

# Quality results

Kliniken des Landkreises Karlsruhe Fürst-Stirum-Klinik Bruchsal



G-IQI / CH-IQI 5.4 As of: 15.04.2023

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

The regular analyses of the performance of IQM member hospitals during the COVID-19 pandemic have shown that the number of cases changed, in some cases significantly, during the course of the pandemic. At the same time, this also affects the use of the reference values as a guide, as these originate from an older data year and thus contain patient populations that may not be directly comparable. Therefore, the IQM Executive Board 2020 decided not to show any target values for the IQM results within the publication of results for the past two years.

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 (without 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 in each case.

### 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.

### Presentation of small case numbers

For the first time, the presentation of results takes into account a minimum denominator number of cases. Thus, results of a key figure are only presented in detail if at least 4 or more cases occurred in the denominator. If the number is below this limit, "<4" is then shown. Results that refer 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.

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| IQM Quality indicators | IQM Target value       | IQM Average value               | Hospital Effective value        | Hospital Expected value |
|------------------------|------------------------|---------------------------------|---------------------------------|-------------------------|
|                        | <a href="#">Source</a> | <a href="#">Number of cases</a> | <a href="#">Number of cases</a> | <a href="#">SMR</a>     |

## Diseases of the Heart

### Acute Myocardial Infarction (AMI)

|   |                       |                           |                     |              |
|---|-----------------------|---------------------------|---------------------|--------------|
| Acute Myocardial Infarction, in-hospital mortality, observed<br>age > 19                        | < Expected value<br>1 | 7,9%<br>6.267 of 79.312   | 7,7%<br>27 of 350   | 8,0%<br>0,96 |
| Share of AMI with left heart catheter   | Information<br>1      | 84,5%<br>67.058 of 79.312 | 90,3%<br>316 of 350 |              |
| Principle diagnosis AMI, direct admissions without transfers, in-hospital mortality<br>age > 19 | Observed value<br>1   | 7,8%<br>5.600 of 71.443   | 7,7%<br>27 of 350   |              |
| Share of AMI, transmural (STEMI)  | Information<br>1      | 33,8%<br>26.761 of 79.222 | 28,1%<br>98 of 349  |              |
| AMI, transmural, in-hospital mortality  | < Expected value<br>1 | 11,8%<br>3.162 of 26.761  | 8,2%<br>8 of 98     | 11,7%        |
| AMI nontransmural / NSTEMI, in-hospital mortality   | < Expected value<br>1 | 5,4%<br>2.808 of 51.693   | 7,6%<br>19 of 251   | 5,5%         |
| Secondary diagnosis AMI, in-hospital mortality<br>age > 19                                      | Observed value<br>1   | 19,8%<br>4.501 of 22.767  | 13,6%<br>12 of 88   |              |

### Heart Failure

|  |                       |                            |                    |              |
|--|-----------------------|----------------------------|--------------------|--------------|
| Principle diagnosis heart failure, in-hospital mortality, observed<br>age > 19 | < Expected value<br>1 | 8,5%<br>14.971 of 175.214  | 11,4%<br>53 of 463 | 8,7%<br>1,32 |
| Left-sided heart failure, share coded as NYHA IV                               | Information<br>1      | 49,6%<br>57.589 of 116.188 | 48,6%<br>87 of 179 |              |

### Cases with left heart catheterization

|  |                           |                          |                   |              |
|--|---------------------------|--------------------------|-------------------|--------------|
| Cases with coronary catheterization<br>age > 19  | Quantity information<br>2 | 809,9 (666)<br>294.817   | 730               |              |
| Coronary catheterization for infarction, without open heart procedure, in-hospital mortality observed (referred to patients with AMI and left heart catheterization)<br>age > 19 | < Expected value<br>1     | 6,3%<br>4.154 of 65.631  | 6,3%<br>20 of 316 | 6,0%<br>1,06 |
| Diagnostic coronary catheterization without PDX of AMI, without open heart procedure, in-hospital mortality<br>age > 19  | <1,4%<br>1                | 1,7%<br>2.301 of 136.270 | 3,1%<br>9 of 287  |              |
| Therapeutic coronary catheterization without PDX of AMI, without open heart procedure, in-hospital mortality<br>age > 19   | Observed value<br>1       | 1,9%<br>1.492 of 78.965  | 4,7%<br>6 of 127  |              |

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|--|---|---|--|--|
| Share of therapeutic coronary catheterization without PDX of AMI, without open heart procedure<br>age > 19 | Information<br>1                              | 36,7%<br>78.965 of 215.235                              | 30,7%<br>127 of 414  |  |
| <b>Cardiac arrhythmia</b>  |   |   |  |  |
| Patients with cardiac arrhythmia as principal diagnosis  | Quantity information<br>2                     | 432,4 (284)<br>183.778                                  | 430  |  |
| <b>Implantation of pacemaker/defibrillator</b>   |   |   |  |  |
| Implantation of pacemaker/defibrillator  | Quantity information<br>2                     | 145,3 (102)<br>52.587                                   | 128  |  |
| thereof implantation or exchange of defibrillator  | Quantity information<br>2                     | 51,5 (34)<br>14.330                                     | 16   |  |

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|------------------------|---------------------------------|---------------------------------|-------------------------|
| <a href="#">Source</a> | <a href="#">Number of cases</a> | <a href="#">Number of cases</a> | <a href="#">SMR</a>     |

## 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 (7) | n.a. |  |
|  | 2                    | 9.534    | <4   |  |

### Stroke, all types by age groups

|   |                |                   |           |  |
|---|----------------|-------------------|-----------|--|
| Stroke (PDX), all types, in-hospital mortality observed | Observed value | 10,6%             | 5,4%      |  |
| age > 19  | 1              | 11.887 of 112.387 | 24 of 444 |  |

### Stroke, by type of stroke

|  |                |                 |           |  |
|--|----------------|-----------------|-----------|--|
| Cerebral infarction (ICD I63), in-hospital mortality, observed | Observed value | 7,9%            | 4,9%      |  |
| age > 19   | 1              | 7.632 of 96.515 | 20 of 409 |  |

|   |             |                  |           |  |
|---|-------------|------------------|-----------|--|
| Share of cerebral infarction with systemic thrombolysis | Information | 15,8%            | 14,4%     |  |
|   | 1           | 15.275 of 96.515 | 59 of 409 |  |

|   |                |                 |         |  |
|---|----------------|-----------------|---------|--|
| Cerebral infarction with systemic thrombolysis, in-hospital mortality | Observed value | 7,7%            | 5,1%    |  |
|   | 1              | 1.181 of 15.275 | 3 of 59 |  |

|  |             |                 |          |  |
|--|-------------|-----------------|----------|--|
| Share of cerebral infarction with thrombectomy | Information | 9,8%            | 0,0%     |  |
|  | 1           | 9.469 of 96.515 | 0 of 409 |  |

|  |                |                 |           |  |
|--|----------------|-----------------|-----------|--|
| Cerebral infarction (ICD I63), percentage with pneumonia | Observed value | 10,0%           | 6,8%      |  |
| age > 19   | 1              | 9.655 of 96.515 | 28 of 409 |  |

|   |                |                |          |  |
|---|----------------|----------------|----------|--|
| Cerebral infarction (ICD I63) with pneumonia, in-hospital mortality | Observed value | 31,2%          | 39,3%    |  |
| age > 19  | 1              | 3.008 of 9.655 | 11 of 28 |  |

### Haemorrhage

|  |                |                 |         |  |
|--|----------------|-----------------|---------|--|
| Intracerebral haemorrhage (ICD I61), in-hospital mortality | Observed value | 29,4%           | 10,0%   |  |
| age > 19   | 1              | 3.508 of 11.918 | 3 of 30 |  |

|   |                |              |        |  |
|---|----------------|--------------|--------|--|
| Subarachnoid haemorrhage (ICD I60), in-hospital mortality | Observed value | 19,5%        | 20,0%  |  |
| age > 19  | 1              | 716 of 3.675 | 1 of 5 |  |

|                                       |        |                |          |  |
|---------------------------------------|--------|----------------|----------|--|
| Share of unspecified stroke (ICD I64) | <0,55% | 0,25%          | 0,0%     |  |
| age > 19                              | 1      | 279 of 112.387 | 0 of 444 |  |

|  |                |               |          |  |
|--|----------------|---------------|----------|--|
| Transient cerebral ischaemic attack, in-hospital mortality | Observed value | 0,3604%       | 0,6944%  |  |
|  | 1              | 130 of 36.068 | 1 of 144 |  |

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|---|---|---|--|--|
| <b>Stroke unit treatment</b>  |   |   |  |  |
| Treatment cases with neurological or other complex treatment  | Quantity information<br>2                     | 453,5 (426)<br>105.658                                  | 372  |  |
| Cerebral infarctions with neurological or other complex treatment   | Information<br>1                              | 73,7%<br>71.138 of 96.515                               | 67,0%<br>274 of 409  |  |
| TIA with neurological or other complex treatment  | Information<br>1                              | 66,8%<br>24.102 of 36.068                               | 50,7%<br>73 of 144   |  |
| Cerebral infarction or TIA with neurological or other complex treatment without additional transfers (based on the stroke registry) | Information<br>1                              | 73,1%<br>91.428 of 125.014                              | 63,8%<br>346 of 542  |  |
| Cerebral infarction or TIA with neurological or other complex treatment only additional transfers (based on the stroke registry)    | Information<br>1                              | 50,4%<br>3.812 of 7.569                                 | 9,1%<br>1 of 11  |  |
| <b>Epilepsy</b>   |   |   |  |  |
| Inpatient treatment for epilepsy (PDX)<br>age > 19  | Quantity information<br>2                     | 106,4 (27)<br>42.137                                    | 156  |  |
| Inpatient treatment for epilepsy (PDX)<br>age < 20  | Quantity information<br>2                     | 51,5 (16)<br>11.649                                     | n.a.   | <4   |
| <b>Multiple sclerosis</b>   |   |   |  |  |
| Inpatient treatment for multiple sclerosis (PDX)  | Quantity information<br>2                     | 38,9 (26)<br>10.120                                     | 11   |  |

