

Supplementary appendices

The full lists of disease codes relevant to critical organ bleeds, overt bleeds and possible bleeds are shown in Supplementary Tables 1–3.

Supplementary Table 1: Critical organ bleed disease codes

Code	Description
ICD-9-CM	
360.43	Haemophthalmias, except current injury
362.43	Haemorrhagic detachment of retinal pigment epithelium
362.81	Retinal haemorrhage
363.6	Choroidal haemorrhage and rupture
363.61	Choroidal haemorrhage, unspecified
363.62	Expulsive choroidal haemorrhage
363.63	Choroidal rupture
363.72	Haemorrhagic choroidal detachment
364.41	Hyphema of iris and ciliary body
376.32	Orbital haemorrhage
379.23	Vitreous haemorrhage
423.0	Haemopericardium
423.3	Cardiac tamponade
430	Subarachnoid haemorrhage
431	Intracerebral haemorrhage
432	Other and unspecified intracranial haemorrhage
432.0	Non-traumatic extradural haemorrhage
432.1	Subdural haemorrhage
432.9	Unspecified intracranial haemorrhage
441.1	Thoracic aneurysm, ruptured
441.3	Abdominal aneurysm, ruptured
441.5	Aortic aneurysm of unspecified site, ruptured
441.6	Thoraco-abdominal aneurysm, ruptured
719.10	Haemarthrosis, site unspecified
719.11	Haemarthrosis, shoulder region
719.12	Haemarthrosis, upper arm
719.13	Haemarthrosis, forearm
719.14	Haemarthrosis, hand
719.15	Haemarthrosis, pelvic region and thigh
719.16	Haemarthrosis, lower leg
719.17	Haemarthrosis, ankle and foot
719.18	Haemarthrosis, other specified sites
719.19	Haemarthrosis, multiple sites
729.71	Non-traumatic compartment syndrome of upper extremity
729.72	Non-traumatic compartment syndrome of lower extremity
729.73	Non-traumatic compartment syndrome of abdomen
729.79	Non-traumatic compartment syndrome of other sites
998.11	Haemorrhage complicating a procedure
ICD-10-CM	
H05.23	Haemorrhage of orbit
H05.231	Haemorrhage of right orbit
H05.232	Haemorrhage of left orbit
H05.233	Haemorrhage of bilateral orbit
H05.239	Haemorrhage of unspecified orbit
H21.0	Hyphema
H21.00	Hyphema, unspecified eye
H21.01	Hyphema, right eye
H21.02	Hyphema, left eye

