

Quality results

der Mitgliedskliniken der Initiative Qualitätsmedizin



G-IQI / CH-IQI 5.3 As of: 15.04.2022

preamble

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Presentation of results and use of indicator sets during the COVID-19 pandemic.

Repeated analysis of performance during the COVID-19 pandemic lockdown showed that case numbers at IQM member hospitals declined, compared to the years before the pandemic. This affected, already during the first lockdown, not only scheduled procedures, but also emergencies such as heart attacks and oncological treatment cases. This "corona effect" is evident in almost all indicators. Lower case numbers result in smaller populations of the indicators, but at the same time show a significantly different composition of case severity, which is not shown in the comparison group of reference values. Fewer, but in some cases more severely affected patients or also a clustered occurrence of COVID-19 cases in specific indicators such as pneumonia or intensive care, do not allow a comparison with the available reference values based on the 2019 federal reference values.

Therefore, the IQM Executive Board already decided in 2020 not to show the target values in the present presentation of results, which are determined in the IQM methodology based on the federal reference values, and to suspend the evaluation system via the SMR/expected values and target values for 2021 and 2020. Farther, descriptive COVID-19 metrics are added.

The metrics shown are intended to inform and guide the treatment spectrum.

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IQM Quality indicators

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Diseases of the Heart

Acute Myocardial Infarction (AMI)

Acute Myocardial Infarction, in-hospital mortality, observed age > 19	Information	8,4% 6.868 of 81.591	
age 20 - 44	Information	3,4% 91 of 2.704	
age 45 - 64	Information	4,6% 1.247 of 26.985	
age 65 - 84	Information	9,0% 3.781 of 41.851	
age > 84	Information	17,4% 1.749 of 10.051	
Share of AMI with left heart catheter	Information	83,6% 68.226 of 81.591	
Principle diagnosis AMI, direct admissions without transfers, in-hospital mortality age > 19	Information	8,3% 6.113 of 73.293	
Principle diagnosis AMI, transfers from other hospitals, in-hospital mortality age > 19	Information	9,1% 755 of 8.298	
Share of AMI coded as unspecified (I21.9)	Information	0,9% 756 of 81.495	
Share of AMI, transmural (STEMI)	Information	34,6% 28.194 of 81.495	
AMI, transmural, in-hospital mortality	Information	12,3% 3.454 of 28.194	
AMI nontransmural / NSTEMI, in-hospital mortality	Information	5,8% 3.054 of 52.545	
Secondary diagnosis AMI, in-hospital mortality age > 19	Information	21,0% 5.183 of 24.627	

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Heart Failure			
Principle diagnosis heart failure, in-hospital mortality, observed age > 19	Information	8,1% 14.115 of 173.427	
age 20 - 44	Information	2,1% 40 of 1.880	
age 45 - 64	Information	3,3% 575 of 17.397	
age 65 - 84	Information	6,9% 6.638 of 96.389	
age > 84	Information	11,9% 6.862 of 57.761	
Left-sided heart failure, share coded as NYHA IV	Information	49,1% 56.184 of 114.341	
Cases with left heart catheterization			
Cases with coronary catheterization age > 19	Quantity Information	800,9 (654) 297.923	
Coronary catheterization for infarction, without open heart procedure, in-hospital mortality observed (referred to patients with AMI and left heart catheterization) age > 19	Information	6,6% 4.439 of 66.837	
Diagnostic coronary catheterization without PDX of AMI, without open heart procedure, in-hospital mortality age > 19	Information	1,7% 2.313 of 138.019	
thereof diagnostic coronary catheterization without PDX of AMI, without open heart procedure, without procedure OPS 5-***, in-hospital mortality age > 19	Information	1,4% 1.709 of 125.852	
Therapeutic coronary catheterization without PDX of AMI, without open heart procedure, in-hospital mortality age > 19	Information	1,9% 1.512 of 78.521	

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thereof therapeutic coronary catheterization without PDX of AMI, without open heart procedure, without procedure OPS 5-***, in-hospital mortality age > 19	Information	1,5% 1.114 of 74.012	
Share of therapeutic coronary catheterization without PDX of AMI, without open heart procedure age > 19	Information	36,3% 78.521 of 216.540	
Left heart catheterization in children and adolescents age < 20	Quantity Information	25,6 (2) 3.128	
Cardiac arrhythmia			
Patients with cardiac arrhythmia as principal diagnosis	Quantity Information	406,5 (255) 175.204	
Implantation of pacemaker/defibrillator			
Implantation of pacemaker/defibrillator	Quantity Information	144,8 (101) 52.549	
thereof implantation or exchange of defibrillator	Quantity Information	52,4 (37) 14.523	
Ablation therapy			
Cases with ablation therapy using catheterization	Quantity Information	242,5 (185) 44.864	
thereof atrial ablation for atrial fibrillation/flutter, in-hospital mortality	Information	0,1% 22 of 26.833	
Cases with ablation therapy using open heart surgery	Quantity Information	47,9 (34) 1.580	
Heart surgery			
Patients with heart surgery	Quantity Information	230,1 (8) 50.844	
thereof patients with valvular surgery	Quantity Information	290,8 (35) 33.735	

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thereof patients with coronary bypass surgery	Quantity Information	391,4 (358) 17.614	
thereof patients with other cardiac surgery	Quantity Information	49,6 (3) 9.880	
among these: patients with combined surgery	Quantity Information	215,3 (172) 9.260	
among these: heart surgery in children and adolescents age < 20	Quantity Information	40,2 (2) 1.730	
Open aortic valve replacement	Quantity Information	199,2 (175) 7.370	
Isolated open aortic valve replacement, in-hospital mortality	Information	2,3% 66 of 2.822	
thereof isolated aortic valve replacement with PDX of endocarditis, in-hospital mortality	Information	8,6% 19 of 221	
thereof isolated aortic valve replacement without PDX of endocarditis, in-hospital mortality	Information	1,8% 47 of 2.601	
thereof isolated aortic valve replacement without heart support systems, in-hospital mortality	Information	1,6% 45 of 2.782	
Open aortic valve replacement with replacement of mitral valve, in-hospital mortality age > 19	Information	14,2% 40 of 281	
Open aortic valve replacement with other cardiac surgery age > 19	Information	6,9% 291 of 4.224	
Transcatheter aortic valve replacement (TAVR/TAVI), in-hospital mortality	Information	2,0% 263 of 12.879	

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thereof transcatheter aortic valve replacement, peripheral approach, in-hospital mortality	Information	1,8% 227 of 12.380	
thereof transcatheter aortic valve replacement, transapical approach, in-hospital mortality	Information	7,2% 36 of 499	
Transcatheter/transapical mitral valve interventions, in-hospital mortality	Information	3,0% 129 of 4.359	
Coronary bypass surgery for myocardial infarction, in-hospital mortality, expected value referred to patients with coronary bypass surgery and myocardial infarction	Information	5,9% 232 of 3.926	
Coronary bypass surgery for myocardial infarction without heart support systems, in-hospital mortality age > 19	Information	3,8% 143 of 3.760	
Isolated coronary bypass surgery without myocardial infarction, in-hospital mortality age > 19	Information	1,8% 163 of 8.989	
age 20 - 49	Information	0,9% 3 of 325	
age 50 - 59	Information	0,9% 14 of 1.622	
age 60 - 69	Information	1,4% 44 of 3.254	
age 70 - 79	Information	2,3% 68 of 2.895	
age > 79	Information	3,8% 34 of 893	
Coronary bypass surgery with other cardiac surgery, in-hospital mortality age > 19	Information	10,0% 469 of 4.667	
Isolated open aortic valve replacement, share of patients with carotid endarterectomy	Information	0,2% 7 of 2.822	

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Isolated coronary bypass surgery without myocardial infarction, share of patients with carotid endarterectomy age > 19	Information	0,8% 69 of 8.989	

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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	32,9 (7) 9.906	
Brain surgery for malignant neoplasm, in-hospital mortality	Information	2,7% 103 of 3.811	

Stroke, all types by age groups

Stroke (PDX), all types, in-hospital mortality observed age > 19	Information	10,1% 11.719 of 115.946	
age 20 - 44	Information	4,7% 182 of 3.833	
age 45 - 64	Information	5,2% 1.325 of 25.252	
age 65 - 84	Information	9,5% 6.069 of 63.754	
age > 84	Information	17,9% 4.143 of 23.107	

Stroke, by type of stroke

Cerebral infarction (ICD I63), in-hospital mortality, observed age > 19	Information	7,3% 7.150 of 98.495	
Share of cerebral infarction with systemic thrombolysis	Information	15,8% 15.553 of 98.495	
Cerebral infarction with systemic thrombolysis, in-hospital mortality	Information	7,5% 1.161 of 15.553	
Share of cerebral infarction with thrombectomy	Information	9,6% 9.464 of 98.495	
Cerebral infarction with thrombectomy, in-hospital mortality	Information	19,2% 1.814 of 9.464	
Cerebral infarction (ICD I63), percentage with pneumonia age > 19	Information	9,9% 9.800 of 98.495	

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Cerebral infarction (ICD I63) with pneumonia, in-hospital mortality age > 19	Information	28,8% 2.819 of 9.800	
Cerebral infarction without transfer from other hospital age > 19	Information	6,9% 6.283 of 91.159	
Cerebral infarction, transfer from other hospital age > 19	Information	11,8% 867 of 7.336	
Haemorrhage			
Intracerebral haemorrhage (ICD I61), in-hospital mortality age > 19	Information	28,8% 3.737 of 12.986	
Subarachnoid haemorrhage (ICD I60), in-hospital mortality age > 19	Information	19,5% 793 of 4.068	
Share of unspecified stroke (ICD I64) age > 19	Information	0,34 % 397 of 115.946	
Unspecified stroke (ICD I64), in-hospital mortality age > 19	Information	9,8% 39 of 397	
Transient cerebral ischaemic attacks			
Transient cerebral ischaemic attack, in-hospital mortality	Information	0,3% 131 of 37.890	
Transient cerebral ischaemic attack, share of patients with specialized stroke unit therapy	Information	67,7% 25.668 of 37.890	
Epilepsy			
Inpatient treatment for epilepsy (PDX) age > 19	Quantity Information	104,4 (23) 42.265	
Inpatient treatment for epilepsy (PDX) age < 20	Quantity Information	50,0 (18) 10.852	
Multiple sclerosis			
Inpatient treatment for multiple sclerosis (PDX)	Quantity Information	38,6 (14) 11.075	

