

Supplementary information

This appendix addresses the definition of variables.

Amputation codes

Primary major amputations

Above knee amputation

Hip disarticulation	KNFQ09
Transfemoral amputation	KNFQ19
Other amputation on the femur/hip	KNFQ99

Below knee amputation

Knee disarticulation	KNGQ09
Transtibial amputation	KNGQ19
Other amputation on knee/tibia	KNGQ99

Revision codes – stump revision

knee/lower leg	KNGQ29
after knee disarticulation	KNGQ29A
after transtibial amputation	KNGQ29B
hip/tight	KNFQ29
after hip disarticulation	KNFQ29A
after transfemoral amputation	KNFQ29B

Prior minor amputation is defined as 1 or more registered procedures before index surgery with procedure code KNHQ* despite TUL codes.

Minor amputations

Foot amputation	KNHQ10–18, KNHQ99, KNHQ00
Toe amputation	KNHQ02–07, KNHQ14

Osseointegration codes are excluded: KNGQ39, KNGQ49, KNFQ39, KNFQ49

A case is excluded in case of a revision code without a prior primary amputation code.

KNGQ99/KNFQ99 are grouped as transfemoral amputation (KNFQ19) or transtibial amputation (KNGQ19), respectively.

Sarcoma exclusion criteria: A case is excluded if a sarcoma diagnosis (DC40*, DC41* or DC49*) was registered ± 1 year from index surgery.

Trauma exclusion criteria: An amputation is classified as trauma associated, and then excluded if 1 of the following ICD10 codes is present in relation to the amputation: DS980 (traumatic amputation, foot), DS88* (traumatic amputation, knee), DS78* (traumatic amputation, hip), DT136 (traumatic

amputation, lower extremity, unspecified), DT05, DT053-6, DT058-9 (traumatic amputation, in combination), DT036 (sequelae after traumatic amputation, lower extremity).

Prior revascularization procedure

Prior revascularization procedure is defined as 1 or more registered revascularization procedures before index: KPDA*, KPDC*, KPDE*, KPDE*, KPDF*, KPDH*, KPDN*, KPDP*, KPDQ*, KPDT10, KPDT30, KPDU70, KPDU74, KPDU82-84, KPDU87, KPDU99, KPEA*, KPEC*, KPEE*, KPEF*, KPEH*, KPEN*, KPEP*, KPEQ*, KPET*, KPEU74, KPEU82-84, KPEU87, KPEU99, KPFE*, KPFH*, KPFN*, KPFP*, KPFT*, KPFQ*, KPFU74, KPFU82-84, KPFU87, KPFU99, KPGH*, KPGU74, KPGU83-84, KPGU87, KPGU99, KPGW99.

Definition for diagnoses, ICD10

Diabetes

A patient is categorized with diabetes if 1 of the following ICD10 codes is registered: E10*, E11*, E13*, E14* or the patient has redeemed 2 or more anti-diabetic medicine prescriptions in the same ATC group with the following ATC codes 5 years before the index date: A10A (insulins and analogs) A10B (blood glucose lowering drugs, excl. insulins), A10X (other drugs used in diabetes).

Hypertension

A patient is categorized with hypertension if 1 of the following ICD10 codes I10*–I15* is registered or the patient has redeemed 2 or more prescriptions in the same ATC group 5 years before the index date: antihypertensives (C02–C03, C07–C09).

Dyslipidemia:

A patient is categorized with dyslipidemia if the ICD10-code E78 is registered, or the patient has redeemed 2 or more prescriptions in the same ATC group 5 years before the index date: C10.

Cardiovascular disease (CVD)

A patient is categorized with CVD if 1 of the following ICD10 codes is registered: I20–I25* (angina, myocardial infarction, and ischemic coronary disease), I50* (incompensatio cordis), I63–I67 (cerebral infarction, occlusion of vertebral and cerebral arteries) or G45–G46 (transient ischemic attack, TCI).

Renal insufficiency

A patient is categorized with renal insufficiency if 1 of the following ICD10 codes is registered: N18*, (chronic kidney disease) or N19* (unspecified kidney failure).

Atherosclerosis/PAD:

Atherosclerosis/peripheral arterial disease (PAD) is defined as 1 or more of the following ICD10 codes: I70, I702, I709, I739A, I739C or I743

Table 3. Absolute proportions of procedures at death within the first year of amputation. Values are count (%)

	Transtibial amputation				Transfemoral amputation			
	No. of proc.	30 days	Death at 90 days	1 year	No. of proc.	30 days	Death at 90 days	1 year
2010	381	37 (9.7)	67 (18)	117 (31)	509	138 (27)	203 (40)	279 (55)
2011	351	53 (15)	70 (20)	111 (32)	449	113 (25)	162 (36)	221 (49)
2012	360	51 (14)	78 (22)	131 (36)	542	125 (23)	201 (37)	272 (50)
2013	367	62 (17)	90 (25)	125 (34)	544	136 (25)	174 (32)	247 (45)
2014	349	35 (10)	53 (15)	99 (28)	546	123 (23)	188 (34)	269 (49)
2015	328	38 (12)	63 (19)	94 (29)	654	136 (21)	211 (32)	305 (47)
2016	312	24 (7.7)	47 (15)	75 (24)	696	167 (24)	247 (36)	327 (47)
2017	383	46 (12)	74 (19)	126 (33)	657	166 (25)	247 (38)	325 (50)
2018	314	35 (11)	48 (15)	80 (26)	672	138 (21)	197 (29)	288 (43)
2019	293	23 (7.8)	35 (12)	69 (24)	661	141 (21)	211 (32)	303 (45)
2020	263	21 (8.0)	35 (13)	68 (25)	671	142 (21)	213 (32)	315 (47)
2021	220	15 (6.8)	23 (11)	45 (21)	683	148 (21)	218 (32)	315 (47)
Total	3,921	440 (11)	683 (17)	1,140 (29)	7,284	1,673 (23)	2,472 (34)	3,466 (48)