Continued

Supplementary Table 1: Continued

Code	Description
H21.03	Hyphema, bilateral
H31.30	Unspecified choroidal haemorrhage
H31.301	Unspecified choroidal haemorrhage, right eye
H31.302	Unspecified choroidal haemorrhage, left eye
H31.303	Unspecified choroidal haemorrhage, bilateral
H31.309	Unspecified choroidal haemorrhage, unspecified eye
H31.31	Expulsive choroidal haemorrhage
H31.311	Expulsive choroidal haemorrhage, right eye
H31.312	Expulsive choroidal haemorrhage, left eye
H31.313	Expulsive choroidal haemorrhage, bilateral
H31.319	Expulsive choroidal haemorrhage, unspecified eye
H31.41	Haemorrhagic choroidal detachment
H31.411	Haemorrhagic choroidal detachment, right eye
H31.412	Haemorrhagic choroidal detachment, left eye
H31.413	Haemorrhagic choroidal detachment, bilateral
H31.419	Haemorrhagic choroidal detachment, unspecified eye
H35.6	Retinal haemorrhage
H35.60	Retinal haemorrhage, unspecified eye
H35.61	Retinal haemorrhage, right eye
H35.62	Retinal haemorrhage, left eye
H35.63	Retinal haemorrhage, bilateral
H35.73	Haemorrhagic detachment of retinal pigment epithelium
H35.731	Haemorrhagic detachment of retinal pigment epithelium, right eye
H35.732	Haemorrhagic detachment of retinal pigment epithelium, left eye
H35.733	Haemorrhagic detachment of retinal pigment epithelium, bilateral
H35.739	Haemorrhagic detachment of retinal pigment epithelium, unspecified eye
H43.1	Vitreous haemorrhage
H43.10	Vitreous haemorrhage, unspecified eye
H43.11	Vitreous haemorrhage, right eye
H43.12	Vitreous haemorrhage, left eye
H43.13	Vitreous haemorrhage, bilateral
H44.81	Haemophthalmos
H44.811	Haemophthalmos, right eye
H44.812	Haemophthalmos, left eye
H44.813	Haemophthalmos, bilateral
H44.819	Haemophthalmos, unspecified eye
I23.0	Haemopericardium as current complication following acute myocardial infarction
I31.2	Haemopericardium, not elsewhere classified
I31.4	Cardiac tamponade
I60	Non-traumatic subarachnoid haemorrhage
I60.0	Non-traumatic subarachnoid haemorrhage from carotid siphon and bifurcation
I60.00	Non-traumatic subarachnoid haemorrhage from unspecified carotid siphon and bifurcation
I60.01	Non-traumatic subarachnoid haemorrhage from right carotid siphon and bifurcation
I60.02	Non-traumatic subarachnoid haemorrhage from left carotid siphon and bifurcation
I60.1	Non-traumatic subarachnoid haemorrhage from middle cerebral artery
I60.10	Non-traumatic subarachnoid haemorrhage from unspecified middle cerebral artery
I60.11	Non-traumatic subarachnoid haemorrhage from right middle cerebral artery
I60.12	Non-traumatic subarachnoid haemorrhage from left middle cerebral artery
I60.2	Non-traumatic subarachnoid haemorrhage from anterior communicating artery
I60.3	Non-traumatic subarachnoid haemorrhage from posterior communicating artery
I60.30	Non-traumatic subarachnoid haemorrhage from unspecified posterior communicating artery
I60.31	Non-traumatic subarachnoid haemorrhage from right posterior communicating artery
I60.32	Non-traumatic subarachnoid haemorrhage from left posterior communicating artery
I60.4	Non-traumatic subarachnoid haemorrhage from basilar artery
I60.5	Non-traumatic subarachnoid haemorrhage from vertebral artery
I60.50	Non-traumatic subarachnoid haemorrhage from unspecified vertebral artery
I60.51	Non-traumatic subarachnoid haemorrhage from right vertebral artery



Continued

Supplementary Table 1: Continued

Code	Description
I60.52	Non-traumatic subarachnoid haemorrhage from left vertebral artery
I60.6	Non-traumatic subarachnoid haemorrhage from other intracranial arteries
I60.7	Non-traumatic subarachnoid haemorrhage from unspecified intracranial artery
I60.8	Other non-traumatic subarachnoid haemorrhage
I60.9	Non-traumatic subarachnoid haemorrhage, unspecified
I61	Non-traumatic intracerebral haemorrhage
I61.0	Non-traumatic intracerebral haemorrhage in hemisphere, subcortical
I61.1	Non-traumatic intracerebral haemorrhage in hemisphere, cortical
I61.2	Non-traumatic intracerebral haemorrhage in hemisphere, unspecified
I61.3	Non-traumatic intracerebral haemorrhage in brain stem
I61.4	Non-traumatic intracerebral haemorrhage in cerebellum
I61.5	Non-traumatic intracerebral haemorrhage, intraventricular
I61.6	Non-traumatic intracerebral haemorrhage, multiple localised
I61.8	Other non-traumatic intracerebral haemorrhage
I61.9	Non-traumatic intracerebral haemorrhage, unspecified
I62	Other and unspecified non-traumatic intracranial haemorrhage
I62.0	Non-traumatic subdural haemorrhage
I62.00	Non-traumatic subdural haemorrhage, unspecified
I62.01	Non-traumatic acute subdural haemorrhage
I62.02	Non-traumatic subacute subdural haemorrhage
I62.03	Non-traumatic chronic subdural haemorrhage
I62.1	Non-traumatic extradural haemorrhage
I62.9	Non-traumatic intracranial haemorrhage, unspecified
I71.1	Thoracic aortic aneurysm, ruptured
I71.3	Abdominal aortic aneurysm, ruptured
I71.5	Thoraco-abdominal aortic aneurysm, ruptured
I71.8	Aortic aneurysm of unspecified site, ruptured
M25.0	Haemarthrosis
M25.00	Haemarthrosis, unspecified joint
M25.01	Haemarthrosis, shoulder
M25.011	Haemarthrosis, right shoulder
M25.012	Haemarthrosis, left shoulder
M25.019	Haemarthrosis, unspecified shoulder
M25.02	Haemarthrosis, elbow
M25.021	Haemarthrosis, right elbow
M25.022	Haemarthrosis, left elbow
M25.029	Haemarthrosis, unspecified elbow
M25.03	Haemarthrosis, wrist
M25.031	Haemarthrosis, right wrist
M25.032	Haemarthrosis, left wrist
M25.039	Haemarthrosis, unspecified wrist
M25.04	Haemarthrosis, hand
M25.041	Haemarthrosis, right hand
M25.042	Haemarthrosis, left hand
M25.049	Haemarthrosis, unspecified hand
M25.05	Haemarthrosis, hip
M25.051	Haemarthrosis, right hip
M25.052	Haemarthrosis, left hip
M25.059	Haemarthrosis, unspecified hip
M25.06	Haemarthrosis, knee
M25.061	Haemarthrosis, right knee
M25.062	Haemarthrosis, left knee
M25.069	Haemarthrosis, unspecified knee
M25.07	Haemarthrosis, ankle and foot
M25.071	Haemarthrosis, right ankle
M25.072	Haemarthrosis, left ankle
M25.073	Haemarthrosis, unspecified ankle



