

Table S1 List of SKS, ICD-8 and -10 codes that are possibly related to an arterial puncture, as selected by two clinical physicians and categorised by three independent blinded surgeons

Code	Very likely	Possible but unlikely	Not possible
44299 – Aneurysm arteria aliud	X		XX
44441 – Embolism, thrombosis arteria femoralis	X		XX
44442 - Embolism, thrombosis arteria popliteae	X		XX
44444 - Embolism, thrombosis arteria periphericae extremitatis	X		XX
68229 - Inflammation, abscess and acute lymphangioma. brachii and antebrachii	X		XX
95209 – Traumatic lesion plexus brachialis and nervi brachii, uncomplicated	X		XX
DG560 – Carpal tunnel syndrome		X	XX
DG562 – Neuropathy in nervus ulnaris			XXX
DI721 – Aneurism upper extremity	X X		X
DI721 – Aneurism in artery in upper extremity	X	X	X
DI724 - Aneurism in artery in lower extremity	X X		X
DI729 - Aneurism unspecified	X X		X
DI742 – Embolism or thrombosis in artery in upper extremity	X X		X
DI742A - Embolism or thrombosis in upper extremity	X	X	X
DI742A - Emboli arteria brachialis	X	X	X
DI742B - Thrombosis in artery in upper extremity	X X		X
DI742B - Thrombosis arteria brachialis	X X		X
DI743 - Embolism or thrombosis in artery in lower extremity	X X		X
DI743A - Embolism in artery in lower extremity	X	X	X
DI743B - Thrombosis in artery in lower extremity	X X		X
DI744 - Embolism or thrombosis in artery in unspecified extremity	X		XX
DI748 – Embolism or thrombosis in other artery		X	XX
DI749 - Embolism or thrombosis in artery unspecified	X		XX
DI770 - Acquired A-V fistula	X X		X
DI771 – Artery stricture	X	X	X
DI771 – Stricture of artery	X		XX
DI772 – Artery rupture			XXX
DI775 – Artery necrosis		X	XX
DI803A – Embolism in lower extremity unspecified		X	XX
DM622A – Non-traumatic compartment syndrome			XXX
DS451 – Lesion of arteria brachialis	X X		X
DS540 - Lesion of nervus ulnaris in elbow region or lower arm		X	XX
DS541 – Lesion of nervus medianus in elbow region or lower arm	X	X	X
DS542 - Lesion of nervus radialis in elbow region or lower arm	X		XX

DS550 - Lesion of nervus ulnaris in elbow region or lower arm	X X	X	
DS551 – Lesion of arteria radialis in elbow region or lower arm	X X X		
DS561 – Lesion of muscle/tendon of long flexor to a finger on lower arm		X	XX
DS562 – Lesion of muscle or tendon of other flexor on lower arm		X	XX
DS568 – Lesion of an or unspecified muscle or tendon in elbow/lower arm		X	XX
DS641 – Lesion of nervus medianus in wrist or hand	X	X	X
DS659 – Lesion of blood vessel in wrist or hand unspecified	X X		X
DS660 – Lesion of long flexors to thumb in wrist/hand		X	XX
DS661 – Lesion of flexors to unspecified finger in wrist or hand		X	XX
DS750 – Lesion in arteria femoralis	X		XX
DT145 – Lesion in blood vessel without indication of body region	X	X	X
DT801 – Complication in vessel after infusion, transfusion on injection	X X		X
DT802 - Infection after infusion, transfusion or injection	X X		X
DT808 – Other complication after infusion, transfusion or injection	X X		X
DT809 – Complication after infusion, transfusion or injection unspecified	X X		X
DT812K - Inadverted preoperative puncture/lesion of vein or lymph system	X	X	X
DT814 – Infection after intervention unspecified		X X	X
DT817 – Complication in vessel after intervention unspecified	X	X X	
DT817B – Thromboembolic complication unspecified		X X	X
DT817K - Thrombosis, embolism or necrosis after vessel operation			XXX
DT819 – Complication of procedure unspecified		X	XX
DT88 – Complications with or with surgery	X	X	X
DT888 – Complication with surgery or with unspecified treatment, other specified	X	X X	
KACA11 - Exploration, n. medianus		X	XX
KACA13 - Exploration, n. ulnaris		X	XX
KACC51 - Decompression and loosening of nervus medianus		X X	X
KACC53 - Decompression and loosening of nervus ulnaris		X X	X
KNCA00 - Exploration in soft tissue in lower arm, percutaneous		X	XX

