

G-IQI / CH-IQI 5.4 as of: 15.04.2024

Preamble

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Presentation of results and use of the indicator sets

We would like to provide you with information to help you orient and analyse the results presented below.

Impact of the COVID-19 pandemic

In 2022 further analyses were carried out with a focus on target value indicators. These showed that although the case populations in the indicators changed, the observed rate tended to remain mostly stable. Only in the indicators G-IQI 14.2 (pneumonia without additional treatment, tumour, cystic fibrosis, age>19, proportion of deaths) and G-IQI 56.1 (ventilation > 24 hours (excluding newborns), proportion of deaths) the "COVID effect" is clearly recognizable in the rate. Therefore, the IQM Executive Board decided to reinstate the presentation of target and expected values and to change the status of "target value" for the two indicators on mortality from pneumonia and mortality from ventilation > 24 hours to alternative indicators without COVID-19 cases. For all other target value indicators, the presentation of target and expected values has been reinstated since last year.

Reinstatement of target value for sepsis

The key figure G-IQI 57.1 "Deaths from sepsis as the main diagnosis" was not defined as a target value indicator in the past two years. The reason for this was the change in the definition of sepsis in 2020 and the resulting "inequality" of the coding in the reference values of the Federal Statistical Office (Destatis) compared to the evaluation data of the IQM member hospitals. Due to the federal reference values for 2022 already provided by the Federal Statistical Office in December 2023 and the new sepsis coding, the IQM Executive Board has decided that the aforementioned indicator will once again be a target value indicator with the target "< expected value" from the current publication of results.

Stroke mortality ratios

The key figures for mortality from stroke and cerebral infarction are no longer stored with target values. The reason for this is that, according to experts from neurological societies and the German Stroke Register Working Group (ADSR), the quality of treatment cannot be adequately reflected in the current indicators due to various influencing factors such as the time until admission, the severity of the cerebral infarction, concomitant diseases, the prospects of successful treatment or patient disposition, and many more. However, since there are no alternative publications of stroke mortality by other institutions, the presentation - without target values - should be retained and new suitable key figures on stroke treatment should be developed in parallel.

Key figure for mortality during surgical procedures/events

In the case of key figures with the designation "Deaths during [type of procedure]", this relates to the entire treatment case, not solely to an intraoperative event. They therefore do **not exclusively** represent intraoperative deaths. This applies to all indicators that describe a surgical procedure/event.

Quality results

Inselspital Universitätsspital Bern

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IQM Quality indicators

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IQM Quality indicators	IQM Target value	IQM Average value	Hospital Effective value	Hospital Expected value
	Source	Number of cases	Number of cases	SMR

Diseases of the Heart

Acute Myocardial Infarction (AMI)

Acute Myocardial Infarction, in-hospital mortality, observed age > 19	< Expected value 1	7,6% 5.744 of 75.253	4,9% 54 of 1.096	7,5% 0,66
Share of AMI with left heart catheter	Information 1	85,8% 64.604 of 75.253	94,3% 1.034 of 1.096	
Principle diagnosis AMI, direct admissions without transfers, in-hospital mortality age > 19	Observed value 1	7,5% 5.127 of 68.298	7,5% 43 of 572	
Share of AMI, transmural (STEMI)	Information 1	33,7% 25.362 of 75.169	51,0% 559 of 1.096	
AMI, transmural, in-hospital mortality	< Expected value 1	11,7% 2.962 of 25.362	7,7% 43 of 559	12,2%
AMI nontransmural / NSTEMI, in-hospital mortality	< Expected value 1	5,1% 2.527 of 49.072	1,3% 7 of 528	5,0%
Secondary diagnosis AMI, in-hospital mortality age > 19	Observed value 1	17,9% 3.946 of 22.059	14,6% 37 of 254	

Heart Failure

Principle diagnosis heart failure, in-hospital mortality, observed age > 19	< Expected value 1	8,3% 14.396 of 174.125	7,4% 44 of 593	7,9% 0,94
Left-sided heart failure, share coded as NYHA IV	Information 1	47,7% 55.198 of 115.810	66,3% 328 of 495	

Cases with left heart catheterization

Cases with coronary catheterization age > 19	Quantity information 2	827,2 (717) 285.391	3.054	
Coronary catheterization for infarction, without open heart procedure, in-hospital mortality observed (referred to patients with AMI and left heart catheterization) age > 19	< Expected value 1	6,1% 3.883 of 63.325	3,5% 34 of 969	6,2% 0,57
Diagnostic coronary catheterization without PDX of AMI, without open heart procedure, in-hospital mortality age > 19	<1,6% 1	1,6% 1.999 of 128.445	1,6% 16 of 1.023	
Therapeutic coronary catheterization without PDX of AMI, without open heart procedure, in-hospital mortality age > 19	Observed value 1	1,7% 1.361 of 80.373	1,8% 12 of 684	

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Share of therapeutic coronary catheterization without PDX of AMI, without open heart procedure	Information	38,5%	39,7%	
age > 19	1	80.373 of 208.818	684 of 1.724	
Left heart catheterization in children and adolescents	Quantity information	24,3 (2)	93	
age < 20	2	2.913		
Cardiac arrhythmia				
Patients with cardiac arrhythmia as principal diagnosis	Quantity information	482,7 (318)	1.973	
	2	189.203		
Implantation of pacemaker/defibrillator				
Implantation of pacemaker/defibrillator	Quantity information	146,9 (104)	644	
	2	49.079		
thereof implantation or exchange of defibrillator	Quantity information	49,2 (35)	201	
	2	12.887		
Ablation therapy				
Cases with ablation therapy using catheterization	Quantity information	297,8 (210)	1.357	
	2	54.502		
thereof atrial ablation for atrial fibrillation/flutter, in-hospital mortality	Information	0,0766%	0,1272%	
	1	27 of 35.254	1 of 786	
Cases with ablation therapy using open heart surgery	Quantity information	49,9 (39)	79	
	2	1.548		
Heart surgery				
Patients with heart surgery	Quantity information	256,3 (14)	1.594	
	2	53.571		
thereof patients with valvular surgery	Quantity information	282,7 (32)	1.088	
	2	36.753		
thereof patients with coronary bypass surgery	Quantity information	489,8 (442)	381	
	2	17.633		
thereof patients with other cardiac surgery	Quantity information	55,9 (3)	469	
	2	9.448		
among these: patients with combined surgery	Quantity information	230,1 (175)	313	
	2	9.203		
among these: heart surgery in children and adolescents	Quantity information	38,5 (1)	109	
age < 20	2	1.500		
Open aortic valve replacement	Quantity information	261,8 (200)	261	
	2	8.638		

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Isolated open aortic valve replacement, in-hospital mortality	<2,4% 1	2,0% 71 of 3.466	0,0% 0 of 70	
Open aortic valve replacement with replacement of mitral valve, in-hospital mortality	Observed value 1	13,1% 38 of 289	0,0% 0 of 6	
age > 19				
Open aortic valve replacement with other cardiac surgery	Observed value 1	6,5% 314 of 4.841	6,0% 11 of 184	
age > 19				
Transcatheter aortic valve replacement (TAVR/TAVI), in-hospital mortality	Observed value 1	1,7% 242 of 14.303	0,5% 2 of 414	
thereof transcatheter aortic valve replacement, peripheral approach, in-hospital mortality	Observed value 1	1,5% 215 of 13.951	0,5% 2 of 408	
thereof transcatheter aortic valve replacement, transapical approach, in-hospital mortality	Observed value 1	7,7% 27 of 352	0,0% 0 of 6	
Transcatheter/transapical mitral valve interventions, in-hospital mortality	Observed value 1	2,6% 121 of 4.709	2,3% 2 of 86	
Coronary bypass surgery for myocardial infarction, in-hospital mortality, expected value referred to patients with coronary bypass surgery and myocardial infarction	< Expected value 1	5,1% 182 of 3.580	0,0% 0 of 73	4,6% 0,00
Coronary bypass surgery for myocardial infarction without heart support systems, in-hospital mortality	Observed value 1	2,9% 99 of 3.434	0,0% 0 of 70	
age > 19				
Isolated coronary bypass surgery without myocardial infarction, in-hospital mortality	<1,9% 1	1,6% 152 of 9.530	1,7% 3 of 175	
age > 19				
Coronary bypass surgery with other cardiac surgery, in-hospital mortality	Observed value 1	9,0% 405 of 4.500	7,6% 10 of 132	
age > 19				
Isolated open aortic valve replacement, share of patients with carotid endarterectomy	Information 1	0,03% 1 of 3.466	0,0% 0 of 70	

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Isolated coronary bypass surgery without myocardial infarction, share of patients with carotid endarterectomy age > 19	Information 1	0,47% 45 of 9.530	0,57% 1 of 175	

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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 2	32,4 (6) 9.285	258	
Brain surgery for malignant neoplasm, in-hospital mortality	Observed value 1	3,3% 114 of 3.428	1,6% 2 of 122	

Stroke, all types by age groups

Stroke (PDX), all types, in-hospital mortality observed age > 19	Observed value 1	10,3% 11.457 of 111.650	9,0% 144 of 1.597	
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Stroke, by type of stroke

Cerebral infarction (ICD I63), in-hospital mortality, observed age > 19	Observed value 1	7,6% 7.237 of 95.762	4,5% 57 of 1.263	
Share of cerebral infarction with systemic thrombolysis	Information 1	17,0% 16.257 of 95.762	29,2% 369 of 1.263	
Cerebral infarction with systemic thrombolysis, in-hospital mortality	Observed value 1	7,1% 1.158 of 16.257	4,1% 15 of 369	
Share of cerebral infarction with thrombectomy	Information 1	10,3% 9.856 of 95.762	26,2% 331 of 1.263	
Cerebral infarction with thrombectomy, in-hospital mortality	Observed value 1	20,5% 2.024 of 9.856	10,3% 34 of 331	
Cerebral infarction (ICD I63), percentage with pneumonia age > 19	Observed value 1	9,9% 9.513 of 95.762	6,4% 81 of 1.263	
Cerebral infarction (ICD I63) with pneumonia, in-hospital mortality age > 19	Observed value 1	29,9% 2.846 of 9.513	17,3% 14 of 81	