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Geriatric medicine

Early geriatric rehabilitation

Patients with early geriatric rehabilitation	Quantity Information	385,3 (309) 102.489	
Early geriatric rehabilitation with coded Barthel-Index	Information	97,5% 99.886 of 102.489	

Malnutrition of elderly patients

Malnourished patients, age > 65, without tumor diseases	Information	1,0% 24.076 of 2.456.345	
Patients fed by tube/infusion	Information	1,7% 402 of 24.076	

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Diseases of the Lung

Pneumonia

Pneumonia (PDX), in-hospital mortality, observed All age groups	Information	17,6% 30.468 of 172.690	
thereof pneumonia, age < 20, in-hospital mortality	Information	0,3% 30 of 10.537	
thereof pneumonia, age 20 - 44, in-hospital mortality	Information	2,2% 292 of 13.091	
thereof pneumonia, age 45 - 64, in-hospital mortality	Information	8,0% 3.237 of 40.508	
thereof pneumonia, age 65 - 84, in-hospital mortality	Information	22,0% 17.022 of 77.304	
thereof pneumonia, age > 84, in-hospital mortality	Information	31,6% 9.887 of 31.250	
Pneumonia excluding admission transfers, neoplasms, cystic fibrosis, (CAP), in-hospital mortality, observed age > 19	Information	15,9% 18.450 of 116.369	
age 20 - 44	Information	1,2% 140 of 11.204	
age 45 - 64	Information	5,0% 1.578 of 31.536	
age 65 - 84	Information	19,2% 9.980 of 51.936	
age > 84	Information	31,1% 6.752 of 21.693	
Pneumonia excluding admission transfers, neoplasms, cystic fibrosis, COVID-19, in-hospital mortality age > 19	Information	11,7% 5.129 of 43.788	

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Pneumonia excluding admission transfers, neoplasms, CF, in-hospital mortality, age 1 - 19	Information	0,2% 19 of 7.759	
Pneumonia with inhalation of food or stomach contents, in-hospital mortality	Information	27,9% 3.573 of 12.784	
Bronchitis/bronchiolitis excluding admission transfers, tumor, cystic fibrosis, in-hospital mortality age > 19	Information	2,5% 175 of 6.993	
Chronic obstructive pulmonary disease (COPD)			
Chronic obstructive pulmonary disease (COPD without malignancy), in-hospital mortality age > 19	Information	5,0% 2.764 of 55.638	
thereof COPD without malignancy, FEV1 < 35%, in-hospital mortality	Information	5,8% 1.138 of 19.675	
thereof COPD without malignancy, FEV1 >= 35% and <50%, in-hospital mortality	Information	2,1% 211 of 10.015	
thereof COPD without malignancy, FEV1 >= 50% and <70%, in-hospital mortality	Information	1,1% 69 of 6.404	
thereof COPD without malignancy, FEV1 >= 70%, in-hospital mortality	Information	1,7% 42 of 2.457	
thereof COPD without malignancy, FEV1 unspecified, in-hospital mortality	Information	7,6% 1.304 of 17.087	
Share of COPD without malignancy coded with FEV1 unspecified (target: below 5%)	Information	30,7% 17.087 of 55.638	

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Malignant neoplasm of bronchus and lung			
Inpatient treatment for malignant neoplasm of bronchus and lung (PDX)	Quantity Information	175,5 (45) 73.876	
Major lung procedures			
Major resections of lung or bronchus for all diagnoses, in-hospital mortality	Information	3,1% 403 of 13.177	
Pneumonectomy for lung cancer, in-hospital mortality	Information	12,6% 36 of 285	
Partial pneumonectomy for lung cancer, in-hospital mortality	Information	2,5% 141 of 5.711	
Share of pneumonectomies for lung cancer	Information	4,8% 285 of 5.996	
Share of broncho-angioplastic procedures for lung cancer (partial pneumonectomies)	Information	8,1% 461 of 5.711	

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Diseases of the visceral organs

Cholecystectomy

Cholecystectomy for gallstones (without malignancies), share of laparoscopic removals	Information	94,9% 50.927 of 53.667	
Cholecystectomy for gallstones (without malignancies), rate of conversion to open surgery	Information	3,0% 1.606 of 53.667	
Cholecystectomy for gallstones (without malignancies), in-hospital mortality	Information	0,53 % 286 of 53.667	

Repair of femoral, inguinal and umbilical hernia

Hernia repair without bowel resection, in-hospital mortality	Information	0,12 % 74 of 63.631	
Hernia repair with bowel resection, in-hospital mortality	Information	2,2% 154 of 7.152	
Repair of inguinal hernia, share of operations with alloplastic material age < 20	Information	7,9% 254 of 3.200	
Repair of inguinal hernia, share of operations with alloplastic material age > 19	Information	97,9% 43.133 of 44.072	

Thyroidectomy

Thyroidectomies	Quantity Information	51,4 (19) 17.308	
thereof thyroidectomies for thyroid cancer	Quantity Information	10,5 (4) 2.435	
thereof thyroidectomies for benign diseases	Quantity Information	43,2 (17) 13.867	
Thyroidectomy, share of patients with mechanical ventilation >24 hours	Information	0,6% 94 of 16.302	
Radioactive iodine therapy	Quantity Information	222,2 (185) 9.779	

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Diseases of the large bowel and rectum			
Inpatient treatments for colorectal cancer (PDX)	Quantity Information	123,4 (76) 51.329	
Inpatient treatments for ulcerative colitis or Crohn's disease (PDX + SDX)	Quantity Information	90,1 (58) 41.166	
All colorectal resections, in-hospital mortality	Information	8,1% 3.241 40.146	
thereof colon resection for colorectal cancer without complicating diagnosis, in-hospital mortality	Information	3,9% 387 of 10.030	
thereof colon resection for colorectal cancer with complicating diagnosis, in-hospital mortality	Information	12,0% 362 of 3.012	
thereof rectal resection for colorectal cancer, in-hospital mortality	Information	3,1% 150 of 4.822	
thereof colon resection surgery for diverticulitis without diverticular perforation/abscess, in-hospital mortality	Information	0,93 % 19 of 2.034	
thereof colon resection surgery for diverticulitis with diverticular perforation/abscess, in-hospital mortality	Information	6,0% 324 of 5.386	
thereof colorectal resection for colonic ischemia, in-hospital mortality	Information	42,9% 1.017 of 2.369	
thereof colorectal resection for ulcerative colitis or Crohn's disease, in-hospital mortality	Information	4,1% 85 of 2.074	
thereof colorectal resection for other diagnoses, in-hospital mortality	Information	8,6% 897 of 10.419	

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Colorectal resections for colorectal cancer, share of cases with partial resection/destruction of the liver	Information	4,9% 883 of 17.864	
Diseases of the stomach			
Inpatient treatments for gastric cancer (PDX)	Quantity Information	42,4 (21) 16.902	
Gastric, duodenal, and jejunal ulcers (PDX, without malignancy), in-hospital mortality	Information	5,5% 1.150 of 21.048	
Gastric resections, all	Quantity Information	28,3 (10) 9.367	
Gastric resection without esophageal resection for gastric cancer, in-hospital mortality	Information	5,5% 117 of 2.124	
Gastric resection combined with esophageal resection, in-hospital mortality	Information	16,7% 51 of 306	
Partial and total gastric resection for other diagnoses, in-hospital mortality	Information	4,0% 279 of 6.937	
Bariatric interventions			
Bariatric interventions, in-hospital mortality	Information	0,0% 3 of 9.315	
Major esophageal surgery			
Major esophageal surgery, in-hospital mortality	Information	8,8% 156 of 1.770	
Major pancreatic surgery			
Pancreatic resections total (without transplantation), in-hospital mortality age > 19	Information	9,0% 464 of 5.129	
Pancreatic resections for malign neoplasms of the pancreas, in-hospital mortality age > 19	Information	7,2% 222 of 3.085	
Anatomical liver resection, in-hospital mortality age > 19	Information	6,0% 179 of 2.999	

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Vascular surgery

Surgery of the carotid and brain arteries

Extracranial artery surgery, in-hospital mortality	Information	1,26 % 117 of 9.301	
Percutaneous stenting of extracranial arteries, in-hospital mortality	Information	2,3% 56 of 2.477	
Extracranial artery surgery combined with cardiac or aortic surgery or neoplasm of the ENT area, in-hospital mortality	Information	14,9% 271 of 1.813	
Percutaneous intracranial interventions	Quantity Information	95,6 (46) 15.297	

Aortic surgery

Aortic surgery: all interventions	Quantity Information	48,6 (26) 10.101	
Abdominal aortic repair	Quantity Information	25,6 (20) 5.123	
Open abdominal aortic repair for aortic aneurysm, no rupture, in-hospital mortality	Information	8,1% 61 of 754	
Endovascular abdominal aortic repair for aortic aneurysm (EVAR), no rupture, in-hospital mortality	Information	1,6% 44 of 2.789	
Open abdominal aortic repair, no aneurysm, no rupture, in-hospital mortality	Information	13,3% 59 of 444	
Endovascular abdominal aortic repair, no aneurysm, no rupture, in-hospital mortality	Information	3,8% 19 of 501	
Thoracic aortic surgery, no aneurysm, no rupture, in-hospital mortality	Information	15,4% 80 of 518	
Aortic aneurysms with rupture or dissection, in-hospital mortality	Information	40,5% 882 of 2.180	

