Appendix A: Lists of complications

Level	Complication list AAA
1	Elevated troponin levels requiring surveillance by a cardiologist
2	Acute myocardial infarction requiring percutaneous coronary intervention
3	Acute myocardial infarction requiring resuscitation
1	Allergic reaction (due to contrast allergy) requiring to abort treatment and start medication
2	Allergic reaction (due to contrast allergy) requiring to abort treatment and start incdication Allergic reaction (due to contrast allergy) requiring to abort treatment and ventilator support
	Aneurysm rupture requiring endovascular surgical re-intervention
3	Aneurysm rupture requiring endovascular surgical re-intervention Aneurysm rupture requiring open surgical repair
2	Bowel ischemia requiring no additional support Bowel ischemia requiring temporary total parenteral nutrition
3	Bowel ischemia requiring bowel resection
	· •
2	Buttock claudication requiring no additional support Buttock claudication requiring long-term use of analgesics
3	Buttock claudication requiring surgical intervention
2	Congestive heart failure requiring no additional support Congestive heart failure requiring permanent medication
3	Congestive heart failure requiring permanent medication Congestive heart failure requiring resuscitation
3	Deep venous thrombosis requiring long-term anticoagulant therapy Deep venous thrombosis requiring lytic therapy
1	Superficial wound infection requiring oral antibiotics Superficial wound infection requiring opening of the wound at bedside
3	Deep wound infection requiring surgical debridement
1	De novo or worsened peripheral artery disease requiring medicinal support
2	De novo or worsened peripheral artery disease requiring intervention
2	Endoleak type 1 requiring secondary endovascular treatment
3	Endoleak type 1 requiring explantation and open repair
1	Endoleak type 2 resolved after 6 months
3	Endoleak type 2 with no evidence of aneurysm expansion requiring additional follow-up imaging
	Endoleak type 2 requiring secondary endovascular treatment
2	Endoleak type 3 requiring secondary endovascular treatment
3	Endoleak type 3 requiring explantation and open repair
	Erectile dysfunction with spontaneous recovery within 6 months
3	Erectile dysfunction functional with medical therapy Erectile dysfunction requiring popularity
	Erectile dysfunction requiring penile implant
2	Hemorrhage requiring 1 blood transfusion Hemorrhage requiring both blood transfusion and local surgical intervention for control
3	Hemorrhage requiring both blood transfusion and local surgical intervention for control Hemorrhage requiring both massive transfusion and laparotomy
2	Incisional hernia requiring a hernia support belt Incisional hernia requiring surgical repair
2	Pulmonary embolism requiring anticoagulant therapy Pulmonary embolism requiring surgical therapy due to homodynamic instability
3	Pulmonary embolism requiring surgical therapy due to hemodynamic instability
1	Pulmonary infection requiring oral antibiotics
3	Pulmonary infection requiring IV antibiotics Pulmonary infection requiring ventilator current
	Pulmonary infection requiring ventilator support
1	Renal insufficiency requiring surveillance by a nephrologist
2	Renal failure requiring temporary dialysis with permanently reduced renal function requiring
3	surveillance by a nephrologist Renal failure requiring permanent dialysis
3	ixonai fanure requiring permanent utarysis

Sepsis based on a positive blood culture requiring IV antibiotics and ICU support due to hemodynamic instability Spinal cord ischemia resolved within 24 hours Spinal cord ischemia regaining the ability to walk without support within 1 month Spinal cord ischemia with permanent paraplegia Transient ischemic attack requiring no additional treatment Stroke with permanent deficit but the ability to walk without support Stroke with permanent severe impairment and inability to live independently Thrombo-embolic event requiring minor toe or foot amputation Thrombo-embolic event requiring fem-fem crossover surgery Vascular graft limb thrombosis requiring fem-fem crossover surgery Urinary retention requiring one-time catheterization Urinary retention requiring permanent intermittent self-catheterization Vascular graft infection controlled with antibiotics Vascular graft infection requiring graft removal with in situ repair Vascular graft migration requiring secondary endovascular treatment Vascular graft migration requiring explantation and open repair Vascular graft technical deployment problem without conversion Vascular graft technical deployment problem requiring conversion to open surgery Vascular graft technical deployment problem requiring conversion to open surgery Vascular graft technical deployment problem requiring arterial repair Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma with spontaneous resolution Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring thrombin injection Arterial access site pseudoaneurysm requiring brombin injection Arterial access site pseudoaneurysm requiring percutaneous drainage Ureteral lesion requiring surgical repair Bowel lesion requiring primary closure or anastomosis	2	Sepsis based on a positive blood culture requiring IV antibiotics and monitoring on the surgical ward
