

Quality results

of member clinics of Initiative Qualitätsmedizin

G-IQI / CH-IQI 5.2 As of: 15.04.2020

IQM Quality indicators

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Diseases of the Heart

Acute Myocardial Infarction (AMI)

Acute Myocardial Infarction, in-hospital mortality, observed	< Expected value	7,9%	8,1%
age > 19	1	6.909 of 87.973	0,97
age 20 - 44	< Expected value	3,1%	3,0%
	1	84 of 2.671	
age 45 - 64	< Expected value	4,4%	4,1%
	1	1.265 of 28.681	
age 65 - 84	< Expected value	8,3%	9,0%
	1	3.854 of 46.376	
age > 84	< Expected value	16,7%	17,1%
	1	1.706 of 10.245	
Share of AMI with left heart catheter	Information	81,0%	
	1	71.295 of 87.973	
Principle diagnosis AMI, direct admissions without transfers, in-hospital mortality	Observed value	8,8%	
age > 19	1	6.002 of 68.443	
Principle diagnosis AMI, transfers from other hospitals, in-hospital mortality	Observed value	8,5%	
age > 19	1	907 of 10.658	
Share of AMI coded as unspecified (I21.9)	Observed value	1,1%	
	1	959 of 87.868	
Share of AMI, transmural (STEMI)	Information	32,7%	
	1	28.749 of 87.973	
AMI, transmural, in-hospital mortality	< Expected value	11,5%	11,7%
	1	3.315 of 28.749	
AMI nontransmural / NSTEMI, in-hospital mortality	Observed value	5,4%	
	1	3.165 of 58.160	
Secondary diagnosis AMI, in-hospital mortality	Observed value	18,6%	
age > 19	1	4.933 of 26.581	

Heart Failure

Principle diagnosis heart failure, in-hospital mortality, observed	< Expected value	7,3%	8,1%
age > 19	1	13.341 of 183.432	0,90

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age 20 - 44	< Expected value 1	2,5% 44 of 1.770	1,8%
age 45 - 64	< Expected value 1	3,1% 593 of 19.300	3,2%
age 65 - 84	< Expected value 1	6,0% 6.459 of 107.094	6,6%
age > 84	< Expected value 1	11,3% 6.245 of 55.268	12,7%
Left-sided heart failure, share coded as NYHA IV	Information 1	46,6% 56.490 of 121.283	

Cases with left heart catheterization

Cases with coronary catheterization	Quantity Information 2	894,4 (702) 330.944	
age > 19			
Coronary catheterization for infarction, without open heart procedure, in-hospital mortality observed (referred to patients with AMI and left heart catheterization)	< Expected value 1	5,9% 4.100 of 69.594	6,0% 0,99
age > 19			
Diagnostic coronary catheterization without PDX of AMI, without open heart procedure, in-hospital mortality	< 1,23% 1	1,5% 2.291 of 157.963	
age > 19			
thereof diagnostic coronary catheterization without PDX of AMI, without open heart procedure, without procedure OPS 5-***, in-hospital mortality	Observed value 1	1,2% 1.697 of 145.133	
age > 19			
Therapeutic coronary catheterization without PDX of AMI, without open heart procedure, in-hospital mortality	Observed value 1	1,7% 1.535 of 87.896	
age > 19			
thereof therapeutic coronary catheterization without PDX of AMI, without open heart procedure, without procedure OPS 5-***, in-hospital mortality	Observed value 1	1,3% 1.109 of 83.044	
age > 19			

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Share of therapeutic coronary catheterization without PDX of AMI, without open heart procedure age > 19	Information 1	35,8% 87.896 of 245.859	
Left heart catheterization in children and adolescents age < 20	Quantity Information 2	27,8 (3) 3.201	
Cardiac arrhythmia			
Patients with cardiac arrhythmia as principal diagnosis	Quantity Information 2	454,3 (279) 192.159	
Implantation of pacemaker/defibrillator			
Implantation of pacemaker/defibrillator	Quantity Information 2	153,2 (101) 55.321	
thereof implantation or exchange of defibrillator	Quantity Information 2	56,6 (38) 15.568	
Ablation therapy			
Cases with ablation therapy using catheterization	Quantity Information 2	263,3 (177) 44.502	
thereof atrial ablation for atrial fibrillation/flutter, in-hospital mortality	Information 1	0,1% 20 of 24.342	
Cases with ablation therapy using open heart surgery	Quantity Information 2	55,1 (29) 2.203	
Heart surgery			
Patients with heart surgery	Quantity Information 2	296,3 (7) 58.955	
thereof patients with valvular surgery	Quantity Information 2	372,3 (41) 36.857	
thereof patients with coronary bypass surgery	Quantity Information 2	527,9 (511) 23.757	

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thereof patients with other cardiac surgery	Quantity Information 2	60,9 (4) 11.458	
among these: patients with combined surgery	Quantity Information 2	267,2 (218) 11.758	
among these: heart surgery in children and adolescents age < 20	Quantity Information 2	29,6 (2) 1.804	
Open aortic valve replacement	Quantity Information 2	235,4 (218) 9.885	
Isolated open aortic valve replacement, in-hospital mortality	< 2,2% 1	2,5% 94 of 3.736	
thereof isolated aortic valve replacement with PDX of endocarditis, in-hospital mortality	Information 1	10,1% 28 of 276	
thereof isolated aortic valve replacement without PDX of endocarditis, in-hospital mortality	Information 1	1,9% 66 of 3.460	
thereof isolated aortic valve replacement without heart support systems, in-hospital mortality	Information 1	1,4% 53 of 3.689	
Open aortic valve replacement with replacement of mitral valve, in-hospital mortality age > 19	Observed value 1	18,3% 59 of 322	
Open aortic valve replacement with other cardiac surgery age > 19	Observed value 1	6,7% 389 of 5.827	
Transcatheter aortic valve replacement (TAVR/TAVI), in-hospital mortality	Observed value 1	2,7% 349 of 13.071	

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thereof transcatheter aortic valve replacement, peripheral approach, in-hospital mortality	Observed value 1	2,4% 297 of 12.275	
thereof transcatheter aortic valve replacement, transapical approach, in-hospital mortality	Observed value 1	6,5% 52 of 796	
Transcatheter/transapical mitral valve interventions, in-hospital mortality	Observed value 1	2,8% 118 of 4.242	
Coronary bypass surgery for myocardial infarction, in-hospital mortality, expected value referred to patients with coronary bypass surgery and myocardial infarction	< Expected value 1	5,9% 312 of 5.254	6,2% 0,96
Coronary bypass surgery for myocardial infarction without heart support systems, in-hospital mortality age > 19	Observed value 1	3,7% 189 of 5.052	
Isolated coronary bypass surgery without myocardial infarction, in-hospital mortality age > 19	< 2,0% 1	1,4% 175 of 12.359	
age 20 - 49	Observed value 1	1,3% 5 of 393	
age 50 - 59	Observed value 1	0,6% 14 of 2.155	
age 60 - 69	Observed value 1	1,3% 55 of 4.283	
age 70 - 79	Observed value 1	1,6% 71 of 4.421	
age > 79	Observed value 1	2,7% 30 of 1.107	
Coronary bypass surgery with other cardiac surgery, in-hospital mortality age > 19	Observed value 1	9,3% 569 of 6.110	

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Isolated open aortic valve replacement, share of patients with carotid endarterectomy	Information 1	0,2% 8 of 3.736	
Isolated coronary bypass surgery without myocardial infarction, share of patients with carotid endarterectomy age > 19	Information 1	0,8% 104 of 12.359	

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Diseases of the Nervous System, Stroke

Malignant neoplasms of the brain or cerebral membrane

Malignant neoplasm of the brain or cerebral membrane (PDX)	Quantity Information	36,1 (6)	
	2	11.161	
Brain surgery for malignant neoplasm, in-hospital mortality	Observed value	3,0%	
	1	111 of 3.729	

Stroke, all types by age groups

Stroke (PDX), all types, in-hospital mortality observed	< Expected value	9,7%	8,5%
age > 19	1	11.577 of 119.254	1,14
age 20 - 44	< Expected value	4,0%	3,0%
	1	155 of 3.908	
age 45 - 64	< Expected value	4,8%	3,8%
	1	1.221 of 25.599	
age 65 - 84	< Expected value	9,0%	8,0%
	1	6.063 of 67.324	
age > 84	< Expected value	18,5%	16,4%
	1	4.138 of 22.423	

Stroke, by type of stroke

Cerebral infarction (ICD I63), in-hospital mortality, observed	< Expected value	7,0%	6,4%
age > 19	1	7.095 of 100.699	1,10
Share of cerebral infarction with systemic thrombolysis	Information	15,9%	
	1	16.005 of 100.699	
Cerebral infarction with systemic thrombolysis, in-hospital mortality	Observed value	7,3%	
	1	1.163 of 16.005	
Share of cerebral infarction with thrombectomy	Information	8,5%	
	1	8.531 of 100.699	
Cerebral infarction with thrombectomy, in-hospital mortality	Observed value	19,6%	
	1	1.672 of 8.531	

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Cerebral infarction (ICD I63), percentage with pneumonia age > 19	Observed value 1	9,9% 10.014 of 100.699	
Cerebral infarction (ICD I63) with pneumonia, in-hospital mortality age > 19	Observed value 1	27,3% 2.734 of 10.014	
Cerebral infarction without transfer from other hospital age > 19	Observed value 1	6,7% 6.186 of 92.572	
Cerebral infarction, transfer from other hospital age > 19	Observed value 1	11,2% 909 of 8.127	
Haemorrhage			
Intracerebral haemorrhage (ICD I61), in-hospital mortality age > 19	Observed value 1	27,0% 3.697 of 13.698	
Subarachnoid haemorrhage (ICD I60), in-hospital mortality age > 19	Observed value 1	16,7% 734 of 4.397	
Share of unspecified stroke (ICD I64) age > 19	< 1,0% 1	0,4% 460 of 119.254	
Unspecified stroke (ICD I64), in-hospital mortality age > 19	Observed value 1	11,1% 51 of 460	
Transient cerebral ischaemic attacks			
Transient cerebral ischaemic attack, in-hospital mortality	Observed value 1	0,3% 127 of 40.722	
Transient cerebral ischaemic attack, share of patients with specialized stroke unit therapy	Information 1	67,6% 27.545 of 40.722	
Epilepsy			
Inpatient treatment for epilepsy (PDX) age > 19	Quantity Information 2	120,7 (31) 48.536	
Inpatient treatment for epilepsy (PDX) age < 20	Quantity Information 2	49,5 (15) 11.970	

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Multiple sclerosis

Inpatient treatment for multiple sclerosis (PDX)	Quantity Information	50,3 (16)	
	2	13.519	