Haemorrhage

Intracerebral haemorrhage (ICD I61), in-hospital mortality age > 19	Observed value 1	29,3% 3.500 of 11.938	27,7% 66 of 238	
Subarachnoid haemorrhage (ICD I60), in-hospital mortality age > 19	Observed value 1	18,7% 690 of 3.697	21,9% 21 of 96	

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Share of unspecified stroke (ICD I64) age > 19	<0,42% 1	0,23% 253 of 111.650	0,0% 0 of 1.597	
Transient cerebral ischaemic attack, in-hospital mortality	Observed value 1	0,3155% 117 of 37.086	0,0% 0 of 187	
Stroke unit treatment				
Treatment cases with neurological or other complex treatment	Quantity information 2	489,9 (486) 108.752	1.908	
Cerebral infarctions with neurological or other complex treatment	Information 1	75,0% 71.818 of 95.762	96,8% 1.223 of 1.263	
TIA with neurological or other complex treatment	Information 1	69,3% 25.693 of 37.086	71,7% 134 of 187	
Cerebral infarction or TIA with neurological or other complex treatment without additional transfers (based on the stroke registry)	Information 1	75,0% 93.593 of 124.869	92,2% 934 of 1.013	
Cerebral infarction or TIA with neurological or other complex treatment only additional transfers (based on the stroke registry)	Information 1	49,1% 3.918 of 7.979	96,8% 423 of 437	
Epilepsy				
Inpatient treatment for epilepsy (PDX) age > 19	Quantity information 2	111,4 (33) 41.091	379	
Inpatient treatment for epilepsy (PDX) age < 20	Quantity information 2	51,4 (14) 11.247	127	
Multiple sclerosis				
Inpatient treatment for multiple sclerosis (PDX)	Quantity information 2	37,2 (24) 9.105	90	

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Geriatric Medicine

Early geriatric rehabilitation

Patients with early geriatric rehabilitation	Quantity information 2	489,1 (412) 119.341	99	
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Malnutrition in the elderly

Malnourished patients, age >= 65, without tumor diseases	Information 1	0,94% 23.878 of 2.533.709	1,34% 199 of 14.820	
Patients fed by tube/infusion	Information 1	2,2% 515 of 23.878	49,7% 99 of 199	

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Diseases of the Lung				
Pneumonia				
Pneumonia (PDX), in-hospital mortality, observed All age groups	< Expected value 1	12,7% 18.561 of 145.659	2,7% 21 of 777	9,4%
Pneumonia excluding admission transfers, neoplasms, cystic fibrosis, (CAP), in-hospital mortality, observed age > 19	< Expected value 1	11,8% 11.935 of 100.994	1,7% 6 of 345	11,6%
Pneumonia excluding admission transfers, neoplasms, cystic fibrosis, COVID-19, in-hospital mortality age > 19	< Expected value 1	10,3% 8.283 of 80.634	1,9% 5 of 262	8,8% 0,22
Pneumonia excluding admission transfers, neoplasms, CF, in-hospital mortality age < 20	Observed value 1	0,33% 41 of 12.607	0,0% 0 of 211	
Pneumonia with inhalation of food or stomach contents, in-hospital mortality	Observed value 1	28,9% 3.663 of 12.659	12,7% 8 of 63	
Bronchitis/bronchiolitis excluding admission transfers, tumor, cystic fibrosis, in-hospital mortality age > 19	< Expected value 1	2,2% 297 of 13.204	0,0% 0 of 15	2,1%
Chronic obstructive pulmonary disease (COPD)				
Chronic obstructive pulmonary disease (COPD without malignancy), in-hospital mortality age > 19	< Expected value 1	4,7% 3.311 of 69.877	2,5% 4 of 158	4,8% 0,53
Malignant neoplasm of bronchus and lung				
Inpatient treatment for malignant neoplasm of bronchus and lung (PDX)	Quantity information 2	191,2 (56) 72.065	298	
Major lung procedures				
Major resections of lung or bronchus for all diagnoses, in-hospital mortality	Observed value 1	2,6% 364 of 14.037	2,6% 6 of 233	
Partial pneumonectomy for lung cancer, in-hospital mortality	<2,0% 1	2,1% 136 of 6.532	2,9% 3 of 102	
Share of pneumonectomies for lung cancer 1 / 3	<20% 1 / 3	3,5% 238 of 6.770	0,0% 0 of 102	
Share of broncho-angioplastic procedures for lung cancer (partial pneumonectomies)	Observed value 1	7,2% 469 of 6.532	5,9% 6 of 102	

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Diseases of the Visceral Organs				
Cholecystectomy				
Cholecystectomy for gallstones (without malignancies), share of laparoscopic removals	>95,1% 1	95,7% 52.365 of 54.722	93,5% 187 of 200	
Cholecystectomy for gallstones (without malignancies), in-hospital mortality	<0,6% 1	0,4678% 256 of 54.722	0,0% 0 of 200	
Repair of femoral, inguinal and umbilical hernia				
Hernia repair without bowel resection, in-hospital mortality	<0,12% 1	0,1186% 81 of 68.284	0,0% 0 of 243	
Hernia repair with bowel resection, in-hospital mortality	Observed value 1	2,1% 157 of 7.308	8,3% 1 of 12	
Repair of inguinal hernia, share of operations with alloplastic material age < 20	Information 1	8,9% 228 of 2.564	3,3% 2 of 60	
Repair of inguinal hernia, share of operations with alloplastic material age > 19	Information 1	98,3% 45.877 of 46.685	96,7% 59 of 61	
Thyroidectomy				
Thyroidectomies	Quantity information 2	61,3 (20) 18.747	221	
thereof thyroidectomies for thyroid cancer	Quantity information 2	12,7 (5) 2.703	78	
thereof thyroidectomies for benign diseases	Quantity information 2	50,9 (18) 15.005	132	
Thyroidectomy, share of patients with mechanical ventilation > 24 hours	Information 1	0,5% 89 of 17.685	0,95% 2 of 210	
Radioactive iodine therapy	Quantity information 2	250,4 (192) 10.266	174	
Diseases of the large bowel and rectum				
Inpatient treatments for colorectal cancer (PDX)	Quantity information 2	126,9 (85) 47.850	162	
Inpatient treatments for ulcerative colitis or Crohn's disease (PDX + SDX)	Quantity information 2	94,1 (61) 39.141	298	
All colorectal resections, in-hospital mortality	Observed value 1	7,8% 2.973 of 37.902	7,0% 15 of 215	

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thereof colon resection for colorectal cancer without complicating diagnosis, in-hospital mortality	<4,1%	3,9%	0,0%	
	1	358 of 9.296	0 of 29	
thereof colon resection for colorectal cancer with complicating diagnosis, in-hospital mortality	Observed value	11,6%	0,0%	
	1	324 of 2.804	0 of 8	
thereof rectal resection for colorectal cancer, in-hospital mortality	<3,2%	2,7%	0,0%	
	1	122 of 4.478	0 of 24	
thereof colon resection surgery for diverticulitis without diverticular perforation/abscess, in-hospital mortality	<0,72%	0,7557%	0,0%	
	1	15 of 1.985	0 of 13	
thereof colon resection surgery for diverticulitis with diverticular perforation/abscess, in-hospital mortality	Observed value	5,4%	0,0%	
	1	274 of 5.071	0 of 17	
thereof colorectal resection for colonic ischemia, in-hospital mortality	Information	42,5%	31,0%	
	1	934 of 2.198	9 of 29	
thereof colorectal resection for ulcerative colitis or Crohn's disease, in-hospital mortality	Observed value	3,8%	0,0%	
	1	76 of 2.000	0 of 11	
thereof colorectal resection for other diagnoses, in-hospital mortality	Information	8,6%	7,2%	
	1	870 of 10.070	6 of 83	
Colorectal resections for colorectal cancer, share of cases with partial resection/destruction of the liver	Information	4,3%	1,6%	
	1	717 of 16.578	1 of 62	

Diseases of the stomach

Inpatient treatments for gastric cancer (PDX)	Quantity information	45,7 (26)	127	
	2	16.139		
Gastric, duodenal, and jejunal ulcers (PDX, without malignancy), in-hospital mortality	Observed value	5,4%	1,5%	
	1	1.072 of 20.006	1 of 65	
Gastric resections, all	Quantity information	36,4 (13)	212	
	2	10.624		
Gastric resection without esophageal resection for gastric cancer, in-hospital mortality	Observed value	5,4%	0,0%	
	1	114 of 2.096	0 of 12	

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Gastric resection combined with esophageal resection, in-hospital mortality	Observed value 1	18,1% 47 of 259	0,0% 0 of 38	
Partial and total gastric resection for other diagnoses, in-hospital mortality	Observed value 1	2,9% 240 of 8.269	0,0% 0 of 162	
Bariatric interventions				
Bariatric interventions, in-hospital mortality	Observed value 1	0,0356% 4 of 11.251	0,0% 0 of 125	
Major esophageal surgery				
Major esophageal surgery, in-hospital mortality	Observed value 1	8,9% 166 of 1.864	2,0% 1 of 49	
Major pancreatic surgery				
Pancreatic resections total (without transplantation), in-hospital mortality age > 19	Observed value 1	9,3% 467 of 5.035	3,3% 4 of 122	
Pancreatic resections for malign neoplasms of the pancreas, in-hospital mortality	Observed value 1	7,7% 229 of 2.966	0,0% 0 of 66	
Anatomical liver resection, in-hospital mortality age > 19	Observed value 1	5,8% 157 of 2.692	0,0% 0 of 36	

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Vascular Surgery

Surgery of the carotid and brain arteries

Extracranial artery surgery, in-hospital mortality	<1,09% 1	1,05% 101 of 9.635	0,94% 1 of 106	
Percutaneous stenting of extracranial arteries, in-hospital mortality	<2,2% 1	2,7% 65 of 2.411	2,0% 3 of 152	
Extracranial artery surgery combined with cardiac or aortic surgery or neoplasm of the ENT area, in-hospital mortality	Observed value 1	15,2% 283 of 1.863	7,8% 5 of 64	
Percutaneous intracranial interventions	Quantity information 2	101,8 (54) 15.582	240	