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thereof ruptured with surgical intervention, in-hospital mortality	Information	32,4% 357 of 1.102	
Lower extremity aterial surgery			
Lower extremity aterial surgery, all, in-hospital mortality	Information	6,5% 1.848 of 28.278	
thereof lower extremity bypass surgery for claudication (Fontaine I + II), in-hospital mortality	Information	0,47 % 24 of 5.069	
thereof lower extremity bypass surgery for rest pain (Fontaine III), in-hospital mortality	Information	1,9% 40 of 2.081	
thereof lower extremity bypass surgery for necrosis or gangrene (Fontaine IV), in-hospital mortality	Information	4,9% 170 of 3.493	
thereof lower extremity bypass surgery for arterial embolism or thrombosis, in-hospital mortality	Information	10,1% 694 of 6.849	
thereof lower extremity bypass surgery for complications caused by implants, in-hospital mortality	Information	4,6% 160 of 3.512	
thereof lower extremity bypass surgery for aneurysm / dissection, in-hospital mortality	Information	2,9% 50 of 1.700	
thereof lower extremity bypass surgery combined with aortic surgery (see aortic surgery)	Quantity Information	8,4 (6) 1.480	
thereof lower extremity bypass surgery for other diagnoses	Quantity Information	15,8 (13) 4.094	

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Percutaneous Transluminal Angioplasty (PTA, inpatient)			
Percutaneous transluminal angioplasty of abdominal and/or lower limb arteries (without aortic intervention), in-hospital mortality	Information	3,4% 2.009 of 59.131	
thereof PTA of lower extremity arteries with lower extremity bypass surgery during the same stay	Quantity Information	41,8 (34) 9.941	
Arteriovenous shunting			
Surgical creation of arteriovenous fistula	Quantity Information	33,5 (18) 7.195	

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Obstetrics and Gynecology

Deliveries

Deliveries with inpatient mortality	Information	0,0050% 15 of 298.466	
Vaginal delivery with third- or fourth-degree tears	Information	1,9% 3.776 of 203.521	
Vaginal delivery with episiotomy	Information	11,3% 23.055 of 203.521	
Cesarean section rate	Information	31,8% 94.945 of 298.466	
Cesarean section with Misgav-Ladach technique (% of all sections)	Information	76,1% 72.264 of 94.945	
Cesarean section with low risk delivery	Information	26,3% 68.563 of 260.569	
thereof Cesarean section with low risk delivery age < 35	Information	24,4% 47.178 of 193.461	
thereof Cesarean section with low risk delivery age > 34	Information	31,9% 21.385 of 67.108	

Newborns

Neonates below 1.250 g	Quantity Information	27,0 (24) 2.750	
thereof neonates below 1.250 g, transfer from other hospital	Quantity Information	4,8 (2) 220	
thereof neonates below 500 g	Quantity Information	3,9 (3) 285	
thereof neonates >=500 g and <750 g	Quantity Information	7,7 (5) 659	
thereof neonates >=750 g and <1.000 g	Quantity Information	10,3 (9) 909	
thereof neonates >=1.000 g and <1.250 g	Quantity Information	10,2 (9) 897	
Neonates >=1.250 g and <1.500 g	Quantity Information	12,5 (12) 1.350	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Neonates >=1.500 g and <2.500 g	Quantity Information	73,2 (26) 17.638	
Neonates > 2.500 g (or no mention of weight)	Quantity Information	1165,5 (896) 294.866	
Hysterectomy for benign diseases			
Hysterectomy for benign diseases, in-hospital mortality age > 14	Information	0,005% 1 of 20.991	
Share of vaginal/laparoscopic hysterectomy without plastic surgeries	Information	87,7% 18.279 of 20.844	
Share of vaginal hysterectomy without plastic surgeries	Information	30,3% 6.318 of 20.844	
thereof vaginal hysterectomy with morcellation of the uterus	Information	7,0% 445 of 6.318	
Share of laparoscopic hysterectomy without plastic surgeries	Information	57,4% 11.961 of 20.844	
thereof laparoscopic hysterectomy with morcellation of the uterus	Information	28,9% 3.454 of 11.961	
Share of hysterectomy for benign diseases combined with oophorectomy excl. endometriosis age < 50	Information	6,7% 480 of 7.203	
Share of hysterectomy for benign diseases combined with oophorectomy excl. endometriosis age > 49	Information	31,3% 2.397 of 7.667	
Breast cancer and female genital cancer			
Breast cancer and female genital cancer (PDX)	Quantity Information	194,6 (59) 80.746	
Inpatient cases for cancer of the ovaries (PDX)	Quantity Information	29,9 (11) 10.788	
Cancer of the ovaries with oophorectomy, in-hospital mortality	Information	2,1% 58 of 2.779	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Inpatient cases for cancer of the uterus (PDX)	Quantity Information	50,3 (26) 16.483	
Cancer of the uterus with hysterectomy, in-hospital mortality	Information	0,5% 34 of 6.200	
Inpatient cases for breast cancer (PDX)	Quantity Information	125,2 (32) 49.316	
Interventions on the breast			
Breast surgery, all (lumpectomy, partial mastectomy and breast augmentation)	Quantity Information	149,1 (94) 42.055	
Lumpectomy, partial mastectomy for cancer	Quantity Information	129,8 (108) 31.545	
Share of breast conserving surgery in breast cancer	Information	72,2% 22.783 of 31.545	
Interventions on female pelvic floor			
Pelvic surgeries with and without plastic surgeries, total	Quantity Information	52,6 (36) 15.795	
thereof for pelvic organ prolapse (POP)	Quantity Information	42,5 (31) 12.116	
thereof for incontinence (without pelvic organ prolapse)	Quantity Information	10,7 (6) 2.726	
thereof for other diagnosis	Quantity Information	5,9 (2) 953	

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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 skeletal system

Cancer of the skeletal system

Cancer of the skeletal system (PDX)	Quantity Information	42,3 (5) 15.564	
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Endoprosthesis

Hip replacement for coxarthrosis and chronic hip arthritis, in-hospital mortality	Information	0,11 % 58 of 52.123	
Hip replacement for hip fracture, in-hospital mortality	Information	5,7% 1.192 of 20.831	
Hip replacement for other diagnoses, in-hospital mortality	Information	5,5% 358 of 6.513	
Hip replacement for coxarthrosis and hip arthritis, share of cases with non-surgical complications	Information	2,7% 1.394 of 52.123	
Hip revision surgery without fracture or infection, in-hospital mortality	Information	1,46 % 72 of 4.918	
thereof hip revision surgery with special prosthesis, in-hospital mortality	Information	1,3% 14 of 1.084	
Hip revision surgery for fracture or infection, in-hospital mortality	Information	4,7% 178 of 3.818	
Knee replacement for gonarthrosis and chronic knee arthritis, in-hospital mortality	Information	0,04 % 19 of 46.508	
Knee replacement for other diagnoses, in-hospital mortality	Information	0,5% 15 of 3.329	
Knee replacement for gonarthrosis and knee arthritis, share of cases with non-surgical complications	Information	1,8% 816 of 46.508	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Revision of knee replacement without fracture or infection, in-hospital mortality	Information	0,30 % 14 of 4.635	
thereof knee revision surgery with special prosthesis, in-hospital mortality	Information	0,1% 2 of 1.565	
Revision of knee replacement for fracture or infection, in-hospital mortality	Information	2,3% 45 of 1.964	
Hip or knee replacement for cancer, in-hospital mortality	Information	7,2% 179 of 2.489	
Hip or knee replacement combined, in-hospital mortality	Information	5,8% 5 of 86	
Hip fracture			
Femoral neck fracture with surgical treatment, in-hospital mortality age > 19	Information	5,2% 1.197 of 23.234	
Femoral neck fracture with endoprosthesis treatment, in-hospital mortality age > 19	Information	5,7% 1.155 of 20.329	
Femoral neck fracture with osteosynthetic treatment, in-hospital mortality age > 19	Information	1,4% 42 of 2.905	
Petrochanteric fracture with surgical treatment, in-hospital mortality age > 19	Information	5,3% 1.051 of 19.745	
Petrochanteric fracture with endoprosthesis treatment, in-hospital mortality age > 19	Information	7,6% 36 of 472	
Petrochanteric fracture with osteosynthetic treatment, in-hospital mortality age > 19	Information	5,3% 1.015 of 19.273	
Surgery of the spine and medulla			
Surgery of the spine and medulla except local interventions for pain management	Quantity Information	283,2 (169) 110.167	
Share of surgeries of the spine, surgeries of the medulla/spinal canal	Quantity Information	75,8 (34) 23.341	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Spinal fusion or vertebral body replacement for cancer, in-hospital mortality	Information	7,8% 291 of 3.745	
Spinal fusion or vertebral body replacement for trauma, in-hospital mortality	Information	3,8% 565 of 14.765	
Surgery of the spine in case of discitis or osteomyelitis, in-hospital mortality	Information	8,1% 191 of 2.369	
Complex reconstructions of the spine (without cancer or trauma), in-hospital mortality	Information	0,3% 2 of 744	
Spinal fusion or vertebral body replacement, 1 level (without cancer, trauma, complex reconstr.), in-hospital mortality	Information	0,1% 15 of 12.769	
Spinal fusion or vertebral body replacement, 2 levels (without cancer, trauma, complex reconstr.), in-hospital mortality	Information	0,3% 20 of 6.440	
Spinal fusion or vertebral body replacement, 3 or more levels (without cancer, trauma, complex reconstr.), in-hospital mortality	Information	0,8% 36 of 4.616	
Decompression of the spinal column, in-hospital mortality	Information	0,1% 15 of 19.838	
Spinal discectomy (without cancer, Trauma, Decompression, complex reconstr.), in-hospital mortality	Information	0,04 % 7 of 17.147	
Vertebroplasty or kyphoplasty (without cancer, complex reconstr., discectomy, vertebral body replacement), in-hospital mortality	Information	0,60 % 43 of 7.205	
Other surgeries of the spine or medulla, in-hospital mortality	Information	1,8% 371 of 20.529	
Spinal discectomy (without cancer, trauma, complex reconstr.), share of cases with non-surgical complications	Information	0,4% 68 of 17.147	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Local spinal interventions for pain management (without other spinal surgery)	Quantity Information	80,7 (35) 29.958	
Treatment of spinal diseases (PDX) without spinal surgery	Quantity Information	122,0 (102) 54.407	
Surgery on the musculoskeletal system including endoprosthetics			
Endoprosthesis of the shoulder/elbow joint	Quantity Information	28,8 (20) 11.188	
Polytrauma			
Polytrauma (according to DRG-definition)	Quantity Information	19,6 (6) 7.083	