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|--|--|---|--|
|--|--|---|--|

## Geriatric medicine

### Early geriatric rehabilitation

| Patients with early geriatric rehabilitation | Quantity information<br>2 | 408,8 (336)<br>106.708 | n.a.<br><4 |
|--|---------------------------|------------------------|------------|
|--|---------------------------|------------------------|------------|

### Malnutrition of elderly patients

| Malnourished patients, age > 65, without tumor diseases | Information<br>1 | 0,92%<br>23.470 of 2.546.804 | 0,54%<br>39 of 7.228 |
|---|------------------|------------------------------|----------------------|
| Patients fed by tube/infusion                           | Information<br>1 | 2,1%<br>498 of 23.470        | 2,6%<br>1 of 39      |

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|---|---|---|--|--|
| <b>Diseases of the Lung</b>   |   |   |  |  |
| <b>Pneumonia</b>  |   |   |  |  |
| Pneumonia (PDX), in-hospital mortality, observed<br>All age groups  | < Expected value<br>1                         | 15,3%<br>22.071 of 144.452                              | 18,6%<br>85 of 456   | 18,1%  |
| Pneumonia excluding admission transfers,<br>neoplasms, cystic fibrosis, (CAP), in-hospital<br>mortality, observed<br>age > 19 | < Expected value<br>1                         | 14,1%<br>12.497 of 88.725                               | 18,4%<br>52 of 283   | 15,8%  |
| Pneumonia excluding admission transfers,<br>neoplasms, cystic fibrosis, COVID-19, in-hospital<br>mortality<br>age > 19        | < Expected value<br>1                         | 10,9%<br>5.983 of 54.716                                | 16,1%<br>24 of 149   | 10,9%<br>1,48  |
| Pneumonia with inhalation of food or stomach<br>contents, in-hospital mortality   | Observed value<br>1                           | 29,9%<br>3.968 of 13.277                                | 18,5%<br>12 of 65  |  |
| Bronchitis/bronchiolitis excluding admission<br>transfers, tumor, cystic fibrosis, in-hospital<br>mortality<br>age > 19       | < Expected value<br>1                         | 2,2%<br>246 of 11.334                                   | 0,0%<br>0 of 10  | 2,1%   |
| <b>Chronic obstructive pulmonary disease (COPD)</b>   |   |   |  |  |
| Chronic obstructive pulmonary disease (COPD<br>without malignancy), in-hospital mortality<br>age > 19                         | < Expected value<br>1                         | 5,4%<br>3.488 of 65.129                                 | 10,3%<br>15 of 146   | 4,5%<br>2,30   |
| <b>Malignant neoplasm of bronchus and lung</b>  |   |   |  |  |
| Inpatient treatment for malignant neoplasm of<br>bronchus and lung (PDX)  | Quantity information<br>2                     | 174,9 (47)<br>71.536                                    | 43   |  |



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|---|--|--|---|--|
| <b>Diseases of the visceral organs</b>  |  |  |   |  |
| <b>Cholecystectomy</b>  |  |  |   |  |
| Cholecystectomy for gallstones (without malignancies), share of laparoscopic removals     | >94,6%<br>1                                | 95,1%<br>52.517 of 55.228                            | 97,7%<br>251 of 257   |  |
| Cholecystectomy for gallstones (without malignancies), rate of conversion to open surgery | Observed value<br>1                        | 2,9%<br>1.616 of 55.228                              | 2,3%<br>6 of 257  |  |
| Cholecystectomy for gallstones (without malignancies), in-hospital mortality              | <0,55%<br>1                                | 0,574%<br>317 of 55.228                              | 0,3891%<br>1 of 257   |  |
| <b>Repair of femoral, inguinal and umbilical hernia</b>                                   |  |  |   |  |
| Hernia repair without bowel resection, in-hospital mortality                              | <0,12%<br>1                                | 0,1244%<br>90 of 72.334                              | 0,0%<br>0 of 285  |  |
| Hernia repair with bowel resection, in-hospital mortality                                 | Observed value<br>1                        | 2,4%<br>167 of 7.056                                 | 0,0%<br>0 of 24   |  |
| Repair of inguinal hernia, share of operations with alloplastic material<br>age > 19      | Information<br>1                           | 98,2%<br>49.235 of 50.160                            | 98,5%<br>203 of 206   |  |
| <b>Thyroidectomy</b>  |  |  |   |  |
| Thyroidectomies   | Quantity information<br>2                  | 55,4 (21)<br>18.240                                  | 11  |  |
| thereof thyroidectomies for thyroid cancer  | Quantity information<br>2                  | 10,9 (4)<br>2.565                                    | n.a.  | <4   |
| thereof thyroidectomies for benign diseases   | Quantity information<br>2                  | 47,4 (20)<br>14.702                                  | 9   |  |
| Thyroidectomy, share of patients with mechanical ventilation > 24 hours                   | Information<br>1                           | 0,53%<br>91 of 17.237                                | 0,0%<br>0 of 10   |  |
| <b>Diseases of the large bowel and rectum</b>   |  |  |   |  |
| Inpatient treatments for colorectal cancer (PDX)  | Quantity information<br>2                  | 121,9 (81)<br>50.116                                 | 152   |  |
| Inpatient treatments for ulcerative colitis or Crohn's disease (PDX + SDX)                | Quantity information<br>2                  | 88,8 (57)<br>39.497                                  | 70  |  |
| All colorectal resections, in-hospital mortality  | Observed value<br>1                        | 8,0%<br>3.136 of 39.173                              | 9,1%<br>12 of 132   |  |

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|--|---------------------|-------------------------|--------------------------|-------------------------|
|  | Source              | Number of cases         | Number of cases          | SMR                     |
| thereof colon resection for colorectal cancer without complicating diagnosis, in-hospital mortality                | <3,9%<br>1          | 4,0%<br>393 of 9.719    | 3,1%<br>1 of 32          |                         |
| thereof colon resection for colorectal cancer with complicating diagnosis, in-hospital mortality                   | Observed value<br>1 | 11,4%<br>329 of 2.896   | 18,8%<br>3 of 16         |                         |
| thereof rectal resection for colorectal cancer, in-hospital mortality  | <3,1%<br>1          | 2,7%<br>122 of 4.566    | 0,0%<br>0 of 23          |                         |
| thereof colon resection surgery for diverticulitis without diverticular perforation/abscess, in-hospital mortality | <1,0%<br>1          | 0,43 %<br>9 of 2.103    | n.a.<br><4               |                         |
| thereof colon resection surgery for diverticulitis with diverticular perforation/abscess, in-hospital mortality    | Observed value<br>1 | 5,4%<br>281 of 5.220    | 12,0%<br>3 of 25         |                         |
| thereof colorectal resection for colonic ischemia, in-hospital mortality   | Information<br>1    | 44,8%<br>1.018 of 2.274 | 33,3%<br>3 of 9          |                         |
| thereof colorectal resection for ulcerative colitis or Crohn's disease, in-hospital mortality                      | Observed value<br>1 | 2,9%<br>59 of 2.019     | n.a.<br><4               |                         |
| thereof colorectal resection for other diagnoses, in-hospital mortality  | Information<br>1    | 8,9%<br>925 of 10.376   | 9,5%<br>2 of 21          |                         |
| Colorectal resections for colorectal cancer, share of cases with partial resection/destruction of the liver        | Information<br>1    | 4,8%<br>826 of 17.181   | 1,4%<br>1 of 71          |                         |

#### Diseases of the stomach

|  |                           |                         |                 |  |
|--|---------------------------|-------------------------|-----------------|--|
| Inpatient treatments for gastric cancer (PDX)  | Quantity information<br>2 | 43,0 (24)<br>16.824     | 32              |  |
| Gastric, duodenal, and jejunal ulcers (PDX, without malignancy), in-hospital mortality   | Observed value<br>1       | 5,5%<br>1.148 of 20.709 | 6,8%<br>4 of 59 |  |
| Gastric resections, all  | Quantity information<br>2 | 31,6 (11)<br>10.380     | 24              |  |
| Gastric resection without esophageal resection for gastric cancer, in-hospital mortality | Observed value<br>1       | 5,6%<br>123 of 2.189    | 0,0%<br>0 of 7  |  |

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|---|---|---|--|--|
| Partial and total gastric resection for other diagnoses, in-hospital mortality                | Observed value<br>1                           | 3,7%<br>296 of 7.947                                    | 0,0%<br>0 of 17  |  |
| <b>Bariatric interventions</b>  |   |   |  |  |
| Bariatric interventions, in-hospital mortality  | Observed value<br>1                           | 0,0631%<br>7 of 11.099                                  | 0,0%<br>0 of 19  |  |
| <b>Major pancreatic surgery</b>   |   |   |  |  |
| Pancreatic resections total (without transplantation), in-hospital mortality<br>age > 19      | Observed value<br>1                           | 9,0%<br>461 of 5.105                                    | 0,0%<br>0 of 8   |  |
| Pancreatic resections for malign neoplasms of the pancreas, in-hospital mortality<br>age > 19 | Observed value<br>1                           | 7,4%<br>220 of 2.957                                    | n.a.<br><4   |  |
| Anatomical liver resection, in-hospital mortality<br>age > 19                                 | Observed value<br>1                           | 7,0%<br>203 of 2.895                                    | n.a.<br><4   |  |

