

### Incidence of perioperative myocardial infarction and cardiac death after vascular surgery

<b>Surgery Type Categories</b>	<b>Total N</b>	<b>Incidence of MI</b>	<b>Mortality</b>
<b>Carotid endarterectomy (total)</b>	<b>2,437</b>	34/2,437 = 1.4%	2/2,437 = 0.08%
• Internal carotid endarterectomy	2,349		
• External carotid endarterectomy	17		
• Carotid-subclavian graft	66		
• Carotid-carotid graft	5		
<b>Aortic surgery prosthetic grafts (total)</b>	<b>1,934</b>	37/1,934 = 1.91%	10/1,934 = 0.52%
<b>Thoracic (total)</b>	<b>332</b>	4/332 = 1.2%	3/332 = 0.9%
• Thoraco-abdominal aneurysm repair	139		
• Aorto-ceeliac graft*	16		
• Aorto-mesenteric graft <sup>†</sup>	88		
• Suprarenal	89		
<b>Abdominal (total)</b>	<b>1,602</b>	33/1,602 = 2.06%	7/1,602 = 0.44%
Aorto-bi-iliac	1,300		
Aorto-bi-femoral	244		
Aorto-iliac - aorto-femoral	58		
<b>Peripheral vascular surgery (total)</b>	<b>2,577</b>	36/2,577 = 1.4%	10/2,577 = 0.4%
<b>Peripheral vascular reconstructive surgery (total)</b>	<b>1,246</b>	30/1,246=2.4%	6/1,246 = 0.48%
• Ilio-femoral graft	119		
• Femoral-femoral graft	180		
• Profundoplasty	61		
• Femoral-popliteal graft	439		
• Femoral-tibial graft (anterior and posterior)	270		
• Femoral-peroneal graft	177		
<b>Amputations (total)</b>	<b>1,331</b>	6/1,331 = 0.45%	4/1,331 =0.30%
• Toe	332		
• Transmetatarsal	267		
• Leg below the knee	477		
• Leg above the knee	255		
<b>Total</b>	<b>6,948</b>	<b>107/6,948 = 1.54%</b>	<b>22/6,948 = 0.31%</b>

\*Performed as primary procedure, not as a part of thoraco-abdominal aneurysm repair; † Includes procedures performed for reconstruction of either superior (n=48) or inferior (n=40) mesenteric arteries.

**Summary of causes of death in patients who suffered perioperative myocardial infarction and in control group**

Pt	Age/Sex	Surgery	POD-MI	POD Death	Cause of Death*
<b><i>PMI group</i></b>					
1.	63/M	AARS	0	1	Massive blood loss, hyperkalemia, severe hypotension
2.	74/F	PVS	5	5	Cardiogenic shock, dysrhythmia (ventricular)
3.	72/M	PVS	1	11	Cardiogenic shock
4.	84/F	PVS	1	3	Cardiogenic shock followed by asystole
5.	79/M	PVS	0	0	Hemodynamic instability, ventricular dysrhythmia, ventricular fibrillation
6.	65/M	AARS	0	1	Acute severe hypotension, cardiogenic shock, asystole
7.	69/M	TARS	0	1	Acute severe hypotension, cardiogenic shock
8.	80/F	PVS	1	2	Postoperative acute myocardial ischemia, cardiac arrest during unsuccessful PTCA
9.	72/M	AARS	0	0	Hypotension, ventricular fibrillation
10.	77/F	PVS	0	38	Dysrhythmia, CHF, MSOF
11.	69/M	TARS	0	1	Acute intraoperative hypotension, ECG c/w acute MI, postoperatively ARDS, ARF
12.	82/M	AARS	1	3	Acute hypotension requiring vasopressor support, ARDS
13.	72/M	PVS	1	33	Cardiogenic shock
14.	84/F	PVS	1	1	Cardiogenic shock
15.	68/M	CEA	1	5	Hypotension requiring vasoactive support
16.	68/M	AARS	1	18	Ventricular dysrhythmia, ARF, septic shock, gastrointestinal bleeding
17.	70/M	AARS	0	24	Intraoperative MI, urgent partially successful PTCA, postoperatively long-term mechanical (IABP) and vasopressor support, ARF, gastrointestinal bleeding
18.	72/M	PVS	3	3	Autopsy confirmed massive acute MI
19.	77/M	CEA	1	39	Cardiac dysrhythmia, severe hypotension, cardiac arrest
20.	73/M	TARS	0	2	Ventricular tachycardia, cardiogenic shock, asystole
21.	85/M	PVS	2	30	CHF after MI, long-term vasoactive support, sepsis
22.	76/M	AARS	1	45	Ventricular dysrhythmia, MSOF
<b><i>Control Group</i></b>					
1.	75/F	CEA	---	8	Sudden asystole without evidence of acute MI
2.	64/M	AARS	---	77	ARDS, wound dehiscence (steroid dependence for COPD), septicemia, ARF
3.	74/M	TARS	---	8	ARSD, cellulitis/fasciitis, sepsis, acute hemorrhage, shock
4.	73/F	PVS	---	19	ARF, acidosis, CHF (no evidence of MI)

\*Description is based on terminology used in physicians' notes. F, female; M, male; Age (in years); POD-MI, postoperative day when myocardial infarction was diagnosed; MSOF, multisystem organ failure; CHF, congestive heart failure; IABP, intraaortic balloon pump, ARDS, adult respiratory distress syndrome; ARF, acute renal failure; PTCA, percutaneous transluminal coronary angioplasty; AARS abdominal aortic reconstructive surgery; TARS, thoracic aortic reconstructive surgery; PVS, peripheral vascular surgery.