Aortic surgery

Aortic surgery: all interventions	Quantity information 2	56,1 (31) 10.773	429	
Abdominal aortic repair	Quantity information 2	30,4 (25) 5.623	140	
Open abdominal aortic repair for aortic aneurysm, no rupture, in-hospital mortality	<7,6% 1	6,7% 57 of 855	0,0% 0 of 34	
Endovascular abdominal aortic repair for aortic aneurysm (EVAR), no rupture, in-hospital mortality	<1,4% 1	0,7% 24 of 3.341	0,0% 0 of 73	
Open abdominal aortic repair, no aneurysm, no rupture, in-hospital mortality	Observed value 1	6,1% 30 of 492	0,0% 0 of 9	
Endovascular abdominal aortic repair, no aneurysm, no rupture, in-hospital mortality	Observed value 1	5,5% 21 of 379	0,0% 0 of 4	
Thoracic aortic surgery, no aneurysm, no rupture, in-hospital mortality	Observed value 1	17,5% 69 of 394	7,1% 1 of 14	
Aortic aneurysms with rupture or dissection, in-hospital mortality	Information 1	41,7% 778 of 1.867	30,8% 16 of 52	
thereof ruptured with surgical intervention, in-hospital mortality	Information 1	34,5% 345 of 999	28,9% 13 of 45	

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Lower extremity arterial surgery				
Lower extremity arterial surgery, all, in-hospital mortality	Information 1	5,7% 1.655 of 29.140	6,6% 17 of 259	
thereof lower extremity bypass surgery for claudication (Fontaine I + II), in-hospital mortality	<0,33% 1	0,2817% 17 of 6.035	3,4483% 1 of 29	
thereof lower extremity bypass surgery for rest pain (Fontaine III), in-hospital mortality	<2,3% 1	1,3% 27 of 2.093	n.a. <4	
thereof lower extremity bypass surgery for necrosis or gangrene (Fontaine IV), in-hospital mortality	<4,5% 1	3,8% 140 of 3.698	0,0% 0 of 22	
Percutaneous Transluminal Angioplasty (PTA, inpatient)				
Percutaneous transluminal angioplasty of abdominal and/or lower limb arteries (without aortic intervention), in-hospital mortality	Observed value 1	2,9% 1.767 of 61.041	2,4% 18 of 742	
thereof PTA of lower extremity arteries with lower extremity bypass surgery during the same stay	Quantity information 2	45,9 (36) 10.200	78	
Arteriovenous shunting				
Surgical creation of arteriovenous fistula	Quantity information 2	29,3 (17) 5.801	54	

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Obstetrics and Gynecology

Deliveries

Deliveries with inpatient mortality	<0,005% 1	0,0049% 12 of 243.869	0,0% 0 of 2.034	
Vaginal delivery with third- or fourth-degree tears	<2,0% 1	2,1% 3.328 of 162.208	3,9% 42 of 1.081	
Vaginal delivery with episiotomy	Information 1	9,6% 15.637 of 162.208	9,9% 107 of 1.081	
Cesarean section rate	Information 1	33,5% 81.661 of 243.869	46,9% 953 of 2.034	
Cesarean section with low risk delivery	Information 1	28,1% 59.928 of 213.073	37,2% 566 of 1.520	
thereof Cesarean section with low risk delivery age < 35	Information 1	26,0% 40.688 of 156.630	34,6% 349 of 1.009	
thereof Cesarean section with low risk delivery age > 34	Information 1	34,1% 19.240 of 56.443	42,5% 217 of 511	

Newborns

Neonates below 1.250 g	Quantity information 2	23,7 (25) 2.398	77	
thereof neonates below 500 g	Quantity information 2	3,5 (3) 242	4	
thereof neonates >=500 g and <750 g	Quantity information 2	7,4 (6) 564	24	
thereof neonates >=750 g and <1.000 g	Quantity information 2	9,3 (8) 717	23	
thereof neonates >=1.000 g and <1.250 g	Quantity information 2	10,4 (10) 875	26	
Neonates >=1.250 g and <1.500 g	Quantity information 2	10,1 (8) 1.001	29	
Neonates >=1.500 g and <2.500 g	Quantity information 2	69,9 (26) 14.885	408	
Neonates > 2.500 g (or no mention of weight)	Quantity information 2	1057,1 (773) 242.078	2.077	

Hysterectomy for benign diseases

Hysterectomy for benign diseases, in-hospital mortality age > 14	<0,04% 1	0,0492% 11 of 22.351	0,0% 0 of 215	
Share of vaginal/laparoscopic hysterectomy without plastic surgeries	>88,4% 1	89,3% 19.797 of 22.158	95,3% 205 of 215	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Effective value Number of cases	Hospital Expected value SMR
Share of vaginal hysterectomy without plastic surgeries	Information 1	29,1% 6.439 of 22.158	2,8% 6 of 215	
Share of laparoscopic hysterectomy without plastic surgeries	Information 1	60,3% 13.358 of 22.158	92,6% 199 of 215	
Share of hysterectomy for benign diseases combined with oophorectomy excl. endometriosis age < 50	Information 1	5,7% 420 of 7.325	1,8% 1 of 55	
Share of hysterectomy for benign diseases combined with oophorectomy excl. endometriosis age > 49	Information 1	31,7% 2.744 of 8.657	59,6% 31 of 52	
Breast cancer and female genital cancer				
Breast cancer and female genital cancer (PDX)	Quantity information 2	213,4 (67) 77.033	668	
Inpatient cases for cancer of the ovaries (PDX)	Quantity information 2	30,5 (13) 9.647	140	
Cancer of the ovaries with oophorectomy, in-hospital mortality	Observed value 1	1,4% 36 of 2.641	1,6% 1 of 62	
Inpatient cases for cancer of the uterus (PDX)	Quantity information 2	51,7 (29) 15.677	183	
Cancer of the uterus with hysterectomy, in-hospital mortality	Observed value 1	0,74% 45 of 6.083	1,27% 1 of 79	
Inpatient cases for breast cancer (PDX)	Quantity information 2	136,0 (33) 47.606	278	
Interventions on the breast				
Breast surgery, all (lumpectomy, partial mastectomy and breast augmentation)	Quantity information 2	167,2 (121) 42.291	232	
Lumpectomy, partial mastectomy for cancer	Quantity information 2	149,9 (125) 31.181	156	
Share of breast conserving surgery in breast cancer	Information 1	72,1% 22.484 of 31.181	79,5% 124 of 156	
Interventions on female pelvic floor				
Pelvic surgeries with and without plastic surgeries, total	Quantity information 2	72,5 (54) 20.359	123	

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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 Skeletal System				
Cancer of the skeletal system				
Cancer of the skeletal system (PDX)	Quantity information 2	43,1 (5) 14.443	177	
Endoprosthesis				
Hip replacement for coxarthrosis and chronic hip arthritis, in-hospital mortality	<0,13% 1	0,0845% 51 of 60.341	0,0% 0 of 60	
Hip replacement for hip fracture, in-hospital mortality	Observed value 1	5,2% 1.115 of 21.648	0,0% 0 of 34	
Hip replacement for other diagnoses, in-hospital mortality	Observed value 1	5,7% 382 of 6.712	3,2% 1 of 31	
Hip replacement for coxarthrosis and hip arthritis, share of cases with non-surgical complications	Observed value 1	2,4% 1.442 of 60.341	1,7% 1 of 60	
Hip revision surgery without fracture or infection, in-hospital mortality	<1,35% 1	1,35% 66 of 4.881	0% 0 of 35	
thereof hip revision surgery with special prosthesis, in-hospital mortality	Information 1	1,0% 9 of 933	0,0% 0 of 5	
Hip revision surgery for fracture or infection, in-hospital mortality	Observed value 1	4,6% 187 of 4.097	2,5% 1 of 40	
Knee replacement for gonarthrosis and chronic knee arthritis, in-hospital mortality	<0,06% 1	0,0442% 27 of 61.154	2,6316% 1 of 38	
Knee replacement for other diagnoses, in-hospital mortality	Observed value 1	0,3313% 12 of 3.622	0,0% 0 of 10	
Knee replacement for gonarthrosis and knee arthritis, share of cases with non-surgical complications	Observed value 1	1,6% 975 of 61.154	15,8% 6 of 38	
Revision of knee replacement without fracture or infection, in-hospital mortality	<0,16% 1	0,3995% 20 of 5.006	0,0% 0 of 19	
thereof knee revision surgery with special prosthesis, in-hospital mortality	Information 1	0,456% 7 of 1.535	0,0% 0 of 7	

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Revision of knee replacement for fracture or infection, in-hospital mortality	Observed value 1	3,2% 66 of 2.092	0,0% 0 of 19	
Hip or knee replacement for cancer, in-hospital mortality	Observed value 1	7,4% 178 of 2.404	2,0% 1 of 51	
Hip or knee replacement combined, in-hospital mortality	Observed value 1	1,0% 1 of 96	n.a. <4	
Hip fracture				
Femoral neck fracture with surgical treatment, in-hospital mortality age > 19	< Expected value 1	4,7% 1.118 of 23.922	0,0% 0 of 45	5,0% 0,00
Femoral neck fracture with endoprosthesis treatment, in-hospital mortality age > 19	Observed value 1	5,1% 1.075 of 21.194	0,0% 0 of 34	
Femoral neck fracture with osteosynthetic treatment, in-hospital mortality age > 19	Observed value 1	1,6% 43 of 2.728	0,0% 0 of 11	
Pertrochanteric fracture with surgical treatment, in-hospital mortality age > 19	< Expected value 1	4,8% 957 of 19.901	3,7% 2 of 54	6,0% 0,62
Pertrochanteric fracture with osteosynthetic treatment, in-hospital mortality age > 19	Observed value 1	4,7% 919 of 19.479	3,7% 2 of 54	
Surgery of the spine and medulla				
Surgery of the spine and medulla except local interventions for pain management	Quantity information 2	320,5 (208) 113.450	1.214	
Spinal fusion or vertebral body replacement for cancer, in-hospital mortality	Observed value 1	7,9% 265 of 3.351	8,2% 4 of 49	
Spinal fusion or vertebral body replacement for trauma, in-hospital mortality	Observed value 1	3,5% 514 of 14.514	2,5% 4 of 159	
Surgery of the spine in case of discitis or osteomyelitis, in-hospital mortality	Observed value 1	7,9% 193 of 2.439	0,0% 0 of 55	
Complex reconstructions of the spine (without cancer or trauma), in-hospital mortality	Observed value 1	0,7134% 6 of 841	2,7778% 1 of 36	