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|--|---|---|--|--|
| <b>Vascular surgery</b>  |   |   |  |  |
| <b>Surgery of the carotid and brain arteries</b>   |   |   |  |  |
| Extracranial artery surgery, in-hospital mortality   | <0,98%<br>1                                   | 1,09%<br>102 of 9.322                                   | 2,04%<br>1 of 49   |  |
| Percutaneous stenting of extracranial arteries, in-hospital mortality  | <1,9%<br>1                                    | 2,8%<br>69 of 2.492                                     | n.a.<br><4   |  |
| Extracranial artery surgery combined with cardiac or aortic surgery or neoplasm of the ENT area, in-hospital mortality | Observed value<br>1                           | 14,6%<br>246 of 1.680                                   | n.a.<br><4   |  |
| Percutaneous intracranial interventions  | Quantity information<br>2                     | 95,4 (43)<br>15.168                                     | n.a.<br><4   |  |
| <b>Aortic surgery</b>  |   |   |  |  |
| Aortic surgery: all interventions  | Quantity information<br>2                     | 49,9 (28)<br>10.380                                     | 15   |  |
| Abdominal aortic repair  | Quantity information<br>2                     | 26,4 (23)<br>5.377                                      | 15   |  |
| Open abdominal aortic repair for aortic aneurysm, no rupture, in-hospital mortality                                    | <6,3%<br>1                                    | 6,5%<br>50 of 771                                       | 20,0%<br>1 of 5  |  |
| Endovascular abdominal aortic repair for aortic aneurysm (EVAR), no rupture, in-hospital mortality                     | <1,3%<br>1                                    | 1,4%<br>44 of 3.133                                     | 0,0%<br>0 of 6   |  |
| Open abdominal aortic repair, no aneurysm, no rupture, in-hospital mortality   | Observed value<br>1                           | 9,3%<br>46 of 496                                       | n.a.<br><4   |  |
| Endovascular abdominal aortic repair, no aneurysm, no rupture, in-hospital mortality                                   | Observed value<br>1                           | 6,7%<br>26 of 389                                       | n.a.<br><4   |  |
| Aortic aneurysms with rupture or dissection, in-hospital mortality   | Information<br>1                              | 41,8%<br>814 of 1.949                                   | n.a.<br><4   |  |
| thereof ruptured with surgical intervention, in-hospital mortality   | Information<br>1                              | 32,3%<br>327 of 1.013                                   | n.a.<br><4   |  |
| <b>Lower extremity arterial surgery</b>  |   |   |  |  |
| Lower extremity arterial surgery, all, in-hospital mortality   | Information<br>1                              | 6,3%<br>1.838 of 29.299                                 | 5,8%<br>8 of 138   |  |

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| IQM Quality indicators   | IQM Target value<br><a href="#">Source</a> | IQM Average value<br><a href="#">Number of cases</a> | Hospital Effective value<br><a href="#">Number of cases</a> | Hospital Expected value<br><a href="#">SMR</a> |
|--|--|--|---|--|
| thereof lower extremity bypass surgery for claudication (Fontaine I + II), in-hospital mortality                                   | <0,5%<br>1                                 | 0,2322%<br>13 of 5.598                               | 0,0%<br>0 of 28   |  |
| thereof lower extremity bypass surgery for rest pain (Fontaine III), in-hospital mortality   | <2,3%<br>1                                 | 1,9%<br>43 of 2.278                                  | 0,0%<br>0 of 9  |  |
| thereof lower extremity bypass surgery for necrosis or gangrene (Fontaine IV), in-hospital mortality                               | <4,4%<br>1                                 | 4,0%<br>143 of 3.603                                 | 0,0%<br>0 of 14   |  |
| <b>Percutaneous Transluminal Angioplasty (PTA, inpatient)</b>  |  |  |   |  |
| Percutaneous transluminal angioplasty of abdominal and/or lower limb arteries (without aortic intervention), in-hospital mortality | Observed value<br>1                        | 3,1%<br>1.866 of 60.424                              | 2,9%<br>6 of 210  |  |
| thereof PTA of lower extremity arteries with lower extremity bypass surgery during the same stay                                   | Quantity information<br>2                  | 43,2 (36)<br>10.332                                  | 35  |  |
| <b>Arteriovenous shunting</b>  |  |  |   |  |
| Surgical creation of arteriovenous fistula   | Quantity information<br>2                  | 33,1 (18)<br>6.909                                   | 80  |  |

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|------------------------|------------------------|---------------------------------|---------------------------------|-------------------------|
|                        | <a href="#">Source</a> | <a href="#">Number of cases</a> | <a href="#">Number of cases</a> | <a href="#">SMR</a>     |

## Obstetrics and Gynecology

### Deliveries

|   |                  |                            |                       |  |
|---|------------------|----------------------------|-----------------------|--|
| Deliveries with inpatient mortality                               | <0,004%<br>1     | 0,0054%<br>15 of 277.978   | 0,0%<br>0 of 1.059    |  |
| Vaginal delivery with third- or fourth-degree tears               | <1,9%<br>1       | 1,9%<br>3.598 of 187.763   | 1,1%<br>8 of 739      |  |
| Vaginal delivery with episiotomy                                  | Information<br>1 | 10,4%<br>19.514 of 187.763 | 15,2%<br>112 of 739   |  |
| Cesarean section rate   | Information<br>1 | 32,5%<br>90.215 of 277.978 | 30,2%<br>320 of 1.059 |  |
| Cesarean section with Misgav-Ladach technique (% of all sections) | Information<br>1 | 77,9%<br>70.293 of 90.215  | 89,4%<br>286 of 320   |  |
| Cesarean section with low risk delivery                           | Information<br>1 | 27,0%<br>65.531 of 242.862 | 27,5%<br>276 of 1.005 |  |
| thereof Cesarean section with low risk delivery age < 35          | Information<br>1 | 24,9%<br>44.848 of 179.848 | 26,7%<br>204 of 763   |  |
| thereof Cesarean section with low risk delivery age > 34          | Information<br>1 | 32,8%<br>20.683 of 63.014  | 29,8%<br>72 of 242    |  |

### Newborns

|  |                           |                         |       |  |
|--|---------------------------|-------------------------|-------|--|
| Neonates >=1.500 g and <2.500 g              | Quantity information<br>2 | 72,7 (26)<br>17.153     | 14    |  |
| Neonates > 2.500 g (or no mention of weight) | Quantity information<br>2 | 1117,3 (875)<br>275.970 | 1.041 |  |

### Hysterectomy for benign diseases

|  |                  |                           |                     |  |
|--|------------------|---------------------------|---------------------|--|
| Hysterectomy for benign diseases, in-hospital mortality age > 14     | <0,04%<br>1      | 0,0673%<br>15 of 22.281   | 0,0%<br>0 of 113    |  |
| Share of vaginal/laparoscopic hysterectomy without plastic surgeries | >87,9%<br>1      | 88,3%<br>19.551 of 22.132 | 92,0%<br>104 of 113 |  |
| Share of vaginal hysterectomy without plastic surgeries              | Information<br>1 | 31,1%<br>6.892 of 22.132  | 37,2%<br>42 of 113  |  |
| thereof vaginal hysterectomy with morcellation of the uterus         | Information<br>1 | 6,1%<br>421 of 6.892      | 0,0%<br>0 of 42     |  |
| Share of laparoscopic hysterectomy without plastic surgeries         | Information<br>1 | 57,2%<br>12.659 of 22.132 | 54,9%<br>62 of 113  |  |

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|---|---|---|--|--|
| thereof laparoscopic hysterectomy with morcellation of the uterus                                 | Information<br>1                              | 27,0%<br>3.415 of 12.659                                | 6,5%<br>4 of 62  |  |
| Share of hysterectomy for benign diseases combined with oophorectomy excl. endometriosis age < 50 | Information<br>1                              | 6,6%<br>485 of 7.322                                    | 0,0%<br>0 of 37  |  |
| Share of hysterectomy for benign diseases combined with oophorectomy excl. endometriosis age > 49 | Information<br>1                              | 31,2%<br>2.695 of 8.638                                 | 29,3%<br>17 of 58  |  |
| <b>Breast cancer and female genital cancer</b>  |   |   |  |  |
| Breast cancer and female genital cancer (PDX)   | Quantity information<br>2                     | 194,8 (60)<br>79.483                                    | 272  |  |
| Inpatient cases for cancer of the ovaries (PDX)   | Quantity information<br>2                     | 29,2 (12)<br>10.162                                     | 26   |  |
| Cancer of the ovaries with oophorectomy, in-hospital mortality                                    | Observed value<br>1                           | 1,5%<br>40 of 2.723                                     | 0,0%<br>0 of 10  |  |
| Inpatient cases for cancer of the uterus (PDX)  | Quantity information<br>2                     | 48,2 (28)<br>16.188                                     | 39   |  |
| Cancer of the uterus with hysterectomy, in-hospital mortality                                     | Observed value<br>1                           | 0,78%<br>49 of 6.321                                    | 4,76%<br>1 of 21   |  |
| Inpatient cases for breast cancer (PDX)   | Quantity information<br>2                     | 124,1 (32)<br>48.414                                    | 195  |  |
| <b>Interventions on the breast</b>  |   |   |  |  |
| Breast surgery, all (lumpectomy, partial mastectomy and breast augmentation)                      | Quantity information<br>2                     | 154,7 (116)<br>42.375                                   | 157  |  |
| Lumpectomy, partial mastectomy for cancer   | Quantity information<br>2                     | 138,4 (118)<br>31.281                                   | 140  |  |
| Share of breast conserving surgery in breast cancer   | Information<br>1                              | 72,4%<br>22.650 of 31.281                               | 69,3%<br>97 of 140   |  |
| <b>Interventions on female pelvic floor</b>   |   |   |  |  |
| Pelvic surgeries with and without plastic surgeries, total  | Quantity information<br>2                     | 63,9 (45)<br>19.102                                     | 74   |  |