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Geriatric medicine

Early geriatric rehabilitation

Patients with early geriatric rehabilitation	Quantity Information 2	487,6 (403) 119.948	
Early geriatric rehabilitation with coded Barthel-Index	Information 1	96,8% 116.120 of 119.948	

Malnutrition of elderly patients

Malnourished patients, age > 65, without tumor diseases	Information 1	1,0% 28.088 of 2.791.901	
Patients fed by tube/infusion	Information 1	1,9% 522 of 28.088	

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Diseases of the Lung

Pneumonia

Pneumonia (PDX), in-hospital mortality, observed	< Expected value	10,4%	11,0%
All age groups	1	13.926 of 133.424	
age < 20	< Expected value	0,3%	0,2%
	1	46 of 17.188	
age 20 - 44	< Expected value	1,8%	1,6%
	1	114 of 6.313	
age 45 - 64	< Expected value	5,7%	5,8%
	1	1.122 of 19.578	
age 65 - 84	< Expected value	11,6%	12,4%
	1	7.185 of 62.000	
age > 84	< Expected value	19,3%	20,4%
	1	5.459 of 28.345	
Pneumonia excluding admission transfers, neoplasms, cystic fibrosis, (CAP), in-hospital mortality, observed	< Expected value	8,6%	9,5%
age > 19	1	6.506 of 75.716	0,90
age 20 - 44	< Expected value	0,8%	0,8%
	1	41 of 5.030	
age 45 - 64	< Expected value	3,0%	3,1%
	1	387 of 13.115	
age 65 - 84	< Expected value	8,0%	8,9%
	1	3.081 of 38.566	
age > 84	< Expected value	15,8%	17,5%
	1	2.997 of 19.005	
Pneumonia excluding admission transfers, neoplasms, CF, in-hospital mortality, age 1 - 19	Observed value	0,2%	
	1	22 of 12.659	
Pneumonia with inhalation of food or stomach contents, in-hospital mortality	Observed value	26,7%	
	1	3.310 of 12.386	

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Chronic obstructive pulmonary disease (COPD)

Chronic obstructive pulmonary disease (COPD without malignancy), in-hospital mortality age > 19	< Expected value 1	4,0% 3.281 of 82.307	4,1% 0,98
thereof COPD without malignancy, FEV1 < 35%, in-hospital mortality	Information 1	4,7% 1.360 of 29.002	
thereof COPD without malignancy, FEV1 >= 35% and <50%, in-hospital mortality	Information 1	1,7% 264 of 15.693	
thereof COPD without malignancy, FEV1 >= 50% and <70%, in-hospital mortality	Information 1	1,0% 99 of 9.991	
thereof COPD without malignancy, FEV1 >= 70%, in-hospital mortality	Information 1	0,9% 36 of 3.819	
thereof COPD without malignancy, FEV1 unspecified, in-hospital mortality	Information 1	6,4% 1.522 of 23.802	
Share of COPD without malignancy coded with FEV1 unspecified (target: below 5%)	Information 1	28,9% 23.802 of 82.307	

Malignant neoplasm of bronchus and lung

Inpatient treatment for malignant neoplasm of bronchus and lung (PDX)	Quantity Information 2	200,3 (48) 82.330	
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Major lung procedures

Major resections of lung or bronchus for all diagnoses, in-hospital mortality	Observed value 1	3,1% 424 of 13.893	
Pneumonectomy for lung cancer, in-hospital mortality	Observed value 1	10,8% 38 of 353	
Partial pneumonectomy for lung cancer, in-hospital mortality	< 2,7% 1	2,7% 167 of 6.089	

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Share of pneumonectomies for lung cancer	< 20% 1 / 3	5,5% 353 of 6.442	
Share of broncho-angioplastic procedures for lung cancer (partial pneumonectomies)	Observed value 1	8,8% 536 of 6.089	

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Diseases of the visceral organs

Cholecystectomy

Cholecystectomy for gallstones (without malignancies), share of laparoscopic removals	> 94,1%	94,2%	
	1	50.776 of 53.922	
Cholecystectomy for gallstones (without malignancies), rate of conversion to open surgery	Observed value	3,4%	
	1	1.815 of 53.922	
Cholecystectomy for gallstones (without malignancies), in-hospital mortality	< 0,47%	0,5%	
	1	267 of 53.922	

Repair of femoral, inguinal and umbilical hernia

Hernia repair without bowel resection, in-hospital mortality	< 0,09%	0,1%	
	1	79 of 72.761	
Hernia repair with bowel resection, in-hospital mortality	Observed value	1,8%	
	1	149 of 8.141	
Repair of inguinal hernia, share of operations with alloplastic material age < 20	Information	10,6%	
	1	388 of 3.654	
Repair of inguinal hernia, share of operations with alloplastic material age > 19	Information	97,6%	
	1	48.833 of 50.036	

Thyroidectomy

Thyroidectomies	Quantity Information	57,0 (23)	
	2	19.202	
thereof thyroidectomies for thyroid cancer	Quantity Information	10,2 (4)	
	2	2.361	
thereof thyroidectomies for benign diseases	Quantity Information	48,5 (22)	
	2	15.726	
Thyroidectomy, share of patients with mechanical ventilation >24 hours	Information	0,7%	
	1	126 of 18.087	

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Radioactive iodine therapy	Quantity Information 2	263 (242) 13.150	
Diseases of the large bowel and rectum			
Inpatient treatments for colorectal cancer (PDX)	Quantity Information 2	139,4 (90) 56.449	
Inpatient treatments for ulcerative colitis or Crohn's disease (PDX + SDX)	Quantity Information 2	103,0 (64) 46.148	
All colorectal resections, in-hospital mortality	Observed value 1	7,8% 3.311 of 42.705	
thereof colon resection for colorectal cancer without complicating diagnosis, in-hospital mortality	< 4,2% 1	3,9% 420 of 10.888	
thereof colon resection for colorectal cancer with complicating diagnosis, in-hospital mortality	Observed value 1	12,2% 373 of 3.056	
thereof rectal resection for colorectal cancer, in-hospital mortality	< 3,6% 1	3,0% 164 of 5.403	
thereof colon resection surgery for diverticulitis without diverticular perforation/abscess, in-hospital mortality	< 0,9% 1	0,7% 15 of 2.261	
thereof colon resection surgery for diverticulitis with diverticular perforation/abscess, in-hospital mortality	Observed value 1	5,0% 276 of 5.468	
thereof colorectal resection for colonic ischemia, in-hospital mortality	Information 1	45,7% 1.073 of 2.350	
thereof colorectal resection for ulcerative colitis or Crohn's disease, in-hospital mortality	Observed value 1	2,8% 56 of 2.029	

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thereof colorectal resection for other diagnoses, in-hospital mortality	Information 1	8,3% 934 of 11.250	
Colorectal resections for colorectal cancer, share of cases with partial resection/destruction of the liver	Information 1	4,9% 957 of 19.347	
Diseases of the stomach			
Inpatient treatments for gastric cancer (PDX)	Quantity Information 2	46,5 (22) 18.355	
Gastric, duodenal, and jejunal ulcers (PDX, without malignancy), in-hospital mortality	Observed value 1	4,3% 991 of 22.891	
Gastric resections, all	Quantity Information 2	24,6 (11) 8.030	
Gastric resection without esophageal resection for gastric cancer, in-hospital mortality	Observed value 1	5,5% 133 of 2.433	
Gastric resection combined with esophageal resection, in-hospital mortality	Observed value 1	15,6% 58 of 372	
Partial and total gastric resection for other diagnoses, in-hospital mortality	Observed value 1	6,0% 311 of 5.225	
Bariatric interventions			
Bariatric interventions, in-hospital mortality	Observed value 1	0,1% 4 of 7.141	
Major esophageal surgery			
Major esophageal surgery, in-hospital mortality	Observed value 1	9,1% 165 of 1.822	

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Major pancreatic surgery

Pancreatic resections total (without transplantation), in-hospital mortality age > 19	Observed value 1	9,0% 489 of 5.462	
Pancreatic resections for malign neoplasms of the pancreas, in-hospital mortality	Observed value 1	7,4% 232 of 3.117	
Anatomical liver resection, in-hospital mortality age > 19	Observed value 1	6,3% 208 of 3.307	

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Vascular surgery

Surgery of the carotid and brain arteries

Extracranial artery surgery, in-hospital mortality	< 0,9% 1	0,8% 85 of 10.138	
Percutaneous stenting of extracranial arteries, in-hospital mortality	< 1,39% 1	1,8% 41 of 2.282	
Extracranial artery surgery combined with cardiac or aortic surgery or neoplasm of the ENT area, in-hospital mortality	Observed value 1	12,6% 204 of 1.622	
Percutaneous intracranial interventions	Quantity Information 2	96,6 (48) 14.203	

Aortic surgery

Aortic surgery: all interventions	Quantity Information 2	55,2 (30) 11.041	
Abdominal aortic repair	Quantity Information 2	30,6 (24) 5.822	
Open abdominal aortic repair for aortic aneurysm, no rupture, in-hospital mortality	< 6,1% 1	8,6% 73 of 852	
Endovascular abdominal aortic repair for aortic aneurysm (EVAR), no rupture, in-hospital mortality	< 1,2% 1	1,3% 43 of 3.412	
Open abdominal aortic repair, no aneurysm, no rupture, in-hospital mortality	Observed value 1	10,8% 57 of 526	
Endovascular abdominal aortic repair, no aneurysm, no rupture, in-hospital mortality	Observed value 1	4,9% 16 of 325	
Thoracic aortic surgery, no aneurysm, no rupture, in-hospital mortality	Observed value 1	16,9% 56 of 332	

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Aortic aneurysms with rupture or dissection, in-hospital mortality	Information 1	42,7% 962 of 2.253	
thereof ruptured with surgical intervention, in-hospital mortality	Information 1	34,4% 413 of 1.200	
Lower extremity aterial surgery			
Lower extremity aterial surgery, all, in-hospital mortality	Observed value 1	5,9% 1.819 of 30.857	
thereof lower extremity bypass surgery for claudication (Fontaine I + II), in-hospital mortality	< 0,40% 1	0,3% 23 of 6.676	
thereof lower extremity bypass surgery for rest pain (Fontaine III), in-hospital mortality	< 2,1% 1	2,1% 45 of 2.120	
thereof lower extremity bypass surgery for necrosis or gangrene (Fontaine IV), in-hospital mortality	< 4,9% 1	4,3% 154 of 3.598	
thereof lower extremity bypass surgery for arterial embolism or thrombosis, in-hospital mortality	Observed value 1	10,2% 747 of 7.318	
thereof lower extremity bypass surgery for complications caused by implants, in-hospital mortality	Observed value 1	3,9% 151 of 3.868	
thereof lower extremity bypass surgery for aneurysm / dissection, in-hospital mortality	Observed value 1	3,3% 61 of 1.852	
thereof lower extremity bypass surgery combined with aortic surgery (see aortic surgery)	Quantity Information 2	9,2 (6) 1.584	