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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	Information	1,7% 64 of 3.798	
Radical nephrectomy, share of laparoscopic procedures	Information	41,2% 1.564 of 3.798	
Partial nephrectomy, in-hospital mortality	Information	0,47 % 16 of 3.386	
Partial nephrectomy, share of laparoscopic procedures	Information	50,7% 1.717 of 3.386	
Share of partial nephrectomies in cancer procedures	Information	47,1% 3.386 of 7.184	
Radical nephrectomy for other diagnosis, in-hospital mortality	Information	4,2% 90 of 2.161	
Partial nephrectomy for other diagnosis, in-hospital mortality	Information	0,3% 3 of 1.173	

Bladder surgery

Inpatient cases for bladder cancer (PDX)	Quantity Information	130,3 (31) 46.245	
Transurethral resections (TUR) at the bladder (all)	Quantity Information	202,4 (192) 47.151	
thereof transurethral resections for bladder cancer	Quantity Information	163,1 (154) 33.268	
Share of cancer TUR with intravesical instillation chemotherapy	Information	19,3% 6.406 of 33.268	
Cystectomy, in-hospital mortality	Information	4,4% 145 of 3.271	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Pelvic evisceration (men or women), in-hospital mortality	Information	3,5% 21 of 601	
Transurethral resection of the prostate (TURP)			
Transurethral resection of the prostate (TURP), in-hospital mortality	Information	0,18 % 39 of 21.775	
Transurethral resection of the prostate (TURP) for malignant diseases, in-hospital mortality	Information	0,7% 48 of 7.178	
Transurethral resection of the prostate (TURP), share of cases with non-surgical complications	Information	4,3% 1.238 of 28.953	
Inpatient cases for prostate cancer (PDX)	Quantity Information	87,4 (19) 34.517	
Prostatectomy, in-hospital mortality	Information	0,19 % 23 of 11.843	
Kidney stones			
Inpatient cases for kidney stones (PDX)	Quantity Information	189,8 (39) 75.360	
Share of cases with interventions for stone removal	Information	53,8% 40.575 of 75.360	

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Diseases of the skin

Diseases of the skin

Inpatient treatment for melanoma (PDX)	Quantity Information	40,3 (3) 12.102	
Inpatient treatment for dermatitis and eczema (PDX)	Quantity Information	26,8 (5) 10.644	
Inpatient treatment for psoriasis (PDX)	Quantity Information	22,3 (2) 4.157	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Intensive care			
Intensive care			
Mechanical ventilation for > 24 hours (without neonates), in-hospital mortality	Information	37,7% 41.671 of 110.533	
ECLS/ECMO - Heart / Cardiopulmonary support	Quantity Information	33,5 (12) 3.017	
ECMO - Lung support	Quantity Information	29,7 (10) 3.826	
Mechanical ventilation for > 24 hours (without neonates and COVID-19), in-hospital mortality	Information	35,5% 30.984 of 87.239	
Sepsis (PDX), in-hospital mortality	Information	29,1% 8.527 of 29.351	
thereof Sepsis with organ dysfunction or shock (PDX), in-hospital mortality	Information	32,5% 8.122 of 25.001	
thereof Sepsis without organ dysfunction or shock (PDX), in-hospital mortality	Information	9,3% 405 of 4.350	
Sepsis (as secondary diagnosis), in-hospital mortality	Information	41,5% 30.014 of 72.282	
thereof Sepsis with organ dysfunction or shock (as secondary diagnosis), in-hospital mortality	Information	43,4% 29.395 of 67.701	
Generalized whole-body inflammatory response without organ dysfunction (SIRS), in-hospital mortality	Information	8,7% 3.387 of 39.074	
Congenital coagulation disorder			
Patients with congenital coagulation disorders	Quantity Information	30,2 (14) 13.344	
thereof surgical patients (with congenital coagulation disorders)	Quantity Information	20,6 (9) 8.491	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Autopsy rate	Information	0,9% 1.646 of 185.415	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Highly specialised medical care			
Transplantations			
thereof heart-lung transplantation	Quantity Information	1 (1) 2	
thereof heart transplantation	Quantity Information	25,4 (17) 229	
thereof lung transplantation	Quantity Information	38,8 (29) 233	
Liver transplantation, all	Quantity Information	48,3 (41) 435	
thereof liver transplantation, entire liver	Quantity Information	40,1 (39) 361	
thereof liver transplantation, partial / auxiliary / other	Quantity Information	9,2 (10) 74	
thereof with liver retransplantation during the same hospital stay	Quantity Information	2,5 (2) 15	
all types			
Pancreas and pancreatic cell transplantation, all	Quantity Information	4,6 (4) 41	
Kidney transplantation, all	Quantity Information	55,8 (46) 1.117	
thereof kidney transplantation, living donor (allogeneic or syngeneic)	Quantity Information	12,5 (9) 238	
thereof kidney transplantation, deceased donor	Quantity Information	45,8 (37) 870	
thereof kidney transplantation, autotransplantation and others	Quantity Information	1,3 (1) 9	
thereof combined kidney and pancreas transplantation	Quantity Information	3,1 (2) 25	
Transplantation or transfusion of hematopoietic stem cells, all	Quantity Information	81,7 (57) 3.838	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Transplantation of hematopoietic stem cells, all (bone marrow)	Quantity Information	6,8 (4) 191	
thereof transplantation of hematopoietic stem cells, autologous (bone marrow)	Quantity Information	2 (1) 12	
Transfusion of peripheral blood stem cells	Quantity Information	77,9 (57) 3.663	
thereof transfusion of peripheral blood stem cells, autologous	Quantity Information	46,3 (40) 2.132	
Autologous stem cell therapy	Quantity Information	23,5 (2) 258	
Allogeneic stem cell therapy	Quantity Information	4,2 (2) 68	
Hyperthermic chemotherapy			
Hyperthermic intraperitoneal chemotherapy	Quantity Information	6,6 (4) 407	
Hyperthermic intrathoracic chemotherapy	Quantity Information	2,3 (2) 35	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Palliative care Palliative care			
Palliative care complex treatment	Quantity Information	182,8 (127) 45.146	

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IQM Quality indicators

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

Robot assisted interventions

Robot assisted interventions

Urological interventions using robotic surgery	Quantity Information	126,5 (102) 9.864	
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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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Length of stay (LOS) for selected diseases / procedures

Length of stay (LOS) for selected diseases / procedures

Length of stay excluding psychiatry and early rehabilitation	Information	5,6 35.259.250 of 6.252.114	
Cholecystectomy for gallstones, LOS without malignancies	Information	4,7 252.328 of 53.667	
Hernia repair without bowel resection, LOS	Information	2,2 139.793 of 63.631	
Extracranial artery surgery, LOS excluding early rehabilitation	Information	8,1 74.378 of 9.235	
Hysterectomy for benign diseases, LOS	Information	4,1 85.018 of 20.991	
Hip replacement for coxarthrosis and chronic hip arthritis, LOS excluding early rehabilitation	Information	7,7 396.937 of 51.343	
Knee replacement for gonarthrosis and chronic knee arthritis, LOS excluding early rehabilitation	Information	7,6 348.850 of 46.164	
Transurethral resection of the prostate (TURP), LOS	Information	5,0 145.560 of 28.919	
Tonsillectomy, LOS excluding cancer	Information	4,3 54.726 of 12.856	
Acute Myocardial Infarction, LOS excluding early rehabilitation, age > 19	Information	6,6 533.094 of 80.655	
Cerebral infarction (ICD I63), LOS excluding early rehabilitation, age > 19	Information	8,3 755.006 of 91.396	

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IQM Quality indicators

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COVID-19 key figures

COVID-19 key figures

Proportion of patients with testing for COVID-19	Information	88,1% 5.606.009 of 6.360.226	
Proportion of patients with virus detection based on all tested patients	Information	2,9% 163.471 of 5.606.010	
Proportion of patients with COVID-19 virus detection based on all patients	Information	2,6% 163.473 of 6.360.279	
COVID-19 - Proportion of patients without virus detection	Information	0,8% 53.932 of 6.360.279	
COVID-19 - Patients with virus detection and severe respiratory disease	Information	67,5% 110.342 of 163.473	
COVID-19 - Patients with virus detection and selected previous illnesses	Information	73,1% 119.512 of 163.473	
COVID-19 - mortality with Virus detection	Information	16,9% 27.590 of 163.473	

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Supplementary Information

Supplementary Information

Share of inpatient cases displayed in all G-IQI/CH-IQI indicators except psychiatry	Information	58,5% 3.717.625 of 6.360.070	
Share of deaths displayed in G-IQI/CH-IQI mortality indicators except psychiatry	Information	66,3% 122.867 of 185.415	
Share of deaths contained in all G-IQI/CH-IQI groups except psychiatry	Information	81,1% 150.312 of 185.415	

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Diseases of the Heart

Acute Myocardial Infarction (AMI)