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|------------------------|------------------------|---------------------------------|---------------------------------|-------------------------|
|                        | <a href="#">Source</a> | <a href="#">Number of cases</a> | <a href="#">Number of cases</a> | <a href="#">SMR</a>     |

## Diseases of the skeletal system

### Cancer of the skeletal system

|                                     |                           |                    |      |    |
|-------------------------------------|---------------------------|--------------------|------|----|
| Cancer of the skeletal system (PDX) | Quantity information<br>2 | 41,7 (5)<br>14.915 | n.a. | <4 |
|-------------------------------------|---------------------------|--------------------|------|----|

### Endoprosthesis

|  |                     |                         |                     |  |
|--|---------------------|-------------------------|---------------------|--|
| Hip replacement for coxarthrosis and chronic hip arthritis, in-hospital mortality                    | <0,13%<br>1         | 0,1427%<br>84 of 58.846 | 0,6098%<br>1 of 164 |  |
| Hip replacement for hip fracture, in-hospital mortality  | Observed value<br>1 | 5,7%<br>1.278 of 22.320 | 3,9%<br>4 of 102    |  |
| Hip replacement for other diagnoses, in-hospital mortality   | Observed value<br>1 | 5,6%<br>376 of 6.683    | 8,3%<br>1 of 12     |  |
| Hip replacement for coxarthrosis and hip arthritis, share of cases with non-surgical complications   | Observed value<br>1 | 2,4%<br>1.441 of 58.846 | 2,4%<br>4 of 164    |  |
| Hip revision surgery without fracture or infection, in-hospital mortality                            | <1,36%<br>1         | 1,23%<br>62 of 5.031    | 0%<br>0 of 15       |  |
| Hip revision surgery for fracture or infection, in-hospital mortality                                | Observed value<br>1 | 4,5%<br>175 of 3.853    | 13,3%<br>2 of 15    |  |
| Knee replacement for gonarthrosis and chronic knee arthritis, in-hospital mortality                  | <0,06%<br>1         | 0,0613%<br>34 of 55.475 | 0,7937%<br>1 of 126 |  |
| Knee replacement for other diagnoses, in-hospital mortality  | Observed value<br>1 | 0,7438%<br>25 of 3.361  | n.a.<br><4          |  |
| Knee replacement for gonarthrosis and knee arthritis, share of cases with non-surgical complications | Observed value<br>1 | 1,7%<br>956 of 55.475   | 1,6%<br>2 of 126    |  |
| Revision of knee replacement without fracture or infection, in-hospital mortality                    | <0,27%<br>1         | 0,3042%<br>14 of 4.602  | 0,0%<br>0 of 5      |  |
| Revision of knee replacement for fracture or infection, in-hospital mortality                        | Observed value<br>1 | 2,9%<br>59 of 2.028     | n.a.<br><4          |  |
| Hip or knee replacement for cancer, in-hospital mortality  | Observed value<br>1 | 6,9%<br>163 of 2.369    | 0,0%<br>0 of 6      |  |



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|--|--|--|---|--|
| <b>Hip fracture</b>  |  |  |   |  |
| Femoral neck fracture with surgical treatment, in-hospital mortality<br>age > 19   | < Expected value<br>1                      | 5,2%<br>1.275 of 24.704                              | 3,5%<br>4 of 114  | 4,6%<br>0,76                                   |
| Femoral neck fracture with endoprosthesis treatment, in-hospital mortality<br>age > 19   | Observed value<br>1                        | 5,7%<br>1.239 of 21.829                              | 3,9%<br>4 of 102  |  |
| Femoral neck fracture with osteosynthetic treatment, in-hospital mortality<br>age > 19   | Observed value<br>1                        | 1,3%<br>36 of 2.875                                  | 0,0%<br>0 of 12   |  |
| Petrochanteric fracture with surgical treatment, in-hospital mortality<br>age > 19   | < Expected value<br>1                      | 5,3%<br>1.079 of 20.370                              | 0,9%<br>1 of 106  | 5,3%<br>0,18                                   |
| Petrochanteric fracture with osteosynthetic treatment, in-hospital mortality<br>age > 19   | Observed value<br>1                        | 5,2%<br>1.045 of 19.926                              | 0,9%<br>1 of 106  |  |
| <b>Surgery of the spine and medulla</b>  |  |  |   |  |
| Surgery of the spine and medulla except local interventions for pain management  | Quantity information<br>2                  | 297,2 (174)<br>114.438                               | 36  |  |
| Spinal fusion or vertebral body replacement for trauma, in-hospital mortality  | Observed value<br>1                        | 3,9%<br>578 of 14.953                                | 9,5%<br>2 of 21   |  |
| Vertebroplasty or kyphoplasty (without cancer, complex reconstr., discectomy, vertebral body replacement), in-hospital mortality | <0,51%<br>1                                | 0,4074%<br>28 of 6.873                               | 0,0%<br>0 of 11   |  |
| Other surgeries of the spine or medulla, in-hospital mortality   | Observed value<br>1                        | 1,8%<br>377 of 21.143                                | 0,0%<br>0 of 4  |  |
| Local spinal interventions for pain management (without other spinal surgery)  | Quantity information<br>2                  | 77,9 (33)<br>28.430                                  | n.a.  | <4   |
| Treatment of spinal diseases (PDX) without spinal surgery or local interventions   | Quantity information<br>2                  | 120,6 (101)<br>52.570                                | 137   |  |
| <b>Surgery on the musculoskeletal system including endoprosthesis</b>  |  |  |   |  |
| Endoprosthesis of the shoulder/elbow joint   | Quantity information<br>2                  | 30,8 (22)<br>11.717                                  | 45  |  |

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|--|---|---|--|--|
| <b>Polytrauma</b>                        |   |   |  |  |
| Polytrauma (according to DRG-definition) | Quantity information<br><br>2                     | 20,9 (6)<br><br>7.673                                       | 10   |  |

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|------------------------|------------------------|---------------------------------|---------------------------------|-------------------------|
|                        | <a href="#">Source</a> | <a href="#">Number of cases</a> | <a href="#">Number of cases</a> | <a href="#">SMR</a>     |

## Diseases of the urinary tract and the male reproductive system

### Nephrectomy

|  |                     |                         |                 |  |
|--|---------------------|-------------------------|-----------------|--|
| Radical nephrectomy, in-hospital mortality                     | <1,6%<br>1          | 1,6%<br>59 of 3.685     | 20,0%<br>1 of 5 |  |
| Radical nephrectomy, share of laparoscopic procedures          | Information<br>1    | 42,9%<br>1.580 of 3.685 | 0,0%<br>0 of 5  |  |
| Partial nephrectomy, in-hospital mortality                     | <0,25%<br>1         | 0,1208%<br>4 of 3.311   | 0,0%<br>0 of 4  |  |
| Partial nephrectomy, share of laparoscopic procedures          | Information<br>1    | 54,7%<br>1.810 of 3.311 | 25,0%<br>1 of 4 |  |
| Share of partial nephrectomies in cancer procedures            | Information<br>1    | 47,3%<br>3.311 of 6.996 | 44,4%<br>4 of 9 |  |
| Radical nephrectomy for other diagnosis, in-hospital mortality | Observed value<br>1 | 3,9%<br>86 of 2.226     | n.a.<br><4      |  |
| Partial nephrectomy for other diagnosis, in-hospital mortality | Observed value<br>1 | 0,7513%<br>9 of 1.198   | 0,0%<br>0 of 4  |  |

### Bladder surgery

|   |                           |                          |                   |  |
|---|---------------------------|--------------------------|-------------------|--|
| Inpatient cases for bladder cancer (PDX)                        | Quantity information<br>2 | 131,7 (41)<br>45.296     | 97                |  |
| Transurethral resections (TUR) at the bladder (all)             | Quantity information<br>2 | 203,0 (195)<br>46.280    | 144               |  |
| thereof transurethral resections for bladder cancer             | Quantity information<br>2 | 164,1 (149)<br>32.651    | 94                |  |
| Share of cancer TUR with intravesical instillation chemotherapy | Observed value<br>1       | 19,1%<br>6.222 of 32.651 | 25,5%<br>24 of 94 |  |
| Cystectomy, in-hospital mortality                               | <5,0%<br>1                | 4,5%<br>142 of 3.139     | n.a.<br><4        |  |

### Transurethral resection of the prostate (TURP)

|   |             |                         |                 |  |
|---|-------------|-------------------------|-----------------|--|
| Transurethral resection of the prostate (TURP), in-hospital mortality | <0,23%<br>1 | 0,2239%<br>55 of 24.563 | 0,0%<br>0 of 73 |  |
|---|-------------|-------------------------|-----------------|--|

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|--|---|---|--|--|
| Transurethral resection of the prostate (TURP) for malignant diseases, in-hospital mortality   | Observed value<br><br>1                           | <b>0,6408%</b><br><br>45 of 7.022                           | <b>0,0%</b><br><br>0 of 31   |  |
| Transurethral resection of the prostate (TURP), share of cases with non-surgical complications | Observed value<br><br>1                           | <b>3,6%</b><br><br>1.124 of 31.585                          | <b>7,7%</b><br><br>8 of 104  |  |
| Inpatient cases for prostate cancer (PDX)  | Quantity information<br><br>2                     | <b>91,4 (19)</b><br><br>34.805                              | <b>54</b>  |  |
| Prostatectomy, in-hospital mortality   | <0,19%<br><br>1                                   | <b>0,1452%</b><br><br>18 of 12.398                          | <b>0,0%</b><br><br>0 of 6  |  |
| <b>Kidney stones</b>   |   |   |  |  |
| Inpatient cases for kidney stones (PDX)  | Quantity information<br><br>2                     | <b>184,5 (36)</b><br><br>73.597                             | <b>376</b>   |  |
| Share of cases with interventions for stone removal  | Information<br><br>1                              | <b>53,5%</b><br><br>39.395 of 73.597                        | <b>47,1%</b><br><br>177 of 376                                     |  |