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thereof lower extremity bypass surgery for other diagnoses	Quantity Information 2	15,2 (12) 3.841	
Percutaneous Transluminal Angioplasty (PTA, inpatient)			
Percutaneous transluminal angioplasty of abdominal and/or lower limb arteries (without aortic intervention), in-hospital mortality	Observed value 1	2,8% 1.737 of 62.193	
thereof PTA of lower extremity arteries with lower extremity bypass surgery during the same stay	Quantity Information 2	41,6 (34) 9.903	
Arteriovenous shunting			
Surgical creation of arteriovenous fistula	Quantity Information 2	36,4 (24) 7.576	

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IQM Quality indicators

IQM Target value	IQM Average value	Hospital Expected value
Source	Number of cases	SMR

Obstetrics and Gynecology

Deliveries

Deliveries with inpatient mortality	< 0,003% 1	0,005% 13 of 287.061	
Vaginal delivery with third- or fourth-degree tears	< 2,0% 1	1,8% 3.549 of 198.352	
Vaginal delivery with episiotomy	Information 1	12,9% 25.493 of 198.352	
Cesarean section rate	Information 1	30,9% 88.709 of 287.061	
Cesarean section with Misgav-Ladach technique (% of all sections)	Information 1	75,3% 66.796 of 88.709	
Cesarean section with low risk delivery	Information 1	25,2% 62.335 of 247.828	
thereof Cesarean section with low risk delivery age < 35	Information 1	23,3% 43.541 of 187.258	
thereof Cesarean section with low risk delivery age > 34	Information 1	31,0% 18.794 of 60.570	

Newborns

Neonates below 1250 g	Quantity Information 2	25,6 (20) 3.146	
thereof neonates below 1250 g, transfer from other hospital	Quantity Information 2	5,5 (2) 269	
thereof neonates below 500 g	Quantity Information 2	4,0 (2) 320	
thereof neonates >=500 g and <750 g	Quantity Information 2	8,5 (7) 770	
thereof neonates >=750 g and <1000 g	Quantity Information 2	10,8 (8) 1.001	
thereof neonates >=1000 g and <1250 g	Quantity Information 2	10,0 (9) 1.055	

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IQM Quality indicators	IQM Target value	IQM Average value	Hospital Expected value		
	Source	Number of cases	SMR		
Neonates >=1250 g and <1500 g	Quantity Information 2	13,1 (11) 1.560			
Neonates >=1500 g and <2500 g	Quantity Information 2	81,1 (33) 19.380			
Neonates > 2500 g (or no mention of weight)	Quantity Information 2	1166,6 (911) 285.813			
Hysterectomy for benign diseases					
Hysterectomy for benign diseases, in-hospital mortality age > 14	< 0,03% 1	0,02 % 6 of 24.134			
Share of vaginal/laparoscopic hysterectomy without plastic surgeries	> 87,5% 1	87,9% 21.005 of 23.896			
Share of vaginal hysterectomy without plastic surgeries	Information 1	37,5% 8.964 of 23.896			
thereof vaginal hysterectomy with morcellation of the uterus	Information 1	6,9% 617 of 8.964			
Share of laparoscopic hysterectomy without plastic surgeries	Information 1	50,4% 12.041 of 23.896			
thereof laparoscopic hysterectomy with morcellation of the uterus	Information 1	32,6% 3.929 of 12.041			
Share of hysterectomy for benign diseases combined with oophorectomy excl. endometriosis age < 50	Information 1	6,8% 585 of 8.587			
Share of hysterectomy for benign diseases combined with oophorectomy excl. endometriosis age > 49	Information 1	28,5% 2.675 of 9.380			

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Source	Number of cases	SMR

Breast cancer and female genital cancer

Breast cancer and female genital cancer (PDX)	Quantity Information 2	209,4 (69) 84.374	
Inpatient cases for cancer of the ovaries (PDX)	Quantity Information 2	33,1 (15) 11.278	
Cancer of the ovaries with oophorectomy, in-hospital mortality	Observed value 1	2,1% 60 of 2.853	
Inpatient cases for cancer of the uterus (PDX)	Quantity Information 2	49,2 (25) 16.782	
Cancer of the uterus with hysterectomy, in-hospital mortality	Observed value 1	0,8% 47 of 5.964	
Inpatient cases for breast cancer (PDX)	Quantity Information 2	130,8 (38) 51.405	

Breast surgery, all (lumpectomy, partial mastectomy and breast augmentation)

Breast surgery, all (lumpectomy, partial mastectomy and breast augmentation)	Quantity Information 2	147,0 (85) 43.078	
Lumpectomy, partial mastectomy for cancer	Quantity Information 2	128,2 (106) 31.399	
Share of breast conserving surgery in breast cancer	Information 1	72,5% 22.749 of 31.399	

Interventions on female pelvic floor

Pelvic surgeries with and without plastic surgeries, total	Quantity Information 2	70,0 (56) 21.139	
thereof for pelvic organ prolapse (POP)	Quantity Information 2	53,2 (44) 15.522	
thereof for incontinence (without pelvic organ prolapse)	Quantity Information 2	16,0 (10) 4.282	

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thereof for other diagnosis

Quantity Information

2

7,7 (3)

1.335

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Diseases of the skeletal system

Cancer of the skeletal system

Cancer of the skeletal system (PDX)	Quantity Information 2	44,5 (6) 15.929	
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Endoprosthetics

Hip replacement for coxarthrosis and chronic hip arthritis, in-hospital mortality	< 0,14% 1	0,14 % 74 of 52.832	
Hip replacement for hip fracture, in-hospital mortality	Observed value 1	5,4% 1.027 of 18.916	
Hip replacement for other diagnoses, in-hospital mortality	Observed value 1	5,5% 358 of 6.515	
Hip replacement for coxarthrosis and hip arthritis, share of cases with non-surgical complications	Observed value 1	2,7% 1.412 of 52.832	
Hip revision surgery without fracture or infection, in-hospital mortality	< 1,02% 1	0,8% 49 of 5.786	
thereof hip revision surgery with special prosthesis, in-hospital mortality	Information 1	0,6% 7 of 1.189	
Hip revision surgery for fracture or infection, in-hospital mortality	Observed value 1	3,9% 139 of 3.608	
Knee replacement for gonarthrosis and chronic knee arthritis, in-hospital mortality	< 0,07% 1	0,05 % 26 of 50.692	
Knee replacement for other diagnoses, in-hospital mortality	Observed value 1	0,5% 18 of 3.736	
Knee replacement for gonarthrosis and knee arthritis, share of cases with non-surgical complications	Observed value 1	1,9% 962 of 50.692	

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Revision of knee replacement without fracture or infection, in-hospital mortality	< 0,23% 1	0,37 % 19 of 5.083	
thereof knee revision surgery with special prosthesis, in-hospital mortality	Information 1	0,5% 9 of 1.700	
Revision of knee replacement for fracture or infection, in-hospital mortality	Observed value 1	2,3% 46 of 2.005	
Hip or knee replacement for cancer, in-hospital mortality	Observed value 1	6,3% 155 of 2.475	
Hip or knee replacement combined, in-hospital mortality	Observed value 1	2,5% 2 of 80	

Hip fracture

Femoral neck fracture, in-hospital mortality age > 19	< Expected value 1	5,1% 1.520 of 29.598	5,1% 1,00
age 20 - 59	< Expected value 1	0,6% 14 of 2.421	0,8%
age 60 - 69	< Expected value 1	1,5% 49 of 3.224	1,6%
age 70 - 79	< Expected value 1	3,0% 208 of 7.030	2,9%
age 80 - 84	< Expected value 1	4,9% 338 of 6.837	4,9%
age 85 - 89	< Expected value 1	6,9% 378 of 5.498	7,4%
age > 89	< Expected value 1	11,6% 533 of 4.588	10,9%
Intertrochanteric hip fracture, in-hospital mortality age > 19	< Expected value 1	5,1% 1.388 of 27.018	5,3% 0,98

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Spinal surgery

Surgery of the spine and medulla except local interventions for pain management	Quantity Information 2	311,5 (174) 121.472	
Share of surgeries of the spine, surgeries of the medulla/spinal canal	Quantity Information 2	83,9 (34) 26.850	
Spinal fusion or vertebral body replacement for cancer, in-hospital mortality	Observed value 1	7,6% 271 of 3.579	
Spinal fusion or vertebral body replacement for trauma, in-hospital mortality	Observed value 1	3,3% 480 of 14.715	
Surgery of the spine in case of discitis or osteomyelitis, in-hospital mortality	Observed value 1	6,9% 175 of 2.552	
Complex reconstructions of the spine (without cancer or trauma), in-hospital mortality	Observed value 1	0,5% 11 of 2.155	
Spinal fusion or vertebral body replacement, 1 level (without cancer, trauma, complex reconstr.), in-hospital mortality	Observed value 1	0,1% 12 of 13.329	
Spinal fusion or vertebral body replacement, 2 levels (without cancer, trauma, complex reconstr.), in-hospital mortality	Observed value 1	0,3% 22 of 6.910	

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Spinal fusion or vertebral body replacement, 3 or more levels (without cancer, trauma, complex reconstr.), in-hospital mortality	Observed value 1	0,8% 35 of 4.426	
Decompression of the spinal column, in-hospital mortality	Observed value 1	0,1% 17 of 21.266	
Spinal discectomy (without cancer, Trauma, complex reconstr.), in-hospital mortality	< 0,02% 1	0,03 % 6 of 20.172	
Vertebroplasty or kyphoplasty (without cancer, complex reconstr., discectomy, vertebral body replacement), in-hospital mortality	Observed value 1	0,5% 43 of 8.247	
Other surgeries of the spine or medulla, in-hospital mortality	Observed value 1	1,6% 383 of 24.121	
Spinal discectomy (without cancer, trauma, complex reconstr.), share of cases with non-surgical complications	Observed value 1	0,5% 96 of 20.172	

Treatment of spinal diseases (PDX) without spinal surgery

Local spinal interventions for pain management (without other spinal surgery)	Quantity Information 2	112,6 (48) 42.438	
Treatment of spinal diseases (PDX) without spinal surgery or local interventions	Quantity Information 2	181,6 (147) 79.708	