Spinal cord ischemia resolved within 24 hours Spinal cord ischemia regaining the ability to walk without support within 1 month Spinal cord ischemia with permanent paraplegia Transient ischemic attack requiring no additional treatment Stroke with permanent deficit but the ability to walk without support Stroke with permanent severe impairment and inability to live independently Thrombo-embolic event requiring minor toe or foot amputation Thrombo-embolic event requiring lytic therapy Vascular graft limb thrombosis requiring fem-fem crossover surgery Urinary retention requiring one-time catheterization Urinary retention requiring intravesical catheter for 2 weeks Urinary retention requiring permanent intermittent self-catheterization Vascular graft infection controlled with antibiotics Vascular graft infection requiring graft removal with in situ repair Vascular graft migration requiring no additional intervention Vascular graft migration requiring explantation and open repair Vascular graft self-incal deployment problem without conversion Vascular graft technical deployment problem without conversion to open surgery Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma with spontaneous resolution Arterial access site pseudoaneurysm requiring in prodictional intervention Arterial access site pseudoaneurysm requiring thrombin injection Arterial eccess site pseudoaneurysm requiring surgical repair Ureteral lesion causing a urinoma requiring surgical repair	3	Sepsis based on a positive blood culture requiring IV antibiotics and ICU support due to hemodynamic instability
Spinal cord ischemia regaining the ability to walk without support within 1 month Spinal cord ischemia with permanent paraplegia Transient ischemic attack requiring no additional treatment Stroke with permanent deficit but the ability to walk without support Stroke with permanent severe impairment and inability to live independently Thrombo-embolic event requiring minor toe or foot amputation Thrombo-embolic event requiring lytic therapy Vascular graft limb thrombosis requiring fem-fem crossover surgery Urinary retention requiring one-time catheterization Urinary retention requiring intravesical catheter for 2 weeks Urinary retention requiring permanent intermittent self-catheterization Vascular graft infection controlled with antibiotics Vascular graft infection requiring graft removal with in situ repair Vascular graft migration requiring secondary endovascular treatment Vascular graft migration requiring explantation and open repair Vascular graft migration requiring explantation and open repair Vascular graft technical deployment problem without conversion Vascular graft technical deployment problem requiring conversion to open surgery Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring no additional intervention Arterial access site pseudoaneurysm requiring thrombin injection Arterial access site pseudoaneurysm requiring surgical repair Ureteral lesion causing a urinoma requiring percutaneous drainage Ureteral lesion requiring surgical repair	1	•
Spinal cord ischemia with permanent paraplegia Transient ischemic attack requiring no additional treatment Stroke with permanent deficit but the ability to walk without support Thrombo-embolic event requiring minor toe or foot amputation Thrombo-embolic event requiring lytic therapy Vascular graft limb thrombosis requiring fem-fem crossover surgery Urinary retention requiring one-time catheterization Urinary retention requiring permanent intermittent self-catheterization Vascular graft infection controlled with antibiotics Vascular graft infection requiring no additional intervention Vascular graft migration requiring secondary endovascular treatment Vascular graft migration requiring explantation and open repair Vascular graft technical deployment problem without conversion Vascular graft technical deployment problem without conversion to open surgery Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma with spontaneous resolution Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring no additional intervention Arterial access site pseudoaneurysm requiring no additional intervention Arterial access site pseudoaneurysm requiring monadditional intervention Arterial access site pseudoaneurysm requiring thrombin injection Arterial access site pseudoaneurysm requiring thrombin injection Arterial access site pseudoaneurysm requiring percutaneous drainage Ureteral lesion requiring surgical repair Ureteral lesion requiring surgical repair Bowel lesion requiring primary closure or anastomosis		
