

Appendix 1: Read codes, ICD-10 codes and OPCS codes used to define aortic aneurysm.

Read codes used to define a definite diagnosis of aortic aneurysm:

G71..00	Aortic aneurysm
G714.00	Abdominal aortic aneurysm without mention of rupture
7A14.11	Aortic aneurysm repair
G714.11	AAA - Abdominal aortic aneurysm without mention of rupture
G710.00	Dissecting aortic aneurysm
G713.11	Ruptured abdominal aortic aneurysm
G715.00	Ruptured aortic aneurysm NOS
G71z.00	Aortic aneurysm NOS
G713.00	Abdominal aortic aneurysm which has ruptured
G712.00	Thoracic aortic aneurysm without mention of rupture
7A13.11	Emergency repair of aortic aneurysm
7A14.00	Other replacement of aneurysmal segment of aorta
G711.11	Ruptured thoracic aortic aneurysm
G718.00	Leaking abdominal aortic aneurysm
7A19400	Operation on aneurysm of aorta NEC
G711.00	Thoracic aortic aneurysm which has ruptured
7A13.00	Emergency replacement of aneurysmal segment of aorta
7A14400	Replace aneurysm abdominal aorta by anast aorta to aorta NEC
G716000	Thoracoabdominal aortic aneurysm, without mention of rupture
G715000	Thoracoabdominal aortic aneurysm, ruptured

7A14z00	Other replacement of aneurysmal segment of aorta NOS
7A1C000	Endovas ins stent graft for infrarenal abdom aortic aneurysm
G714000	Juxtarenal aortic aneurysm
7A14300	Replace aneurys infrarenal aorta by anast aorta to aorta NEC
7A11.00	Replacement of aneurysmal bifurcation of aorta
7A1B000	Endovascular stenting infrarenal abdominal aortic aneurysm
7A14411	Tube graft of Abdominal aortic aneurysm
7A11311	Y graft abdominal Aortic aneurysm
7A14y00	Other replacement of aneurysmal segment of aorta OS
7A1B200	Endovascular stenting of thoracic aortic aneurysm
G714100	Inflammatory abdominal aortic aneurysm
7A14100	Replace aneurysm thoracic aorta by anast of aorta/aorta NEC
7A11300	Replace aneurysm bifurc aorta by anast aorta to iliac artery
7A1C200	Endov insertion of stent graft for thoracic aortic aneurysm
7A14000	Replace aneurysm ascend aorta by anast of aorta/aorta NEC
7A13y00	Emergency replacement of aneurysmal segment of aorta OS
7A13300	Emerg replace aneurysm infrarenal aorta by anast aorta/aorta
7A13z00	Emergency replacement of aneurysmal segment of aorta NOS
7A13411	Tube graft abdominal Aortic aneurysm (emergency)
7A11100	Replace aneurysm bifurc aorta by anast aorta to femoral art
G713000	Ruptured suprarenal aortic aneurysm
7A13400	Emerg replace aneurysm abdom aorta by anast aorta/aorta NEC
7A34K00	Operation on aneurysm visceral branch of abdominal aorta NEC
7A11z00	Replacement of aneurysmal bifurcation of aorta NOS

7A11200	Emerg repl aneurysm bifurc aorta by anast aorta to iliac a
7A1B.00	Transluminal operations on aneurysmal segment of aorta
7A1C.00	Translum insert stent graft for aneurysmal segment of aorta
7A11211	Y graft of abdominal Aortic aneurysm (emergency)
7A1Cz00	Translum ins stent graft for aneurysmal segment of aorta NOS
7A1C100	Endovas insert of stent graft for suprarenal aortic aneurysm
7A1B500	Endovascular stenting of aorto-uniliac aneurysm
7A14200	Replace aneurys suprarenal aorta by anast aorta to aorta NEC
7A11y00	Replacement of aneurysmal bifurcation of aorta OS
7A13100	Emerg replace aneurysm thor aorta by anastom aorta to aorta
7A11000	Emerg repl aneurysm bifurc aorta by anast aorta to fem art
7A1B100	Endovascular stenting of suprarenal aortic aneurysm
7A1B700	Endovascular stenting for aorto-uniliac aneurysm

Read codes used to define a possible diagnosis of aortic aneurysm:

7A12100	Bypass bifurc aorta by anastom aorta to femoral artery NEC
7A1..00	Aorta operations
G716.00	Aortic aneurysm without mention of rupture NOS
7A16400	Bypass of abdominal aorta by anastomosis aorta to aorta NEC
7A1A000	Percutaneous transluminal balloon angioplasty of aorta
7A18.00	Plastic repair of aorta
7N42600	[SO]Abdominal aorta NEC
7A1z.00	Aorta operations NOS
7A10300	Axillo-unifemoral PTFE bypass graft