Continued

Supplementary Table 1: Continued

Code	Description
M25.074	Haemarthrosis, right foot
M25.075	Haemarthrosis, left foot
M25.076	Haemarthrosis, unspecified foot
M25.08	Haemarthrosis, other specified site
M79.A	Non-traumatic compartment syndrome
M79.A1	Non-traumatic compartment syndrome of upper extremity
M79.A11	Non-traumatic compartment syndrome of right upper extremity
M79.A12	Non-traumatic compartment syndrome of left upper extremity
M79.A19	Non-traumatic compartment syndrome of unspecified upper extremity
M79.A2	Non-traumatic compartment syndrome of lower extremity
M79.A21	Non-traumatic compartment syndrome of right lower extremity
M79.A22	Non-traumatic compartment syndrome of left lower extremity
M79.A29	Non-traumatic compartment syndrome of unspecified lower extremity
M79.A3	Non-traumatic compartment syndrome of abdomen
M79.A9	Non-traumatic compartment syndrome of other sites

ICD-9-CM, International Classification of Diseases, 9th Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, 10th Revision, Clinical Modification.

Supplementary Table 2: Overt bleed disease codes

Code	Description
ICD-9-CM	
246.3	Haemorrhage and infarction of thyroid
287.8	Other specified haemorrhagic conditions
287.9	Unspecified haemorrhagic conditions
374.81	Haemorrhage of eyelid
377.42	Haemorrhage in optic nerve sheaths
456.0	Oesophageal varices with bleeding
456.20	Oesophageal varices in diseases classified elsewhere, with bleeding
459.0	Haemorrhage, unspecified
530.21	Ulcer of oesophagus with bleeding
530.7	Gastro-oesophageal laceration-haemorrhage syndrome
530.82	Oesophageal haemorrhage
531.0	Acute gastric ulcer with haemorrhage
531.00	Acute gastric ulcer with haemorrhage, without mention of obstruction
531.01	Acute gastric ulcer with haemorrhage, with obstruction
531.2	Acute gastric ulcer with haemorrhage and perforation
531.20	Acute gastric ulcer with haemorrhage and perforation, without mention of obstruction
531.21	Acute gastric ulcer with haemorrhage and perforation, with obstruction
531.4	Chronic or unspecified gastric ulcer with haemorrhage
531.40	Chronic or unspecified gastric ulcer with haemorrhage, without mention of obstruction
531.41	Chronic or unspecified gastric ulcer with haemorrhage, with obstruction
531.6	Chronic or unspecified gastric ulcer with haemorrhage and perforation
531.60	Chronic or unspecified gastric ulcer with haemorrhage and perforation, without mention of obstruction
531.61	Chronic or unspecified gastric ulcer with haemorrhage and perforation, with obstruction
532.0	Acute duodenal ulcer with haemorrhage
532.00	Acute duodenal ulcer with haemorrhage, without mention of obstruction
532.01	Acute duodenal ulcer with haemorrhage, with obstruction
532.2	Acute duodenal ulcer with haemorrhage and perforation
532.20	Acute duodenal ulcer with haemorrhage and perforation, without mention of obstruction
532.21	Acute duodenal ulcer with haemorrhage and perforation, with obstruction
532.4	Chronic or unspecified duodenal ulcer with haemorrhage