1 Transient ischemic attack requiring no additional treatment 2 Stroke with permanent deficit but the ability to walk without support 3 Stroke with permanent severe impairment and inability to live independently 2 Thrombo-embolic event requiring minor toe or foot amputation 3 Thrombo-embolic event requiring lytic therapy 3 Vascular graft limb thrombosis requiring fem-fem crossover surgery 1 Urinary retention requiring one-time catheterization 2 Urinary retention requiring intravesical catheter for 2 weeks 3 Urinary retention requiring permanent intermittent self-catheterization 2 Vascular graft infection controlled with antibiotics 3 Vascular graft infection requiring graft removal with in situ repair 1 Vascular graft migration requiring no additional intervention 2 Vascular graft migration requiring secondary endovascular treatment 3 Vascular graft migration requiring explantation and open repair 1 Vascular graft technical deployment problem without conversion 2 Vascular graft technical deployment problem requiring conversion to open surgery 3 Vascular graft technical deployment problem with permanent disability and inability to live independently 1 Wound hematoma with spontaneous resolution 2 Wound hematoma with spontaneous resolution 3 Wound hematoma with nerve compression requiring arterial repair 4 Arterial access site pseudoaneurysm requiring no additional intervention 3 Arterial access site pseudoaneurysm requiring thrombin injection 3 Arterial access site pseudoaneurysm requiring surgical repair 2 Ureteral lesion causing a urinoma requiring percutaneous drainage 3 Ureteral lesion requiring primary closure or anastomosis		1 11
Stroke with permanent deficit but the ability to walk without support Stroke with permanent severe impairment and inability to live independently Thrombo-embolic event requiring minor toe or foot amputation Thrombo-embolic event requiring lytic therapy Vascular graft limb thrombosis requiring fem-fem crossover surgery Urinary retention requiring one-time catheterization Urinary retention requiring intravesical catheter for 2 weeks Urinary retention requiring permanent intermittent self-catheterization Vascular graft infection controlled with antibiotics Vascular graft migration requiring graft removal with in situ repair Vascular graft migration requiring no additional intervention Vascular graft migration requiring secondary endovascular treatment Vascular graft migration requiring explantation and open repair Vascular graft technical deployment problem without conversion Vascular graft technical deployment problem requiring conversion to open surgery Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma with spontaneous resolution Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring thrombin injection Arterial access site pseudoaneurysm requiring thrombin injection Arterial access site pseudoaneurysm requiring surgical repair Ureteral lesion causing a urinoma requiring percutaneous drainage Ureteral lesion requiring surgical repair		
Stroke with permanent severe impairment and inability to live independently Thrombo-embolic event requiring minor toe or foot amputation Thrombo-embolic event requiring lytic therapy Vascular graft limb thrombosis requiring fem-fem crossover surgery Urinary retention requiring one-time catheterization Urinary retention requiring intravesical catheter for 2 weeks Urinary retention requiring permanent intermittent self-catheterization Vascular graft infection controlled with antibiotics Vascular graft infection requiring graft removal with in situ repair Vascular graft migration requiring no additional intervention Vascular graft migration requiring secondary endovascular treatment Vascular graft migration requiring explantation and open repair Vascular graft technical deployment problem without conversion Vascular graft technical deployment problem requiring conversion to open surgery Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma with spontaneous resolution Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring no additional intervention Arterial access site pseudoaneurysm requiring surgical repair Ureteral lesion causing a urinoma requiring percutaneous drainage Ureteral lesion requiring primary closure or anastomosis		
Thrombo-embolic event requiring minor toe or foot amputation Thrombo-embolic event requiring lytic therapy Vascular graft limb thrombosis requiring fem-fem crossover surgery Urinary retention requiring one-time catheterization Urinary retention requiring intravesical catheter for 2 weeks Urinary retention requiring permanent intermittent self-catheterization Vascular graft infection controlled with antibiotics Vascular graft infection requiring graft removal with in situ repair Vascular graft migration requiring no additional intervention Vascular graft migration requiring secondary endovascular treatment Vascular graft migration requiring explantation and open repair Vascular graft technical deployment problem without conversion Vascular graft technical deployment problem requiring conversion to open surgery Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma requiring surgical evacuation Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring no additional intervention Arterial access site pseudoaneurysm requiring surgical repair Ureteral lesion causing a urinoma requiring percutaneous drainage Ureteral lesion requiring primary closure or anastomosis		