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IQM Quality indicators

| IQM<br>Target value    | IQM<br>Average value            | Hospital Effective<br>value     | Hospital<br>Expected<br>value |
|------------------------|---------------------------------|---------------------------------|-------------------------------|
| <a href="#">Source</a> | <a href="#">Number of cases</a> | <a href="#">Number of cases</a> | <a href="#">SMR</a>           |

## Diseases of the skin

### Diseases of the skin

|   |                           |                    |            |
|---|---------------------------|--------------------|------------|
| Inpatient treatment for melanoma (PDX)              | Quantity Information<br>2 | 42,8 (4)<br>12.754 | n.a.<br><4 |
| Inpatient treatment for dermatitis and eczema (PDX) | Quantity Information<br>2 | 29,0 (5)<br>10.718 | n.a.<br><4 |

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|------------------------|------------------------|---------------------------------|---------------------------------|-------------------------|
|                        | <a href="#">Source</a> | <a href="#">Number of cases</a> | <a href="#">Number of cases</a> | <a href="#">SMR</a>     |

## Intensive care

### Intensive care

|  |                     |                           |                    |  |
|--|---------------------|---------------------------|--------------------|--|
| Mechanical ventilation for > 24 hours (without neonates), in-hospital mortality                      | Observed value<br>1 | 36,8%<br>35.901 of 97.454 | 57,8%<br>96 of 166 |  |
| Mechanical ventilation for > 24 hours (without neonates and COVID-19), in-hospital mortality         | <34,1%<br>1         | 36,0%<br>30.098 of 83.509 | 56,5%<br>78 of 138 |  |
| Sepsis (PDX), in-hospital mortality  | Observed value<br>1 | 33,5%<br>9.946 of 29.690  | 33,0%<br>30 of 91  |  |
| thereof Sepsis with organ dysfunction or shock (PDX), in-hospital mortality                          | Observed value<br>1 | 36,3%<br>9.456 of 26.052  | 33,7%<br>29 of 86  |  |
| thereof Sepsis without organ dysfunction or shock (PDX), in-hospital mortality                       | Observed value<br>1 | 13,5%<br>490 of 3.638     | 20,0%<br>1 of 5    |  |
| Sepsis (as secondary diagnosis), in-hospital mortality   | Observed value<br>1 | 40,6%<br>26.949 of 66.415 | 40,3%<br>81 of 201 |  |
| thereof Sepsis with organ dysfunction or shock (as secondary diagnosis), in-hospital mortality       | Observed value<br>1 | 42,2%<br>26.295 of 62.358 | 41,3%<br>81 of 196 |  |
| Generalized whole-body inflammatory response without organ dysfunction (SIRS), in-hospital mortality | Information<br>1    | 8,8%<br>3.866 of 43.820   | 8,7%<br>65 of 744  |  |

### Congenital coagulation disorder

|   |                           |                     |      |    |
|---|---------------------------|---------------------|------|----|
| Patients with congenital coagulation disorders                    | Quantity information<br>2 | 29,4 (15)<br>12.580 | 4    |    |
| thereof surgical patients (with congenital coagulation disorders) | Quantity information<br>2 | 19,7 (10)<br>7.987  | n.a. | <4 |

### Autopsy rate

|              |                  |                          |                  |  |
|--------------|------------------|--------------------------|------------------|--|
| Autopsy rate | Information<br>1 | 0,8%<br>1.472 of 183.377 | 0,0%<br>0 of 532 |  |
|--------------|------------------|--------------------------|------------------|--|

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| IQM Quality indicators            | IQM<br>Target value<br><br><a href="#">Source</a> | IQM<br>Average value<br><br><a href="#">Number of cases</a> | Hospital Effective<br>value<br><br><a href="#">Number of cases</a> | Hospital<br>Expected<br>value<br><br><a href="#">SMR</a> |
|-----------------------------------|---|---|--|--|
| <b>Palliative care</b>            |   |   |  |  |
| Palliative care                   |   |   |  |  |
| Palliative care complex treatment | Quantity Information<br><br>2                     | 183,9 (122)<br><br>45.053                                   | 24   |  |

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IQM Quality indicators

| IQM<br>Target value    | IQM<br>Average value            | Hospital Effective<br>value     | Hospital<br>Expected<br>value |
|------------------------|---------------------------------|---------------------------------|-------------------------------|
| <a href="#">Source</a> | <a href="#">Number of cases</a> | <a href="#">Number of cases</a> | <a href="#">SMR</a>           |

## COVID-19 key figures

### COVID-19 key figures

|  |                  |  |                                  |  |
|--|------------------|--|----------------------------------|--|
| Proportion of patients with testing for COVID-19                           | Information<br>1 | <b>89,7%</b><br>5.732.391 of 6.389.949 | <b>91,0%</b><br>14.226 of 15.641 |  |
| Proportion of patients with virus detection based on all tested patients   | Information<br>1 | <b>5,6%</b><br>322.961 of 5.732.391    | <b>7,2%</b><br>1.022 of 14.226   |  |
| Proportion of patients with COVID-19 virus detection based on all patients | Information<br>1 | <b>5,1%</b><br>322.961 of 6.389.950    | <b>6,5%</b><br>1.022 of 15.641   |  |
| COVID-19 - Proportion of patients without virus detection                  | Information<br>1 | <b>0,4%</b><br>23.866 of 6.389.950     | <b>0,1%</b><br>8 of 15.641       |  |
| COVID-19 - Patients with virus detection and severe respiratory disease    | Information<br>1 | <b>26,7%</b><br>86.151 of 322.961      | <b>35,4%</b><br>362 of 1.022     |  |
| COVID-19 - Patients with virus detection and selected previous illnesses   | Information<br>1 | <b>72,1%</b><br>232.777 of 322.961     | <b>75,5%</b><br>772 of 1.022     |  |
| COVID-19 - mortality with Virus detection                                  | Information<br>1 | <b>8,1%</b><br>26.221 of 322.961       | <b>10,0%</b><br>102 of 1.022     |  |



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| IQM Quality indicators | IQM Target value       | IQM Average value               | Hospital Effective value        | Hospital Expected value |
|------------------------|------------------------|---------------------------------|---------------------------------|-------------------------|
|                        | <a href="#">Source</a> | <a href="#">Number of cases</a> | <a href="#">Number of cases</a> | <a href="#">SMR</a>     |

## Diseases of the Heart

### Acute Myocardial Infarction (AMI)

|   |                       |                           |                     |              |
|---|-----------------------|---------------------------|---------------------|--------------|
| Acute Myocardial Infarction, in-hospital mortality, observed<br>age > 19                        | < Expected value<br>1 | 8,4%<br>6.822 of 81.175   | 7,0%<br>25 of 356   | 7,6%<br>0,93 |
| Share of AMI with left heart catheter   | Information<br>1      | 83,7%<br>67.966 of 81.175 | 91,6%<br>326 of 356 |              |
| Principle diagnosis AMI, direct admissions without transfers, in-hospital mortality<br>age > 19 | Observed value<br>1   | 8,3%<br>6.073 of 72.973   | 7,0%<br>25 of 355   |              |
| Share of AMI, transmural (STEMI)  | Information<br>1      | 34,6%<br>28.047 of 81.081 | 29,7%<br>105 of 353 |              |
| AMI, transmural, in-hospital mortality  | < Expected value<br>1 | 12,3%<br>3.438 of 28.047  | 10,5%<br>11 of 105  | 10,7%        |
| AMI nontransmural / NSTEMI, in-hospital mortality   | < Expected value<br>1 | 5,8%<br>3.026 of 52.286   | 5,3%<br>13 of 245   | 5,2%         |
| Secondary diagnosis AMI, in-hospital mortality<br>age > 19                                      | Observed value<br>1   | 21,1%<br>5.194 of 24.664  | 13,4%<br>13 of 97   |              |

### Heart Failure

|  |                       |                            |                     |              |
|--|-----------------------|----------------------------|---------------------|--------------|
| Principle diagnosis heart failure, in-hospital mortality, observed<br>age > 19 | < Expected value<br>1 | 8,1%<br>13.949 of 172.821  | 9,2%<br>54 of 585   | 8,6%<br>1,07 |
| Left-sided heart failure, share coded as NYHA IV                               | Information<br>1      | 49,4%<br>56.089 of 113.523 | 46,7%<br>100 of 214 |              |

### Cases with left heart catheterization

|  |                           |                          |                   |              |
|--|---------------------------|--------------------------|-------------------|--------------|
| Cases with coronary catheterization<br>age > 19  | Quantity information<br>2 | 810,2 (658)<br>300.577   | 804               |              |
| Coronary catheterization for infarction, without open heart procedure, in-hospital mortality observed (referred to patients with AMI and left heart catheterization)<br>age > 19 | < Expected value<br>1     | 6,6%<br>4.416 of 66.575  | 4,9%<br>16 of 326 | 5,8%<br>0,84 |
| Diagnostic coronary catheterization without PDX of AMI, without open heart procedure, in-hospital mortality<br>age > 19  | <1,4%<br>1                | 1,7%<br>2.337 of 139.596 | 1,7%<br>6 of 348  |              |
| Therapeutic coronary catheterization without PDX of AMI, without open heart procedure, in-hospital mortality<br>age > 19   | Observed value<br>1       | 1,9%<br>1.540 of 79.813  | 4,7%<br>6 of 128  |              |

