Principal Diagnosis:

A41.9 Sepsis, unspecified

Additional Diagnoses:

G93.1	Anoxic brain damage, not elsewhere classified
R57.2	Septic shock
J96.0	Acute respiratory failure
K72.0	Acute and subacute hepatic failure
N17.9	Acute kidney failure, unspecified
D68.3	Haemorrhagic disorder due to circulating anticoagulants
Y44.2	Drugs, medicaments and biological substances causing adverse
	effects in therapeutic use, anticoagulants
Y92.22	Place of occurrence, health service area

Procedures:

13882-02 [569]	Management of continuous ventilatory support, ≥ 96 hours
13100-04 [1060]	Haemodialysis
92062-00 [1893]	Administration of other serum
95550-00 [1916]	Allied health intervention, dietetics
95550-03 [1916]	Allied health intervention, physiotherapy

HINTS:

ACS 0032 Allied health interventions

ACS 0042 Procedures normally not coded

ACS 0110 Sepsis, severe sepsis and septic shock

ACS 0303 Abnormal coagulation profile due to anticoagulants

ACS 1006 Ventilatory support

Discharge Summary 1

Principal Diagnosis:

C92.51 Acute myelomonocytic leukaemia, in remission

Additional Diagnoses:

M9867/3 Acute myelomonocytic leukaemia

Procedures:

96199-00 [1920] Intravenous administration of pharmacological agent, antineoplastic agent

HINTS:

ACS 0044 Chemotherapy

ACS 0245 Remission in malignant immunoproliferative diseases and leukaemia

Discharge Summary 2

Principal Diagnosis:

C85.2 Mediastinal (thymic) large B-cell lymphoma

Additional Diagnoses:

M9679/3 Mediastinal large B-cell lymphoma

Procedures:

96199-00 [1920] Intravenous administration of pharmacological agent, antineoplastic agent

HINTS:

ACS 0044 Chemotherapy

ACS 0222 Lymphoma

ACS 0303 Abnormal coagulation profile due to anticoagulants

Discharge Summary 3

Principal Diagnosis:

D59.1 Other autoimmune haemolytic anaemias

Additional Diagnoses:

C83.0	Small cell B-cell lymphoma
M9699/3	Marginal zone B-cell lymphoma NOS
N39.0	Urinary tract infection, site not specified
B96.2	Escherichia coli [E. coli] as the cause of diseases classified to other
	chapters

Procedures:

96199-00 [1920] Intravenous administration of pharmacological agent, antineoplastic agent

HINTS:

ACS 0044 Chemotherapy ACS 0222 Lymphoma

CLINICAL RECORD ABSTRACTS

Clinical Record 1

Principal Diagnosis:

163.9 Cerebral infarction, unspecified

Additional Diagnoses:

G81.9	Hemiplegia, unspecified
195.2	Hypotension due to drugs
Y51.7	Drugs, medicaments and biological substances causing adverse effects in therapeutic use, beta-adrenoreceptor antagonists, not
\/F0 F	elsewhere classified
Y52.5	Drugs, medicaments and biological substances causing adverse effects in therapeutic use, other antihypertensive drugs, not elsewhere classified
Y54.4	Drugs, medicaments and biological substances causing adverse effects in therapeutic use, loop [high-ceiling] diuretics
Y92.22	Place of occurrence, health service area
I21.4	Acute subendocardial myocardial infarction
I10	Essential (primary) hypertension
Z86.43	Personal history of tobacco use disorder
Z86.7	Personal history of diseases of the circulatory system

Procedures:

95550-01 [1916]	Allied health intervention, social work
95550-03 [1916]	Allied health intervention, physiotherapy
95550-02 [1916]	Allied health intervention, occupational therapy
95550-09 [1910]	Allied health intervention, pharmacy

HINTS:

ACS 0032 Allied health interventions

ACS 0042 Procedures normally not coded

ACS 0503 Drug, alcohol and tobacco use disorders

ACS 0604 Stroke

ACS 0940 Ischaemic heart disease - acute myocardial infarction

ACS 1902 Adverse effects

ACS 2112 Personal history

Clinical Record 2

Principal Diagnosis:

A41.0 Sepsis due to Staphylococcus aureus

Additional Diagnoses:

R65.1	Systemic inflammatory response syndrome [SIRS] of infectious
	origin with acute organ failure
N17.9	Acute kidney failure, unspecified
N39.0	Urinary tract infection, site not specified
B95.6	Staphylococcus aureus as the cause of diseases classified to other chapters
M00.93	Pyogenic arthritis, unspecified, forearm
J44.8	Other specified chronic obstructive pulmonary disease
F17.1	Mental and behavioural disorders due to use of tobacco, harmful use
170.23	Atherosclerosis of arteries of extremities with ulceration
E86	Volume depletion
R23.4	Changes in skin texture
F32.90	Depressive episode, unspecified, not specified as arising in the
	postnatal period
Z51.5	Palliative care

Procedures

95550-03 [1916] Allied health intervention, physiotherapy

HINTS:

ACS 0032 Allied health interventions

ACS 0042 Procedures normally not coded

ACS 0110 Sepsis, severe sepsis and septic shock

ACS 0224 Palliative care

ACS 0503 Drug, alcohol and tobacco use disorders

ACS 0941 Arterial disease

ACS 1008 Chronic obstructive pulmonary disease (COPD)

ACS 1438 Chronic kidney disease

ACS 1810 Skin tear and frail skin

ACS 1902 Adverse effects

Clinical Record 3

Principal Diagnosis:

O42.12 Premature rupture of membranes, onset of labour more than 7 days later

Additional Diagnoses:

Single delivery by caesarean section
Preterm delivery without spontaneous labour
Duration of pregnancy, 20–25 completed weeks
Labour and delivery complicated by prolapse of cord
Maternal care for transverse and oblique lie
Carrier of other specified bacterial diseases
Other prophylactic pharmacotherapy
Disruption of family by separation and divorce
Single live birth

Procedures:

16520-03 [1340]	Emergency lower segment caesarean section
92514-99 [1910]	General anaesthesia, ASA 9, nonemergency or not known
95550-01 [1916]	Allied health intervention, social work
95550-03 [1916]	Allied health intervention, physiotherapy

HINTS:

ACS 0001 Principal diagnosis - Obstetrics

ACS 0031 Anaesthesia

ACS 0032 Allied health interventions

ACS 1506 Malpresentation, disproportion and abnormality of maternal pelvic organs

ACS 1530 Premature labour and delivery

ACS 1541 Elective and emergency caesarean

ACS 1549 Streptococcal group B infection/carrier in pregnancy

Clinical Record 4

Principal Diagnosis:

A49.01 Staphylococcus aureus infection, unspecified site

Additional Diagnoses:

U90.0 Healthcare associated Staphylococcus aureus bacteraemia

Procedures:

Nil

HINTS:

ACS 0111 Healthcare associated staphylococcus aureus bacteraemia