

APPENDIX: The Master Classification for adverse outcomes, version as used for the surgical series described in this paper

Axis 1: Type (pathology)			
Type-category		Type	
A	rejection / allergy / other immunological reaction	Al	allergic reaction
		Ar	Rejection
		At	transfusion reaction
		Ay	other specified immunological reaction
		Az	other non-specified immunological reaction
B	bleeding / hematoma		
D	pressure sore		
F	Fistula		
G	functional disorder (not immunological or psychological)		
I	Ischemia		
K	symptom without diagnosis	Kb	haematological abnormality
		Ko	fever
		Kp	pain
		Km	metabolic abnormality (water / electrolytes)
		Ky	other specified symptoms
		Kz	other non-specified symptoms
L	injury by mechanical / physical-chemical cause	Lb	burn
		Lf	fracture
		Li	luxation
		Lm	mechanical problem
		Lp	puncture / perforation
		Ls	transection (resulting in discontinuity)
		Ly	other specified injuries
		Lz	other non-specified injuries
N	necrosis / infarction	Ne	necrosis
		Ni	infarction
O	inflammation/infection		
P	psychological disturbance		
R	procedure with specified unintended substandard outcome		
S	shock		
T	thrombosis / embolus		
V	accumulation / leakage of body fluids		
W	abnormal wound healing	Wf	delayed consolidation of fracture / pseudarthrosis
		Wn	anastomotic dehiscence / leakage
		Ww	wound dehiscence
		Wy	other specified abnormal wound healing
		Wz	other non-specified abnormal wound healing
Z	other / non-specified	Zy	other specified adverse outcome
		Zz	other non-specified adverse outcome

Axis 2-1: Localization - topography			
Region		Part	
1	head	11	scalp
		12	cranium
		13	ear
		14	face
		19	head (other/not-specified)
2	neck	21	throat
		22	(back of the) neck
		29	neck (o/n-s)
3	back	31	thoracic dorsum
		32	lumbosacral dorsum
		39	back (o/n-s)
4	thorax	41	chest wall/pleura (armpit)
		42	chest cavity
		49	chest (o/n-s)
5	abdomen	51	abdominal wall, peritoneum
		52	abdominal cavity
		59	abdomen (o/n-s)
6	pelvis	61	pelvic wall / groin
		62	pelvic cavity
		69	pelvis (o/n-s)
7	arm	71	shoulder / upper arm
		72	elbow / forearm
		73	wrist / hand
		79	arm (o/n-s)
8	leg	81	hip / upper leg
		82	knee / lower leg
		83	ankle / foot
		89	leg (o/n-s)
9	o/ns	98	other specified region
		99	other non-specified region

Axis 2-2: Localization - Organ (-system)			
Organ system	Organ		
A	vestibulocochlear organ		
C	circulatory tract	C1	heart
		C2	central arteries
		C3	central veins
		C4	other blood vessels
		C5	Spleen
		C9	circulation (o/n-s)
D	digestive tract	D1	mouth / throat
		D2	oesophagus
		D3	stomach / duodenum
		D4	small intestine
		D5	large intestine / rectum / anus
		D6	liver
		D7	gall bladder / biliary tract
		D8	exocrine pancreas
		D9	(o/n-s) (other / non-specified)
E	endocrine system	E1	pituitary gland
		E2	(para)thyroid gland
		E3	adrenal gland
		E4	endocrine pancreas
		E5	endocrine system (o/n-s)
G	genital tract	G1	external genitalia, male
		G2	external genitalia, female
		G3	internal genitalia, male
		G4	internal genitalia, female
		G9	genitalia (o/n-s)
H	skin / sub cutis (incl. breast)	H1	skin layers
		H2	breast
		H3	other skin glands / appendices
		H9	skin (o/n-s)
N	nervous system	N1	brain
		N2	cranial nerves / -ganglia
		N3	spinal cord
		N4	peripheral nerves
		N9	nervous system (o/n-s)
O	visual system	O1	eye
		O2	adnex of the eye
		O9	eye (o/n-s)
R	respiratory tract	R1	larynx / trachea
		R2	bronchus / lung
		R9	respiratory system (o/n-s)
U	urinary tract	U1	kidney
		U2	ureter
		U3	bladder
		U4	urethra
		U9	urinary system (o/n-s)
Z	Other / non-specified tract (o/ns)	Z1	multiple organ systems
		Z8	other organ specified
		Z9	other organ not specified

Axis 2-3: Localization (-tissue)			
Tissue category		Tissue	
b	bursa		
c	connective tissue		
g	joint		
h	blood		
i	interstitium		
l	lymph gland / vessel		
m	muscle / tendon		
n	nervous tissue	n1	motor
		n2	sensory
P	parenchyma	n3	mixed
R	lymphoreticular tissue	n4	autonomous
S	skeleton / bone	n9	nervous tissue (o/n-s)
V	peripheral vascular system	v1	artery
		v2	vein
		v3	capillary
		v9	blood vessel (o/n-s)
W	bone marrow		

Axis 3: External factors and other characteristics			
Category		Factor	
a	medical implants, gear and instruments	a1	vascular prosthesis
		a2	other internal prosthesis / implant / osteosynthesis
		a3	laparoscopic machinery / instrumentation
		a4	endoscopic machinery / instruments
		a5	other instruments
		a6	respirator
		a9	machinery and instruments (other/non-specified)
b	biological / human material	b1	human blood (products)
		b2	vaccines / immunoglobulin
		b9	biological / human material (o/n-s)
e	external factor and other characteristics	e1	mechanical injury (cut / puncture / perforation)
		e2	radiation / heat / other energy source
		e3	corpus alienum
		e4	precautionary measure
		e5	treatment choice
		e6	dosage
		e7	administered medical / biological substance
		e9	external factor (o/n-s)
		g	medication / other substance used for diagnosis or therapy
gB	medication/preparation for blood		
gC	medication/preparation for heart and circulation		
gD	dermatological medication/preparation		
gG	medication/preparation for urogenital system		
gH	systemic hormonal medication/preparation		
gJ	systemic anti-infectious agent		
gK	liquids for hospital use		
gL	antineoplastic or immune modulating medication/preparation		
gM	medication/preparation for musculoskeletal system		
gN	medication/preparation for central nervous system		
gP	parasiticides		
gR	medication/preparation for respiratory tract		
gS	medication/preparation for senses		
gV	other specified medication/preparation		
gZ	other non-specified medication/preparation		
m	problem of management / organization		
		m2	management of other specialist
		m3	nursing management
		m4	management of organization
		m5	management of patient
		m9	management / organization (o/n-s)
o	other medical devices	o1	urinary catheter
		o2	vascular / other catheter
		o3	drain
		o9	medical devices (o/n-s)
t	transplant	t1	autograft
		t2	allograft
		t3	xenograft
		t9	graft (other / non-specified)
w	wound	w1	wound, superficial (skin and subcutaneous tissue)
		w2	wound, deeper structures (arteries, nerves, muscles, skeleton)
		w3	wound, internal (contents of chest / abdomen)
		w8	wound, other specified
		w9	wound, non-specified