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|--|---|---|--|--|
| Share of therapeutic coronary catheterization without PDX of AMI, without open heart procedure<br>age > 19 | Information<br>1                              | 36,4%<br>79.813 of 219.409                              | 26,9%<br>128 of 476  |  |
| <b>Cardiac arrhythmia</b>  |   |   |  |  |
| Patients with cardiac arrhythmia as principal diagnosis  | Quantity information<br>2                     | 415,8 (266)<br>176.303                                  | 376  |  |
| <b>Implantation of pacemaker/defibrillator</b>   |   |   |  |  |
| Implantation of pacemaker/defibrillator  | Quantity information<br>2                     | 147,9 (103)<br>53.113                                   | 96   |  |
| thereof implantation or exchange of defibrillator  | Quantity information<br>2                     | 53,1 (37)<br>14.722                                     | 17   |  |

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| IQM Quality indicators | IQM Target value       | IQM Average value               | Hospital Effective value        | Hospital Expected value |
|------------------------|------------------------|---------------------------------|---------------------------------|-------------------------|
|                        | <a href="#">Source</a> | <a href="#">Number of cases</a> | <a href="#">Number of cases</a> | <a href="#">SMR</a>     |

## 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 | 33,0 (7) | 6 |  |
|  | 2                    | 9.858    |   |  |

### Stroke, all types by age groups

|   |                |                   |           |  |
|---|----------------|-------------------|-----------|--|
| Stroke (PDX), all types, in-hospital mortality observed | Observed value | 10,1%             | 5,4%      |  |
| age > 19  | 1              | 11.700 of 116.036 | 26 of 481 |  |

### Stroke, by type of stroke

|  |                |                 |           |  |
|--|----------------|-----------------|-----------|--|
| Cerebral infarction (ICD I63), in-hospital mortality, observed | Observed value | 7,3%            | 4,0%      |  |
| age > 19   | 1              | 7.162 of 98.672 | 18 of 448 |  |

|   |             |                  |           |  |
|---|-------------|------------------|-----------|--|
| Share of cerebral infarction with systemic thrombolysis | Information | 15,9%            | 15,8%     |  |
|   | 1           | 15.662 of 98.672 | 71 of 448 |  |

|   |                |                 |         |  |
|---|----------------|-----------------|---------|--|
| Cerebral infarction with systemic thrombolysis, in-hospital mortality | Observed value | 7,5%            | 1,4%    |  |
|   | 1              | 1.171 of 15.662 | 1 of 71 |  |

|  |             |                 |          |  |
|--|-------------|-----------------|----------|--|
| Share of cerebral infarction with thrombectomy | Information | 9,6%            | 0,0%     |  |
|  | 1           | 9.434 of 98.672 | 0 of 448 |  |

|  |                |                 |           |  |
|--|----------------|-----------------|-----------|--|
| Cerebral infarction (ICD I63), percentage with pneumonia | Observed value | 10,0%           | 4,9%      |  |
| age > 19   | 1              | 9.825 of 98.672 | 22 of 448 |  |

|   |   |                |         |  |
|---|---|----------------|---------|--|
| Cerebral infarction (ICD I63) with pneumonia, in-hospital mortality |   | 28,8%          | 31,8%   |  |
| age > 19  | 1 | 2.826 of 9.825 | 7 of 22 |  |

### Haemorrhage

|  |                |                 |         |  |
|--|----------------|-----------------|---------|--|
| Intracerebral haemorrhage (ICD I61), in-hospital mortality | Observed value | 28,7%           | 24,2%   |  |
| age > 19   | 1              | 3.712 of 12.945 | 8 of 33 |  |

|                                       |        |                |          |  |
|---------------------------------------|--------|----------------|----------|--|
| Share of unspecified stroke (ICD I64) | <0,55% | 0,34%          | 0,0%     |  |
| age > 19                              | 1      | 393 of 116.036 | 0 of 481 |  |

|  |                |               |          |  |
|--|----------------|---------------|----------|--|
| Transient cerebral ischaemic attack, in-hospital mortality | Observed value | 0,3508%       | 0,0%     |  |
|  | 1              | 133 of 37.917 | 0 of 143 |  |

### Stroke unit treatment

|  |                      |             |     |  |
|--|----------------------|-------------|-----|--|
| Treatment cases with neurological or other complex treatment | Quantity information | 470,6 (420) | 432 |  |
|  | 2                    | 109.645     |     |  |

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|---|---|---|--|--|
| Cerebral infarctions with neurological or other complex treatment   | Information<br>1                              | 73,8%<br>72.868 of 98.672                               | 69,9%<br>313 of 448  |  |
| TIA with neurological or other complex treatment  | Information<br>1                              | 67,4%<br>25.540 of 37.917                               | 65,7%<br>94 of 143   |  |
| Cerebral infarction or TIA with neurological or other complex treatment without additional transfers (based on the stroke registry) | Information<br>1                              | 73,5%<br>94.573 of 128.627                              | 70,0%<br>406 of 580  |  |
| Cerebral infarction or TIA with neurological or other complex treatment only additional transfers (based on the stroke registry)    | Information<br>1                              | 48,2%<br>3.835 of 7.962                                 | 9,1%<br>1 of 11  |  |
| <b>Epilepsy</b>   |   |   |  |  |
| Inpatient treatment for epilepsy (PDX)<br>age > 19  | Quantity information<br>2                     | 107,1 (26)<br>42.625                                    | 97   |  |
| <b>Multiple sclerosis</b>   |   |   |  |  |
| Inpatient treatment for multiple sclerosis (PDX)  | Quantity information<br>2                     | 36,0 (15)<br>10.223                                     | n.a.   | <4   |

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|------------------------|---|---|--|--|
|------------------------|---|---|--|--|

## Geriatric medicine

### Early geriatric rehabilitation

|  |                           |                        |            |  |
|--|---------------------------|------------------------|------------|--|
| Patients with early geriatric rehabilitation | Quantity information<br>2 | 391,1 (317)<br>101.291 | n.a.<br><4 |  |
|--|---------------------------|------------------------|------------|--|

### Malnutrition of elderly patients

|   |                  |                              |                     |  |
|---|------------------|------------------------------|---------------------|--|
| Malnourished patients, age > 65, without tumor diseases | Information<br>1 | 0,99%<br>24.194 of 2.444.716 | 0,3%<br>21 of 6.966 |  |
| Patients fed by tube/infusion                           | Information<br>1 | 1,8%<br>432 of 24.194        | 0,0%<br>0 of 21     |  |

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| IQM Quality indicators  | IQM<br>Target value<br><a href="#">Source</a> | IQM<br>Average value<br><a href="#">Number of cases</a> | Hospital Effective<br>value<br><a href="#">Number of cases</a> | Hospital<br>Expected<br>value<br><a href="#">SMR</a> |
|---|---|---|--|--|
| <b>Diseases of the Lung</b>   |   |   |  |  |
| <b>Pneumonia</b>  |   |   |  |  |
| Pneumonia (PDX), in-hospital mortality, observed<br>All age groups  | < Expected value<br>1                         | 17,6%<br>30.364 of 172.220                              | 26,5%<br>117 of 442  | 15,8%  |
| Pneumonia excluding admission transfers,<br>neoplasms, cystic fibrosis, (CAP), in-hospital<br>mortality, observed<br>age > 19 | < Expected value<br>1                         | 15,9%<br>18.429 of 116.175                              | 23,8%<br>71 of 298   | 12,5%  |
| Pneumonia excluding admission transfers,<br>neoplasms, cystic fibrosis, COVID-19, in-hospital<br>mortality<br>age > 19        | < Expected value<br>1                         | 11,8%<br>5.139 of 43.716                                | 21,1%<br>23 of 109   | 11,8%<br>1,80  |
| Pneumonia with inhalation of food or stomach<br>contents, in-hospital mortality   | Observed value<br>1                           | 28,0%<br>3.539 of 12.661                                | 27,7%<br>18 of 65  |  |
| Bronchitis/bronchiolitis excluding admission<br>transfers, tumor, cystic fibrosis, in-hospital<br>mortality<br>age > 19       | < Expected value<br>1                         | 2,5%<br>173 of 6.935                                    | 0,0%<br>0 of 12  | 2,8%   |
| <b>Chronic obstructive pulmonary disease (COPD)</b>   |   |   |  |  |
| Chronic obstructive pulmonary disease (COPD<br>without malignancy), in-hospital mortality<br>age > 19                         | < Expected value<br>1                         | 4,9%<br>2.728 of 55.260                                 | 4,6%<br>6 of 131   | 5,0%<br>0,91   |
| <b>Malignant neoplasm of bronchus and lung</b>  |   |   |  |  |
| Inpatient treatment for malignant neoplasm of<br>bronchus and lung (PDX)  | Quantity information<br>2                     | 178,9 (47)<br>74.223                                    | 45   |  |