Polytrauma

Polytrauma (according to DRG-definition)	Quantity Information 2	24,1 (9) 9.049	
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Diseases of the urinary tract and the male reproductive system

Nephrectomy

Radical nephrectomy, in-hospital mortality	< 1,9% 1	1,9% 80 of 4.180	
Radical nephrectomy, share of laparoscopic procedures	Information 1	37,1% 1.550 of 4.180	
Partial nephrectomy, in-hospital mortality	< 0,5% 1	0,54 % 19 of 3.502	
Partial nephrectomy, share of laparoscopic procedures	Information 1	40,1% 1.406 of 3.502	
Share of partial nephrectomies in cancer procedures	Information 1	45,6% 3.502 of 7.682	
Radical nephrectomy for other diagnosis, in-hospital mortality	Observed value 1	4,3% 96 of 2.253	
Partial nephrectomy for other diagnosis, in-hospital mortality	Observed value 1	0,5% 6 of 1.106	

Bladder surgery

Inpatient cases for bladder cancer (PDX)	Quantity Information 2	130,7 (31) 45.873	
Transurethral resections (TUR) at the bladder (all)	Quantity Information 2	209,3 (204) 47.710	
thereof transurethral resections for bladder cancer	Quantity Information 2	159,3 (157) 32.807	
Share of cancer TUR with intravesical instillation chemotherapy	Observed value 1	18,3% 5.995 of 32.807	
Cystectomy, in-hospital mortality	< 4,9% 1	4,5% 150 of 3.304	
Pelvic evisceration (men or women), in-hospital mortality	Observed value 1	5,6% 39 of 695	

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Transurethral resection of the prostate (TURP)

Transurethral resection of the prostate (TURP), in-hospital mortality	< 0,17% 1	0,17 % 40 of 24.083	
Transurethral resection of the prostate (TURP) for malignant diseases, in-hospital mortality	Observed value 1	0,6% 49 of 7.640	
Transurethral resection of the prostate (TURP), share of cases with non-surgical complications	Observed value 1	4,1% 1.299 of 31.723	
Inpatient cases for prostate cancer (PDX)	Quantity Information 2	97,1 (19) 37.398	
Prostatectomy, in-hospital mortality	< 0,11% 1	0,10 % 12 of 11.764	

Kidney stones

Inpatient cases for kidney stones (PDX)	Quantity Information 2	207,9 (45) 82.536	
Share of cases with interventions for stone removal	Information 1	52,6% 43.409 of 82.536	

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Diseases of the skin

Diseases of the skin

Inpatient treatment for melanoma (PDX)	Quantity Information 2	49,0 (4) 14.198	
Inpatient treatment for dermatitis and eczema (PDX)	Quantity Information 2	45,4 (7) 18.357	
Inpatient treatment for psoriasis (PDX)	Quantity Information 2	32,3 (2) 6.784	

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Intensive care

Intensive care

Mechanical ventilation for > 24 hours (without neonates), in-hospital mortality	< 33,3% 1	33,6% 35.508 of 105.806	
ECLS/ECMO - Heart / Cardiopulmonary support	Quantity Information 2	35,4 (12) 3.118	
ECMO - Lung support	Quantity Information 2	20,1 (5) 2.337	
Sepsis (PDX), in-hospital mortality	< Expected value 1	15,8% 9.662 of 61.288	15,7% 1,01
thereof Sepsis with organ dysfunction or shock (PDX), in-hospital mortality	< Expected value 1	28,1% 8.022 of 28.525	29,4%
thereof Sepsis without organ dysfunction or shock (PDX), in-hospital mortality	< Expected value 1	5,0% 1.640 of 32.763	5,6%
Sepsis (as secondary diagnosis), in-hospital mortality	Observed value 1	31,5% 23.808 of 75.552	
thereof Sepsis with organ dysfunction or shock (as secondary diagnosis), in-hospital mortality	Observed value 1	44,6% 20.122 of 45.123	

Congenital coagulation disorder

Patients with congenital coagulation disorders	Quantity Information 2	35,2 (15) 15.168	
thereof surgical patients (with congenital coagulation disorders)	Quantity Information 2	23,4 (10) 9.436	

Autopsy rate

Autopsy rate	Information 1	1,1% 1.909 of 169.680	
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Highly specialised medical care

Transplantations

thereof heart-lung transplantation	Quantity Information 2	1 (1) 1	
thereof heart transplantation	Quantity Information 2	22,3 (16) 223	
thereof lung transplantation	Quantity Information 2	36,9 (12) 258	
Liver transplantation all	Quantity Information 2	44,3 (42) 443	
thereof liver transplantation, entire liver	Quantity Information 2	39,3 (38) 393	
thereof liver transplantation, partial / auxiliary / other	Quantity Information 2	6,2 (4) 50	
thereof with liver retransplantation during the same hospital stay	Quantity Information 2	2,4 (2) 22	
all types			
Pancreas and pancreatic cell transplantation, all	Quantity Information 2	3,9 (4) 39	
Kidney transplantation, all	Quantity Information 2	60,6 (43) 1.212	
thereof kidney transplantation, living donor (allogeneic or syngeneic)	Quantity Information 2	15,4 (11) 307	
thereof kidney transplantation, deceased donor	Quantity Information 2	44,4 (32) 889	
thereof kidney transplantation, autotransplantation and others	Quantity Information 2	1,8 (2) 16	
thereof combined kidney and pancreas transplantation	Quantity Information 2	3,1 (2) 31	
Transplantation or transfusion of hematopoietic stem cells, all	Quantity Information 2	82,0 (54) 4.098	

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Transplantation of hematopoietic stem cells, all (bone marrow)	Quantity Information 2	8,8 (8) 237	
thereof transplantation of hematopoietic stem cells, autologous (bone marrow)	Quantity Information 2	2,3 (1) 16	
Transfusion of peripheral blood stem cells	Quantity Information 2	77,4 (52) 3.869	
thereof transfusion of peripheral blood stem cells, autologous	Quantity Information 2	45 (40) 2.250	
Autologous stem cell therapy	Quantity Information 2	10,3 (1) 155	
Allogeneic stem cell therapy	Quantity Information 2	4,9 (3) 74	
Hyperthermic chemotherapy			
Hyperthermic intraperitoneal chemotherapy	Quantity Information 2	8,2 (4) 481	
Hyperthermic intrathoracic chemotherapy	Quantity Information 2	2,4 (2) 38	

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Palliative care

Palliative care

Palliative care complex treatment	Quantity Information	183,7 (137)	
	2	45.367	

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Source	Number of cases	SMR

Length of stay (LOS) for selected diseases / procedures

Length of stay (LOS) for selected diseases / procedures

Length of stay	Information	5,65	
excluding psychiatry and early rehabilitation	1	40.458.451 of 7.163.443	
Cholecystectomy for gallstones, LOS	Information	4,90	
without malignancies	1	264.306 of 53.922	
Hernia repair without bowel resection, LOS	Information	2,36	
	1	171.736 of 72.761	
Extracranial artery surgery, LOS	Information	8,33	
excluding early rehabilitation	1	83.958 of 10.078	
Hysterectomy for benign diseases, LOS	Information	4,72	
	1	115.789 of 24.545	
Hip replacement for coxarthrosis and chronic hip arthritis, LOS	Information	8,76	
excluding early rehabilitation	1	454.646 of 51.911	
Knee replacement for gonarthrosis and chronic knee arthritis, LOS	Information	8,53	
excluding early rehabilitation	1	428.564 of 50.239	
Transurethral resection of the prostate (TURP), LOS	Information	5,52	
	1	174.901 of 31.690	
Tonsillectomy, LOS	Information	4,14	
without malignancies	1	113.157 of 27.303	
Acute Myocardial Infarction, LOS	Information	7,11	
excluding early rehabilitation, age > 19	1	617.037 of 86.726	
Cerebral infarction (ICD I63), LOS	Information	8,51	
excluding early rehabilitation, age > 19	1	785.811 of 92.384	

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Supplementary Information

Supplementary Information

Share of inpatient cases displayed in all G-IQI/ CH-IQI indicators except psychiatry	Information 1	52,8% 3.848.702 of 7.289.364	
Share of deaths displayed in G-IQI/CH-IQI mortality indicators except psychiatry	Information 1	58,7% 99.623 of 169.680	
Share of deaths contained in all G-IQI/CH-IQI groups except psychiatry	Information 1	77,0% 130.658 of 169.680	

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Source	Number of cases	SMR

Diseases of the Heart

Acute Myocardial Infarction (AMI)

Acute Myocardial Infarction, in-hospital mortality, observed age > 19	< Expected value 1	8,1% 7.040 of 87.234	8,1% 1,00
age 20 - 44	< Expected value 1	2,8% 77 of 2.789	3,0%
age 45 - 64	< Expected value 1	4,3% 1.229 of 28.491	4,0%
age 65 - 84	< Expected value 1	8,9% 4.069 of 45.843	9,0%
age > 84	< Expected value 1	16,5% 1.665 of 10.111	17,1%
Share of AMI with left heart catheter	Information 1	80,0% 69.765 of 87.234	
Principle diagnosis AMI, direct admissions without transfers, in-hospital mortality age > 19	Observed value 1	9,1% 6.079 of 66.727	
Principle diagnosis AMI, transfers from other hospitals, in-hospital mortality age > 19	Observed value 1	8,5% 961 of 11.348	
Share of AMI coded as unspecified (I21.9)	Observed value 1	1,1% 927 of 87.092	
Share of AMI, transmural (STEMI)	Information 1	33,3% 29.052 of 87.234	
AMI, transmural, in-hospital mortality	< Expected value 1	11,8% 3.429 of 29.052	11,7%
AMI nontransmural / NSTEMI, in-hospital mortality	Observed value 1	5,6% 3.201 of 57.113	
Secondary diagnosis AMI, in-hospital mortality age > 19	Observed value 1	19,5% 5.295 of 27.120	

Heart Failure

Principle diagnosis heart failure, in-hospital mortality, observed age > 19	< Expected value 1	7,5% 12.885 of 172.220	7,9% 0,94
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age 20 - 44	< Expected value 1	2,6% 41 of 1.600	1,8%
age 45 - 64	< Expected value 1	2,8% 529 of 18.882	3,2%
age 65 - 84	< Expected value 1	6,3% 6.356 of 101.183	6,6%
age > 84	< Expected value 1	11,8% 5.959 of 50.555	12,7%
Left-sided heart failure, share coded as NYHA IV	Information 1	47,4% 53.543 of 112.988	