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IQM Quality indicators	IQM Target value	IQM Average value	Hospital Effective value	Hospital Expected value
	Source	Number of cases	Number of cases	SMR
Spinal fusion or vertebral body replacement, 1 level (without cancer, trauma, complex reconstr.), in-hospital mortality	Observed value 1	0,169% 22 of 13.018	0,0% 0 of 93	
Spinal fusion or vertebral body replacement, 2 levels (without cancer, trauma, complex reconstr.), in-hospital mortality	Observed value 1	0,2039% 14 of 6.867	0,0% 0 of 34	
Spinal fusion or vertebral body replacement, 3 or more levels (without cancer, trauma, complex reconstr.), in-hospital mortality	Observed value 1	0,7423% 39 of 5.254	0,0% 0 of 43	
Decompression of the spinal column, in-hospital mortality	Observed value 1	0,0729% 17 of 23.310	0,0% 0 of 16	
Spinal discectomy (without cancer, Trauma, Decompression, complex reconstr.), in-hospital mortality	<0,03% 1	0,0124% 2 of 16.176	0,0% 0 of 116	
Vertebroplasty or kyphoplasty (without cancer, complex reconstr., discectomy, vertebral body replacement), in-hospital mortality	<0,53% 1	0,5271% 34 of 6.450	0,0% 0 of 70	
Other surgeries of the spine or medulla, in-hospital mortality	Observed value 1	1,9% 394 of 21.230	2,8% 15 of 543	
Spinal discectomy (without cancer, trauma, complex reconstr.), share of cases with non-surgical complications	Observed value 1	0,5131% 83 of 16.176	1,7241% 2 of 116	
Local spinal interventions for pain management (without other spinal surgery)	Quantity information 2	81,0 (33) 27.774	45	
Treatment of spinal diseases (PDX) without spinal surgery or local interventions	Quantity information 2	129,7 (109) 53.308	158	
Surgery on the musculoskeletal system including endoprosthesis				
Endoprosthesis of the shoulder/elbow joint	Quantity information 2	35,7 (26) 12.571	60	
Polytrauma				
Polytrauma (according to DRG-definition)	Quantity information 2	21,4 (8) 7.373	265	

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Urology				
Nephrectomy				
Radical nephrectomy, in-hospital mortality	<1,8% 1	1,3% 43 of 3.384	0,0% 0 of 22	
Radical nephrectomy, share of laparoscopic procedures	Information 1	46,1% 1.559 of 3.384	36,4% 8 of 22	
Partial nephrectomy, in-hospital mortality	<0,35% 1	0,2538% 9 of 3.546	0,0% 0 of 19	
Partial nephrectomy, share of laparoscopic procedures	Information 1	59,1% 2.096 of 3.546	57,9% 11 of 19	
Share of partial nephrectomies in cancer procedures	Information 1	51,2% 3.546 of 6.930	46,3% 19 of 41	
Radical nephrectomy for other diagnosis, in-hospital mortality	Observed value 1	3,9% 82 of 2.086	0,0% 0 of 18	
Partial nephrectomy for other diagnosis, in-hospital mortality	Observed value 1	0,1654% 2 of 1.209	0,0% 0 of 6	
Bladder surgery				
Inpatient cases for bladder cancer (PDX)	Quantity information 2	136,3 (46) 44.148	246	
Transurethral resections (TUR) at the bladder (all)	Quantity information 2	214,2 (207) 44.556	181	
thereof transurethral resections for bladder cancer	Quantity information 2	168,7 (151) 31.552	150	
Share of cancer TUR with intravesical instillation chemotherapy	Observed value 1	18,1% 5.716 of 31.552	18,0% 27 of 150	
Cystectomy, in-hospital mortality	<4,8% 1	4,5% 134 of 2.952	1,8% 1 of 57	
Pelvic evisceration (men or women), in-hospital mortality	Observed value 1	6,0% 32 of 536	n.a. <4	

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Transurethral resection of the prostate (TURP)				
Transurethral resection of the prostate (TURP), in-hospital mortality	<0,2% 1	0,1542% 39 of 25.286	0,0% 0 of 76	
Transurethral resection of the prostate (TURP) for malignant diseases, in-hospital mortality	Observed value 1	0,6955% 49 of 7.045	0,0% 0 of 19	
Transurethral resection of the prostate (TURP), share of cases with non-surgical complications	Observed value 1	3,5% 1.129 of 32.331	0,0% 0 of 95	
Inpatient cases for prostate cancer (PDX)	Quantity information 2	101,8 (23) 34.829	211	
Prostatectomy, in-hospital mortality	<0,16% 1	0,1882% 24 of 12.755	0,0% 0 of 24	
Kidney stones				
Inpatient cases for kidney stones (PDX)	Quantity information 2	193,8 (47) 70.929	387	
Share of cases with interventions for stone removal	Information 1	53,4% 37.870 of 70.929	63,6% 246 of 387	

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IQM Quality indicators

IQM Target value Source	IQM Average value Number of cases	Hospital Effective value Number of cases	Hospital Expected value SMR
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Diseases of the Skin

Diseases of the skin

Inpatient treatment for melanoma (PDX)	Quantity information 2	46,1 (5) 13.053	154	
Inpatient treatment for dermatitis and eczema (PDX)	Quantity information 2	33,2 (5) 11.493	143	
Inpatient treatment for psoriasis (PDX)	Quantity information 2	28,4 (2) 4.579	27	

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Intensive Care				
Intensive care				
Mechanical ventilation for > 24 hours (without neonates), in-hospital mortality	Observed value 1	35,6% 33.011 of 92.799	24,3% 232 of 954	
ECLS/ECMO - Heart / Cardiopulmonary support	Quantity information 2	30,0 (11) 2.728	135	
ECMO - Lung support	Quantity information 2	19,1 (5) 1.991	13	
Mechanical ventilation for > 24 hours (without neonates and COVID-19), in-hospital mortality	<35,9% 1	35,0% 29.849 of 85.353	23,9% 217 of 907	
Sepsis (PDX), in-hospital mortality	< Expected value 1	33,3% 10.295 of 30.870	15,7% 87 of 554	30,7% 0,51
thereof Sepsis with organ dysfunction or shock (PDX), in-hospital mortality	Observed value 1	35,6% 9.781 of 27.479	17,7% 80 of 452	
thereof Sepsis without organ dysfunction or shock (PDX), in-hospital mortality	Observed value 1	15,2% 514 of 3.391	6,9% 7 of 102	
Sepsis (as secondary diagnosis), in-hospital mortality	Observed value 1	37,9% 24.199 of 63.870	25,1% 87 of 347	
thereof Sepsis with organ dysfunction or shock (as secondary diagnosis), in-hospital mortality	Observed value 1	39,2% 23.621 of 60.313	28,3% 85 of 300	
Generalized whole-body inflammatory response without organ dysfunction (SIRS), in-hospital mortality	Information 1	7,3% 3.659 of 49.942	11,8% 2 of 17	
Congenital coagulation disorder				
Patients with congenital coagulation disorders	Quantity information 2	28,1 (14) 11.231	184	
thereof surgical patients (with congenital coagulation disorders)	Quantity information 2	18,8 (9) 7.177	141	
Autopsy rate				
Autopsy rate	Information 1	0,81% 1.377 of 169.507	0,0% 0 of 1.027	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Effective value Number of cases	Hospital Expected value SMR
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Highly Specialised Medical Care

Transplantations

thereof heart transplantation	Quantity information 2	23,7 (13) 213	20	
Liver transplantation, all	Quantity information 2	49,8 (50) 398	40	
Kidney transplantation, all	Quantity information 2	55,8 (47) 1.005	78	
Transplantation or transfusion of hematopoietic stem cells, all	Quantity information 2	72,9 (52) 3.645	123	
Transfusion of peripheral blood stem cells	Quantity information 2	70,9 (57) 3.472	123	
thereof transfusion of peripheral blood stem cells, autologous	Quantity information 2	41,7 (34) 2.001	123	

Hyperthermic chemotherapy

Hyperthermic intraperitoneal chemotherapy	Quantity information 2	7,6 (4) 420	10	
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IQM Quality indicators

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Source	Number of cases	Number of cases	SMR

Palliative Care

Palliative care

Palliative care complex treatment	Quantity information	202,0 (133)	280	
	2	46.252		

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IQM Quality indicators

	IQM Target value Source	IQM Average value Number of cases	Hospital Effective value Number of cases	Hospital Expected value SMR
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Robot Assisted Interventions

Robot assisted interventions

	Quantity information	142 (116) 12.922	37	
Urological interventions using robotic surgery	2			

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COVID-19 Key Figures

COVID-19 key figures

Proportion of patients with testing for COVID-19	Information 1	31,0% 1.932.638 of 6.234.399	8,9% 4.274 of 48.118	
Proportion of patients with virus detection based on all tested patients	Information 1	8,7% 168.657 of 1.932.638	21,9% 937 of 4.274	
Proportion of patients with COVID-19 virus detection based on all patients	Information 1	2,7% 168.657 of 6.234.399	1,9% 937 of 48.118	
COVID-19 - Proportion of patients without virus detection	Information 1	0,3% 15.596 of 6.234.399	0,0% 4 of 48.118	
COVID-19 - Patients with virus detection and severe respiratory disease	Information 1	33,8% 57.036 of 168.657	30,8% 289 of 937	
COVID-19 - Patients with virus detection and selected previous illnesses	Information 1	80,3% 135.474 of 168.657	79,5% 745 of 937	
COVID-19 - mortality with Virus detection	Information 1	8,7% 14.592 of 168.657	4,3% 40 of 937	

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	Source	Number of cases	Number of cases	SMR

Diseases of the Heart

Acute Myocardial Infarction (AMI)