Thrombo-embolic event requiring lytic therapy Vascular graft limb thrombosis requiring fem-fem crossover surgery Urinary retention requiring one-time catheterization Urinary retention requiring intravesical catheter for 2 weeks Urinary retention requiring permanent intermittent self-catheterization Vascular graft infection controlled with antibiotics Vascular graft infection requiring graft removal with in situ repair Vascular graft migration requiring no additional intervention Vascular graft migration requiring secondary endovascular treatment Vascular graft migration requiring explantation and open repair Vascular graft technical deployment problem without conversion Vascular graft technical deployment problem requiring conversion to open surgery Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma with spontaneous resolution Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring in additional intervention Arterial access site pseudoaneurysm requiring surgical repair Ureteral lesion causing a urinoma requiring percutaneous drainage Ureteral lesion requiring primary closure or anastomosis		
Vascular graft limb thrombosis requiring fem-fem crossover surgery Urinary retention requiring one-time catheterization Urinary retention requiring intravesical catheter for 2 weeks Urinary retention requiring permanent intermittent self-catheterization Vascular graft infection controlled with antibiotics Vascular graft infection requiring graft removal with in situ repair Vascular graft migration requiring no additional intervention Vascular graft migration requiring secondary endovascular treatment Vascular graft migration requiring explantation and open repair Vascular graft technical deployment problem without conversion Vascular graft technical deployment problem requiring conversion to open surgery Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma requiring surgical evacuation Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring in o additional intervention Arterial access site pseudoaneurysm requiring thrombin injection Arterial access site pseudoaneurysm requiring surgical repair Ureteral lesion causing a urinoma requiring percutaneous drainage Ureteral lesion requiring primary closure or anastomosis		
1 Urinary retention requiring one-time catheterization 2 Urinary retention requiring intravesical catheter for 2 weeks 3 Urinary retention requiring permanent intermittent self-catheterization 2 Vascular graft infection controlled with antibiotics 3 Vascular graft infection requiring graft removal with in situ repair 1 Vascular graft migration requiring no additional intervention 2 Vascular graft migration requiring secondary endovascular treatment 3 Vascular graft migration requiring explantation and open repair 1 Vascular graft technical deployment problem without conversion 2 Vascular graft technical deployment problem requiring conversion to open surgery 3 Vascular graft technical deployment problem with permanent disability and inability to live independently 1 Wound hematoma with spontaneous resolution 2 Wound hematoma with spontaneous resolution 3 Wound hematoma with nerve compression requiring arterial repair 1 Arterial access site pseudoaneurysm requiring no additional intervention 2 Arterial access site pseudoaneurysm requiring thrombin injection 3 Arterial access site pseudoaneurysm requiring surgical repair 2 Ureteral lesion causing a urinoma requiring percutaneous drainage 3 Ureteral lesion requiring surgical repair 2 Bowel lesion requiring primary closure or anastomosis		
2 Urinary retention requiring intravesical catheter for 2 weeks 3 Urinary retention requiring permanent intermittent self-catheterization 2 Vascular graft infection controlled with antibiotics 3 Vascular graft infection requiring graft removal with in situ repair 1 Vascular graft migration requiring no additional intervention 2 Vascular graft migration requiring secondary endovascular treatment 3 Vascular graft migration requiring explantation and open repair 1 Vascular graft technical deployment problem without conversion 2 Vascular graft technical deployment problem requiring conversion to open surgery 3 Vascular graft technical deployment problem with permanent disability and inability to live independently 1 Wound hematoma with spontaneous resolution 2 Wound hematoma requiring surgical evacuation 3 Wound hematoma with nerve compression requiring arterial repair 1 Arterial access site pseudoaneurysm requiring no additional intervention 2 Arterial access site pseudoaneurysm requiring thrombin injection 3 Arterial access site pseudoaneurysm requiring surgical repair 2 Ureteral lesion causing a urinoma requiring percutaneous drainage 3 Ureteral lesion requiring primary closure or anastomosis	3	
Urinary retention requiring permanent intermittent self-catheterization Vascular graft infection controlled with antibiotics Vascular graft infection requiring graft removal with in situ repair Vascular graft migration requiring no additional intervention Vascular graft migration requiring secondary endovascular treatment Vascular graft migration requiring explantation and open repair Vascular graft technical deployment problem without conversion Vascular graft technical deployment problem requiring conversion to open surgery Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma requiring surgical evacuation Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring no additional intervention Arterial access site pseudoaneurysm requiring thrombin injection Arterial access site pseudoaneurysm requiring surgical repair Ureteral lesion causing a urinoma requiring percutaneous drainage Ureteral lesion requiring primary closure or anastomosis		