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| IQM Quality indicators  | IQM Target value<br><a href="#">Source</a> | IQM Average value<br><a href="#">Number of cases</a> | Hospital Effective value<br><a href="#">Number of cases</a> | Hospital Expected value<br><a href="#">SMR</a> |
|---|--|--|---|--|
| <b>Diseases of the visceral organs</b>  |  |  |   |  |
| <b>Cholecystectomy</b>  |  |  |   |  |
| Cholecystectomy for gallstones (without malignancies), share of laparoscopic removals     | >94,6%<br>1                                | 94,9%<br>50.695 of 53.427                            | 96,1%<br>222 of 231   |  |
| Cholecystectomy for gallstones (without malignancies), rate of conversion to open surgery | Observed value<br>1                        | 3,0%<br>1.596 of 53.427                              | 0,0%<br>0 of 231  |  |
| Cholecystectomy for gallstones (without malignancies), in-hospital mortality              | <0,55%<br>1                                | 0,5278%<br>282 of 53.427                             | 0,0%<br>0 of 231  |  |
| <b>Repair of femoral, inguinal and umbilical hernia</b>                                   |  |  |   |  |
| Hernia repair without bowel resection, in-hospital mortality                              | <0,12%<br>1                                | 0,1137%<br>72 of 63.317                              | 0,0%<br>0 of 230  |  |
| Hernia repair with bowel resection, in-hospital mortality                                 | Observed value<br>1                        | 2,1%<br>153 of 7.325                                 | 4,2%<br>1 of 24   |  |
| Repair of inguinal hernia, share of operations with alloplastic material<br>age < 20      | Information<br>1                           | 7,8%<br>254 of 3.250                                 | n.a.<br><4  |  |
| Repair of inguinal hernia, share of operations with alloplastic material<br>age > 19      | Information<br>1                           | 97,8%<br>42.871 of 43.823                            | 98,1%<br>158 of 161   |  |
| <b>Thyroidectomy</b>  |  |  |   |  |
| Thyroidectomies   | Quantity information<br>2                  | 53,4 (19)<br>17.881                                  | 9   |  |
| thereof thyroidectomies for thyroid cancer  | Quantity information<br>2                  | 10,7 (4)<br>2.503                                    | n.a.  | <4   |
| thereof thyroidectomies for benign diseases   | Quantity information<br>2                  | 44,8 (17)<br>14.346                                  | 7   |  |
| Thyroidectomy, share of patients with mechanical ventilation > 24 hours                   | Information<br>1                           | 0,48%<br>81 of 16.822                                | 0,0%<br>0 of 9  |  |
| <b>Diseases of the large bowel and rectum</b>   |  |  |   |  |
| Inpatient treatments for colorectal cancer (PDX)  | Quantity information<br>2                  | 125,9 (81)<br>51.740                                 | 145   |  |
| Inpatient treatments for ulcerative colitis or Crohn's disease (PDX + SDX)                | Quantity information<br>2                  | 92,7 (59)<br>41.459                                  | 61  |  |

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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                     |
| All colorectal resections, in-hospital mortality   | Observed value<br>1       | 7,9%<br>3.195 of 40.208 | 9,9%<br>13 of 131        |                         |
| thereof colon resection for colorectal cancer without complicating diagnosis, in-hospital mortality                | <3,9%<br>1                | 3,8%<br>380 of 10.042   | 3,3%<br>1 of 30          |                         |
| thereof colon resection for colorectal cancer with complicating diagnosis, in-hospital mortality                   | Observed value<br>1       | 11,9%<br>359 of 3.015   | 9,1%<br>1 of 11          |                         |
| thereof rectal resection for colorectal cancer, in-hospital mortality  | <3,1%<br>1                | 3,1%<br>149 of 4.872    | 0,0%<br>0 of 17          |                         |
| thereof colon resection surgery for diverticulitis without diverticular perforation/abscess, in-hospital mortality | <1,0%<br>1                | 1,02 %<br>21 of 2.055   | 0,00 %<br>0 of 4         |                         |
| thereof colon resection surgery for diverticulitis with diverticular perforation/abscess, in-hospital mortality    | Observed value<br>1       | 5,9%<br>313 of 5.332    | 15,8%<br>3 of 19         |                         |
| thereof colorectal resection for colonic ischemia, in-hospital mortality   | Information<br>1          | 42,5%<br>996 of 2.346   | 14,3%<br>1 of 7          |                         |
| thereof colorectal resection for ulcerative colitis or Crohn's disease, in-hospital mortality                      | Observed value<br>1       | 4,0%<br>84 of 2.106     | 0,0%<br>0 of 5           |                         |
| thereof colorectal resection for other diagnoses, in-hospital mortality  | Information<br>1          | 8,5%<br>892 of 10.433   | 18,4%<br>7 of 38         |                         |
| Colorectal resections for colorectal cancer, share of cases with partial resection/destruction of the liver        | Information<br>1          | 5,0%<br>889 of 17.929   | 1,7%<br>1 of 58          |                         |
| <b>Diseases of the stomach</b>   |                           |                         |                          |                         |
| Inpatient treatments for gastric cancer (PDX)  | Quantity information<br>2 | 43,3 (23)<br>17.048     | 21                       |                         |
| Gastric, duodenal, and jejunal ulcers (PDX, without malignancy), in-hospital mortality                             | Observed value<br>1       | 5,4%<br>1.135 of 20.890 | 6,8%<br>5 of 74          |                         |
| Gastric resections, all  | Quantity information<br>2 | 28,7 (10)<br>9.515      | 25                       |                         |



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|---|---|---|--|--|
| Gastric resection without esophageal resection for gastric cancer, in-hospital mortality      | Observed value<br>1                           | 5,4%<br>116 of 2.136                                    | 0,0%<br>0 of 9   |  |
| Partial and total gastric resection for other diagnoses, in-hospital mortality                | Observed value<br>1                           | 3,8%<br>269 of 7.069                                    | 0,0%<br>0 of 16  |  |
| <b>Bariatric interventions</b>  |   |   |  |  |
| Bariatric interventions, in-hospital mortality  | Observed value<br>1                           | 0,0313%<br>3 of 9.571                                   | 0,0%<br>0 of 16  |  |
| <b>Major pancreatic surgery</b>   |   |   |  |  |
| Pancreatic resections total (without transplantation), in-hospital mortality<br>age > 19      | Observed value<br>1                           | 8,9%<br>461 of 5.180                                    | 9,1%<br>1 of 11  |  |
| Pancreatic resections for malign neoplasms of the pancreas, in-hospital mortality<br>age > 19 | Observed value<br>1                           | 7,1%<br>221 of 3.107                                    | 14,3%<br>1 of 7  |  |
| Anatomical liver resection, in-hospital mortality<br>age > 19                                 | Observed value<br>1                           | 5,9%<br>173 of 2.938                                    | n.a.<br><4   |  |

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|--|---|---|--|--|
| <b>Vascular surgery</b>  |   |   |  |  |
| <b>Surgery of the carotid and brain arteries</b>   |   |   |  |  |
| Extracranial artery surgery, in-hospital mortality   | <0,98%<br>1                                   | 1,26%<br>117 of 9.250                                   | 0,0%<br>0 of 42  |  |
| Percutaneous stenting of extracranial arteries, in-hospital mortality  | <1,9%<br>1                                    | 2,4%<br>58 of 2.450                                     | 0,0%<br>0 of 5   |  |
| Extracranial artery surgery combined with cardiac or aortic surgery or neoplasm of the ENT area, in-hospital mortality | Observed value<br>1                           | 14,8%<br>267 of 1.809                                   | n.a.<br><4   |  |
| Percutaneous intracranial interventions  | Quantity information<br>2                     | 94,4 (45)<br>15.199                                     | n.a.<br><4   |  |
| <b>Aortic surgery</b>  |   |   |  |  |
| Aortic surgery: all interventions  | Quantity information<br>2                     | 48,0 (25)<br>10.034                                     | 15   |  |
| Abdominal aortic repair  | Quantity information<br>2                     | 25,2 (21)<br>5.109                                      | 15   |  |
| Open abdominal aortic repair for aortic aneurysm, no rupture, in-hospital mortality                                    | <6,3%<br>1                                    | 8,2%<br>61 of 740                                       | 0,0%<br>0 of 4   |  |
| Endovascular abdominal aortic repair for aortic aneurysm (EVAR), no rupture, in-hospital mortality                     | <1,3%<br>1                                    | 1,7%<br>50 of 2.968                                     | 0,0%<br>0 of 9   |  |
| Aortic aneurysms with rupture or dissection, in-hospital mortality   | Information<br>1                              | 40,6%<br>873 of 2.150                                   | 66,7%<br>4 of 6  |  |
| thereof ruptured with surgical intervention, in-hospital mortality   | Information<br>1                              | 32,3%<br>354 of 1.096                                   | n.a.<br><4   |  |
| <b>Lower extremity arterial surgery</b>  |   |   |  |  |
| Lower extremity arterial surgery, all, in-hospital mortality   | Information<br>1                              | 6,5%<br>1.829 of 28.292                                 | 5,7%<br>7 of 122   |  |
| thereof lower extremity bypass surgery for claudication (Fontaine I + II), in-hospital mortality                       | <0,5%<br>1                                    | 0,4363%<br>22 of 5.042                                  | 0,0%<br>0 of 27  |  |
| thereof lower extremity bypass surgery for rest pain (Fontaine III), in-hospital mortality                             | <2,3%<br>1                                    | 1,9%<br>39 of 2.105                                     | 0,0%<br>0 of 5   |  |

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| IQM Quality indicators   | IQM<br>Target value<br><a href="#">Source</a> | IQM<br>Average value<br><a href="#">Number of cases</a> | Hospital Effective<br>value<br><a href="#">Number of cases</a> | Hospital<br>Expected<br>value<br><a href="#">SMR</a> |
|--|---|---|--|--|
| thereof lower extremity bypass surgery for necrosis or gangrene (Fontaine IV), in-hospital mortality                               | <4,4%<br>1                                    | 4,8%<br>170 of 3.530                                    | 0,0%<br>0 of 8   |  |
| <b>Percutaneous Transluminal Angioplasty (PTA, inpatient)</b>  |   |   |  |  |
| Percutaneous transluminal angioplasty of abdominal and/or lower limb arteries (without aortic intervention), in-hospital mortality | Observed value<br>1                           | 3,4%<br>2.005 of 59.361                                 | 2,2%<br>5 of 225   |  |
| thereof PTA of lower extremity arteries with lower extremity bypass surgery during the same stay                                   | Quantity information<br>2                     | 41,9 (34)<br>9.963                                      | 27   |  |
| <b>Arteriovenous shunting</b>  |   |   |  |  |
| Surgical creation of arteriovenous fistula   | Quantity information<br>2                     | 33,4 (19)<br>7.189                                      | 95   |  |