Acute Myocardial Infarction, in-hospital mortality, observed	< Expected value	7,9%	3,8%	7,3%
age > 19	1	5.985 of 75.638	42 of 1.097	0,52
Share of AMI with left heart catheter	Information	85,1%	95,2%	
	1	64.391 of 75.638	1.044 of 1.097	
Principle diagnosis AMI, direct admissions without transfers, in-hospital mortality	Observed value	7,8%	4,7%	
age > 19	1	5.373 of 68.448	23 of 494	
Share of AMI, transmural (STEMI)	Information	33,7%	52,1%	
	1	25.485 of 75.551	571 of 1.096	
AMI, transmural, in-hospital mortality	< Expected value	11,8%	6,0%	12,1%
	1	3.015 of 25.485	34 of 571	
AMI nontransmural / NSTEMI, in-hospital mortality	< Expected value	5,4%	1,0%	4,8%
	1	2.685 of 49.354	5 of 509	
Secondary diagnosis AMI, in-hospital mortality	Observed value	19,8%	13,5%	
age > 19	1	4.314 of 21.826	35 of 259	

Heart Failure

Principle diagnosis heart failure, in-hospital mortality, observed	< Expected value	8,5%	4,5%	7,9%
age > 19	1	13.946 of 163.930	30 of 668	0,57
Left-sided heart failure, share coded as NYHA IV	Information	49,1%	57,7%	
	1	53.024 of 107.883	295 of 511	

Cases with left heart catheterization

Cases with coronary catheterization	Quantity information	823,8 (670)	3.114	
age > 19	2	281.748		
Coronary catheterization for infarction, without open heart procedure, in-hospital mortality observed (referred to patients with AMI and left heart catheterization)	< Expected value	6,3%	2,7%	6,0%
age > 19	1	3.997 of 63.021	26 of 972	0,44
Diagnostic coronary catheterization without PDX of AMI, without open heart procedure, in-hospital mortality	<1,6%	1,7%	1,0%	
age > 19	1	2.173 of 129.883	12 of 1.162	
Therapeutic coronary catheterization without PDX of AMI, without open heart procedure, in-hospital mortality	Observed value	1,9%	1,7%	
age > 19	1	1.454 of 75.776	11 of 652	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Effective value Number of cases	Hospital Expected value SMR
Share of therapeutic coronary catheterization without PDX of AMI, without open heart procedure	Information	36,8%	35,6%	
age > 19	1	75.776 of 205.659	652 of 1.831	
Left heart catheterization in children and adolescents	Quantity information	22,0 (2)	78	
age < 20	2	2.509		
Cardiac arrhythmia				
Patients with cardiac arrhythmia as principal diagnosis	Quantity information	440,0 (291)	1.898	
	2	173.349		
Implantation of pacemaker/defibrillator				
Implantation of pacemaker/defibrillator	Quantity information	145,8 (101)	633	
	2	49.587		
thereof implantation or exchange of defibrillator	Quantity information	51,7 (34)	205	
	2	13.491		
Ablation therapy				
Cases with ablation therapy using catheterization	Quantity information	243,3 (167)	1.278	
	2	46.966		
thereof atrial ablation for atrial fibrillation/flutter, in-hospital mortality	Information	0,0988%	0,0%	
	1	29 of 29.358	0 of 694	
Cases with ablation therapy using open heart surgery	Quantity information	45,5 (31)	70	
	2	1.411		
Heart surgery				
Patients with heart surgery	Quantity information	237,9 (11)	1.545	
	2	47.827		
thereof patients with valvular surgery	Quantity information	272,2 (36)	1.055	
	2	32.659		
thereof patients with coronary bypass surgery	Quantity information	434,7 (414)	422	
	2	16.084		
thereof patients with other cardiac surgery	Quantity information	49,1 (3)	439	
	2	8.389		
among these: patients with combined surgery	Quantity information	230,7 (174)	334	
	2	8.306		
among these: heart surgery in children and adolescents	Quantity information	27,6 (1)	84	
age < 20	2	1.187		
Open aortic valve replacement	Quantity information	220,1 (184)	280	
	2	7.704		

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	Source	Number of cases	Number of cases	SMR
Isolated open aortic valve replacement, in-hospital mortality	<2,4% 1	2,4% 75 of 3.066	1,3% 1 of 78	
Open aortic valve replacement with replacement of mitral valve, in-hospital mortality	Observed value 1	15,6% 40 of 256	0,0% 0 of 5	
age > 19				
Open aortic valve replacement with other cardiac surgery	Observed value 1	7,6% 332 of 4.352	5,1% 10 of 195	
age > 19				
Transcatheter aortic valve replacement (TAVR/TAVI), in-hospital mortality	Observed value 1	1,9% 246 of 12.822	0,8% 3 of 370	
thereof transcatheter aortic valve replacement, peripheral approach, in-hospital mortality	Observed value 1	1,8% 220 of 12.438	0,8% 3 of 361	
thereof transcatheter aortic valve replacement, transapical approach, in-hospital mortality	Observed value 1	6,8% 26 of 384	0,0% 0 of 9	
Transcatheter/transapical mitral valve interventions, in-hospital mortality	Observed value 1	2,8% 122 of 4.302	0,0% 0 of 85	
Coronary bypass surgery for myocardial infarction, in-hospital mortality, expected value referred to patients with coronary bypass surgery and myocardial infarction	< Expected value 1	4,6% 163 of 3.535	3,2% 2 of 62	4,9% 0,66
Coronary bypass surgery for myocardial infarction without heart support systems, in-hospital mortality	Observed value 1	3,1% 106 of 3.412	0,0% 0 of 60	
age > 19				
Isolated coronary bypass surgery without myocardial infarction, in-hospital mortality	<1,9% 1	2,0% 166 of 8.331	1,6% 3 of 188	
age > 19				
Coronary bypass surgery with other cardiac surgery, in-hospital mortality	Observed value 1	8,6% 360 of 4.205	4,1% 7 of 172	
age > 19				
Isolated open aortic valve replacement, share of patients with carotid endarterectomy	Information 1	0,07% 2 of 3.066	0,0% 0 of 78	

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Effective value Number of cases	Hospital Expected value SMR
Isolated coronary bypass surgery without myocardial infarction, share of patients with carotid endarterectomy	Information	0,46%	0,53%	
age > 19	1	38 of 8.331	1 of 188	

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IQM Quality indicators	IQM Target value	IQM Average value	Hospital Effective value	Hospital Expected value
	Source	Number of cases	Number of cases	SMR

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 2	32,9 (7) 9.175	273	
Brain surgery for malignant neoplasm, in-hospital mortality	Observed value 1	3,3% 113 of 3.411	0,7% 1 of 138	

Stroke, all types by age groups

Stroke (PDX), all types, in-hospital mortality observed age > 19	Observed value 1	10,5% 11.413 of 108.989	8,4% 133 of 1.577	
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Stroke, by type of stroke

Cerebral infarction (ICD I63), in-hospital mortality, observed age > 19	Observed value 1	7,8% 7.299 of 93.757	4,6% 59 of 1.284	
Share of cerebral infarction with systemic thrombolysis	Information 1	16,0% 14.996 of 93.757	25,5% 328 of 1.284	
Cerebral infarction with systemic thrombolysis, in-hospital mortality	Observed value 1	7,6% 1.144 of 14.996	2,4% 8 of 328	
Share of cerebral infarction with thrombectomy	Information 1	9,5% 8.900 of 93.757	26,3% 338 of 1.284	
Cerebral infarction with thrombectomy, in-hospital mortality	Observed value 1	20,6% 1.835 of 8.900	9,2% 31 of 338	
Cerebral infarction (ICD I63), percentage with pneumonia age > 19	Observed value 1	9,9% 9.318 of 93.757	6,8% 87 of 1.284	
Cerebral infarction (ICD I63) with pneumonia, in-hospital mortality age > 19	Observed value 1	30,9% 2.883 of 9.318	23,0% 20 of 87	

Haemorrhage

Intracerebral haemorrhage (ICD I61), in-hospital mortality age > 19	Observed value 1	29,6% 3.402 of 11.485	26,0% 54 of 208	
Subarachnoid haemorrhage (ICD I60), in-hospital mortality age > 19	Observed value 1	19,6% 682 of 3.480	22,9% 19 of 83	

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Share of unspecified stroke (ICD I64) age > 19	<0,42% 1	0,24% 267 of 108.989	0,13% 2 of 1.577	
Unspecified stroke (ICD I64), in-hospital mortality age > 19	Observed value 1	11,2% 30 of 267	n.a. <4	
Transient cerebral ischaemic attack, in-hospital mortality	Observed value 1	0,3673% 129 of 35.124	0,5348% 1 of 187	
Stroke unit treatment				
Treatment cases with neurological or other complex treatment	Quantity information 2	465,1 (460) 102.778	1.753	
Cerebral infarctions with neurological or other complex treatment	Information 1	73,8% 69.165 of 93.757	92,6% 1.189 of 1.284	
TIA with neurological or other complex treatment	Information 1	67,0% 23.550 of 35.124	70,6% 132 of 187	
Cerebral infarction or TIA with neurological or other complex treatment without additional transfers (based on the stroke registry)	Information 1	73,3% 88.991 of 121.439	88,5% 981 of 1.109	
Cerebral infarction or TIA with neurological or other complex treatment only additional transfers (based on the stroke registry)	Information 1	50,0% 3.724 of 7.442	93,9% 340 of 362	
Epilepsy				
Inpatient treatment for epilepsy (PDX) age > 19	Quantity information 2	110,7 (35) 40.505	381	
Inpatient treatment for epilepsy (PDX) age < 20	Quantity information 2	51,0 (16) 11.010	146	
Multiple sclerosis				
Inpatient treatment for multiple sclerosis (PDX)	Quantity information 2	39,1 (27) 9.657	83	

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Geriatric Medicine

Early geriatric rehabilitation

Patients with early geriatric rehabilitation	Quantity information 2	410,3 (328) 99.293	38	
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Malnutrition in the elderly

Malnourished patients, age >= 65, without tumor diseases	Information 1	0,94% 22.614 of 2.406.736	1,29% 198 of 15.307	
Patients fed by tube/infusion	Information 1	2,0% 448 of 22.614	40,4% 80 of 198	