Vascular graft infection controlled with antibiotics Vascular graft infection requiring graft removal with in situ repair Vascular graft migration requiring no additional intervention Vascular graft migration requiring secondary endovascular treatment Vascular graft migration requiring explantation and open repair Vascular graft technical deployment problem without conversion Vascular graft technical deployment problem requiring conversion to open surgery Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma requiring surgical evacuation Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring no additional intervention Arterial access site pseudoaneurysm requiring thrombin injection Arterial access site pseudoaneurysm requiring surgical repair Ureteral lesion causing a urinoma requiring percutaneous drainage Ureteral lesion requiring surgical repair Bowel lesion requiring primary closure or anastomosis		
3 Vascular graft infection requiring graft removal with in situ repair 1 Vascular graft migration requiring no additional intervention 2 Vascular graft migration requiring secondary endovascular treatment 3 Vascular graft migration requiring explantation and open repair 1 Vascular graft technical deployment problem without conversion 2 Vascular graft technical deployment problem requiring conversion to open surgery 3 Vascular graft technical deployment problem with permanent disability and inability to live independently 1 Wound hematoma with spontaneous resolution 2 Wound hematoma requiring surgical evacuation 3 Wound hematoma with nerve compression requiring arterial repair 1 Arterial access site pseudoaneurysm requiring no additional intervention 2 Arterial access site pseudoaneurysm requiring thrombin injection 3 Arterial access site pseudoaneurysm requiring surgical repair 2 Ureteral lesion causing a urinoma requiring percutaneous drainage 3 Ureteral lesion requiring surgical repair 2 Bowel lesion requiring primary closure or anastomosis	3	Urinary retention requiring permanent intermittent self-catheterization
Vascular graft migration requiring no additional intervention Vascular graft migration requiring secondary endovascular treatment Vascular graft migration requiring explantation and open repair Vascular graft technical deployment problem without conversion Vascular graft technical deployment problem requiring conversion to open surgery Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma requiring surgical evacuation Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring no additional intervention Arterial access site pseudoaneurysm requiring thrombin injection Arterial access site pseudoaneurysm requiring surgical repair Ureteral lesion causing a urinoma requiring percutaneous drainage Ureteral lesion requiring surgical repair Bowel lesion requiring primary closure or anastomosis	2	Vascular graft infection controlled with antibiotics
Vascular graft migration requiring secondary endovascular treatment Vascular graft migration requiring explantation and open repair Vascular graft technical deployment problem without conversion Vascular graft technical deployment problem requiring conversion to open surgery Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma requiring surgical evacuation Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring no additional intervention Arterial access site pseudoaneurysm requiring thrombin injection Arterial access site pseudoaneurysm requiring surgical repair Ureteral lesion causing a urinoma requiring percutaneous drainage Ureteral lesion requiring surgical repair Bowel lesion requiring primary closure or anastomosis	3	Vascular graft infection requiring graft removal with in situ repair
Vascular graft migration requiring explantation and open repair Vascular graft technical deployment problem without conversion Vascular graft technical deployment problem requiring conversion to open surgery Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma requiring surgical evacuation Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring no additional intervention Arterial access site pseudoaneurysm requiring thrombin injection Arterial access site pseudoaneurysm requiring surgical repair Ureteral lesion causing a urinoma requiring percutaneous drainage Ureteral lesion requiring surgical repair Bowel lesion requiring primary closure or anastomosis	1	
Vascular graft migration requiring explantation and open repair Vascular graft technical deployment problem without conversion Vascular graft technical deployment problem requiring conversion to open surgery Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma requiring surgical evacuation Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring no additional intervention Arterial access site pseudoaneurysm requiring thrombin injection Arterial access site pseudoaneurysm requiring surgical repair Ureteral lesion causing a urinoma requiring percutaneous drainage Ureteral lesion requiring surgical repair Bowel lesion requiring primary closure or anastomosis	2	Vascular graft migration requiring secondary endovascular treatment