Cases with left heart catheterization

Cases with coronary catheterization	Quantity Information 2	868,7 (679) 321.426	
age > 19			
Coronary catheterization for infarction, without open heart procedure, in-hospital mortality observed (referred to patients with AMI and left heart catheterization)	< Expected value 1	6,2% 4.217 of 68.100	5,9%
age > 19			1,04
Diagnostic coronary catheterization without PDX of AMI, without open heart procedure, in-hospital mortality	< 1,23% 1	1,5% 2.258 of 153.745	
age > 19			
thereof diagnostic coronary catheterization without PDX of AMI, without open heart procedure, without procedure OPS 5-***, in-hospital mortality	Observed value 1	1,2% 1.709 of 140.917	
age > 19			
Therapeutic coronary catheterization without PDX of AMI, without open heart procedure, in-hospital mortality	Observed value 1	1,8% 1.529 of 84.690	
age > 19			
thereof therapeutic coronary catheterization without PDX of AMI, without open heart procedure, without procedure OPS 5-***, in-hospital mortality	Observed value 1	1,3% 1.051 of 79.707	
age > 19			

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	Source	Number of cases	SMR
Share of therapeutic coronary catheterization without PDX of AMI, without open heart procedure age > 19	Information 1	35,5% 84.690 of 238.435	
Left heart catheterization in children and adolescents age < 20	Quantity Information 2	27,4 (2) 3.233	
Cardiac arrhythmia			
Patients with cardiac arrhythmia as principal diagnosis	Quantity Information 2	436,8 (282) 185.220	
Implantation of pacemaker/defibrillator			
Implantation of pacemaker/defibrillator	Quantity Information 2	149,8 (93) 55.568	
thereof implantation or exchange of defibrillator	Quantity Information 2	58,9 (39) 16.433	
Ablation therapy			
Cases with ablation therapy using catheterization	Quantity Information 2	239,5 (168) 41.435	
thereof atrial ablation for atrial fibrillation/flutter, in-hospital mortality	Information 1	0,1% 11 of 21.829	
Cases with ablation therapy using open heart surgery	Quantity Information 2	55,0 (20) 2.311	
Heart surgery			
Patients with heart surgery	Quantity Information 2	266,3 (5) 55.924	
thereof patients with valvular surgery	Quantity Information 2	380,3 (48) 34.229	
thereof patients with coronary bypass surgery	Quantity Information 2	467,8 (446) 23.388	

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thereof patients with other cardiac surgery	Quantity Information 2	56,9 (4) 11.500	
among these: patients with combined surgery	Quantity Information 2	245,4 (202) 11.777	
among these: heart surgery in children and adolescents age < 20	Quantity Information 2	28,0 (2) 1.654	
Open aortic valve replacement	Quantity Information 2	247,0 (217) 10.126	
Isolated open aortic valve replacement, in-hospital mortality	< 2,2% 1	2,6% 103 of 3.891	
thereof isolated aortic valve replacement with PDX of endocarditis, in-hospital mortality	Information 1	11,2% 28 of 250	
thereof isolated aortic valve replacement without PDX of endocarditis, in-hospital mortality	Information 1	2,1% 75 of 3.641	
thereof isolated aortic valve replacement without heart support systems, in-hospital mortality	Information 1	2,1% 79 of 3.847	
Open aortic valve replacement with replacement of mitral valve, in-hospital mortality age > 19	Observed value 1	14,0% 51 of 363	
Open aortic valve replacement with other cardiac surgery age > 19	Observed value 1	5,8% 342 of 5.872	
Transcatheter aortic valve replacement (TAVR/TAVI), in-hospital mortality	Observed value 1	2,8% 313 of 11.074	

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IQM Quality indicators

	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
thereof transcatheter aortic valve replacement, peripheral approach, in-hospital mortality	Observed value 1	2,5% 260 of 10.215	
thereof transcatheter aortic valve replacement, transapical approach, in-hospital mortality	Observed value 1	6,2% 53 of 859	
Transcatheter/transapical mitral valve interventions, in-hospital mortality	Observed value 1	3,1% 115 of 3.737	
Coronary bypass surgery for myocardial infarction, in-hospital mortality, expected value referred to patients with coronary bypass surgery and myocardial infarction	< Expected value 1	5,8% 297 of 5.162	6,1% 0,94
Coronary bypass surgery for myocardial infarction without heart support systems, in-hospital mortality age > 19	Observed value 1	3,8% 190 of 4.984	
Isolated coronary bypass surgery without myocardial infarction, in-hospital mortality age > 19	< 2,0% 1	2,0% 241 of 12.018	
age 20 - 49	Observed value 1	0,5% 2 of 382	
age 50 - 59	Observed value 1	1,1% 23 of 2.134	
age 60 - 69	Observed value 1	1,5% 64 of 4.136	
age 70 - 79	Observed value 1	2,5% 106 of 4.303	
age > 79	Observed value 1	4,3% 46 of 1.063	

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Coronary bypass surgery with other cardiac surgery, in-hospital mortality

age > 19

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Observed value

8,8%

1

544 of 6.176

Isolated open aortic valve replacement, share of patients with carotid endarterectomy

Information

0,3%

1

11 of 3.891

Isolated coronary bypass surgery without myocardial infarction, share of patients with carotid endarterectomy

Information

0,7%

1

87 of 12.018

age > 19

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Diseases of the Nervous System, Stroke

Malignant neoplasms of the brain or cerebral membrane

Malignant neoplasm of the brain or cerebral membrane (PDX)	Quantity Information	35,5 (6)	
	2	11.013	
Brain surgery for malignant neoplasm, in-hospital mortality	Observed value	3,5%	
	1	130 of 3.740	

Stroke, all types by age groups

Stroke (PDX), all types, in-hospital mortality observed	< Expected value	9,4%	8,5%
age > 19	1	11.222 of 118.916	1,12
age 20 - 44	< Expected value	4,3%	3,0%
	1	158 of 3.714	
age 45 - 64	< Expected value	4,7%	3,8%
	1	1.243 of 26.289	
age 65 - 84	< Expected value	8,9%	8,0%
	1	5.942 of 67.075	
age > 84	< Expected value	17,8%	16,4%
	1	3.879 of 21.838	

Stroke, by type of stroke

Cerebral infarction (ICD I63), in-hospital mortality, observed	< Expected value	6,8%	6,3%
age > 19	1	6.802 of 100.279	1,07
Share of cerebral infarction with systemic thrombolysis	Information	15,9%	
	1	15.978 of 100.279	
Cerebral infarction with systemic thrombolysis, in-hospital mortality	Observed value	7,7%	
	1	1.229 of 15.978	
Share of cerebral infarction with thrombectomy	Information	7,7%	
	1	7.756 of 100.279	
Cerebral infarction with thrombectomy, in-hospital mortality	Observed value	18,8%	
	1	1.462 of 7.756	

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Cerebral infarction (ICD I63), percentage with pneumonia age > 19	Observed value 1	10,0% 9.978 of 100.279	
Cerebral infarction (ICD I63) with pneumonia, in-hospital mortality age > 19	Observed value 1	26,6% 2.651 of 9.978	
Cerebral infarction without transfer from other hospital age > 19	Observed value 1	6,5% 5.921 of 91.515	
Cerebral infarction, transfer from other hospital age > 19	Observed value 1	10,1% 881 of 8.764	
Haemorrhage			
Intracerebral haemorrhage (ICD I61), in-hospital mortality age > 19	Observed value 1	26,6% 3.642 of 13.709	
Subarachnoid haemorrhage (ICD I60), in-hospital mortality age > 19	Observed value 1	16,5% 722 of 4.387	
Share of unspecified stroke (ICD I64) age > 19	< 1,0% 1	0,5% 541 of 118.916	
Unspecified stroke (ICD I64), in-hospital mortality age > 19	Observed value 1	10,4% 56 of 541	
Transient cerebral ischaemic attacks			
Transient cerebral ischaemic attack, in-hospital mortality	Observed value 1	0,3% 115 of 39.664	
Transient cerebral ischaemic attack, share of patients with specialized stroke unit therapy	Information 1	66,7% 26.459 of 39.664	

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Epilepsy

Inpatient treatment for epilepsy (PDX) age > 19	Quantity Information 2	121,3 (32) 49.597	
Inpatient treatment for epilepsy (PDX) age < 20	Quantity Information 2	51 (16) 12.087	

Multiple sclerosis

Inpatient treatment for multiple sclerosis (PDX)	Quantity Information 2	49,8 (10) 14.043	
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Geriatric medicine

Early geriatric rehabilitation

Patients with early geriatric rehabilitation	Quantity Information 2	470 (373) 116.560	
Early geriatric rehabilitation with coded Barthel-Index	Information 1	97,0% 113.066 of 116.560	

Malnutrition of elderly patients

Malnourished patients, age > 65, without tumor diseases	Information 1	1,1% 28.990 of 2.750.412	
Patients fed by tube/infusion	Information 1	2,0% 593 of 28.990	

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Diseases of the Lung

Pneumonia

Pneumonia (PDX), in-hospital mortality, observed	< Expected value	11,1%	11,0%
All age groups	1	15.234 of 136.761	
age < 20	< Expected value	0,3%	0,2%
	1	47 of 17.398	
age 20 - 44	< Expected value	1,8%	1,6%
	1	118 of 6.559	
age 45 - 64	< Expected value	6,0%	5,8%
	1	1.211 of 20.222	
age 65 - 84	< Expected value	12,4%	12,3%
	1	7.852 of 63.542	
age > 84	< Expected value	20,7%	20,4%
	1	6.006 of 29.040	
Pneumonia excluding admission transfers, neoplasms, cystic fibrosis, (CAP), in-hospital mortality, observed	< Expected value	9,5%	9,5%
age > 19	1	7.955 of 83.968	1,00
age 20 - 44	< Expected value	1,0%	0,8%
	1	52 of 5.413	
age 45 - 64	< Expected value	3,2%	3,1%
	1	464 of 14.437	
age 65 - 84	< Expected value	8,7%	8,9%
	1	3.734 of 43.002	
age > 84	< Expected value	17,5%	17,4%
	1	3.705 of 21.116	
Pneumonia excluding admission transfers, neoplasms, CF, in-hospital mortality, age 1 - 19	Observed value	0,2%	
	1	25 of 12.829	
Pneumonia with inhalation of food or stomach contents, in-hospital mortality	Observed value	28,2%	
	1	3.488 of 12.373	

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Chronic obstructive pulmonary disease (COPD)