Acute Myocardial Infarction, in-hospital mortality, observed age > 19	Information	8,1% 6.660 of 81.913	
age 20 - 44	Information	3,0% 77 of 2.535	
age 45 - 64	Information	4,5% 1.210 of 26.966	
age 65 - 84	Information	8,7% 3.685 of 42.482	
age > 84	Information	17,0% 1.688 of 9.930	
Share of AMI with left heart catheter	Information	82,5% 67.565 of 81.913	
Principle diagnosis AMI, direct admissions without transfers, in-hospital mortality age > 19	Information	8,1% 5.918 of 73.174	
Principle diagnosis AMI, transfers from other hospitals, in-hospital mortality age > 19	Information	8,5% 742 of 8.739	
Share of AMI coded as unspecified (I21.9)	Information	1,0% 796 of 81.807	
Share of AMI, transmural (STEMI)	Information	34,0% 27.775 of 81.807	
AMI, transmural, in-hospital mortality	Information	11,9% 3.304 of 27.775	
AMI nontransmural / NSTEMI, in-hospital mortality	Information	5,6% 2.981 of 53.236	
Secondary diagnosis AMI, in-hospital mortality age > 19	Information	19,8% 4.889 of 24.654	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Heart Failure			
Principle diagnosis heart failure, in-hospital mortality, observed	Information	7,9%	
age > 19		13.386 of 170.136	
age 20 - 44	Information	2,6%	
		45 of 1.706	
age 45 - 64	Information	3,2%	
		566 of 17.531	
age 65 - 84	Information	6,7%	
		6.587 of 97.616	
age > 84	Information	11,6%	
		6.188 of 53.283	
Left-sided heart failure, share coded as NYHA IV	Information	48,5%	
		54.517 of 112.495	
Cases with left heart catheterization			
Cases with coronary catheterization	Quantity Information	801,6 (641)	
age > 19		296.585	
Coronary catheterization for infarction, without open heart procedure, in-hospital mortality observed (referred to patients with AMI and left heart catheterization)	Information	6,2%	
age > 19		4.125 of 66.149	
Diagnostic coronary catheterization without PDX of AMI, without open heart procedure, in-hospital mortality	Information	1,5%	
age > 19		2.108 of 138.496	
thereof diagnostic coronary catheterization without PDX of AMI, without open heart procedure, without procedure OPS 5-***, in-hospital mortality	Information	1,2%	
age > 19		1.572 of 126.424	
Therapeutic coronary catheterization without PDX of AMI, without open heart procedure, in-hospital mortality	Information	1,8%	
age > 19		1.414 of 77.777	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
thereof therapeutic coronary catheterization without PDX of AMI, without open heart procedure, without procedure OPS 5-***, in-hospital mortality age > 19	Information	1,4% 998 of 73.197	
Share of therapeutic coronary catheterization without PDX of AMI, without open heart procedure age > 19	Information	36,0% 77.777 of 216.273	
Left heart catheterization in children and adolescents age < 20	Quantity Information	25,4 (2) 2.925	
Cardiac arrhythmia			
Patients with cardiac arrhythmia as principal diagnosis	Quantity Information	400,7 (254) 173.890	
Implantation of pacemaker/defibrillator			
Implantation of pacemaker/defibrillator	Quantity Information	146,2 (100) 52.614	
thereof implantation or exchange of defibrillator	Quantity Information	54,7 (37) 15.044	
Ablation therapy			
Cases with ablation therapy using catheterization	Quantity Information	227,4 (163) 41.839	
thereof atrial ablation for atrial fibrillation/flutter, in-hospital mortality	Information	0 27 of 23.554	
Cases with ablation therapy using open heart surgery	Quantity Information	49,1 (20) 1.669	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Heart surgery			
Patients with heart surgery	Quantity Information	248,5 (9) 50.946	
thereof patients with valvular surgery	Quantity Information	317,4 (36) 33.011	
thereof patients with coronary bypass surgery	Quantity Information	453,9 (434) 18.610	
thereof patients with other cardiac surgery	Quantity Information	53,1 (3) 10.257	
among these: patients with combined surgery	Quantity Information	238,9 (177) 9.793	
among these: heart surgery in children and adolescents age < 20	Quantity Information	38,3 (2) 1.800	
Open aortic valve replacement	Quantity Information	213,7 (184) 7.906	
Isolated open aortic valve replacement, in-hospital mortality	Information	2,3% 69 of 3.064	
thereof isolated aortic valve replacement with PDX of endocarditis, in-hospital mortality	Information	8,0% 20 of 251	
thereof isolated aortic valve replacement without PDX of endocarditis, in-hospital mortality	Information	1,7% 49 of 2.813	
thereof isolated aortic valve replacement without heart support systems, in-hospital mortality	Information	1,6% 48 of 3.020	
Open aortic valve replacement with replacement of mitral valve, in-hospital mortality age > 19	Information	13,1% 37 of 282	
Open aortic valve replacement with other cardiac surgery age > 19	Information	6,9% 309 of 4.505	

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Transcatheter aortic valve replacement (TAVR/TAVI), in-hospital mortality	Information	2,4% 298 of 12.340	
thereof transcatheter aortic valve replacement, peripheral approach, in-hospital mortality	Information	2,1% 241 of 11.720	
thereof transcatheter aortic valve replacement, transapical approach, in-hospital mortality	Information	9,2% 57 of 620	
Transcatheter/transapical mitral valve interventions, in-hospital mortality	Information	2,2% 90 of 4.060	
Coronary bypass surgery for myocardial infarction, in-hospital mortality, expected value referred to patients with coronary bypass surgery and myocardial infarction	Information	5,7% 232 of 4.076	
Coronary bypass surgery for myocardial infarction without heart support systems, in-hospital mortality age > 19	Information	4,0% 156 of 3.926	
Isolated coronary bypass surgery without myocardial infarction, in-hospital mortality age > 19	Information	2,0% 189 of 9.646	
age 20 - 49	Information	1,6% 5 of 311	
age 50 - 59	Information	0,9% 16 of 1.739	
age 60 - 69	Information	1,7% 57 of 3.399	
age 70 - 79	Information	2,5% 81 of 3.280	
age > 79	Information	3,3% 30 of 917	
Coronary bypass surgery with other cardiac surgery, in-hospital mortality age > 19	Information	9,8% 474 of 4.844	

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Isolated open aortic valve replacement, share of patients with carotid endarterectomy	Information	0,2% 7 of 3.064	
Isolated coronary bypass surgery without myocardial infarction, share of patients with carotid endarterectomy age > 19	Information	0,7% 72 of 9.646	

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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	32,2 (6) 10.122	
Brain surgery for malignant neoplasm, in-hospital mortality	Information	2,6% 97 of 3.680	

Stroke, all types by age groups

Stroke (PDX), all types, in-hospital mortality observed age > 19	Information	9,9% 11.451 of 116.253	
age 20 - 44	Information	3,4% 125 of 3.664	
age 45 - 64	Information	4,9% 1.233 of 25.125	
age 65 - 84	Information	9,4% 6.087 of 64.895	
age > 84	Information	17,8% 4.006 of 22.569	

Stroke, by type of stroke

Cerebral infarction (ICD I63), in-hospital mortality, observed age > 19	Information	7,1% 7.017 of 98.696	
Share of cerebral infarction with systemic thrombolysis	Information	15,8% 15.618 of 98.696	
Cerebral infarction with systemic thrombolysis, in-hospital mortality	Information	7,4% 1.158 of 15.618	
Share of cerebral infarction with thrombectomy	Information	9,2% 9.051 of 98.696	
Cerebral infarction with thrombectomy, in-hospital mortality	Information	19,2% 1.740 of 9.051	
Cerebral infarction (ICD I63), percentage with pneumonia age > 19	Information	10,0% 9.853 of 98.696	

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Cerebral infarction (ICD I63) with pneumonia, in-hospital mortality age > 19	Information	28,3% 2.786 of 9.853	
Cerebral infarction without transfer from other hospital age > 19	Information	6,7% 6.153 of 91.296	
Cerebral infarction, transfer from other hospital age > 19	Information	11,7% 864 of 7.400	
Haemorrhage			
Intracerebral haemorrhage (ICD I61), in-hospital mortality age > 19	Information	28,1% 3.680 of 13.097	
Subarachnoid haemorrhage (ICD I60), in-hospital mortality age > 19	Information	17,3% 713 of 4.128	
Share of unspecified stroke (ICD I64) age > 19	Information	0,29 % 332 of 116.253	
Unspecified stroke (ICD I64), in-hospital mortality age > 19	Information	12,3% 41 of 332	
Transient cerebral ischaemic attacks			
Transient cerebral ischaemic attack, in-hospital mortality	Information	0,4% 136 of 37.904	
Transient cerebral ischaemic attack, share of patients with specialized stroke unit therapy	Information	67,9% 25.753 of 37.904	
Epilepsy			
Inpatient treatment for epilepsy (PDX) age > 19	Quantity Information	106,3 (26) 44.012	
Inpatient treatment for epilepsy (PDX) age < 20	Quantity Information	45,4 (14) 10.536	
Multiple sclerosis			
Inpatient treatment for multiple sclerosis (PDX)	Quantity Information	40,8 (16) 11.088	

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Geriatric medicine

Early geriatric rehabilitation

Patients with early geriatric rehabilitation	Quantity Information	411,9 (331) 108.331	
Early geriatric rehabilitation with coded Barthel-Index	Information	97,1% 105.192 of 108.331	

Malnutrition of elderly patients

Malnourished patients, age > 65, without tumor diseases	Information	1,0% 24.984 of 2.498.793	
Patients fed by tube/infusion	Information	2,0% 508 of 24.984	

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Diseases of the Lung			
Pneumonia			
Pneumonia (PDX), in-hospital mortality, observed All age groups	Information	15,3% 22.665 of 148.378	
thereof pneumonia, age < 20, in-hospital mortality	Information	0,4% 39 of 10.412	
thereof pneumonia, age 20 - 44, in-hospital mortality	Information	1,7% 151 of 8.690	
thereof pneumonia, age 45 - 64, in-hospital mortality	Information	6,1% 1.710 of 27.870	
thereof pneumonia, age 65 - 84, in-hospital mortality	Information	17,4% 12.193 of 70.090	
thereof pneumonia, age > 84, in-hospital mortality	Information	27,4% 8.572 of 31.316	
Pneumonia excluding admission transfers, neoplasms, cystic fibrosis, (CAP), in-hospital mortality, observed age > 19	Information	13,9% 13.272 of 95.437	
age 20 - 44	Information	0,9% 68 of 7.242	
age 45 - 64	Information	3,9% 799 of 20.676	
age 65 - 84	Information	14,7% 6.775 of 46.005	
age > 84	Information	26,2% 5.630 of 21.514	
Pneumonia excluding admission transfers, neoplasms, cystic fibrosis, COVID-19, in-hospital mortality age > 19	Information	10,4% 6.447 of 62.102	