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Diseases of the Lung				
Pneumonia				
Pneumonia (PDX), in-hospital mortality, observed All age groups	< Expected value 1	15,3% 20.967 of 137.340	2,8% 21 of 746	10,2%
Pneumonia excluding admission transfers, neoplasms, cystic fibrosis, (CAP), in-hospital mortality, observed age > 19	< Expected value 1	14,1% 11.884 of 84.192	2,1% 7 of 338	11,2%
Pneumonia excluding admission transfers, neoplasms, cystic fibrosis, COVID-19, in-hospital mortality age > 19	< Expected value 1	10,9% 5.654 of 51.812	1,8% 4 of 218	9,1% 0,20
Pneumonia excluding admission transfers, neoplasms, CF, in-hospital mortality age < 20	Observed value 1	0,44% 47 of 10.734	0,0% 0 of 163	
Pneumonia with inhalation of food or stomach contents, in-hospital mortality	Observed value 1	29,9% 3.776 of 12.646	6,1% 4 of 66	
Bronchitis/bronchiolitis excluding admission transfers, tumor, cystic fibrosis, in-hospital mortality age > 19	< Expected value 1	2,2% 236 of 10.758	0,0% 0 of 8	1,3%
Chronic obstructive pulmonary disease (COPD)				
Chronic obstructive pulmonary disease (COPD without malignancy), in-hospital mortality age > 19	< Expected value 1	5,3% 3.285 of 61.769	4,0% 6 of 149	5,1% 0,78
Malignant neoplasm of bronchus and lung				
Inpatient treatment for malignant neoplasm of bronchus and lung (PDX)	Quantity information 2	182,0 (47) 69.723	328	
Major lung procedures				
Major resections of lung or bronchus for all diagnoses, in-hospital mortality	Observed value 1	2,5% 317 of 12.920	0,9% 2 of 222	
Pneumonectomy for lung cancer, in-hospital mortality	Observed value 1	8,7% 22 of 252	n.a. <4	
Partial pneumonectomy for lung cancer, in-hospital mortality	<2,0% 1	2,1% 121 of 5.698	0,0% 0 of 102	
Share of pneumonectomies for lung cancer	<20% 1 / 3	4,2% 252 of 5.950	2,9% 3 of 105	

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Share of broncho-angioplastic procedures for lung cancer (partial pneumonectomies)	Observed value 1	7,6% 435 of 5.698	4,9% 5 of 102	

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Diseases of the Visceral Organs				
Cholecystectomy				
Cholecystectomy for gallstones (without malignancies), share of laparoscopic removals	>95,1% 1	95,1% 48.890 of 51.424	93,9% 186 of 198	
Cholecystectomy for gallstones (without malignancies), in-hospital mortality	<0,6% 1	0,5853% 301 of 51.424	0,0% 0 of 198	
Repair of femoral, inguinal and umbilical hernia				
Hernia repair without bowel resection, in-hospital mortality	<0,12% 1	0,1279% 87 of 68.044	0,0% 0 of 232	
Hernia repair with bowel resection, in-hospital mortality	Observed value 1	2,3% 157 of 6.797	0,0% 0 of 13	
Repair of inguinal hernia, share of operations with alloplastic material age < 20	Information 1	10,4% 282 of 2.714	2,0% 1 of 51	
Repair of inguinal hernia, share of operations with alloplastic material age > 19	Information 1	98,1% 46.312 of 47.185	96,9% 62 of 64	
Thyroidectomy				
Thyroidectomies	Quantity information 2	55,6 (20) 17.020	203	
thereof thyroidectomies for thyroid cancer	Quantity information 2	11,0 (4) 2.437	46	
thereof thyroidectomies for benign diseases	Quantity information 2	47,1 (20) 13.673	143	
Thyroidectomy, share of patients with mechanical ventilation > 24 hours	Information 1	0,54% 87 of 16.082	0,53% 1 of 189	
Radioactive iodine therapy	Quantity information 2	199,8 (174) 8.393	141	
Diseases of the large bowel and rectum				
Inpatient treatments for colorectal cancer (PDX)	Quantity information 2	123,9 (85) 47.195	140	
Inpatient treatments for ulcerative colitis or Crohn's disease (PDX + SDX)	Quantity information 2	90,4 (58) 37.321	318	
All colorectal resections, in-hospital mortality	Observed value 1	8,1% 2.983 of 36.751	4,4% 9 of 203	

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thereof colon resection for colorectal cancer without complicating diagnosis, in-hospital mortality	<4,1%	4,1%	5,0%	
	1	377 of 9.128	1 of 20	
thereof colon resection for colorectal cancer with complicating diagnosis, in-hospital mortality	Observed value	11,2%	0,0%	
	1	308 of 2.740	0 of 11	
thereof rectal resection for colorectal cancer, in-hospital mortality	<3,2%	2,8%	0,0%	
	1	119 of 4.274	0 of 15	
thereof colon resection surgery for diverticulitis without diverticular perforation/abscess, in-hospital mortality	<0,72%	0,4585%	0,0%	
	1	9 of 1.963	0 of 7	
thereof colon resection surgery for diverticulitis with diverticular perforation/abscess, in-hospital mortality	Observed value	5,5%	6,7%	
	1	266 of 4.870	1 of 15	
thereof colorectal resection for colonic ischemia, in-hospital mortality	Information	45,0%	14,3%	
	1	978 of 2.172	3 of 21	
thereof colorectal resection for ulcerative colitis or Crohn's disease, in-hospital mortality	Observed value	3,1%	0,0%	
	1	58 of 1.881	0 of 11	
thereof colorectal resection for other diagnoses, in-hospital mortality	Information	8,9%	3,9%	
	1	868 of 9.723	4 of 103	
Colorectal resections for colorectal cancer, share of cases with partial resection/destruction of the liver	Information	4,8%	6,5%	
	1	777 of 16.142	3 of 46	

Diseases of the stomach

Inpatient treatments for gastric cancer (PDX)	Quantity information	44,3 (25)	90	
	2	16.000		
Gastric, duodenal, and jejunal ulcers (PDX, without malignancy), in-hospital mortality	Observed value	5,7%	1,6%	
	1	1.101 of 19.463	1 of 63	
Gastric resections, all	Quantity information	32,5 (11)	252	
	2	9.945		
Gastric resection without esophageal resection for gastric cancer, in-hospital mortality	Observed value	5,6%	0,0%	
	1	116 of 2.072	0 of 9	

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Gastric resection combined with esophageal resection, in-hospital mortality	Observed value 1	17,7% 41 of 232	3,0% 1 of 33	
Partial and total gastric resection for other diagnoses, in-hospital mortality	Observed value 1	3,7% 280 of 7.641	0,5% 1 of 210	
Bariatric interventions				
Bariatric interventions, in-hospital mortality	Observed value 1	0,0561% 6 of 10.701	0,0% 0 of 155	
Major esophageal surgery				
Major esophageal surgery, in-hospital mortality	Observed value 1	8,1% 139 of 1.706	2,5% 1 of 40	
Major pancreatic surgery				
Pancreatic resections total (without transplantation), in-hospital mortality age > 19	Observed value 1	8,8% 426 of 4.827	0,9% 1 of 108	
Pancreatic resections for malign neoplasms of the pancreas, in-hospital mortality	Observed value 1	7,2% 200 of 2.793	0,0% 0 of 59	
Anatomical liver resection, in-hospital mortality age > 19	Observed value 1	7,1% 192 of 2.723	0,0% 0 of 29	

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Vascular Surgery				
Surgery of the carotid and brain arteries				
Extracranial artery surgery, in-hospital mortality	<1,09% 1	1,1% 100 of 9.073	0,0% 0 of 111	
Percutaneous stenting of extracranial arteries, in-hospital mortality	<2,2% 1	2,6% 60 of 2.325	0,7% 1 of 145	
Extracranial artery surgery combined with cardiac or aortic surgery or neoplasm of the ENT area, in-hospital mortality	Observed value 1	15,2% 237 of 1.557	8,5% 5 of 59	
Percutaneous intracranial interventions	Quantity information 2	90,2 (42) 13.897	202	
Aortic surgery				
Aortic surgery: all interventions	Quantity information 2	48,4 (27) 9.532	422	
Abdominal aortic repair	Quantity information 2	26,3 (23) 5.071	162	
Open abdominal aortic repair for aortic aneurysm, no rupture, in-hospital mortality	<7,6% 1	6,2% 46 of 740	6,6% 4 of 61	
Endovascular abdominal aortic repair for aortic aneurysm (EVAR), no rupture, in-hospital mortality	<1,4% 1	1,5% 44 of 2.906	1,6% 1 of 63	
Open abdominal aortic repair, no aneurysm, no rupture, in-hospital mortality	Observed value 1	8,7% 44 of 508	0,0% 0 of 11	
Endovascular abdominal aortic repair, no aneurysm, no rupture, in-hospital mortality	Observed value 1	6,7% 24 of 357	0,0% 0 of 4	
Thoracic aortic surgery, no aneurysm, no rupture, in-hospital mortality	Observed value 1	20,2% 68 of 337	18,2% 2 of 11	
Aortic aneurysms with rupture or dissection, in-hospital mortality	Information 1	42,2% 761 of 1.804	30,3% 20 of 66	
thereof ruptured with surgical intervention, in-hospital mortality	Information 1	32,6% 305 of 937	22,6% 12 of 53	

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Lower extremity arterial surgery				
Lower extremity arterial surgery, all, in-hospital mortality	Information 1	6,2% 1.717 of 27.918	6,3% 20 of 317	
thereof lower extremity bypass surgery for claudication (Fontaine I + II), in-hospital mortality	<0,33% 1	0,2376% 13 of 5.472	0,0% 0 of 34	
thereof lower extremity bypass surgery for rest pain (Fontaine III), in-hospital mortality	<2,3% 1	1,8% 40 of 2.163	0,0% 0 of 5	
thereof lower extremity bypass surgery for necrosis or gangrene (Fontaine IV), in-hospital mortality	<4,5% 1	3,9% 135 of 3.479	0,0% 0 of 26	
Percutaneous Transluminal Angioplasty (PTA, inpatient)				
Percutaneous transluminal angioplasty of abdominal and/or lower limb arteries (without aortic intervention), in-hospital mortality	Observed value 1	3,1% 1.770 of 57.458	3,2% 25 of 774	
thereof PTA of lower extremity arteries with lower extremity bypass surgery during the same stay	Quantity information 2	43,9 (37) 9.835	102	
Arteriovenous shunting				
Surgical creation of arteriovenous fistula	Quantity information 2	30,2 (18) 5.976	43	