Vascular graft technical deployment problem requiring conversion to open surgery Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma requiring surgical evacuation Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring no additional intervention Arterial access site pseudoaneurysm requiring thrombin injection Arterial access site pseudoaneurysm requiring surgical repair Ureteral lesion causing a urinoma requiring percutaneous drainage Ureteral lesion requiring surgical repair Bowel lesion requiring primary closure or anastomosis	3	Vascular graft migration requiring explantation and open repair
Vascular graft technical deployment problem with permanent disability and inability to live independently Wound hematoma with spontaneous resolution Wound hematoma requiring surgical evacuation Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring no additional intervention Arterial access site pseudoaneurysm requiring thrombin injection Arterial access site pseudoaneurysm requiring surgical repair Ureteral lesion causing a urinoma requiring percutaneous drainage Ureteral lesion requiring surgical repair Bowel lesion requiring primary closure or anastomosis	1	Vascular graft technical deployment problem without conversion
independently 1 Wound hematoma with spontaneous resolution 2 Wound hematoma requiring surgical evacuation 3 Wound hematoma with nerve compression requiring arterial repair 1 Arterial access site pseudoaneurysm requiring no additional intervention 2 Arterial access site pseudoaneurysm requiring thrombin injection 3 Arterial access site pseudoaneurysm requiring surgical repair 2 Ureteral lesion causing a urinoma requiring percutaneous drainage 3 Ureteral lesion requiring surgical repair 2 Bowel lesion requiring primary closure or anastomosis	2	Vascular graft technical deployment problem requiring conversion to open surgery
1 Wound hematoma with spontaneous resolution 2 Wound hematoma requiring surgical evacuation 3 Wound hematoma with nerve compression requiring arterial repair 1 Arterial access site pseudoaneurysm requiring no additional intervention 2 Arterial access site pseudoaneurysm requiring thrombin injection 3 Arterial access site pseudoaneurysm requiring surgical repair 2 Ureteral lesion causing a urinoma requiring percutaneous drainage 3 Ureteral lesion requiring surgical repair 2 Bowel lesion requiring primary closure or anastomosis	3	
2 Wound hematoma requiring surgical evacuation 3 Wound hematoma with nerve compression requiring arterial repair 1 Arterial access site pseudoaneurysm requiring no additional intervention 2 Arterial access site pseudoaneurysm requiring thrombin injection 3 Arterial access site pseudoaneurysm requiring surgical repair 2 Ureteral lesion causing a urinoma requiring percutaneous drainage 3 Ureteral lesion requiring surgical repair 2 Bowel lesion requiring primary closure or anastomosis		1
Wound hematoma with nerve compression requiring arterial repair Arterial access site pseudoaneurysm requiring no additional intervention Arterial access site pseudoaneurysm requiring thrombin injection Arterial access site pseudoaneurysm requiring surgical repair Ureteral lesion causing a urinoma requiring percutaneous drainage Ureteral lesion requiring surgical repair Bowel lesion requiring primary closure or anastomosis	1	
1 Arterial access site pseudoaneurysm requiring no additional intervention 2 Arterial access site pseudoaneurysm requiring thrombin injection 3 Arterial access site pseudoaneurysm requiring surgical repair 2 Ureteral lesion causing a urinoma requiring percutaneous drainage 3 Ureteral lesion requiring surgical repair 2 Bowel lesion requiring primary closure or anastomosis		
2 Arterial access site pseudoaneurysm requiring thrombin injection 3 Arterial access site pseudoaneurysm requiring surgical repair 2 Ureteral lesion causing a urinoma requiring percutaneous drainage 3 Ureteral lesion requiring surgical repair 2 Bowel lesion requiring primary closure or anastomosis	3	Wound hematoma with nerve compression requiring arterial repair
3 Arterial access site pseudoaneurysm requiring surgical repair 2 Ureteral lesion causing a urinoma requiring percutaneous drainage 3 Ureteral lesion requiring surgical repair 2 Bowel lesion requiring primary closure or anastomosis	1	Arterial access site pseudoaneurysm requiring no additional intervention
 Ureteral lesion causing a urinoma requiring percutaneous drainage Ureteral lesion requiring surgical repair Bowel lesion requiring primary closure or anastomosis 	2	Arterial access site pseudoaneurysm requiring thrombin injection
 3 Ureteral lesion requiring surgical repair 2 Bowel lesion requiring primary closure or anastomosis 	3	Arterial access site pseudoaneurysm requiring surgical repair
2 Bowel lesion requiring primary closure or anastomosis	2	Ureteral lesion causing a urinoma requiring percutaneous drainage
	3	Ureteral lesion requiring surgical repair
	2	Bowel lesion requiring primary closure or anastomosis
	3	

First column: 1 = mild level of severity, 2 = moderate level of severity, 3 = severe level of severity.

Second column: complications divided in levels of severity.