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Pneumonia excluding admission transfers, neoplasms, CF, in-hospital mortality, age 1 - 19	Information	0,4% 30 of 7.847	
Pneumonia with inhalation of food or stomach contents, in-hospital mortality	Information	27,7% 3.343 of 12.056	
Bronchitis/bronchiolitis excluding admission transfers, tumor, cystic fibrosis, in-hospital mortality age > 19	Information	2,1% 259 of 12.387	
Chronic obstructive pulmonary disease (COPD)			
Chronic obstructive pulmonary disease (COPD without malignancy), in-hospital mortality age > 19	Information	4,6% 2.829 of 61.565	
thereof COPD without malignancy, FEV1 < 35%, in-hospital mortality	Information	5,4% 1.155 of 21.340	
thereof COPD without malignancy, FEV1 >= 35% and <50%, in-hospital mortality	Information	2,2% 249 of 11.554	
thereof COPD without malignancy, FEV1 >= 50% and <70%, in-hospital mortality	Information	1,0% 75 of 7.433	
thereof COPD without malignancy, FEV1 >= 70%, in-hospital mortality	Information	1,9% 50 of 2.696	
thereof COPD without malignancy, FEV1 unspecified, in-hospital mortality	Information	7,0% 1.300 of 18.542	
Share of COPD without malignancy coded with FEV1 unspecified (target: below 5%)	Information	30,1% 18.542 of 61.565	

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Malignant neoplasm of bronchus and lung			
Inpatient treatment for malignant neoplasm of bronchus and lung (PDX)	Quantity Information	178,6 (44) 74.657	
Major lung procedures			
Major resections of lung or bronchus for all diagnoses, in-hospital mortality	Information	2,9% 397 of 13.517	
Pneumonectomy for lung cancer, in-hospital mortality	Information	10,1% 33 of 327	
Partial pneumonectomy for lung cancer, in-hospital mortality	Information	2,4% 136 of 5.786	
Share of pneumonectomies for lung cancer	Information	5,3% 327 of 6.113	
Share of broncho-angioplastic procedures for lung cancer (partial pneumonectomies)	Information	8,5% 490 of 5.786	

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Diseases of the visceral organs

Cholecystectomy

Cholecystectomy for gallstones (without malignancies), share of laparoscopic removals	Information	94,5% 50.793 of 53.748	
Cholecystectomy for gallstones (without malignancies), rate of conversion to open surgery	Information	3,2% 1.715 of 53.748	
Cholecystectomy for gallstones (without malignancies), in-hospital mortality	Information	0,54 % 292 of 53.748	

Repair of femoral, inguinal and umbilical hernia

Hernia repair without bowel resection, in-hospital mortality	Information	0,13 % 86 of 64.305	
Hernia repair with bowel resection, in-hospital mortality	Information	2,3% 172 of 7.533	
Repair of inguinal hernia, share of operations with alloplastic material age < 20	Information	9,9% 316 of 3.196	
Repair of inguinal hernia, share of operations with alloplastic material age > 19	Information	97,7% 43.804 of 44.853	

Throidectomy

Thyroidectomies	Quantity Information	50,2 (19) 17.365	
thereof thyroidectomies for thyroid cancer	Quantity Information	10,4 (5) 2.398	
thereof thyroidectomies for benign diseases	Quantity Information	42,6 (17) 13.944	
Thyroidectomy, share of patients with mechanical ventilation >24 hours	Information	0,7% 116 of 16.342	
Radioactive iodine therapy	Quantity Information	215 (185) 10.535	

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Diseases of the large bowel and rectum			
Inpatient treatments for colorectal cancer (PDX)	Quantity Information	125,8 (75) 52.711	
Inpatient treatments for ulcerative colitis or Crohn's disease (PDX + SDX)	Quantity Information	90,5 (58) 41.263	
All colorectal resections, in-hospital mortality	Information	8,1% 3.298 of 40.717	
thereof colon resection for colorectal cancer without complicating diagnosis, in-hospital mortality	Information	3,7% 375 of 10.159	
thereof colon resection for colorectal cancer with complicating diagnosis, in-hospital mortality	Information	12,7% 394 of 3.101	
thereof rectal resection for colorectal cancer, in-hospital mortality	Information	2,7% 133 of 4.956	
thereof colon resection surgery for diverticulitis without diverticular perforation/abscess, in-hospital mortality	Information	1,03 % 22 of 2.137	
thereof colon resection surgery for diverticulitis with diverticular perforation/abscess, in-hospital mortality	Information	5,7% 304 of 5.346	
thereof colorectal resection for colonic ischemia, in-hospital mortality	Information	44,7% 1.072 of 2.398	
thereof colorectal resection for ulcerative colitis or Crohn's disease, in-hospital mortality	Information	3,3% 67 of 2.049	
thereof colorectal resection for other diagnoses, in-hospital mortality	Information	8,8% 931 of 10.571	

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Colorectal resections for colorectal cancer, share of cases with partial resection/destruction of the liver	Information	5,3% 958 of 18.216	
Diseases of the stomach			
Inpatient treatments for gastric cancer (PDX)	Quantity Information	43,9 (22) 17.413	
Gastric, duodenal, and jejunal ulcers (PDX, without malignancy), in-hospital mortality	Information	5,1% 1.092 of 21.299	
Gastric resections, all	Quantity Information	24,8 (10) 8.292	
Gastric resection without esophageal resection for gastric cancer, in-hospital mortality	Information	5,3% 119 of 2.259	
Gastric resection combined with esophageal resection, in-hospital mortality	Information	14,2% 45 of 316	
Partial and total gastric resection for other diagnoses, in-hospital mortality	Information	5,0% 285 of 5.717	
Bariatric interventions			
Bariatric interventions, in-hospital mortality	Information	0,1% 7 of 7.400	
Major esophageal surgery			
Major esophageal surgery, in-hospital mortality	Information	8,9% 161 of 1.799	
Major pancreatic surgery			
Pancreatic resections total (without transplantation), in-hospital mortality age > 19	Information	8,9% 464 of 5.220	
Pancreatic resections for malign neoplasms of the pancreas, in-hospital mortality age > 19	Information	6,9% 218 of 3.151	
Anatomical liver resection, in-hospital mortality age > 19	Information	6,7% 214 of 3.207	

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Vascular surgery

Surgery of the carotid and brain arteries

Extracranial artery surgery, in-hospital mortality	Information	0,97 % 89 of 9.198	
Percutaneous stenting of extracranial arteries, in-hospital mortality	Information	2,2% 52 of 2.313	
Extracranial artery surgery combined with cardiac or aortic surgery or neoplasm of the ENT area, in-hospital mortality	Information	14,9% 257 of 1.729	
Percutaneous intracranial interventions	Quantity Information	92,2 (46) 14.570	

Aortic surgery

Aortic surgery: all interventions	Quantity Information	48,2 (25) 10.078	
Abdominal aortic repair	Quantity Information	26,4 (20) 5.335	
Open abdominal aortic repair for aortic aneurysm, no rupture, in-hospital mortality	Information	7,6% 61 of 807	
Endovascular abdominal aortic repair for aortic aneurysm (EVAR), no rupture, in-hospital mortality	Information	1,1% 33 of 3.023	
Open abdominal aortic repair, no aneurysm, no rupture, in-hospital mortality	Information	11,1% 54 of 486	
Endovascular abdominal aortic repair, no aneurysm, no rupture, in-hospital mortality	Information	6,7% 24 of 357	
Thoracic aortic surgery, no aneurysm, no rupture, in-hospital mortality	Information	17,3% 68 of 394	
Aortic aneurysms with rupture or dissection, in-hospital mortality	Information	41,1% 889 of 2.162	

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thereof ruptured with surgical intervention, in-hospital mortality	Information	33,2% 365 of 1.099	
Lower extremity arterial surgery			
Lower extremity arterial surgery, all, in-hospital mortality	Information	6,2% 1.756 of 28.377	
thereof lower extremity bypass surgery for claudication (Fontaine I + II), in-hospital mortality	Information	0,48 % 26 of 5.387	
thereof lower extremity bypass surgery for rest pain (Fontaine III), in-hospital mortality	Information	1,7% 36 of 2.095	
thereof lower extremity bypass surgery for necrosis or gangrene (Fontaine IV), in-hospital mortality	Information	4,3% 149 of 3.498	
thereof lower extremity bypass surgery for arterial embolism or thrombosis, in-hospital mortality	Information	10,5% 695 of 6.607	
thereof lower extremity bypass surgery for complications caused by implants, in-hospital mortality	Information	4,6% 172 of 3.741	
thereof lower extremity bypass surgery for aneurysm / dissection, in-hospital mortality	Information	3,1% 49 of 1.579	
thereof lower extremity bypass surgery combined with aortic surgery (see aortic surgery)	Quantity Information	8,7 (5) 1.525	
thereof lower extremity bypass surgery for other diagnoses	Quantity Information	15,8 (13) 3.945	

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Percutaneous Transluminal Angioplasty (PTA, inpatient)			
Percutaneous transluminal angioplasty of abdominal and/or lower limb arteries (without aortic intervention), in-hospital mortality	Information	3,1% 1.813 of 59.207	
thereof PTA of lower extremity arteries with lower extremity bypass surgery during the same stay	Quantity Information	39,9 (30) 9.665	
Arteriovenous shunting			
Surgical creation of arteriovenous fistula	Quantity Information	34,9 (20) 7.619	