Continued

Supplementary Table 2: Continued

Code	Description
532.40	Chronic or unspecified duodenal ulcer with haemorrhage, without mention of obstruction
532.41	Chronic or unspecified duodenal ulcer with haemorrhage, with obstruction
532.6	Chronic or unspecified duodenal ulcer with haemorrhage and perforation
532.60	Chronic or unspecified duodenal ulcer with haemorrhage and perforation, without mention of obstruction
532.61	Chronic or unspecified duodenal ulcer with haemorrhage and perforation, with obstruction
533.0	Acute peptic ulcer of unspecified site with haemorrhage
533.00	Acute peptic ulcer of unspecified site with haemorrhage, without mention of obstruction
533.01	Acute peptic ulcer of unspecified site with haemorrhage, with obstruction
533.2	Acute peptic ulcer of unspecified site with haemorrhage and perforation
533.20	Acute peptic ulcer of unspecified site with haemorrhage and perforation, without mention of obstruction
533.21	Acute peptic ulcer of unspecified site with haemorrhage and perforation, with obstruction
533.4	Chronic or unspecified peptic ulcer of unspecified site with haemorrhage
533.40	Chronic or unspecified peptic ulcer of unspecified site with haemorrhage, without mention of obstruction
533.41	Chronic or unspecified peptic ulcer of unspecified site with haemorrhage, with obstruction
533.6	Chronic or unspecified peptic ulcer of unspecified site with haemorrhage and perforation
533.60	Chronic or unspecified peptic ulcer of unspecified site with haemorrhage and perforation, without mention of obstruction
533.61	Chronic or unspecified peptic ulcer of unspecified site with haemorrhage and perforation, with obstruction
534.0	Acute gastrojejunal ulcer with haemorrhage
534.00	Acute gastrojejunal ulcer with haemorrhage, without mention of obstruction
534.01	Acute gastrojejunal ulcer with haemorrhage, with obstruction
534.2	Acute gastrojejunal ulcer with haemorrhage and perforation
534.20	Acute gastrojejunal ulcer with haemorrhage and perforation, without mention of obstruction
534.21	Acute gastrojejunal ulcer with haemorrhage and perforation, with obstruction
534.4	Chronic or unspecified gastrojejunal ulcer with haemorrhage
534.40	Chronic or unspecified gastrojejunal ulcer with haemorrhage, without mention of obstruction
534.41	Chronic or unspecified gastrojejunal ulcer with haemorrhage, with obstruction
534.6	Chronic or unspecified gastrojejunal ulcer with haemorrhage and perforation
534.60	Chronic or unspecified gastrojejunal ulcer with haemorrhage and perforation, without mention of obstruction
534.61	Chronic or unspecified gastrojejunal ulcer with haemorrhage and perforation, with obstruction
535.01	Acute gastritis, with haemorrhage
535.11	Atrophic gastritis, with haemorrhage
535.21	Gastric mucosal hypertrophy, with haemorrhage
535.31	Alcoholic gastritis, with haemorrhage
535.41	Other specified gastritis, with haemorrhage
535.51	Unspecified gastritis and gastroduodenitis, with haemorrhage
535.61	Duodenitis, with haemorrhage
535.71	Eosinophilic gastritis, with haemorrhage
537.83	Angiodysplasia of stomach and duodenum with haemorrhage
537.84	Dieulafoy lesion (haemorrhagic) of stomach and duodenum
562.02	Diverticulosis of small intestine with haemorrhage
562.03	Diverticulitis of small intestine with haemorrhage
562.12	Diverticulosis of colon with haemorrhage
562.13	Diverticulitis of colon with haemorrhage
568.81	Haemoperitoneum (non-traumatic)
569.3	Haemorrhage of rectum and anus
569.85	Angiodysplasia of intestine with haemorrhage
569.86	Dieulafoy lesion (haemorrhagic) of intestine
578	Gastrointestinal haemorrhage
578.0	Haematemesis
578.1	Blood in stool
578.9	Haemorrhage of gastrointestinal tract, unspecified
593.81	Vascular disorders of kidney
596.7	Haemorrhage into bladder wall
599.71	Gross haematuria
602.1	Congestion or haemorrhage of prostate
620.7	Haematoma of broad ligament
621.4	Haematometra