7A18z00	Plastic repair of aorta NOS
7A1A100	Percutaneous transluminal angioplasty of aorta NEC
7A19100	Endarterectomy of aorta NEC
7A1y.00	Other specified operations on aorta
7A1..11	Dacron graft operations on aorta
7A16.00	Other bypass of segment of aorta
7A18100	Plastic repair of aorta using subclavian flap
7A18200	Plastic repair of aorta using patch graft
7A1AA00	Percutaneous transluminal insertion of stent into aorta
7A18000	Plastic repair of aorta and end to end anastomosis of aorta
7A19.00	Other open operations on aorta
7A19000	Endarterectomy of aorta and patch repair of aorta
7A1A.11	Percutaneous transluminal operations on aorta
7A1Az00	Transluminal operation on aorta NOS
7A18500	Plastic repair of aorta and insertion of tube graft
7A19z00	Other open operation on aorta NOS
5562	Abdominal aortogram abnormal
7A1A500	Percutaneous transluminal balloon angioplasty stenting aorta
7A1A200	Percutaneous transluminal embolectomy of aortic bifurcation
7A1A.00	Transluminal operations on aorta
7A10.00	Extraanatomic bypass of aorta
7A1A600	Percutan transluminal aortic stent graft fenestration NEC
7A15.00	Other emergency bypass of segment of aorta
7A18y00	Other specified plastic repair of aorta

7A1A700	Percutaneous transluminal aortic stent graft branches NEC
7A1B400	Endovascular stenting of aortic bifurcation NEC
7A16000	Bypass of ascending aorta by anastomosis aorta to aorta NEC
7A33.00	Reconstruction of other visceral branch of abdominal aorta
7A1Ay00	Other specified transluminal operation on aorta
7A1B300	Endovascular stenting of aortic dissection in any position
7A1C300	Endov ins stent graft for aortic dissection in any position
7A1C400	Endovas insertion of stent graft for aortic bifurcation NEC
7A12000	Emerg bypass bifurc aorta by anast aorta to femoral artery
7A16300	Bypass of infrarenal aorta by anastomosis aorta to aorta NEC
7A16100	Bypass of thoracic aorta by anastomosis aorta to aorta NEC
7A17100	Revision of prosthesis of bifurcation of aorta
7A15000	Emerg bypass ascending aorta by anastom aorta to aorta NEC
7A19y00	Other specified other open operation on aorta
7A1A800	Transluminal aortic stent graft with fenestration NEC

ICD-10 codes used to define a definite diagnosis of aortic aneurysm

I71.0	Dissection of aorta [any part]
I71.1	Thoracic aortic aneurysm, ruptured
I71.2	Thoracic aortic aneurysm, without mention of rupture
I71.3	Abdominal aortic aneurysm, ruptured
I71.4	Abdominal aortic aneurysm, without mention of rupture
I71.5	Thoracoabdominal aortic aneurysm, ruptured
I71.6	I71.6 Thoracoabdominal aortic aneurysm, without mention of

	rupture
I71.8	Aortic aneurysm of unspecified site, ruptured
I71.9	Aortic aneurysm of unspec site, without mention of rupture
I79.0	Aneurysm of aorta in diseases classified elsewhere

ICD-10 codes used to define a possible diagnosis of aortic aneurysm

I72.9	Aneurysm of unspecified site
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OPCS codes used to define a definite diagnosis of aortic aneurysm

L18.1	Emergency replacement of aneurysmal segment of ascending aorta by anastomosis of aorta to aorta
L18.2	Emergency replacement of aneurysmal segment of thoracic aorta by anastomosis of aorta to aorta NEC
L18.3	Emergency replacement of aneurysmal segment of suprarenal abdominal aorta by anastomosis of aorta to aorta
L18.4	Emergency replacement of aneurysmal segment of infrarenal abdominal aorta by anastomosis of aorta to aorta
L18.5	Emergency replacement of aneurysmal segment of abdominal aorta by anastomosis of aorta to aorta NEC
L18.6	Emergency replacement of aneurysmal bifurcation of aorta by anastomosis of aorta to iliac artery
L18.8	Other specified emergency replacement of aneurysmal segment of aorta