Level	Complication list CAD
1	Elevated troponin levels requiring surveillance by a cardiologist
2	Acute myocardial infarction requiring percutaneous coronary intervention
3	Acute myocardial infarction requiring resuscitation
1	Allergic reaction (due to contrast allergy) requiring to abort treatment and start medication
2	Allergic reaction (due to contrast allergy) requiring to abort treatment and ventilator support
1	Arterial access site arteriovenous fistula requiring no additional treatment
2	Arterial access site arteriovenous fistula formation requiring endovascular repair
3	Arterial access site arteriovenous fistula formation requiring surgical repair
1	Arterial access site pseudoaneurysm requiring no additional treatment
2	Arterial access site pseudoaneurysm requiring thrombin injection
3	Arterial access site pseudoaneurysm requiring surgical repair
1	Bradycardia resolved within 24 hours
2	Bradycardia requiring short-term medicinal support
3	Bradycardia requiring pacemaker implantation
1	Cardiac arrhythmias with spontaneous resolution
2	Cardiac arrhythmias requiring permanent anticoagulant therapy
3	Cardiac arrhythmias requiring cardioversion
1	Congestive heart failure requiring no additional support
2	Congestive heart failure requiring permanent medication
3	Congestive heart failure requiring resuscitation
2	Deep venous thrombosis requiring long-term anticoagulant therapy
3	Deep venous thrombosis requiring lytic therapy
1	Superficial wound infection requiring oral antibiotics
2	Superficial wound infection requiring opening of the wound at bedside
3	Deep wound infection requiring surgical debridement
1	De novo or worsened peripheral artery disease requiring medicinal support
3	De novo or worsened peripheral artery disease requiring intervention
	De novo or worsened peripheral artery disease requiring below-knee amputation
2	Dissection requiring no additional intervention Dissection requiring endovascular repair
3	Dissection requiring endovascular repair Dissection requiring open repair
1	Hypertension resolved within 24 hours
2	Hypertension requiring medicinal support
3	Hyperperfusion syndrome requiring intensive monitor surveillance on brain care unit
1	Ipsilateral non-disabling stroke causing prolonged hospital stay
2	Ipsilateral disabling stroke with permanent deficit with mild impairment
3	Ipsilateral disabling stroke with permanent severe impairment and inability to live independently
2	Embolic or hemodynamic stroke resulting in mild or temporary cognitive function impairment
1	Transient nerve palsy causing numbness of face/neck area
2	Persistent but not disabling cranial nerve palsy requiring speech therapy
3	Persistent disabling cranial nerve palsy with difficulty to eat and speak
2	Pulmonary embolism requiring anticoagulant therapy
3	Pulmonary embolism requiring surgical therapy due to hemodynamic instability
1	Pulmonary infection requiring oral antibiotics
2	Pulmonary infection requiring IV antibiotics
3	Pulmonary infection requiring ventilator support
1	Renal insufficiency requiring surveillance by a nephrologist.
2	Renal failure requiring temporary dialysis with permanently reduced renal function requiring
	surveillance by a nephrologist.

3	Renal failure requiring permanent dialysis
1	Retroperitoneal hemorrhage without the need for blood transfusion
2	Retroperitoneal hemorrhage requiring both blood transfusion and limited surgical or endovascular
	intervention for control
3	Retroperitoneal hemorrhage requiring massive transfusion and major open surgical intervention
2	Sepsis requiring IV antibiotics
3	Sepsis based on a positive blood culture requiring IV antibiotics and ICU support due to hemodynamic
	instability
1	Technical failure without conversion
2	Technical failure leading to conversion to open surgery
3	Technical failure with permanent disability and inability to live independently
1	Transient ischemic attack not requiring prolonged hospital stay
2	Transient ischemic attack requiring prolonged hospital stay
1	Transposition of stent without conversion
2	Transposition of stent requiring open surgery
3	Transposition of stent with permanent disability and inability to live independently
1	Wound hematoma requiring prolonged compression
2	Respiratory distress due to neck hematoma requiring surgical evacuation
3	Wound hematoma with nerve compression or cervical blow-out requiring arterial repair
2	Patch infection controlled with antibiotics
3	Patch infection requiring vascular reconstruction
1	Carotid artery re-stenosis or occlusion asymptomatic requiring no additional intervention
2	Carotid artery re-stenosis or occlusion with TIA/minor stroke requiring endovascular or open re-
	intervention
3	Carotid artery re-stenosis or occlusion with major stroke
1	Contrast encephalopathy resolved within 24 hours
2	Contrast encephalopathy resulting in temporary cognitive function impairment
3	Contrast encephalopathy with permanent disability and inability to live independently

First column: 1 = mild level of severity, 2 = moderate level of severity, 3 = severe level of severity.