Chronic obstructive pulmonary disease (COPD without malignancy), in-hospital mortality age > 19	< Expected value 1	4,2% 3.437 of 81.863	4,1% 1,02
thereof COPD without malignancy, FEV1 < 35%, in-hospital mortality	Information 1	5,0% 1.426 of 28.662	
thereof COPD without malignancy, FEV1 >= 35% and <50%, in-hospital mortality	Information 1	1,9% 295 of 15.474	
thereof COPD without malignancy, FEV1 >= 50% and <70%, in-hospital mortality	Information 1	1,1% 113 of 10.470	
thereof COPD without malignancy, FEV1 >= 70%, in-hospital mortality	Information 1	1,3% 50 of 3.935	
thereof COPD without malignancy, FEV1 unspecified, in-hospital mortality	Information 1	6,7% 1.553 of 23.322	
Share of COPD without malignancy coded with FEV1 unspecified (target: below 5%)	Information 1	28,5% 23.322 of 81.863	

Malignant neoplasm of bronchus and lung

Inpatient treatment for malignant neoplasm of bronchus and lung (PDX)	Quantity Information 2	194,6 (46) 80.182	
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Major lung procedures

Major resections of lung or bronchus for all diagnoses, in-hospital mortality	Observed value 1	3,0% 411 of 13.600	
Pneumonectomy for lung cancer, in-hospital mortality	Observed value 1	14,8% 54 of 366	
Partial pneumonectomy for lung cancer, in-hospital mortality	< 2,7% 1	2,1% 125 of 5.861	

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Share of pneumonectomies for lung cancer	< 20% 1 / 3	5,9% 366 of 6.227	
Share of broncho-angioplastic procedures for lung cancer (partial pneumonectomies)	Observed value 1	10,4% 611 of 5.861	

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Diseases of the visceral organs

Cholecystectomy

Cholecystectomy for gallstones (without malignancies), share of laparoscopic removals

> 94,1%

93,9%

1

49.404 of 52.588

Cholecystectomy for gallstones (without malignancies), rate of conversion to open surgery

Observed value

3,4%

1

1.762 of 52.588

Cholecystectomy for gallstones (without malignancies), in-hospital mortality

< 0,47%

0,5%

1

263 of 52.588

Repair of femoral, inguinal and umbilical hernia

Hernia repair without bowel resection, in-hospital mortality

< 0,09%

0,1%

1

69 of 71.125

Hernia repair with bowel resection, in-hospital mortality

Observed value

1,9%

1

153 of 8.189

Repair of inguinal hernia, share of operations with alloplastic material

Information

11,0%

age < 20

1

419 of 3.793

Repair of inguinal hernia, share of operations with alloplastic material

Information

97,1%

age > 19

1

47.430 of 48.866

Thyroidectomy

Thyroidectomies

Quantity Information

56,8 (25)

2

19.315

thereof thyroidectomies for thyroid cancer

Quantity Information

9,8 (4)

2

2.358

thereof thyroidectomies for benign diseases

Quantity Information

48,6 (23)

2

15.845

Thyroidectomy, share of patients with mechanical ventilation >24 hours

Information

0,7%

1

120 of 18.203

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Radioactive iodine therapy

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Quantity Information 2	275,9 (247) 14.072	

Diseases of the large bowel and rectum

Inpatient treatments for colorectal cancer (PDX)

Quantity Information 2	138,5 (90) 56.645	
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Inpatient treatments for ulcerative colitis or Crohn's disease (PDX + SDX)

Quantity Information 2	102,1 (64) 45.835	
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All colorectal resections, in-hospital mortality

Observed value 1	7,7% 3.312 of 42.852	
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thereof colon resection for colorectal cancer without complicating diagnosis, in-hospital mortality

< 4,2% 1	3,8% 414 of 10.848	
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thereof colon resection for colorectal cancer with complicating diagnosis, in-hospital mortality

Observed value 1	11,5% 355 of 3.077	
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thereof rectal resection for colorectal cancer, in-hospital mortality

< 3,6% 1	2,7% 151 of 5.522	
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thereof colon resection surgery for diverticulitis without diverticular perforation/abscess, in-hospital mortality

< 0,9% 1	1,0% 23 of 2.341	
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thereof colon resection surgery for diverticulitis with diverticular perforation/abscess, in-hospital mortality

Observed value 1	4,3% 245 of 5.654	
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thereof colorectal resection for colonic ischemia, in-hospital mortality

Information 1	44,9% 1.117 of 2.490	
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thereof colorectal resection for ulcerative colitis or Crohn's disease, in-hospital mortality

Observed value 1	3,1% 61 of 1.968	
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thereof colorectal resection for other diagnoses, in-hospital mortality	Information 1	8,6% 946 of 10.952	
Colorectal resections for colorectal cancer, share of cases with partial resection/destruction of the liver	Information 1	4,8% 938 of 19.447	
Diseases of the stomach			
Inpatient treatments for gastric cancer (PDX)	Quantity Information 2	45,6 (23) 17.834	
Gastric, duodenal, and jejunal ulcers (PDX, without malignancy), in-hospital mortality	Observed value 1	4,5% 990 of 22.004	
Gastric resections, all	Quantity Information 2	23,4 (11) 7.618	
Gastric resection without esophageal resection for gastric cancer, in-hospital mortality	Observed value 1	6,2% 160 of 2.576	
Gastric resection combined with esophageal resection, in-hospital mortality	Observed value 1	11,3% 49 of 432	
Partial and total gastric resection for other diagnoses, in-hospital mortality	Observed value 1	5,6% 259 of 4.610	
Bariatric interventions			
Bariatric interventions, in-hospital mortality	Observed value 1	0,1% 6 of 6.406	
Major esophageal surgery			
Major esophageal surgery, in-hospital mortality	Observed value 1	8,8% 160 of 1.826	

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Major pancreatic surgery

Pancreatic resections total (without transplantation), in-hospital mortality age > 19	Observed value 1	9,7% 512 of 5.259	
Pancreatic resections for malign neoplasms of the pancreas, in-hospital mortality	Observed value 1	8,5% 250 of 2.951	
Anatomical liver resection, in-hospital mortality age > 19	Observed value 1	6,9% 229 of 3.310	

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Vascular surgery

Surgery of the carotid and brain arteries

Extracranial artery surgery, in-hospital mortality	< 0,9% 1	1,0% 102 of 10.128	
Percutaneous stenting of extracranial arteries, in-hospital mortality	< 1,39% 1	2,3% 57 of 2.528	
Extracranial artery surgery combined with cardiac or aortic surgery or neoplasm of the ENT area, in-hospital mortality	Observed value 1	13,1% 212 of 1.615	
Percutaneous intracranial interventions	Quantity Information 2	90,0 (36) 12.959	

Aortic surgery

Aortic surgery: all interventions	Quantity Information 2	53,1 (28) 11.106	
Abdominal aortic repair	Quantity Information 2	30,5 (23) 6.069	
Open abdominal aortic repair for aortic aneurysm, no rupture, in-hospital mortality	< 6,1% 1	6,9% 65 of 936	
Endovascular abdominal aortic repair for aortic aneurysm (EVAR), no rupture, in-hospital mortality	< 1,2% 1	1,5% 56 of 3.673	
Open abdominal aortic repair, no aneurysm, no rupture, in-hospital mortality	Observed value 1	9,3% 47 of 508	
Endovascular abdominal aortic repair, no aneurysm, no rupture, in-hospital mortality	Observed value 1	6,4% 19 of 296	
Thoracic aortic surgery, no aneurysm, no rupture, in-hospital mortality	Observed value 1	19,4% 69 of 356	

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Aortic aneurysms with rupture or dissection, in-hospital mortality	Information 1	40,6% 957 of 2.357	
thereof ruptured with surgical intervention, in-hospital mortality	Information 1	32,1% 377 of 1.175	
Lower extremity arterial surgery			
Lower extremity arterial surgery, all, in-hospital mortality	Observed value 1	6,2% 1.949 of 31.494	
thereof lower extremity bypass surgery for claudication (Fontaine I + II), in-hospital mortality	< 0,40% 1	0,5% 32 of 6.827	
thereof lower extremity bypass surgery for rest pain (Fontaine III), in-hospital mortality	< 2,1% 1	2,2% 47 of 2.133	
thereof lower extremity bypass surgery for necrosis or gangrene (Fontaine IV), in-hospital mortality	< 4,9% 1	4,2% 161 of 3.815	
thereof lower extremity bypass surgery for arterial embolism or thrombosis, in-hospital mortality	Observed value 1	10,9% 806 of 7.363	
thereof lower extremity bypass surgery for complications caused by implants, in-hospital mortality	Observed value 1	4,6% 184 of 4.027	
thereof lower extremity bypass surgery for aneurysm / dissection, in-hospital mortality	Observed value 1	3,3% 58 of 1.783	
thereof lower extremity bypass surgery combined with aortic surgery (see aortic surgery)	Quantity Information 2	8,6 (5) 1.546	

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thereof lower extremity bypass surgery for other diagnoses

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Quantity Information 2	15,3 (13) 4.000	

Percutaneous Transluminal Angioplasty (PTA, inpatient)

Percutaneous transluminal angioplasty of abdominal and/or lower limb arteries (without aortic intervention), in-hospital mortality

Observed value 1	2,8% 1.720 of 61.516	
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thereof PTA of lower extremity arteries with lower extremity bypass surgery during the same stay

Quantity Information 2	41,6 (31) 10.032	
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Arteriovenous shunting

Surgical creation of arteriovenous fistula

Quantity Information 2	35,3 (24) 7.691	
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Obstetrics and Gynecology

Deliveries

Deliveries with inpatient mortality	< 0,003% 1	0,006% 16 of 290.465	
Vaginal delivery with third- or fourth-degree tears	< 2,0% 1	1,8% 3.547 of 200.531	
Vaginal delivery with episiotomy	Information 1	13,8% 27.657 of 200.531	
Cesarean section rate	Information 1	31,0% 89.934 of 290.465	
Cesarean section with Misgav-Ladach technique (% of all sections)	Information 1	75,1% 67.516 of 89.934	
Cesarean section with low risk delivery	Information 1	25,1% 62.995 of 250.490	
thereof Cesarean section with low risk delivery age < 35	Information 1	23,4% 44.515 of 190.590	
thereof Cesarean section with low risk delivery age > 34	Information 1	30,9% 18.480 of 59.900	

Newborns

Neonates below 1250 g	Quantity Information 2	26,9 (23) 3.200	
thereof neonates below 1250 g, transfer from other hospital	Quantity Information 2	5,8 (2) 299	
thereof neonates below 500 g	Quantity Information 2	4,1 (3) 325	
thereof neonates >=500 g and <750 g	Quantity Information 2	8,6 (6) 804	
thereof neonates >=750 g and <1000 g	Quantity Information 2	10,2 (8) 977	
thereof neonates >=1000 g and <1250 g	Quantity Information 2	10,6 (9) 1.094	