Continued

Supplementary Table 2: Continued

Code	Description
623.6	Vaginal haematoma
624.5	Haematoma of vulva
626.2	Excessive or frequent menstruation
626.5	Ovulation bleeding
626.6	Metrorrhagia
626.7	Postcoital bleeding
626.8	Other disorders of menstruation and other abnormal bleeding from female genital tract
626.9	Unspecified disorders of menstruation and other abnormal bleeding from female genital tract
627.1	Postmenopausal bleeding
629.0	Haematocele, female, not elsewhere classified
729.92	Non-traumatic haematoma of soft tissue
782.7	Spontaneous ecchymoses
784.7	Epistaxis
784.8	Haemorrhage from throat
786.3	Haemoptysis
786.30	Haemoptysis, unspecified
786.31	Acute idiopathic pulmonary haemorrhage in infants [AIPHI]
786.39	Other haemoptysis
790.01	Precipitous drop in haematocrit
ICD-10-CM	
D68.32	Haemorrhagic disorder due to extrinsic circulating anticoagulants
H47.02	Haemorrhage in optic nerve sheath
H47.021	Haemorrhage in optic nerve sheath, right eye
H47.022	Haemorrhage in optic nerve sheath, left eye
H47.023	Haemorrhage in optic nerve sheath, bilateral
H47.029	Haemorrhage in optic nerve sheath, unspecified eye
H60.32	Haemorrhagic otitis externa
H60.321	Haemorrhagic otitis externa, right ear
H60.322	Haemorrhagic otitis externa, left ear
H60.323	Haemorrhagic otitis externa, bilateral
H60.329	Haemorrhagic otitis externa, unspecified ear
H92.2	Otorrhagia
H92.20	Otorrhagia, unspecified ear
H92.21	Otorrhagia, right ear
H92.22	Otorrhagia, left ear
H92.23	Otorrhagia, bilateral
I85.01	Oesophageal varices with bleeding
I85.11	Secondary oesophageal varices with bleeding
J94.2	Haemothorax
K20.81	Other oesophagitis with bleeding
K20.91	Oesophagitis, unspecified with bleeding
K22.11	Ulcer of oesophagus with bleeding
K22.6	Gastro-oesophageal laceration-haemorrhage syndrome
K25.0	Acute gastric ulcer with haemorrhage
K25.2	Acute gastric ulcer with both haemorrhage and perforation
K25.4	Chronic or unspecified gastric ulcer with haemorrhage
K25.6	Chronic or unspecified gastric ulcer with both haemorrhage and perforation
K26.0	Acute duodenal ulcer with haemorrhage
K26.2	Acute duodenal ulcer with both haemorrhage and perforation
K26.4	Chronic or unspecified duodenal ulcer with haemorrhage
K26.6	Chronic or unspecified duodenal ulcer with both haemorrhage and perforation
K27.0	Acute peptic ulcer, site unspecified, with haemorrhage
K27.2	Acute peptic ulcer, site unspecified, with both haemorrhage and perforation
K27.4	Chronic or unspecified peptic ulcer, site unspecified, with haemorrhage
K27.6	Chronic or unspecified peptic ulcer, site unspecified, with both haemorrhage and perforation
K28.0	Acute gastrojejunal ulcer with haemorrhage
K28.2	Acute gastrojejunal ulcer with both haemorrhage and perforation