L18.9	Unspecified emergency replacement of aneurysmal segment of aorta
L19.1	Replacement of aneurysmal segment of ascending aorta by anastomosis of aorta to aorta NEC
L19.2	Replacement of aneurysmal segment of thoracic aorta by anastomosis of aorta to aorta NEC
L19.3	Replacement of aneurysmal segment of suprarenal abdominal aorta by anastomosis of aorta to aorta NEC
L19.4	Replacement of aneurysmal segment of infrarenal abdominal aorta by anastomosis of aorta to aorta NEC
L19.5	Replacement of aneurysmal segment of abdominal aorta by anastomosis of aorta to aorta NEC
L19.6	Replacement of aneurysmal bifurcation of aorta by anastomosis of aorta to iliac artery NEC
L19.8	Other specified other replacement of aneurysmal segment of aorta
L19.9	Unspecified other replacement of aneurysmal segment of aorta
L25.4	Operations on aneurysm of aorta NEC
L27.1	Endovascular insertion of stent graft for infrarenal abdominal aortic aneurysm
L27.2	Endovascular insertion of stent graft for suprarenal aortic aneurysm
L27.3	Endovascular insertion of stent graft for thoracic aortic aneurysm
L27.4	Endovascular insertion of stent graft for aortic dissection in any position

L27.5	Endovascular insertion of stent graft for aortic aneurysm of bifurcation NEC
L27.6	Endovascular insertion of stent graft for aorto-uniliac aneurysm
L27.8	Other specified transluminal insertion of stent graft for aneurysmal segment of aorta
L27.9	Unspecified transluminal insertion of stent graft for aneurysmal segment of aorta
L28.1	Endovascular stenting for infrarenal abdominal aortic aneurysm
L28.2	Endovascular stenting for suprarenal aortic aneurysm
L28.3	Endovascular stenting for thoracic aortic aneurysm
L28.4	Endovascular stenting for aortic dissection in any position

OPCS codes used to define a possible diagnosis of aortic aneurysm

L20.1	Emergency bypass of segment of ascending aorta by anastomosis of aorta to aorta NEC
L20.2	Emergency bypass of segment of thoracic aorta by anastomosis of aorta to aorta NEC
L20.3	Emergency bypass of segment of suprarenal abdominal aorta by anastomosis of aorta to aorta NEC
L20.4	Emergency bypass of segment of infrarenal abdominal aorta by anastomosis of aorta to aorta NEC
L20.5	Emergency bypass of segment of abdominal aorta by anastomosis of aorta to aorta NEC
L20.6	Emergency bypass of bifurcation of aorta by anastomosis of

	aorta to iliac artery NEC
L20.8	Other specified other emergency bypass of segment of aorta
L20.9	Unspecified other emergency bypass of segment of aorta
L21.1	Bypass of segment of ascending aorta by anastomosis of aorta to aorta NEC
L21.2	Bypass of segment of thoracic aorta by anastomosis of aorta to aorta NEC
L21.3	Bypass of segment of suprarenal abdominal aorta by anastomosis of aorta to aorta NEC
L21.4	Bypass of segment of infrarenal abdominal aorta by anastomosis of aorta to aorta NEC
L21.5	Bypass of segment of abdominal aorta by anastomosis of aorta to aorta NEC
L21.6	Bypass of bifurcation of aorta by anastomosis of aorta to iliac artery NEC
L21.8	Other specified other bypass of segment of aorta
L21.9	Unspecified other bypass of segment of aorta
L22.1	Revision of prosthesis of thoracic aorta
L22.2	Revision of prosthesis of bifurcation of aorta
L22.3	Revision of prosthesis of abdominal aorta NEC
L22.4	Removal of prosthesis from aorta
L22.8	Other specified attention to prosthesis of aorta
L22.9	Unspecified attention to prosthesis of aorta
L23.1	Plastic repair of aorta and end to end anastomosis of aorta

L23.2	Plastic repair of aorta using subclavian flap
L23.3	Plastic repair of aorta using patch graft
L23.4	Release of vascular ring of aorta
L23.5	Revision of plastic repair of aorta
L23.6	Plastic repair of aorta and insertion of tube graft
L23.7	Repair of interrupted aortic arch
L23.8	Other specified plastic repair of aorta
L23.9	Unspecified plastic repair of aorta
L25.1	Endarterectomy of aorta and patch repair of aorta
L25.2	Endarterectomy of aorta NEC
L25.5	Operations on aortic body
L25.8	Other specified other open operations on aorta
L26.1	Percutaneous transluminal balloon angioplasty of aorta
L26.2	Percutaneous transluminal angioplasty of aorta NEC
L26.3	Percutaneous transluminal embolectomy of bifurcation of aorta
L26.4	Aortography
L26.5	Percutaneous transluminal insertion of stent into aorta
L26.6	Transluminal aortic stent graft with fenestration NEC
L26.7	Transluminal aortic stent graft with branches NEC
L26.8	Other specified transluminal operations on aorta
L26.9	Unspecified transluminal operations on aorta