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Obstetrics and Gynecology

Deliveries

Deliveries with inpatient mortality	<0,005% 1	0,005% 13 of 258.566	0,0% 0 of 1.999	
Vaginal delivery with third- or fourth-degree tears	<2,0% 1	1,9% 3.340 of 174.150	2,8% 29 of 1.042	
Vaginal delivery with episiotomy	Information 1	10,5% 18.240 of 174.150	10,3% 107 of 1.042	
Cesarean section rate	Information 1	32,6% 84.416 of 258.566	47,9% 957 of 1.999	
Cesarean section with low risk delivery	Information 1	27,1% 61.272 of 225.689	38,2% 557 of 1.460	
thereof Cesarean section with low risk delivery age < 35	Information 1	25,1% 41.933 of 167.210	37,0% 357 of 965	
thereof Cesarean section with low risk delivery age > 34	Information 1	33,1% 19.339 of 58.479	40,4% 200 of 495	

Newborns

Neonates below 1.250 g	Quantity information 2	24,8 (24) 2.475	68	
thereof neonates below 1.250 g, transfer from other hospital	Quantity information 2	5,4 (2) 201	n.a. <4	
thereof neonates below 500 g	Quantity information 2	3,7 (3) 265	4	
thereof neonates >=500 g and <750 g	Quantity information 2	7,4 (7) 587	17	
thereof neonates >=750 g and <1.000 g	Quantity information 2	9,7 (9) 770	20	
thereof neonates >=1.000 g and <1.250 g	Quantity information 2	9,2 (9) 853	27	
Neonates >=1.250 g and <1.500 g	Quantity information 2	11,6 (9) 1.195	49	
Neonates >=1.500 g and <2.500 g	Quantity information 2	73,6 (28) 16.113	366	
Neonates > 2.500 g (or no mention of weight)	Quantity information 2	1124,0 (863) 256.276	2.079	

Hysterectomy for benign diseases

Hysterectomy for benign diseases, in-hospital mortality	<0,04% 1	0,0731% 15 of 20.527	0,0% 0 of 205	
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	Source	Number of cases	Number of cases	SMR
Share of vaginal/laparoscopic hysterectomy without plastic surgeries	>88,4%	88,6%	93,2%	
	1	18.069 of 20.383	191 of 205	
Share of vaginal hysterectomy without plastic surgeries	Information	30,0%	5,4%	
	1	6.108 of 20.383	11 of 205	
Share of laparoscopic hysterectomy without plastic surgeries	Information	58,7%	87,8%	
	1	11.961 of 20.383	180 of 205	
Share of hysterectomy for benign diseases combined with oophorectomy excl. endometriosis	Information	6,5%	8,2%	
age < 50	1	444 of 6.799	5 of 61	
Share of hysterectomy for benign diseases combined with oophorectomy excl. endometriosis	Information	31,5%	47,5%	
age > 49	1	2.506 of 7.964	28 of 59	
Breast cancer and female genital cancer				
Breast cancer and female genital cancer (PDX)	Quantity information	197,6 (62)	640	
	2	74.481		
Inpatient cases for cancer of the ovaries (PDX)	Quantity information	29,7 (12)	117	
	2	9.543		
Cancer of the ovaries with oophorectomy, in-hospital mortality	Observed value	1,5%	0,0%	
	1	37 of 2.550	0 of 57	
Inpatient cases for cancer of the uterus (PDX)	Quantity information	49,4 (29)	164	
	2	15.355		
Cancer of the uterus with hysterectomy, in-hospital mortality	Observed value	0,75%	0,0%	
	1	45 of 5.973	0 of 88	
Inpatient cases for breast cancer (PDX)	Quantity information	124,8 (32)	284	
	2	45.185		
Interventions on the breast				
Breast surgery, all (lumpectomy, partial mastectomy and breast augmentation)	Quantity information	151,2 (108)	222	
	2	39.303		
Lumpectomy, partial mastectomy for cancer	Quantity information	135,6 (113)	152	
	2	29.027		
Share of breast conserving surgery in breast cancer	Information	72,4%	83,6%	
	1	21.021 of 29.027	127 of 152	

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Interventions on female pelvic floor				
Pelvic surgeries with and without plastic surgeries, total	Quantity information 2	61,3 (43) 17.175	94	

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Diseases of the Skeletal System				
Cancer of the skeletal system				
Cancer of the skeletal system (PDX)	Quantity information 2	42,4 (5) 14.286	192	
Endoprosthesis				
Hip replacement for coxarthrosis and chronic hip arthritis, in-hospital mortality	<0,13% 1	0,1393% 78 of 55.998	0,0% 0 of 61	
Hip replacement for hip fracture, in-hospital mortality	Observed value 1	5,8% 1.217 of 21.083	16,1% 5 of 31	
Hip replacement for other diagnoses, in-hospital mortality	Observed value 1	5,8% 371 of 6.372	3,3% 1 of 30	
Hip replacement for coxarthrosis and hip arthritis, share of cases with non-surgical complications	Observed value 1	2,4% 1.358 of 55.998	3,3% 2 of 61	
Hip revision surgery without fracture or infection, in-hospital mortality	<1,35% 1	1,21% 58 of 4.802	0% 0 of 29	
thereof hip revision surgery with special prosthesis, in-hospital mortality	Information 1	1,3% 12 of 935	n.a. <4	
Hip revision surgery for fracture or infection, in-hospital mortality	Observed value 1	4,7% 173 of 3.718	0,0% 0 of 44	
Knee replacement for gonarthrosis and chronic knee arthritis, in-hospital mortality	<0,06% 1	0,0605% 32 of 52.899	0,0% 0 of 33	
Knee replacement for other diagnoses, in-hospital mortality	Observed value 1	0,7376% 24 of 3.254	0,0% 0 of 15	
Knee replacement for gonarthrosis and knee arthritis, share of cases with non-surgical complications	Observed value 1	1,7% 905 of 52.899	3,0% 1 of 33	
Revision of knee replacement without fracture or infection, in-hospital mortality	<0,16% 1	0,3172% 14 of 4.413	0,0% 0 of 21	
thereof knee revision surgery with special prosthesis, in-hospital mortality	Information 1	0,1455% 2 of 1.375	0,0% 0 of 4	

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Revision of knee replacement for fracture or infection, in-hospital mortality	Observed value 1	3,1% 60 of 1.945	0,0% 0 of 35	
Hip or knee replacement for cancer, in-hospital mortality	Observed value 1	7,1% 160 of 2.244	3,7% 1 of 27	
Hip or knee replacement combined, in-hospital mortality	Observed value 1	2,0% 2 of 100	n.a. <4	
Hip fracture				
Femoral neck fracture with surgical treatment, in-hospital mortality age > 19	< Expected value 1	5,2% 1.212 of 23.337	13,2% 5 of 38	5,6% 2,37
Femoral neck fracture with endoprosthesis treatment, in-hospital mortality age > 19	Observed value 1	5,7% 1.180 of 20.617	17,2% 5 of 29	
Femoral neck fracture with osteosynthetic treatment, in-hospital mortality age > 19	Observed value 1	1,2% 32 of 2.720	0,0% 0 of 9	
Petrochanteric fracture with surgical treatment, in-hospital mortality age > 19	< Expected value 1	5,3% 1.020 of 19.295	0,0% 0 of 42	4,7% 0,00
Petrochanteric fracture with endoprosthesis treatment, in-hospital mortality age > 19	Observed value 1	7,6% 32 of 423	n.a. <4	
Petrochanteric fracture with osteosynthetic treatment, in-hospital mortality age > 19	Observed value 1	5,2% 988 of 18.872	0,0% 0 of 40	
Surgery of the spine and medulla				
Surgery of the spine and medulla except local interventions for pain management	Quantity information 2	300,2 (179) 108.384	1.140	
Spinal fusion or vertebral body replacement for cancer, in-hospital mortality	Observed value 1	8,0% 264 of 3.299	7,9% 3 of 38	
Spinal fusion or vertebral body replacement for trauma, in-hospital mortality	Observed value 1	3,9% 554 of 14.172	1,0% 2 of 193	
Surgery of the spine in case of discitis or osteomyelitis, in-hospital mortality	Observed value 1	8,6% 204 of 2.363	2,6% 1 of 39	

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Complex reconstructions of the spine (without cancer or trauma), in-hospital mortality	Observed value 1	1,3947% 10 of 717	0,0% 0 of 18	
Spinal fusion or vertebral body replacement, 1 level (without cancer, trauma, complex reconstr.), in-hospital mortality	Observed value 1	0,0709% 9 of 12.690	0,0% 0 of 75	
Spinal fusion or vertebral body replacement, 2 levels (without cancer, trauma, complex reconstr.), in-hospital mortality	Observed value 1	0,3454% 22 of 6.369	0,0% 0 of 26	
Spinal fusion or vertebral body replacement, 3 or more levels (without cancer, trauma, complex reconstr.), in-hospital mortality	Observed value 1	0,6663% 32 of 4.803	0,0% 0 of 21	
Decompression of the spinal column, in-hospital mortality	Observed value 1	0,0519% 11 of 21.178	0,0% 0 of 20	
Spinal discectomy (without cancer, Trauma, Decompression, complex reconstr.), in-hospital mortality	<0,03% 1	0,0251% 4 of 15.948	0,0% 0 of 118	
Vertebroplasty or kyphoplasty (without cancer, complex reconstr., discectomy, vertebral body replacement), in-hospital mortality	<0,53% 1	0,3975% 26 of 6.541	0,0% 0 of 64	
Other surgeries of the spine or medulla, in-hospital mortality	Observed value 1	1,8% 357 of 20.304	1,5% 8 of 528	
Spinal discectomy (without cancer, trauma, complex reconstr.), share of cases with non-surgical complications	Observed value 1	0,5518% 88 of 15.948	0,8475% 1 of 118	
Local spinal interventions for pain management (without other spinal surgery)	Quantity information 2	80,3 (35) 27.216	56	
Treatment of spinal diseases (PDX) without spinal surgery or local interventions	Quantity information 2	123,5 (103) 50.008	210	
Surgery on the musculoskeletal system including endoprosthetics				
Endoprosthesis of the shoulder/elbow joint	Quantity information 2	31,1 (23) 11.199	69	

G-IQI / CH-IQI 5.4 as of: 15.04.2024

Year:

2022

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
Polytrauma				
Polytrauma (according to DRG-definition)	Quantity information 2	21,2 (7) 7.351	274	

G-IQI / CH-IQI 5.4 as of: 15.04.2024

Year:

2022

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Effective value Number of cases	Hospital Expected value SMR
Urology				
Nephrectomy				
Radical nephrectomy, in-hospital mortality	<1,8% 1	1,7% 56 of 3.390	3,3% 1 of 30	
Radical nephrectomy, share of laparoscopic procedures	Information 1	41,9% 1.422 of 3.390	16,7% 5 of 30	
Partial nephrectomy, in-hospital mortality	<0,35% 1	0,1308% 4 of 3.059	0,0% 0 of 15	
Partial nephrectomy, share of laparoscopic procedures	Information 1	52,8% 1.616 of 3.059	33,3% 5 of 15	
Share of partial nephrectomies in cancer procedures	Information 1	47,4% 3.059 of 6.449	33,3% 15 of 45	
Radical nephrectomy for other diagnosis, in-hospital mortality	Observed value 1	3,6% 74 of 2.046	0,0% 0 of 12	
Partial nephrectomy for other diagnosis, in-hospital mortality	Observed value 1	0,8101% 9 of 1.111	0,0% 0 of 9	
Bladder surgery				
Inpatient cases for bladder cancer (PDX)	Quantity information 2	129,8 (40) 41.790	340	
Transurethral resections (TUR) at the bladder (all)	Quantity information 2	201,8 (197) 42.790	203	
thereof transurethral resections for bladder cancer	Quantity information 2	160,6 (147) 30.031	163	
Share of cancer TUR with intravesical instillation chemotherapy	Observed value 1	18,8% 5.650 of 30.031	14,1% 23 of 163	
Cystectomy, in-hospital mortality	<4,8% 1	4,4% 128 of 2.903	1,4% 1 of 71	
Pelvic evisceration (men or women), in-hospital mortality	Observed value 1	5,7% 31 of 547	0,0% 0 of 5	

G-IQI / CH-IQI 5.4 as of: 15.04.2024

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Effective value Number of cases	Hospital Expected value SMR
Transurethral resection of the prostate (TURP)				
Transurethral resection of the prostate (TURP), in-hospital mortality	<0,2% 1	0,2218% 51 of 22.995	0,0% 0 of 102	
Transurethral resection of the prostate (TURP) for malignant diseases, in-hospital mortality	Observed value 1	0,657% 43 of 6.545	0,0% 0 of 18	
Transurethral resection of the prostate (TURP), share of cases with non-surgical complications	Observed value 1	3,5% 1.040 of 29.540	3,3% 4 of 120	
Inpatient cases for prostate cancer (PDX)	Quantity information 2	92,6 (20) 32.401	292	
Prostatectomy, in-hospital mortality	<0,16% 1	0,1395% 16 of 11.470	0,0% 0 of 45	
Kidney stones				
Inpatient cases for kidney stones (PDX)	Quantity information 2	185,6 (36) 68.659	503	
Share of cases with interventions for stone removal	Information 1	53,6% 36.818 of 68.659	58,4% 294 of 503	

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IQM Quality indicators

IQM Target value Source	IQM Average value Number of cases	Hospital Effective value Number of cases	Hospital Expected value SMR
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Diseases of the Skin

Diseases of the skin

Inpatient treatment for melanoma (PDX)	Quantity information 2	44,9 (4) 12.441	152	
Inpatient treatment for dermatitis and eczema (PDX)	Quantity information 2	31,3 (5) 10.671	109	
Inpatient treatment for psoriasis (PDX)	Quantity information 2	28,4 (2) 4.255	25	

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IQM Quality indicators	IQM Target value	IQM Average value	Hospital Effective value	Hospital Expected value
	Source	Number of cases	Number of cases	SMR

Intensive Care

Intensive care

Mechanical ventilation for > 24 hours (without neonates), in-hospital mortality	Observed value 1	37,2% 34.176 of 91.971	25,7% 247 of 960	
ECLS/ECMO - Heart / Cardiopulmonary support	Quantity information 2	28,4 (14) 2.385	192	
ECMO - Lung support	Quantity information 2	18,0 (5) 2.072	27	
Mechanical ventilation for > 24 hours (without neonates and COVID-19), in-hospital mortality	<35,9% 1	36,4% 28.652 of 78.807	26,6% 220 of 826	
Sepsis (PDX), in-hospital mortality	< Expected value 1	34,0% 9.552 of 28.070	13,6% 83 of 612	31,6% 0,43
thereof Sepsis with organ dysfunction or shock (PDX), in-hospital mortality	Observed value 1	36,8% 9.099 of 24.733	15,8% 79 of 500	
thereof Sepsis without organ dysfunction or shock (PDX), in-hospital mortality	Observed value 1	13,6% 453 of 3.337	3,6% 4 of 112	
Sepsis (as secondary diagnosis), in-hospital mortality	Observed value 1	40,7% 25.779 of 63.283	26,7% 88 of 329	
thereof Sepsis with organ dysfunction or shock (as secondary diagnosis), in-hospital mortality	Observed value 1	42,3% 25.171 of 59.484	30,9% 85 of 275	
Generalized whole-body inflammatory response without organ dysfunction (SIRS), in-hospital mortality	Information 1	8,8% 3.631 of 41.083	0,0% 0 of 27	

Congenital coagulation disorder

Patients with congenital coagulation disorders	Quantity information 2	29,6 (15) 11.813	234	
thereof surgical patients (with congenital coagulation disorders)	Quantity information 2	19,7 (10) 7.505	170	

Autopsy rate

Autopsy rate	Information 1	0,81% 1.405 of 173.680	0,0% 0 of 988	
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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Effective value Number of cases	Hospital Expected value SMR
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Highly Specialised Medical Care

Transplantations

thereof heart transplantation	Quantity information 2	27,4 (19) 219	8	
Liver transplantation, all	Quantity information 2	44,2 (46) 354	37	
Kidney transplantation, all	Quantity information 2	47,6 (42) 952	52	
Transplantation or transfusion of hematopoietic stem cells, all	Quantity information 2	78,2 (55) 3.518	126	
Transfusion of peripheral blood stem cells	Quantity information 2	78,3 (57) 3.368	126	
thereof transfusion of peripheral blood stem cells, autologous	Quantity information 2	45,9 (39) 1.974	126	

Hyperthermic chemotherapy

Hyperthermic intraperitoneal chemotherapy	Quantity information 2	7,3 (4) 440	4	
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Year:

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Effective value Number of cases	Hospital Expected value SMR
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Palliative Care

Palliative care

Palliative care complex treatment	Quantity information 2	182,6 (120) 42.178	288	
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Year:

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IQM Quality indicators

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

Robot Assisted Interventions

Robot assisted interventions

	Quantity information	126,1 (98)	32	
Urological interventions using robotic surgery	2	10.091		

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2022

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IQM Quality indicators	IQM Target value Source	IQM Average value Number of cases	Hospital Effective value Number of cases	Hospital Expected value SMR
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COVID-19 Key Figures

COVID-19 key figures

Proportion of patients with testing for COVID-19	Information 1	89,7% 5.418.059 of 6.040.148	21,1% 10.516 of 49.765	
Proportion of patients with virus detection based on all tested patients	Information 1	5,6% 304.475 of 5.418.059	21,7% 2.280 of 10.516	
Proportion of patients with COVID-19 virus detection based on all patients	Information 1	5,0% 304.475 of 6.040.149	4,6% 2.280 of 49.765	
COVID-19 - Proportion of patients without virus detection	Information 1	0,4% 22.953 of 6.040.149	0,0% 10 of 49.765	
COVID-19 - Patients with virus detection and severe respiratory disease	Information 1	26,8% 81.684 of 304.475	24,3% 553 of 2.280	
COVID-19 - Patients with virus detection and selected previous illnesses	Information 1	71,9% 219.032 of 304.475	66,6% 1.519 of 2.280	
COVID-19 - mortality with Virus detection	Information 1	8,2% 24.947 of 304.475	4,4% 101 of 2.280	

Manual for IQM quality indicators

Reading example

For the following indicator "Deaths with main diagnosis of myocardial infarction (all patients > 19 years of age)", the average hospital mortality rate in Germany is 8.2% (source: German Federal Statistical Office). Based on the age and gender of the patients in the evaluated year, this results in the following expected hospital mortality rate of 7.7% **4** for the hospital as expected value. The goal of the IQM member hospitals is to be below this expected value in the result **1**. The actual value measured for the example hospital was 11.5% **3** this year and was thus above the hospital's expected value for the quality indicator "deaths with main diagnosis of myocardial infarction". The average value of all IQM member hospitals for this indicator is 7.6% **2**.

G-IQI / CH-IQI 5.4 as of: 15.04.2024		Year:		2023	
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	2	3	4	
	< Expected value	7,6%	11,5%	7,7%	
	1	5.744 of 75.253	165 of 1.436	1,50	

The indicators

The German/Swiss Inpatient Quality Indicators (G-IQI/CH-IQI) used by IQM are selected to represent common frequently occurring and important disease patterns as well as important procedures. All indicators are derived from the hospital's routine data without additional documentation, which means that no further documentation effort is required.

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 old 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 difference 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 analysed 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.

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

1. Research data center of the Federal and State Statistical Offices, DRG-Statistics 2022. Own calculations. These data also form the basis for the calculation of the hospital-specific expected values standardised by age and gender.
2. Same source as 1; the quantity indicators are the mean number of cases (in brackets: the median) in relation to those IQM member hospitals that provided the service in 2022.
3. The target value here is not identical with the federal value and was 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 the median.

Hospital Expected Value:

The expected value includes the expected mortality of our patients according to age and gender distribution and is only indicated with comparative figures of the national average that allow the calculation.

SMR:

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

Note regarding the indicator “Autopsy rate“:

The number of reported autopsies may not be fully reported by hospitals, as complete coding after release from hospital is not supported by all information systems in use.

Case numbers:

As in the previous year 2023, the results are presented taking into account a minimum denominator case number. This means that the results of a key figure are only shown in detail if at least 4 or more cases have occurred in the denominator. If this limit is not reached, the figure "<4" is shown.

Results relating to very rare events are shown with up to 4 decimal places in order to be able to show a result between 0 and 1 for high populations.