Continued

Supplementary Table 2: Continued

Code	Description
K28.4	Chronic or unspecified gastrojejunal ulcer with haemorrhage
K28.6	Chronic or unspecified gastrojejunal ulcer with both haemorrhage and perforation
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
K31.811	Angiodysplasia of stomach and duodenum with bleeding
K50.011	Crohn's disease of small intestine with rectal bleeding
K50.111	Crohn's disease of large intestine with rectal bleeding
K50.811	Crohn's disease of both small and large intestine with rectal bleeding
K50.911	Crohn's disease, unspecified, with rectal bleeding
K51.011	Ulcerative (chronic) pancolitis with rectal bleeding
K51.211	Ulcerative (chronic) proctitis with rectal bleeding
K51.311	Ulcerative (chronic) rectosigmoiditis with rectal bleeding
K51.411	Inflammatory polyps of colon with rectal bleeding
K51.511	Left-sided colitis with rectal bleeding
K51.811	Other ulcerative colitis with rectal bleeding
K51.911	Ulcerative colitis, unspecified with rectal bleeding
K55.21	Angiodysplasia of colon with haemorrhage
K57.01	Diverticulitis of small intestine with perforation and abscess with bleeding
K57.11	Diverticulosis of small intestine without perforation or abscess with bleeding
K57.13	Diverticulitis of small intestine without perforation or abscess with bleeding
K57.21	Diverticulitis of large intestine with perforation and abscess with bleeding
K57.31	Diverticulosis of large intestine without perforation or abscess with bleeding
K57.33	Diverticulitis of large intestine without perforation or abscess with bleeding
K57.41	Diverticulitis of both small and large intestine with perforation and abscess with bleeding
K57.51	Diverticulosis of both small and large intestine without perforation or abscess with bleeding
K57.53	Diverticulitis of both small and large intestine without perforation or abscess with bleeding
K57.81	Diverticulitis of intestine, part unspecified, with perforation and abscess with bleeding
K57.91	Diverticulosis of intestine, part unspecified, without perforation or abscess with bleeding
K57.93	Diverticulitis of intestine, part unspecified, without perforation or abscess with bleeding
K62.5	Haemorrhage of anus and rectum
K63.81	Dieulafoy lesion of intestine
K66.1	Haemoperitoneum
K92.0	Haematemesis
K92.1	Melena
K92.2	Gastrointestinal haemorrhage, unspecified
K94.01	Colostomy haemorrhage
K94.11	Enterostomy haemorrhage
K94.21	Gastrostomy haemorrhage
K94.31	Oesophagostomy haemorrhage
M79.81	Non-traumatic haematoma of soft tissue
N30.01	Acute cystitis with haematuria
N30.11	Interstitial cystitis (chronic) with haematuria
N30.21	Other chronic cystitis with haematuria
N30.31	Trigonitis with haematuria
N30.41	Irradiation cystitis with haematuria
N30.81	Other cystitis with haematuria
N30.91	Cystitis, unspecified with haematuria
N42.1	Congestion and haemorrhage of prostate
N83.7	Haematoma of broad ligament
N85.7	Haematometra



Continued

Supplementary Table 2: Continued

Code	Description
N92.0	Excessive and frequent menstruation with regular cycle
N92.1	Excessive and frequent menstruation with irregular cycle
N92.3	Ovulation bleeding
N92.4	Excessive bleeding in the pre-menopausal period
N93	Other abnormal uterine and vaginal bleeding
N93.0	Postcoital and contact bleeding
N93.1	Pre-pubertal vaginal bleeding
N93.8	Other specified abnormal uterine and vaginal bleeding
N93.9	Abnormal uterine and vaginal bleeding, unspecified
N95.0	Postmenopausal bleeding
R04.0	Epistaxis
R04.1	Haemorrhage from throat
R04.2	Haemoptysis
R04.81	Acute idiopathic pulmonary haemorrhage in infants
R04.89	Haemorrhage from other sites in respiratory passages
R04.9	Haemorrhage from respiratory passages, unspecified
R23.3	Spontaneous ecchymoses
R31.0	Gross haematuria
R58	Haemorrhage, not elsewhere classified
R71.0	Precipitous drop in haematocrit

ICD-9-CM, International Classification of Diseases, 9th Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, 10th Revision, Clinical Modification.

Supplementary Table 3: Possible bleed codes

Code	Description
ICD-9-CM	
280.0	Iron deficiency anaemia secondary to blood loss (chronic)
285.1	Acute post-haemorrhagic anaemia
285.9	Anaemia, unspecified
455.0	Internal haemorrhoids without mention of complication
455.1	Internal thrombosed haemorrhoids
455.2	Internal haemorrhoids with other complication
455.3	External haemorrhoids without mention of complication
455.4	External thrombosed haemorrhoids
455.5	External haemorrhoids with other complication
455.6	Unspecified haemorrhoids without mention of complication
455.7	Unspecified thrombosed haemorrhoids
455.8	Unspecified haemorrhoids with other complication
455.9	Residual haemorrhoidal skin tags
530.10	Oesophagitis, unspecified
530.11	Reflux oesophagitis
530.12	Acute oesophagitis
530.13	Eosinophilic oesophagitis
530.19	Other oesophagitis
531.10	Acute gastric ulcer with perforation, without mention of obstruction
531.11	Acute gastric ulcer with perforation, with obstruction
531.30	Acute gastric ulcer without mention of haemorrhage or perforation, without mention of obstruction
531.31	Acute gastric ulcer without mention of haemorrhage or perforation, with obstruction
531.50	Chronic or unspecified gastric ulcer with perforation, without mention of obstruction
531.51	Chronic or unspecified gastric ulcer with perforation, with obstruction
531.70	Chronic gastric ulcer without mention of haemorrhage or perforation, without mention of obstruction
531.71	Chronic gastric ulcer without mention of haemorrhage or perforation, with obstruction