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Neonates >=1250 g and <1500 g	Quantity Information 2	15,0 (13) 1.684	
Neonates >=1500 g and <2500 g	Quantity Information 2	82,7 (30) 20.181	
Neonates > 2500 g (or no mention of weight)	Quantity Information 2	1136,2 (871) 287.449	
Hysterectomy for benign diseases			
Hysterectomy for benign diseases, in-hospital mortality age > 14	< 0,03% 1	0,04 % 10 of 25.366	
Share of vaginal/laparoscopic hysterectomy without plastic surgeries	> 87,5% 1	87,9% 22.080 of 25.126	
Share of vaginal hysterectomy without plastic surgeries	Information 1	40,7% 10.223 of 25.126	
thereof vaginal hysterectomy with morcellation of the uterus	Information 1	7,3% 745 of 10.223	
Share of laparoscopic hysterectomy without plastic surgeries	Information 1	47,2% 11.857 of 25.126	
thereof laparoscopic hysterectomy with morcellation of the uterus	Information 1	30,6% 3.628 of 11.857	
Share of hysterectomy for benign diseases combined with oophorectomy excl. endometriosis age < 50	Information 1	7,4% 664 of 8.984	
Share of hysterectomy for benign diseases combined with oophorectomy excl. endometriosis age > 49	Information 1	28,5% 2.858 of 10.036	

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Breast cancer and female genital cancer

Breast cancer and female genital cancer (PDX)	Quantity Information 2	200,5 (70) 81.810	
Inpatient cases for cancer of the ovaries (PDX)	Quantity Information 2	31,0 (14) 10.805	
Cancer of the ovaries with oophorectomy, in-hospital mortality	Observed value 1	2,1% 65 of 3.031	
Inpatient cases for cancer of the uterus (PDX)	Quantity Information 2	49,3 (27) 16.576	
Cancer of the uterus with hysterectomy, in-hospital mortality	Observed value 1	0,7% 41 of 5.955	
Inpatient cases for breast cancer (PDX)	Quantity Information 2	126,6 (36) 49.629	

Breast surgery, all (lumpectomy, partial mastectomy and breast augmentation)

Breast surgery, all (lumpectomy, partial mastectomy and breast augmentation)	Quantity Information 2	143,1 (79) 41.636	
Lumpectomy, partial mastectomy for cancer	Quantity Information 2	118,8 (94) 30.424	
Share of breast conserving surgery in breast cancer	Information 1	72,2% 21.959 of 30.424	

Interventions on female pelvic floor

Pelvic surgeries with and without plastic surgeries, total	Quantity Information 2	67,8 (53) 20.954	
thereof for pelvic organ prolapse (POP)	Quantity Information 2	52,2 (45) 15.301	
thereof for incontinence (without pelvic organ prolapse)	Quantity Information 2	16,1 (11) 4.303	

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thereof for other diagnosis

Quantity Information

2

7,4 (2)

1.350

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Diseases of the skeletal system

Cancer of the skeletal system

Cancer of the skeletal system (PDX)	Quantity Information 2	44,1 (6) 15.362	
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Endoprosthetics

Hip replacement for coxarthrosis and chronic hip arthritis, in-hospital mortality	< 0,14% 1	0,14 % 75 of 51.972	
Hip replacement for hip fracture, in-hospital mortality	Observed value 1	5,4% 1.002 of 18.410	
Hip replacement for other diagnoses, in-hospital mortality	Observed value 1	5,1% 309 of 6.017	
Hip replacement for coxarthrosis and hip arthritis, share of cases with non-surgical complications	Observed value 1	2,7% 1.380 of 51.972	
Hip revision surgery without fracture or infection, in-hospital mortality	< 1,02% 1	1,0% 58 of 5.810	
thereof hip revision surgery with special prosthesis, in-hospital mortality	Information 1	0,9% 11 of 1.239	
Hip revision surgery for fracture or infection, in-hospital mortality	Observed value 1	4,1% 138 of 3.398	
Knee replacement for gonarthrosis and chronic knee arthritis, in-hospital mortality	< 0,07% 1	0,07 % 34 of 49.190	
Knee replacement for other diagnoses, in-hospital mortality	Observed value 1	0,5% 16 of 3.450	
Knee replacement for gonarthrosis and knee arthritis, share of cases with non-surgical complications	Observed value 1	1,9% 943 of 49.190	

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IQM Quality indicators	IQM Target value	IQM Average value	Hospital Expected value
	Source	Number of cases	SMR
Revision of knee replacement without fracture or infection, in-hospital mortality	< 0,23%	0,17 %	
	1	8 of 4.840	
thereof knee revision surgery with special prosthesis, in-hospital mortality	Information	0,1%	
	1	2 of 1.697	
Revision of knee replacement for fracture or infection, in-hospital mortality	Observed value	2,1%	
	1	41 of 1.990	
Hip or knee replacement for cancer, in-hospital mortality	Observed value	6,6%	
	1	159 of 2.393	
Hip or knee replacement combined, in-hospital mortality	Observed value	4,1%	
	1	4 of 98	

Hip fracture

Femoral neck fracture, in-hospital mortality	< Expected value	5,3%	5,1%
age > 19	1	1.534 of 28.994	1,04
age 20 - 59	< Expected value	0,6%	0,8%
	1	14 of 2.416	
age 60 - 69	< Expected value	1,5%	1,6%
	1	47 of 3.137	
age 70 - 79	< Expected value	3,4%	2,9%
	1	248 of 7.236	
age 80 - 84	< Expected value	5,1%	4,9%
	1	325 of 6.316	
age 85 - 89	< Expected value	7,7%	7,3%
	1	420 of 5.424	
age > 89	< Expected value	10,8%	10,9%
	1	480 of 4.465	
Intertrochanteric hip fracture, in-hospital mortality	< Expected value	5,0%	5,2%
age > 19	1	1.330 of 26.399	0,97

Spinal surgery

Surgery of the spine and medulla except local interventions for pain management	Quantity Information	309,5 (188)	
	2	120.085	

Quality results
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G-IQI / CH-IQI 5.2 As of: 15.04.2020

Year:

2018

IQM Quality indicators

	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Share of surgeries of the spine, surgeries of the medulla/spinal canal	Quantity Information 2	88,0 (35) 26.324	
Spinal fusion or vertebral body replacement for cancer, in-hospital mortality	Observed value 1	7,6% 256 of 3.366	
Spinal fusion or vertebral body replacement for trauma, in-hospital mortality	Observed value 1	3,5% 515 of 14.626	
Surgery of the spine in case of discitis or osteomyelitis, in-hospital mortality	Observed value 1	7,8% 212 of 2.702	
Complex reconstructions of the spine (without cancer or trauma), in-hospital mortality	Observed value 1	0,4% 9 of 2.015	
Spinal fusion or vertebral body replacement, 1 level (without cancer, trauma, complex reconstr.), in-hospital mortality	Observed value 1	0,2% 20 of 12.884	
Spinal fusion or vertebral body replacement, 2 levels (without cancer, trauma, complex reconstr.), in-hospital mortality	Observed value 1	0,4% 24 of 6.501	
Spinal fusion or vertebral body replacement, 3 or more levels (without cancer, trauma, complex reconstr.), in-hospital mortality	Observed value 1	0,8% 33 of 4.231	
Decompression of the spinal column, in-hospital mortality	Observed value 1	0,0% 9 of 20.198	
Spinal discectomy (without cancer, Trauma, complex reconstr.), in-hospital mortality	< 0,02% 1	0,04 % 9 of 21.001	

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IQM Quality indicators

	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Vertebroplasty or kyphoplasty (without cancer, complex reconstr., discectomy, vertebral body replacement), in-hospital mortality	Observed value 1	0,4% 33 of 8.457	
Other surgeries of the spine or medulla, in-hospital mortality	Observed value 1	1,9% 446 of 24.104	
Spinal discectomy (without cancer, trauma, complex reconstr.), share of cases with non-surgical complications	Observed value 1	0,5% 107 of 21.001	
Treatment of spinal diseases (PDX) without spinal surgery			
Local spinal interventions for pain management (without other spinal surgery)	Quantity Information 2	113,0 (44) 41.571	
Treatment of spinal diseases (PDX) without spinal surgery or local interventions	Quantity Information 2	182,2 (146) 80.348	
Polytrauma			
Polytrauma (according to DRG-definition)	Quantity Information 2	24,2 (9) 9.278	

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IQM Quality indicators

IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
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Diseases of the urinary tract and the male reproductive system

Nephrectomy

Radical nephrectomy, in-hospital mortality	< 1,9% 1	1,7% 76 of 4.366	
Radical nephrectomy, share of laparoscopic procedures	Information 1	34,2% 1.494 of 4.366	
Partial nephrectomy, in-hospital mortality	< 0,5% 1	0,54 % 18 of 3.334	
Partial nephrectomy, share of laparoscopic procedures	Information 1	34,1% 1.136 of 3.334	
Share of partial nephrectomies in cancer procedures	Information 1	43,3% 3.334 of 7.700	
Radical nephrectomy for other diagnosis, in-hospital mortality	Observed value 1	4,2% 97 of 2.302	
Partial nephrectomy for other diagnosis, in-hospital mortality	Observed value 1	0,5% 5 of 1.056	

Bladder surgery

Inpatient cases for bladder cancer (PDX)	Quantity Information 2	129,2 (31) 45.599	
Transurethral resections (TUR) at the bladder (all)	Quantity Information 2	208,7 (204) 47.165	
thereof transurethral resections for bladder cancer	Quantity Information 2	163,5 (155) 32.869	
Share of cancer TUR with intravesical instillation chemotherapy	Observed value 1	17,4% 5.712 of 32.869	
Cystectomy, in-hospital mortality	< 4,9% 1	4,7% 156 of 3.315	
Pelvic evisceration (men or women), in-hospital mortality	Observed value 1	5,9% 40 of 678	

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IQM Quality indicators

IQM Target value	IQM Average value	Hospital Expected value
Source	Number of cases	SMR

Transurethral resection of the prostate (TURP)

Transurethral resection of the prostate (TURP), in-hospital mortality	< 0,17% 1	0,20 % 45 of 22.476	
Transurethral resection of the prostate (TURP) for malignant diseases, in-hospital mortality	Observed value 1	0,7% 52 of 7.593	
Transurethral resection of the prostate (TURP), share of cases with non-surgical complications	Observed value 1	4,2% 1.255 of 30.069	
Inpatient cases for prostate cancer (PDX)	Quantity Information 2	90,6 (17) 35.256	
Prostatectomy, in-hospital mortality	< 0,11% 1	0,17 % 18 of 10.749	

Kidney stones

Inpatient cases for kidney stones (PDX)	Quantity Information 2	212,8 (52) 84.037	
Share of cases with interventions for stone removal	Information 1	51,8% 43.552 of 84.037	