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Obstetrics and Gynecology			
Deliveries			
Deliveries with inpatient mortality	Information	0,0041% 12 of 289.462	
Vaginal delivery with third- or fourth-degree tears	Information	1,8% 3.644 of 198.726	
Vaginal delivery with episiotomy	Information	12,4% 24.552 of 198.726	
Cesarean section rate	Information	31,3% 90.736 of 289.462	
Cesarean section with Misgav-Ladach technique (% of all sections)	Information	74,9% 67.926 of 90.736	
Cesarean section with low risk delivery	Information	25,8% 65.212 of 252.486	
thereof Cesarean section with low risk delivery age < 35	Information	23,9% 45.205 of 189.257	
thereof Cesarean section with low risk delivery age > 34	Information	31,6% 20.007 of 63.229	
Newborns			
Neonates below 1.250 g	Quantity Information	24,8 (22) 2.753	
thereof neonates below 1.250 g, transfer from other hospital	Quantity Information	4,8 (2) 214	
thereof neonates below 500 g	Quantity Information	3,6 (2) 252	
thereof neonates >=500 g and <750 g	Quantity Information	7,9 (7) 682	
thereof neonates >=750 g and <1.000 g	Quantity Information	9,2 (8) 846	
thereof neonates >=1.000 g and <1.250 g	Quantity Information	10,1 (9) 973	
Neonates >=1.250 g and <1.500 g	Quantity Information	12,5 (12) 1.386	
Neonates >=1.500 g and <2.500 g	Quantity Information	71,9 (24) 17.622	

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Neonates > 2.500 g (or no mention of weight)	Quantity Information	1108,5 (837) 284.896	
Hysterectomy for benign diseases			
Hysterectomy for benign diseases, in-hospital mortality age > 14	Information	0,052% 11 of 21.098	
Share of vaginal/laparoscopic hysterectomy without plastic surgeries	Information	88,1% 18.451 of 20.936	
Share of vaginal hysterectomy without plastic surgeries	Information	33,7% 7.056 of 20.936	
thereof vaginal hysterectomy with morcellation of the uterus	Information	7,8% 551 of 7.056	
Share of laparoscopic hysterectomy without plastic surgeries	Information	54,4% 11.395 of 20.936	
thereof laparoscopic hysterectomy with morcellation of the uterus	Information	31,0% 3.538 of 11.395	
Share of hysterectomy for benign diseases combined with oophorectomy excl. endometriosis age < 50	Information	6,7% 485 of 7.207	
Share of hysterectomy for benign diseases combined with oophorectomy excl. endometriosis age > 49	Information	28,9% 2.265 of 7.842	
Breast cancer and female genital cancer			
Breast cancer and female genital cancer (PDX)	Quantity Information	190,5 (68) 79.451	
Inpatient cases for cancer of the ovaries (PDX)	Quantity Information	29,7 (14) 10.644	
Cancer of the ovaries with oophorectomy, in-hospital mortality	Information	2,1% 57 of 2.763	

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Inpatient cases for cancer of the uterus (PDX)	Quantity Information	47,2 (24) 16.427	
Cancer of the uterus with hysterectomy, in-hospital mortality	Information	0,7%	
		42 of 5.926	
Inpatient cases for breast cancer (PDX)	Quantity Information	118,6 (34) 47.785	
Interventions on the breast			
Breast surgery, all (lumpectomy, partial mastectomy and breast augmentation)	Quantity Information	136,9 (79) 40.119	
Lumpectomy, partial mastectomy for cancer	Quantity Information	120,3 (96) 30.074	
Share of breast conserving surgery in breast cancer	Information	71,9%	
		21.631 of 30.074	
Interventions on female pelvic floor			
Pelvic surgeries with and without plastic surgeries, total	Quantity Information	53,7 (42) 16.757	
thereof for pelvic organ prolapse (POP)	Quantity Information	42,7 (34) 12.631	
thereof for incontinence (without pelvic organ prolapse)	Quantity Information	11,8 (7) 3.114	
thereof for other diagnosis	Quantity Information	5,4 (2) 1.012	

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Diseases of the skeletal system

Cancer of the skeletal system

Cancer of the skeletal system (PDX)	Quantity Information	43,2 (6) 15.466	
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Endoprosthesis

Hip replacement for coxarthrosis and chronic hip arthritis, in-hospital mortality	Information	0,15 % 75 of 50.731	
Hip replacement for hip fracture, in-hospital mortality	Information	5,4% 1.075 of 20.053	
Hip replacement for other diagnoses, in-hospital mortality	Information	5,3% 341 of 6.418	
Hip replacement for coxarthrosis and hip arthritis, share of cases with non-surgical complications	Information	2,8% 1.409 of 50.731	
Hip revision surgery without fracture or infection, in-hospital mortality	Information	1,28 % 66 of 5.151	
thereof hip revision surgery with special prosthesis, in-hospital mortality	Information	1,7% 19 of 1.100	
Hip revision surgery for fracture or infection, in-hospital mortality	Information	4,3% 157 of 3.650	
Knee replacement for gonarthrosis and chronic knee arthritis, in-hospital mortality	Information	0,05 % 24 of 47.246	
Knee replacement for other diagnoses, in-hospital mortality	Information	0,3% 11 of 3.385	
Knee replacement for gonarthrosis and knee arthritis, share of cases with non-surgical complications	Information	1,9% 876 of 47.246	

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Revision of knee replacement without fracture or infection, in-hospital mortality	Information	0,27 % 13 of 4.735	
thereof knee revision surgery with special prosthesis, in-hospital mortality	Information	0,1% 2 of 1.626	
Revision of knee replacement for fracture or infection, in-hospital mortality	Information	2,1% 40 of 1.907	
Hip or knee replacement for cancer, in-hospital mortality	Information	7,2% 176 of 2.439	
Hip or knee replacement combined, in-hospital mortality	Information	4,3% 4 of 92	
Hip fracture			
Femoral neck fracture with surgical treatment, in-hospital mortality age > 19	Information	4,7% 1.073 of 22.612	
Femoral neck fracture with endoprosthesis treatment, in-hospital mortality age > 19	Information	5,3% 1.043 of 19.591	
Femoral neck fracture with osteosynthetic treatment, in-hospital mortality age > 19	Information	1,0% 30 of 3.021	
Petrochanteric fracture with surgical treatment, in-hospital mortality age > 19	Information	5,1% 978 of 19.130	
Petrochanteric fracture with endoprosthesis treatment, in-hospital mortality age > 19	Information	6,8% 29 of 424	
Petrochanteric fracture with osteosynthetic treatment, in-hospital mortality age > 19	Information	5,1% 949 of 18.706	
Surgery of the spine and medulla			
Surgery of the spine and medulla except local interventions for pain management	Quantity Information	275,1 (159) 109.772	
Share of surgeries of the spine, surgeries of the medulla/spinal canal	Quantity Information	78,3 (35) 24.440	

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Spinal fusion or vertebral body replacement for cancer, in-hospital mortality	Information	7,5% 273 of 3.638	
Spinal fusion or vertebral body replacement for trauma, in-hospital mortality	Information	3,4% 489 of 14.234	
Surgery of the spine in case of discitis or osteomyelitis, in-hospital mortality	Information	7,0% 177 of 2.545	
Complex reconstructions of the spine (without cancer or trauma), in-hospital mortality	Information	0,6% 11 of 1.718	
Spinal fusion or vertebral body replacement, 1 level (without cancer, trauma, complex reconstr.), in-hospital mortality	Information	0,1% 16 of 12.379	
Spinal fusion or vertebral body replacement, 2 levels (without cancer, trauma, complex reconstr.), in-hospital mortality	Information	0,2% 14 of 6.340	
Spinal fusion or vertebral body replacement, 3 or more levels (without cancer, trauma, complex reconstr.), in-hospital mortality	Information	0,8% 30 of 3.805	
Decompression of the spinal column, in-hospital mortality	Information	0,1% 11 of 19.347	
Spinal discectomy (without cancer, Trauma, Decompression, complex reconstr.), in-hospital mortality	Information	0,06 % 10 of 17.429	
Vertebroplasty or kyphoplasty (without cancer, complex reconstr., discectomy, vertebral body replacement), in-hospital mortality	Information	0,58 % 41 of 7.082	
Other surgeries of the spine or medulla, in-hospital mortality	Information	1,8% 383 of 21.255	

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Spinal discectomy (without cancer, trauma, complex reconstr.), share of cases with non-surgical complications	Information	0,5% 79 of 17.429	
Local spinal interventions for pain management (without other spinal surgery)	Quantity Information	83,6 (37) 31.262	
Treatment of spinal diseases (PDX) without spinal surgery	Quantity Information	131,8 (110) 58.781	
Surgery on the musculoskeletal system including endoprosthesis			
Endoprosthesis of the shoulder/elbow joint	Quantity Information	27,7 (20) 10.717	
Polytrauma			
Polytrauma (according to DRG-definition)	Quantity Information	21,2 (7) 7.559	

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Diseases of the urinary tract and the male reproductive system

Nephrectomy

Radical nephrectomy, in-hospital mortality	Information	1,3% 53 of 3.996	
Radical nephrectomy, share of laparoscopic procedures	Information	40,6% 1.623 of 3.996	
Partial nephrectomy, in-hospital mortality	Information	0,30 % 10 of 3.376	
Partial nephrectomy, share of laparoscopic procedures	Information	46,2% 1.560 of 3.376	
Share of partial nephrectomies in cancer procedures	Information	45,8% 3.376 of 7.372	
Radical nephrectomy for other diagnosis, in-hospital mortality	Information	4,5% 98 of 2.160	
Partial nephrectomy for other diagnosis, in-hospital mortality	Information	0,3% 4 of 1.157	

Bladder surgery

Inpatient cases for bladder cancer (PDX)	Quantity Information	130,3 (32) 45.746	
Transurethral resections (TUR) at the bladder (all)	Quantity Information	201,2 (199) 47.476	
thereof transurethral resections for bladder cancer	Quantity Information	161,2 (155) 32.875	
Share of cancer TUR with intravesical instillation chemotherapy	Information	18,4% 6.065 of 32.875	
Cystectomy, in-hospital mortality	Information	4,6% 148 of 3.244	
Pelvic evisceration (men or women), in-hospital mortality	Information	4,9% 32 of 647	