Second column: complications divided in levels of severity.

Level	Complication list PAD
2	Acute limb ischemia due to distal embolization requiring lytic therapy
2	Acute limb ischemia requiring below-knee amputation
3	Acute limb or worsened ischemia requiring above-knee amputation
1	Elevated troponin levels requiring surveillance by a cardiologist
2	Acute myocardial infarction requiring percutaneous coronary intervention
3	Acute myocardial infarction requiring resuscitation or coronary artery bypass graft surgery
1	Allergic reaction (due to contrast allergy) requiring to abort treatment and start medication
2	Allergic reaction (due to contrast allergy) requiring to abort treatment and ventilator support
1	Arteriovenous fistula at puncture site requiring no additional intervention
2	Arteriovenous fistula at puncture site requiring endovascular repair
3	Arteriovenous fistula at puncture site requiring surgical repair
1	Cardiac arrhythmias with spontaneous resolution
2	Cardiac arrhythmias requiring life-long anti-coagulant therapy
3	Cardiac arrhythmias requiring cardioversion
1	Congestive heart failure requiring no additional support
2	Congestive heart failure requiring diuretics
3	Congestive heart failure requiring resuscitation
1	Renal insufficiency requiring surveillance by a nephrologist.
2	Renal failure requiring temporary dialysis with permanently reduced renal function requiring
_	surveillance by a nephrologist.
3	Renal failure requiring permanent dialysis
2	Deep venous thrombosis requiring long-term anticoagulant therapy
3	Deep venous thrombosis requiring lytic therapy
1	Superficial wound infection requiring oral antibiotics
2	Superficial wound infection requiring opening of the wound at bedside
3	Deep wound infection requiring surgical debridement
1	Dissection requiring no additional intervention
2	Dissection requiring endovascular repair
3	Dissection requiring open repair
1	Femoral pseudo-aneurysm at puncture site requiring no additional intervention
2	Femoral pseudo-aneurysm at puncture site requiring thrombin injection
3	Femoral pseudo-aneurysm at puncture site requiring endovascular or surgical repair
2	Vascular graft infection controlled with antibiotics
3	Vascular graft infection requiring vascular reconstruction
1	Hemorrhage requiring 1 blood transfusion
2	Hemorrhage requiring both blood transfusion and limited surgical or endovascular intervention for
	control
3	Hemorrhage requiring both massive transfusion and extensive surgical intervention
1	Lymphocele or lymphorrhea resolution without aspiration
2	Lymphocele requiring drainage or lymphorrhea
3	Lymphocele or lymphorrhea with permanent debilitating edema or continuous lymphorrhea
2	No improvement after treatment requiring re-intervention
3	Worsened peripheral artery disease requiring above-knee amputation
2	Pulmonary embolism requiring anticoagulant therapy
3	Pulmonary embolism requiring surgical therapy due to hemodynamic instability
1	Pulmonary infection requiring oral antibiotics
2	Pulmonary infection requiring IV antibiotics
3	Pulmonary infection requiring ventilator support 20
2	Sepsis requiring IV antibiotics

3	Sepsis based on a positive blood culture requiring IV antibiotics and ICU support due to hemodynamic instability
1	Transient ischemic attack not requiring prolonged hospital stay
2	Transient ischemic attack requiring prolonged hospital stay
2	Stroke with permanent deficit but the ability to walk without support
3	Stroke with permanent severe impairment inability to live independently
1	Wound hematoma with spontaneous resolution
2	Wound hematoma requiring surgical evacuation
3	Wound hematoma with nerve compression requiring arterial repair
1	Decubitus requiring frequent patient repositioning and local wound care
2	Decubitus requiring surgical debridement
3	Decubitus requiring flap reconstruction
1	Transient loss of sensibility on medial side or lower leg
2	Permanent loss of sensibility on medial side or lower leg
1	Artery re-stenosis or occlusion asymptomatic requiring no additional intervention
2	Artery re-stenosis or occlusion with ischemic rest pain requiring endovascular or open re-
	intervention
3	Artery re-stenosis or occlusion requiring below-knee amputation
1	Aneurysm formation requiring observation
2	Aneurysm formation requiring endovascular treatment
3	Aneurysm formation requiring surgical repair

First column: 1 = mild level of severity, 2 = moderate level of severity, 3 = severe level of severity.

Second column: complications divided in levels of severity.