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IQM Quality indicators

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Average value

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Expected
value

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Diseases of the skin

Diseases of the skin

Inpatient treatment for melanoma (PDX)	Quantity Information 2	46,9 (4) 13.890	
Inpatient treatment for dermatitis and eczema (PDX)	Quantity Information 2	45,5 (8) 17.842	
Inpatient treatment for psoriasis (PDX)	Quantity Information 2	33,4 (2) 7.054	

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IQM Quality indicators

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Target value

IQM
Average value

Hospital
Expected
value

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Intensive care

Intensive care

Mechanical ventilation for > 24 hours (without neonates), in-hospital mortality	< 33,3% 1	33,4% 36.180 of 108.328	
ECLS/ECMO - Heart / Cardiopulmonary support	Quantity Information 2	31,4 (9) 2.886	
ECMO - Lung support	Quantity Information 2	15,6 (3) 2.151	
Sepsis (PDX), in-hospital mortality	< Expected value 1	16,5% 9.794 of 59.534	15,6% 1,06
thereof Sepsis with organ dysfunction or shock (PDX), in-hospital mortality	< Expected value 1	28,5% 8.089 of 28.356	29,3%
thereof Sepsis without organ dysfunction or shock (PDX), in-hospital mortality	< Expected value 1	5,5% 1.705 of 31.178	5,5%
Sepsis (as secondary diagnosis), in-hospital mortality	Observed value 1	32,0% 24.431 of 76.361	
thereof Sepsis with organ dysfunction or shock (as secondary diagnosis), in-hospital mortality	Observed value 1	45,6% 20.692 of 45.331	

Congenital coagulation disorder

Patients with congenital coagulation disorders	Quantity Information 2	35,1 (15) 14.980	
thereof surgical patients (with congenital coagulation disorders)	Quantity Information 2	23,2 (10) 9.348	

Autopsy rate

Autopsy rate	Information 1	1,2% 2.122 of 171.705	
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Quality results
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Average value

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Highly specialised medical care

Transplantations

thereof heart-lung transplantation	Quantity Information 2	1 (1) 3	
thereof heart transplantation	Quantity Information 2	19,2 (14) 192	
thereof lung transplantation	Quantity Information 2	43,3 (20) 303	
Liver transplantation all	Quantity Information 2	47,9 (50) 479	
thereof liver transplantation, entire liver	Quantity Information 2	42,6 (42) 426	
thereof liver transplantation, partial / auxiliary / other	Quantity Information 2	6,6 (5) 53	
thereof with liver retransplantation during the same hospital stay	Quantity Information 2	3,1 (3) 28	
all types			
Pancreas and pancreatic cell transplantation, all	Quantity Information 2	5,9 (6) 47	
Kidney transplantation, all	Quantity Information 2	61,4 (47) 1.229	
thereof kidney transplantation, living donor (allogeneic or syngeneic)	Quantity Information 2	16,2 (12) 324	
thereof kidney transplantation, deceased donor	Quantity Information 2	44,4 (34) 889	
thereof kidney transplantation, autotransplantation and others	Quantity Information 2	1,6 (2) 16	
thereof combined kidney and pancreas transplantation	Quantity Information 2	4,6 (2) 37	
thereof kidney and pancreas transplantation during the same stay	Quantity Information 2	1,3 (1) 4	

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	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Transplantation or transfusion of hematopoietic stem cells, all	Quantity Information 2	74,8 (48) 3.964	
Transplantation of hematopoietic stem cells, all (bone marrow)	Quantity Information 2	10,0 (8) 249	
thereof transplantation of hematopoietic stem cells, autologous (bone marrow)	Quantity Information 2	1,3 (1) 8	
Transfusion of peripheral blood stem cells	Quantity Information 2	70,3 (48) 3.725	
thereof transfusion of peripheral blood stem cells, autologous	Quantity Information 2	39,6 (35) 2.101	
Autologous stem cell therapy	Quantity Information 2	23,9 (6) 191	
Allogeneic stem cell therapy	Quantity Information 2	3,2 (2) 42	
Hyperthermic chemotherapy			
Hyperthermic intraperitoneal chemotherapy	Quantity Information 2	8,1 (4) 480	
Hyperthermic intrathoracic chemotherapy	Quantity Information 2	2,6 (2) 47	

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Palliative care

Palliative care

Palliative care complex treatment

Quantity Information

2

177,6 (130)

43.342

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IQM Quality indicators

IQM Target value	IQM Average value	Hospital Expected value
Source	Number of cases	SMR

Length of stay (LOS) for selected diseases / procedures

Length of stay (LOS) for selected diseases / procedures

Length of stay	Information	5,72	
excluding psychiatry and early rehabilitation	1	40.709.452 of 7.119.325	
Cholecystectomy for gallstones, LOS	Information	4,98	
without malignancies	1	261.850 of 52.588	
Hernia repair without bowel resection, LOS	Information	2,42	
	1	172.184 of 71.125	
Extracranial artery surgery, LOS	Information	8,39	
excluding early rehabilitation	1	84.477 of 10.065	
Hysterectomy for benign diseases, LOS	Information	4,84	
	1	124.673 of 25.776	
Hip replacement for coxarthrosis and chronic hip arthritis, LOS	Information	9,21	
excluding early rehabilitation	1	470.506 of 51.104	
Knee replacement for gonarthrosis and chronic knee arthritis, LOS	Information	8,98	
excluding early rehabilitation	1	437.607 of 48.722	
Transurethral resection of the prostate (TURP), LOS	Information	5,77	
	1	173.124 of 30.023	
Tonsillectomy, LOS	Information	4,26	
without malignancies	1	121.673 of 28.565	
Acute Myocardial Infarction, LOS	Information	7,20	
excluding early rehabilitation, age > 19	1	619.458 of 85.992	
Cerebral infarction (ICD I63), LOS	Information	8,65	
excluding early rehabilitation, age > 19	1	791.299 of 91.491	

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IQM Quality indicators

IQM Target value	IQM Average value	Hospital Expected value
Source	Number of cases	SMR

Supplementary Information

Supplementary Information

Share of inpatient cases displayed in all G-IQI/ CH-IQI indicators except psychiatry	Information 1	52,4% 3.797.215 of 7.242.121	
Share of deaths displayed in G-IQI/CH-IQI mortality indicators except psychiatry	Information 1	59,0% 101.251 of 171.705	
Share of deaths contained in all G-IQI/CH-IQI groups except psychiatry	Information 1	76,7% 131.686 of 171.705	



Manual for IQM quality indicators

Reading example

For the following quality indicator “Acute Myocardial Infarction, in-hospital mortality, observed (age > 19)” the value of the average hospital mortality of the German Federal Republic is at 8,6 % (source: Federal Statistical Office). For a sample hospital this results, according to age and gender of the patients in the evaluated year, in an expected mortality rate of 8,4 % **4**. The objective of the IQM members is to achieve a result lower than the expected value **1**. The sample hospital’s effective value amounted to 5,7 % **3** in the evaluated year and was therefore lower than the hospital expected value for the quality indicator “Acute Myocardial Infarction, in-hospital mortality, observed”. The IQM members’ total average value for this quality indicator lies at 7,9 % **2**. Expected values are only indicated in the results table if they were calculated from the data of the Federal Statistical Office.

G-IQI / CH-IQI 5.2 As of: 15.04.2020		Year:		2019	
IQM Quality indicators		IQM Target value Source	IQM Average value Number of cases	Hospital Effective value Number of cases	Hospital Expected value SMR
Diseases of the Heart					
Acute Myocardial Infarction (AMI)					
		1	2	3	4
Acute Myocardial Infarction, in-hospital mortality, observed age > 19		< Expected value 1	7,9% 6.909 of 87.973	5,7% 787 of 13.891	8,4% 0,67

The indicators

The German/Swiss Inpatient Quality Indicators (G-IQI/CH-IQI) used by IQM have been selected in order to represent frequently occurring and important disease patterns as well as important procedures. All indicators derive from the hospital’s routine data without any additional documentation, whereby an additional documentation is not necessary.

What do we measure?

We distinguish between **absolute quantity information** and **relative quantity information**, which represents e.g. a share of certain surgical procedures.

The essential measured value is the **mortality** within different disease patterns, even though we are conscious about the fact that hospital mortality cannot be avoided, even by using best medical quality. Therefore, we compare mortalities, if available, with federal average values. These values are calculated either from data of the **Federal Statistical Office** or from data of the **research data center of the Federal and State Statistical Offices**.

The data of the Federal Statistical Office allows **risk weighting** according to **age** and **gender** of the treated patients. Hospitals with a high proportion of very elderly patients usually indicate a different mortality rate compared to hospitals with comparably young patients.

The **expected value** offers useful guidance for the classification of results since it indicates the expected mortality rate at federal average for a group of patients of equal age and gender distribution. To this extent, individual expected values arise for different hospitals because of the differences in the age and gender distribution of the treated patients. The objective of the IQM members is to indicate “better” values than the expected values.

The relation between the expected mortality and the hospital’s effective value is scientifically called “**standardized mortality rate**“, in short „**SMR**“. If the rate is lower than 1, the hospital’s effective mortality is lower than expected, if the rate is higher than 1, the mortality is higher than expected. This value can only be calculated for indicators of which the expected mortality is indicated in the data of the Federal Statistical Office.

If there have been no values based on age and gender indicated for an indicator, the expected value cannot be calculated. We are also conscious about the fact that mortality is a quite rarely phenomenon for certain indicators, and that it cannot be used as the only evidence for medical quality. Mortality which is measured in the area of “low risk” enables to identify important potential for improvement within subsequent analysis.

Glossary

IQM Zielwert - Quellen:

Reference values respectively target values are indicated by the number written below the IQM target value. They derive from the following sources:

1. Federal Statistical Office, detailed diagnostic data of patients 2017 as calculation basis for the individual expected values of the hospitals.
2. FDZ of the statistical offices of the Federation and the Länder, DRG-Statistics 2017. Own calculations.
3. Source 1 and source 2.
4. Kaiser D (2007) Mindestmengen aus thoraxchirurgischer Sicht. Chirurg, 78(11):1012-1017

IQM Average value - number of cases:

The IQM quantity information (total) is given as an average value and in brackets as a median.

Hospital Expected value:

The expected value includes the expected mortality of our patients according to age and gender and is only indicated for those indicators with comparative figures of the federal average which allow calculations.

SMR:

The SMR (standardized mortality ratio) is the quotient of the mortality observed (average value) and the expected value.

Note regarding the indicator „Autopsy rate“:

The number of autopsies shown here may not be complete as a complete coding after release from hospital is not supported by all information systems used.