KNCA02 - Exploration in soft tissue in lower arm, open		X	XX
KNCM09 – Fasciotomy in lower arm		X X	X
KNCM19 – Resection or excision of fasciae in lower arm			XXX
KNCM99 – Operation on fasciae, tendons, ganglion, bursa, elbow/lower arm, other			XXX
KNCS09 - Incision/revision of infection in tendon in elbow/lower arm		X	XX
KNCS99 – Operation for infection in tendons, joints and bones, elbow / lower arm, other		X	XX
KNDA02 - Exploration of soft tissue, wrist and hand, open		X	XX
KNDM09 - Fasciotomy of wrist/hand			XXX
KNDM19 - Fasciotomy partial/total (incl. op pro mb. Dupuytren)		X	XX
KNDS09 - Incision/revision of infection in tendon in wrist/hand		X	XX
KNDS99 – Other operation for infection in tendon, joint or bone in wrist/hand		X	XX
KQCA00 – Puncture of skin in upper extremity			XXX
KQCA10 - Incision of skin in upper extremity			XXX
KQCA99 - Incision of skin in upper extremity, other			XXX
KQCB00 – Suture of skin in upper extremity			XXX
KQCB05 – Wound revision in upper extremity		X	XX
KQCB10 – Replacement of larger wounds in upper extremity		X	XX
KQCB99 – Wound treatment in upper extremity, other		X	XX
KTNC00 – Puncture or needle biopsy in elbow/lower arm		X	XX
KTNC05 - Minor incision or soft tissue in elbow/lower arm		X	XX
KTND00 – Puncture or needle biopsy in wrist/hand		X X	X
KTND05 - Minor incision of soft tissue in wrist/hand		X	XX

Table S2 List of SKS, ICD-8 and -10 codes that were registered in patients that had a complication after an AP, categorised into five categories

Code		Category
DI742	Embolism or thrombosis in artery in upper extremity	Embolism or Thrombosis
DI743	Embolism or thrombosis in artery in lower extremity	Embolism or Thrombosis
DI743A	Embolism in artery in lower extremity	Embolism or Thrombosis
DI743B	Thrombosis in artery in lower extremity	Embolism or Thrombosis
DI744	Embolism or thrombosis in artery in unspecified extremity	Embolism or Thrombosis
DI749	Embolism or thrombosis in artery unspecified	Embolism or Thrombosis
44441	Embolism, thrombosis arteria femoralis	Embolism or Thrombosis
44442	Embolism, thrombosis arteria popliteae	Embolism or Thrombosis
44444	Embolism, thrombosis arteria periphericae extremitatis	Embolism or Thrombosis
DI721	Aneurism upper extremity	Aneurysm
DI721	Aneurism in artery in upper extremity	Aneurysm
DI724	Aneurism in artery in lower extremity	Aneurysm
DI729	Aneurism unspecified	Aneurysm
44299	Aneurysm arteria aliud	Aneurysm
DS541	Lesion of nervus medianus in elbow region or lower arm	Nerve damage
DS641	Lesion of nervus medianus in wrist or hand	Nerve damage
DI770	Acquired A-V fistula	Arteriovenous fistulas
DS550	Lesion of nervus ulnaris in elbow region or lower arm	Other
DS750	Lesion in arteria femoralis	Other
DT145	Lesion in blood vessel without indication of body region	Other
DT801	Complication in vessel after infusion, transfusion on injection	Other
DT808	Other complication after infusion, transfusion or injection	Other
DT809	Complication after infusion, transfusion or injection unspecified	Other
DT812K	Inadverted preoperative puncture/lesion of vein or lymph system	Other
DT817	Complication in vessel after intervention unspecified	Other
DT88	Complications with or with surgery	Other
DT888	Complication with surgery or with unspecified treatment, other specified	Other
68229	Inflammation, abscess and acute lymphangioma. brachii and antebrachii	Other