G-IQI / CH-IQI 5.3 As of: 15.04.2022

Year:

2020

Whenever you use these results, please be sure to follow the instructions in the [preamble](#)

IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Transurethral resection of the prostate (TURP)			
Transurethral resection of the prostate (TURP), in-hospital mortality	Information	0,25 % 52 of 20.883	
Transurethral resection of the prostate (TURP) for malignant diseases, in-hospital mortality	Information	0,7% 47 of 6.941	
Transurethral resection of the prostate (TURP), share of cases with non-surgical complications	Information	4,3% 1.189 of 27.824	
Inpatient cases for prostate cancer (PDX)	Quantity Information	88,4 (20) 34.141	
Prostatectomy, in-hospital mortality	Information	0,20 % 22 of 11.112	
Kidney stones			
Inpatient cases for kidney stones (PDX)	Quantity Information	195,4 (42) 78.159	
Share of cases with interventions for stone removal	Information	53,3% 41.662 of 78.159	

G-IQI / CH-IQI 5.3 As of: 15.04.2022

Year:

2020

Whenever you use these results, please be sure to follow the instructions in the [preamble](#)

IQM Quality indicators

IQM
Target value

[Source](#)

IQM
Average value

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Diseases of the skin

Diseases of the skin

Inpatient treatment for melanoma (PDX)	Quantity Information	41,6 (4) 11.783	
Inpatient treatment for dermatitis and eczema (PDX)	Quantity Information	30,9 (5) 12.409	
Inpatient treatment for psoriasis (PDX)	Quantity Information	25,7 (2) 4.679	

G-IQI / CH-IQI 5.3 As of: 15.04.2022

Year:

2020

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Intensive care			
Intensive care			
Mechanical ventilation for > 24 hours (without neonates), in-hospital mortality	Information	35,3% 36.590 of 103.512	
ECLS/ECMO - Heart / Cardiopulmonary support	Quantity Information	34,5 (12) 3.003	
ECMO - Lung support	Quantity Information	21,4 (6) 2.398	
Mechanical ventilation for > 24 hours (without neonates and COVID-19), in-hospital mortality	Information	34,3% 32.616 of 95.146	
Sepsis (PDX), in-hospital mortality	Information	26,4% 8.765 of 33.153	
thereof Sepsis with organ dysfunction or shock (PDX), in-hospital mortality	Information	31,1% 8.303 of 26.703	
thereof Sepsis without organ dysfunction or shock (PDX), in-hospital mortality	Information	7,2% 462 of 6.450	
Sepsis (as secondary diagnosis), in-hospital mortality	Information	38,6% 25.678 of 66.500	
thereof Sepsis with organ dysfunction or shock (as secondary diagnosis), in-hospital mortality	Information	41,3% 25.030 of 60.664	
Generalized whole-body inflammatory response without organ dysfunction (SIRS), in-hospital mortality	Information	7,8% 2.254 of 28.731	
Congenital coagulation disorder			
Patients with congenital coagulation disorders	Quantity Information	30,4 (15) 13.361	
thereof surgical patients (with congenital coagulation disorders)	Quantity Information	20,2 (9) 8.366	

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2020

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Autopsy rate	Information	1,1% 1.883 of 174.753	

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Year:

2020

Whenever you use these results, please be sure to follow the instructions in the [preamble](#)

IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Highly specialised medical care			
Transplantations			
thereof heart-lung transplantation	Quantity Information	1,5 (2) 3	
thereof heart transplantation	Quantity Information	24,1 (18) 241	
thereof lung transplantation	Quantity Information	49,3 (40) 296	
Liver transplantation, all	Quantity Information	51,2 (46) 461	
thereof liver transplantation, entire liver	Quantity Information	44,2 (44) 398	
thereof liver transplantation, partial / auxiliary / other	Quantity Information	7,9 (7) 63	
thereof with liver retransplantation during the same hospital stay all types	Quantity Information	2,5 (2) 15	
Pancreas and pancreatic cell transplantation, all	Quantity Information	4,6 (3) 51	
Kidney transplantation, all	Quantity Information	52,1 (45) 1.095	
thereof kidney transplantation, living donor (allogeneic or syngeneic)	Quantity Information	12,2 (9) 231	
thereof kidney transplantation, deceased donor	Quantity Information	42,4 (39) 847	
thereof kidney transplantation, autotransplantation and others	Quantity Information	1,9 (1) 17	
thereof combined kidney and pancreas transplantation	Quantity Information	4,3 (3) 43	
Transplantation or transfusion of hematopoietic stem cells, all	Quantity Information	78,9 (50) 3.789	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Transplantation of hematopoietic stem cells, all (bone marrow)	Quantity Information	7,4 (5) 193	
thereof transplantation of hematopoietic stem cells, autologous (bone marrow)	Quantity Information	1,3 (1) 12	
Transfusion of peripheral blood stem cells	Quantity Information	75,1 (50) 3.607	
thereof transfusion of peripheral blood stem cells, autologous	Quantity Information	46,0 (42) 2.114	
Autologous stem cell therapy	Quantity Information	16,9 (2) 237	
Allogeneic stem cell therapy	Quantity Information	4,6 (2) 74	
Hyperthermic chemotherapy			
Hyperthermic intraperitoneal chemotherapy	Quantity Information	7,3 (4) 416	
Hyperthermic intrathoracic chemotherapy	Quantity Information	2,8 (2) 39	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
Palliative care Palliative care			
Palliative care complex treatment	Quantity Information	177,4 (133) 44.538	

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Year:

2020

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IQM Quality indicators

IQM
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[Source](#)

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Robot assisted interventions

Robot assisted interventions

Urological interventions using robotic surgery

Quantity Information

123,3 (100)
 8.259

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Year:

2020

Whenever you use these results, please be sure to follow the instructions in the [preamble](#)

IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Expected value SMR
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Length of stay (LOS) for selected diseases / procedures

Length of stay (LOS) for selected diseases / procedures

Length of stay excluding psychiatry and early rehabilitation	Information	5,7 35.711.792 of 6.309.921	
Cholecystectomy for gallstones, LOS without malignancies	Information	4,9 262.733 of 53.748	
Hernia repair without bowel resection, LOS	Information	2,3 145.226 of 64.305	
Extracranial artery surgery, LOS excluding early rehabilitation	Information	8,2 74.625 of 9.145	
Hysterectomy for benign diseases, LOS	Information	4,3 90.648 of 21.098	
Hip replacement for coxarthrosis and chronic hip arthritis, LOS excluding early rehabilitation	Information	8,1 406.120 of 49.940	
Knee replacement for gonarthrosis and chronic knee arthritis, LOS excluding early rehabilitation	Information	8,0 372.624 of 46.833	
Transurethral resection of the prostate (TURP), LOS	Information	5,3 146.025 of 27.798	
Tonsillectomy, LOS excluding cancer	Information	4,1 68.619 of 16.642	
Acute Myocardial Infarction, LOS excluding early rehabilitation, age > 19	Information	6,7 538.007 of 80.857	
Cerebral infarction (ICD I63), LOS excluding early rehabilitation, age > 19	Information	8,2 746.908 of 91.187	

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IQM Quality indicators

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COVID-19 key figures

COVID-19 key figures

Proportion of patients with testing for COVID-19	Information	66,4% 2.540.178 of 3.827.338	
Proportion of patients with virus detection based on all tested patients	Information	2,3% 58.317 of 2.540.178	
Proportion of patients with COVID-19 virus detection based on all patients	Information	1,2% 74.272 of 6.424.743	
COVID-19 - Proportion of patients without virus detection	Information	1,5% 94.138 of 6.424.743	
COVID-19 - Patients with virus detection and severe respiratory disease	Information	68,3% 50.740 of 74.272	
COVID-19 - Patients with virus detection and selected previous illnesses	Information	73,2% 54.355 of 74.272	
COVID-19 - mortality with Virus detection	Information	18,4% 13.701 of 74.272	

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IQM Quality indicators

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Supplementary Information

Supplementary Information

Share of inpatient cases displayed in all G-IQI/CH-IQI indicators except psychiatry	Information	56,9% 3.655.531 of 6.424.588	
Share of deaths displayed in G-IQI/CH-IQI mortality indicators except psychiatry	Information	63,5% 110.992 of 174.756	
Share of deaths contained in all G-IQI/CH-IQI groups except psychiatry	Information	79,6% 139.025 of 174.756	



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 7,9 % (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 7,8% **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 12,8 % **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 8,4 % **2**.

G-IQI / CH-IQI 5.3 As of: 15.04.2022		Year:		2021	
Whenever you use these results, please be sure to follow the instructions in the preamble					
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)					
Acute Myocardial Infarction, in-hospital mortality, observed age > 19	1 Information	2 8,4% 6.868 von 81.591	3 12,8% 163 von 1.274	4	

Please also refer to the notes in the preamble:

Due to the COVID 19 pandemic, the presentation of results for 2021 and 2020 is without target values **1** or expected values **4**, as orientation to these values is suspended.

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, related to the analyzed indicator, 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 rare 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 target value - sources:

Reference values respectively target values are indicated by the number written below the IQM target value. Please note that, due to the COVID-19 pandemic, the results are shown without target or reference values. Further information on this can also be found in the preamble.

The reference values and target values derive from the following sources:

1. Research data center of the Federal and State Statistical Offices, DRG-Statistics 2019. Own calculations. These data also form the basis for calculating hospital-specific expected values standardized by age and gender (where indicated).

1 / 3. Target value taken from: Kaiser D (2007) Mindestmengen aus thoraxchirurgischer Sicht. Chirurg, 78 (11): 1012-1017

IQM Average value - number of cases:

Presentation of average results across all patients cared for in IQM member hospitals (D) during the observation period. 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. Again, please note what is stated in the preamble. Due to the COVID-19 pandemic, expected values are not provided in the publications of the results.

SMR:

The SMR (standardized mortality ratio) is the quotient of observed mortality (average value) and due to the COVID-19 pandemic, the expected value and is not also shown (see preamble for details).

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.