Continued

Supplementary Table 3: Continued

Code	Description
531.90	Gastric ulcer, unspecified as acute or chronic, without mention of haemorrhage or perforation, without mention of obstruction
531.91	Gastric ulcer, unspecified as acute or chronic, without mention of haemorrhage or perforation, with obstruction
532.30	Acute duodenal ulcer without mention of haemorrhage or perforation, without mention of obstruction
532.31	Acute duodenal ulcer without mention of haemorrhage or perforation, with obstruction
532.50	Chronic or unspecified duodenal ulcer with perforation, without mention of obstruction
532.51	Chronic or unspecified duodenal ulcer with perforation, with obstruction
532.70	Chronic duodenal ulcer without mention of haemorrhage or perforation, without mention of obstruction
532.71	Chronic duodenal ulcer without mention of haemorrhage or perforation, with obstruction
532.90	Duodenal ulcer, unspecified as acute or chronic, without haemorrhage or perforation, without mention of obstruction
532.91	Duodenal ulcer, unspecified as acute or chronic, without mention of haemorrhage or perforation, with obstruction
533.10	Acute peptic ulcer of unspecified site with perforation, without mention of obstruction
533.11	Acute peptic ulcer of unspecified site with perforation, with obstruction
533.30	Acute peptic ulcer of unspecified site without mention of haemorrhage and perforation, without mention of obstruction
533.31	Acute peptic ulcer of unspecified site without mention of haemorrhage and perforation, with obstruction
533.50	Chronic or unspecified peptic ulcer of unspecified site with perforation, without mention of obstruction
533.51	Chronic or unspecified peptic ulcer of unspecified site with perforation, with obstruction
533.70	Chronic peptic ulcer of unspecified site without mention of haemorrhage or perforation, without mention of obstruction
533.71	Chronic peptic ulcer of unspecified site without mention of haemorrhage or perforation, with obstruction
533.90	Peptic ulcer of unspecified site, unspecified as acute or chronic, without mention of haemorrhage or perforation, without mention of obstruction
533.91	Peptic ulcer of unspecified site, unspecified as acute or chronic, without mention of haemorrhage or perforation, with obstruction
534.10	Acute gastroduodenal ulcer with perforation, without mention of obstruction
534.11	Acute gastroduodenal ulcer with perforation, with obstruction
534.30	Acute gastroduodenal ulcer without mention of haemorrhage or perforation, without mention of obstruction
534.31	Acute gastroduodenal ulcer without mention of haemorrhage or perforation, with obstruction
534.50	Chronic or unspecified gastroduodenal ulcer with perforation, without mention of obstruction
534.51	Chronic or unspecified gastroduodenal ulcer with perforation, with obstruction
534.70	Chronic gastroduodenal ulcer without mention of haemorrhage or perforation, without mention of obstruction
534.71	Chronic gastroduodenal ulcer without mention of haemorrhage or perforation, with obstruction
534.90	Gastroduodenal ulcer, unspecified as acute or chronic, without mention of haemorrhage or perforation, without mention of obstruction
534.91	Gastroduodenal ulcer, unspecified as acute or chronic, without mention of haemorrhage or perforation, with obstruction
535.00	Acute gastritis, without mention of haemorrhage
535.10	Atrophic gastritis, without mention of haemorrhage
535.20	Gastric mucosal hypertrophy, without mention of haemorrhage
535.30	Alcoholic gastritis, without mention of haemorrhage
535.40	Other specified gastritis, without mention of haemorrhage
535.50	Unspecified gastritis and gastroduodenitis, without mention of haemorrhage
535.60	Duodenitis, without mention of haemorrhage
562.00	Diverticulosis of small intestine (without mention of haemorrhage)
562.01	Diverticulitis of small intestine (without mention of haemorrhage)
562.10	Diverticulosis of colon (without mention of haemorrhage)
562.11	Diverticulitis of colon (without mention of haemorrhage)
599.70	Haematuria, unspecified
599.72	Microscopic haematuria
790.92	Abnormal coagulation profile
ICD-10-CM	
D50.0	Iron deficiency anaemia secondary to blood loss (chronic)
D62	Acute post-haemorrhagic anaemia
D64.9	Anaemia, unspecified
K20.0	Eosinophilic oesophagitis
K20.8	Other oesophagitis
K20.9	Oesophagitis, unspecified
K21.0	Gastro-oesophageal reflux disease with oesophagitis
K25.1	Acute gastric ulcer with perforation



Continued

Supplementary Table 3: Continued

Code	Description
K25.3	Acute gastric ulcer without haemorrhage or perforation
K25.5	Chronic or unspecified gastric ulcer with perforation
K25.7	Chronic gastric ulcer without haemorrhage or perforation
K25.9	Gastric ulcer, unspecified as acute or chronic, without haemorrhage or perforation
K26.3	Acute duodenal ulcer without haemorrhage or perforation
K26.5	Chronic or unspecified duodenal ulcer with perforation
K26.7	Chronic duodenal ulcer without haemorrhage or perforation
K26.9	Duodenal ulcer, unspecified as acute or chronic, without haemorrhage or perforation
K27.1	Acute peptic ulcer, site unspecified, with perforation
K27.3	Acute peptic ulcer, site unspecified, without haemorrhage or perforation
K27.5	Chronic or unspecified peptic ulcer, site unspecified, with perforation
K27.7	Chronic peptic ulcer, site unspecified, without haemorrhage or perforation
K27.9	Peptic ulcer, site unspecified, unspecified as acute or chronic, without haemorrhage or perforation
K28.1	Acute gastrojejunal ulcer with perforation
K28.3	Acute gastrojejunal ulcer without haemorrhage or perforation
K28.5	Chronic or unspecified gastrojejunal ulcer with perforation
K28.7	Chronic gastrojejunal ulcer without haemorrhage or perforation
K28.9	Gastrojejunal ulcer, unspecified as acute or chronic, without haemorrhage or perforation
K29.00	Acute gastritis without bleeding
K29.20	Alcoholic gastritis without bleeding
K29.30	Chronic superficial gastritis without bleeding
K29.40	Chronic atrophic gastritis without bleeding
K29.50	Unspecified chronic gastritis without bleeding
K29.60	Other gastritis without bleeding
K29.70	Gastritis, unspecified, without bleeding
K29.80	Duodenitis without bleeding
K29.90	Gastroduodenitis, unspecified, without bleeding
K56.699	Other intestinal obstruction unspecified as to partial versus complete obstruction
K57.00	Diverticulitis of small intestine with perforation and abscess without bleeding
K57.10	Diverticulosis of small intestine without perforation or abscess without bleeding
K57.12	Diverticulitis of small intestine without perforation or abscess without bleeding
K57.20	Diverticulitis of large intestine with perforation and abscess without bleeding
K57.30	Diverticulosis of large intestine without perforation or abscess without bleeding
K57.32	Diverticulitis of large intestine without perforation or abscess without bleeding
K57.40	Diverticulitis of both small and large intestine with perforation and abscess without bleeding
K57.50	Diverticulosis of both small and large intestine without perforation or abscess without bleeding
K57.52	Diverticulitis of both small and large intestine without perforation or abscess without bleeding
K57.80	Diverticulitis of intestine, part unspecified, with perforation and abscess without bleeding
K57.90	Diverticulosis of intestine, part unspecified, without perforation or abscess without bleeding
K57.92	Diverticulitis of intestine, part unspecified, without perforation or abscess without bleeding
K64.0	First degree haemorrhoids
K64.1	Second degree haemorrhoids
K64.2	Third degree haemorrhoids
K64.3	Fourth degree haemorrhoids
K64.4	Residual haemorrhoidal skin tags
K64.5	Perianal venous thrombosis
K64.8	Other haemorrhoids
K64.9	Unspecified haemorrhoids
R31.1	Benign essential microscopic haematuria
R31.2	Other microscopic haematuria
R31.21	Asymptomatic microscopic haematuria
R31.29	Other microscopic haematuria
R31.9	Haematuria, unspecified
R79.1	Abnormal coagulation profile

ICD-9-CM, International Classification of Diseases, 9th Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, 10th Revision, Clinical Modification.