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|------------------------|------------------------|---------------------------------|---------------------------------|-------------------------|
|                        | <a href="#">Source</a> | <a href="#">Number of cases</a> | <a href="#">Number of cases</a> | <a href="#">SMR</a>     |

## Obstetrics and Gynecology

### Deliveries

|   |                  |                            |                       |  |
|---|------------------|----------------------------|-----------------------|--|
| Deliveries with inpatient mortality                               | <0,004%<br>1     | 0,005%<br>15 of 300.765    | 0,0%<br>0 of 1.178    |  |
| Vaginal delivery with third- or fourth-degree tears               | <1,9%<br>1       | 1,9%<br>3.809 of 205.052   | 2,1%<br>17 of 825     |  |
| Vaginal delivery with episiotomy                                  | Information<br>1 | 11,3%<br>23.237 of 205.052 | 15,2%<br>125 of 825   |  |
| Cesarean section rate   | Information<br>1 | 31,8%<br>95.713 of 300.765 | 30,0%<br>353 of 1.178 |  |
| Cesarean section with Misgav-Ladach technique (% of all sections) | Information<br>1 | 76,4%<br>73.083 of 95.713  | 83,6%<br>295 of 353   |  |
| Cesarean section with low risk delivery                           | Information<br>1 | 26,3%<br>69.193 of 262.701 | 27,3%<br>308 of 1.129 |  |
| thereof Cesarean section with low risk delivery age < 35          | Information<br>1 | 24,4%<br>47.504 of 194.706 | 26,2%<br>224 of 856   |  |
| thereof Cesarean section with low risk delivery age > 34          | Information<br>1 | 31,9%<br>21.689 of 67.995  | 30,8%<br>84 of 273    |  |

### Newborns

|  |                           |                         |       |  |
|--|---------------------------|-------------------------|-------|--|
| Neonates >=1.500 g and <2.500 g              | Quantity information<br>2 | 73,3 (24)<br>17.745     | 17    |  |
| Neonates > 2.500 g (or no mention of weight) | Quantity information<br>2 | 1170,2 (886)<br>297.229 | 1.164 |  |

### Hysterectomy for benign diseases

|  |                  |                           |                    |  |
|--|------------------|---------------------------|--------------------|--|
| Hysterectomy for benign diseases, in-hospital mortality age > 14     | <0,04%<br>1      | 0,0047%<br>1 of 21.183    | 0,0%<br>0 of 100   |  |
| Share of vaginal/laparoscopic hysterectomy without plastic surgeries | >87,9%<br>1      | 87,5%<br>18.406 of 21.034 | 77,0%<br>77 of 100 |  |
| Share of vaginal hysterectomy without plastic surgeries              | Information<br>1 | 30,4%<br>6.395 of 21.034  | 22,0%<br>22 of 100 |  |
| thereof vaginal hysterectomy with morcellation of the uterus         | Information<br>1 | 6,9%<br>444 of 6.395      | 0,0%<br>0 of 22    |  |
| Share of laparoscopic hysterectomy without plastic surgeries         | Information<br>1 | 57,1%<br>12.011 of 21.034 | 55,0%<br>55 of 100 |  |

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|---|---|---|--|--|
| thereof laparoscopic hysterectomy with morcellation of the uterus                                 | Information<br>1                              | 28,0%<br>3.361 of 12.011                                | 9,1%<br>5 of 55  |  |
| Share of hysterectomy for benign diseases combined with oophorectomy excl. endometriosis age < 50 | Information<br>1                              | 6,7%<br>489 of 7.280                                    | 14,7%<br>5 of 34   |  |
| Share of hysterectomy for benign diseases combined with oophorectomy excl. endometriosis age > 49 | Information<br>1                              | 31,1%<br>2.401 of 7.715                                 | 44,9%<br>22 of 49  |  |
| <b>Breast cancer and female genital cancer</b>  |   |   |  |  |
| Breast cancer and female genital cancer (PDX)   | Quantity information<br>2                     | 200,6 (64)<br>81.639                                    | 321  |  |
| Inpatient cases for cancer of the ovaries (PDX)   | Quantity information<br>2                     | 30,4 (12)<br>10.860                                     | 29   |  |
| Cancer of the ovaries with oophorectomy, in-hospital mortality                                    | Observed value<br>1                           | 2,0%<br>56 of 2.799                                     | 0,0%<br>0 of 12  |  |
| Inpatient cases for cancer of the uterus (PDX)  | Quantity information<br>2                     | 50,8 (28)<br>16.654                                     | 45   |  |
| Cancer of the uterus with hysterectomy, in-hospital mortality                                     | Observed value<br>1                           | 0,54%<br>34 of 6.286                                    | 0,0%<br>0 of 26  |  |
| Inpatient cases for breast cancer (PDX)   | Quantity information<br>2                     | 128,8 (34)<br>49.859                                    | 235  |  |
| <b>Interventions on the breast</b>  |   |   |  |  |
| Breast surgery, all (lumpectomy, partial mastectomy and breast augmentation)                      | Quantity information<br>2                     | 151,4 (96)<br>42.701                                    | 179  |  |
| Lumpectomy, partial mastectomy for cancer   | Quantity information<br>2                     | 132,2 (111)<br>32.135                                   | 148  |  |
| Share of breast conserving surgery in breast cancer   | Information<br>1                              | 72,5%<br>23.288 of 32.135                               | 61,5%<br>91 of 148   |  |
| <b>Interventions on female pelvic floor</b>   |   |   |  |  |
| Pelvic surgeries with and without plastic surgeries, total  | Quantity information<br>2                     | 53,7 (36)<br>16.155                                     | 60   |  |

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|------------------------|------------------------|---------------------------------|---------------------------------|-------------------------|
|                        | <a href="#">Source</a> | <a href="#">Number of cases</a> | <a href="#">Number of cases</a> | <a href="#">SMR</a>     |

## Diseases of the skeletal system

### Cancer of the skeletal system

|                                     |                           |                    |      |    |
|-------------------------------------|---------------------------|--------------------|------|----|
| Cancer of the skeletal system (PDX) | Quantity information<br>2 | 42,5 (5)<br>15.525 | n.a. | <4 |
|-------------------------------------|---------------------------|--------------------|------|----|

### Endoprosthesis

|  |                     |                         |                  |  |
|--|---------------------|-------------------------|------------------|--|
| Hip replacement for coxarthrosis and chronic hip arthritis, in-hospital mortality                    | <0,13%<br>1         | 0,1068%<br>55 of 51.502 | 0,0%<br>0 of 124 |  |
| Hip replacement for hip fracture, in-hospital mortality  | Observed value<br>1 | 5,7%<br>1.181 of 20.654 | 2,9%<br>3 of 102 |  |
| Hip replacement for other diagnoses, in-hospital mortality   | Observed value<br>1 | 5,5%<br>355 of 6.473    | 0,0%<br>0 of 11  |  |
| Hip replacement for coxarthrosis and hip arthritis, share of cases with non-surgical complications   | Observed value<br>1 | 2,6%<br>1.359 of 51.502 | 1,6%<br>2 of 124 |  |
| Hip revision surgery without fracture or infection, in-hospital mortality                            | <1,36%<br>1         | 1,45%<br>71 of 4.885    | 0%<br>0 of 8     |  |
| Hip revision surgery for fracture or infection, in-hospital mortality                                | Observed value<br>1 | 4,7%<br>177 of 3.802    | 0,0%<br>0 of 17  |  |
| Knee replacement for gonarthrosis and chronic knee arthritis, in-hospital mortality                  | <0,06%<br>1         | 0,0435%<br>20 of 45.992 | 0,0%<br>0 of 95  |  |
| Knee replacement for other diagnoses, in-hospital mortality  | Observed value<br>1 | 0,4888%<br>16 of 3.273  | n.a.<br><4       |  |
| Knee replacement for gonarthrosis and knee arthritis, share of cases with non-surgical complications | Observed value<br>1 | 1,8%<br>807 of 45.992   | 2,1%<br>2 of 95  |  |
| Revision of knee replacement without fracture or infection, in-hospital mortality                    | <0,27%<br>1         | 0,305%<br>14 of 4.590   | 0,0%<br>0 of 8   |  |
| thereof knee revision surgery with special prosthesis, in-hospital mortality                         | Information<br>1    | 0,1294%<br>2 of 1.545   | 0,0%<br>0 of 5   |  |
| Revision of knee replacement for fracture or infection, in-hospital mortality                        | Observed value<br>1 | 2,3%<br>45 of 1.950     | n.a.<br><4       |  |

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|--|---------------------------|-------------------------|--------------------------|-------------------------|
|  | Source                    | Number of cases         | Number of cases          | SMR                     |
| Hip or knee replacement for cancer, in-hospital mortality  | Observed value<br>1       | 7,2%<br>178 of 2.476    | n.a.<br><4               |                         |
| <b>Hip fracture</b>  |                           |                         |                          |                         |
| Femoral neck fracture with surgical treatment, in-hospital mortality<br>age > 19   | < Expected value<br>1     | 5,2%<br>1.185 of 23.009 | 2,6%<br>3 of 114         | 5,3%<br>0,50            |
| Femoral neck fracture with endoprosthesis treatment, in-hospital mortality<br>age > 19   | Observed value<br>1       | 5,7%<br>1.143 of 20.147 | 3,0%<br>3 of 101         |                         |
| Femoral neck fracture with osteosynthetic treatment, in-hospital mortality<br>age > 19   | Observed value<br>1       | 1,5%<br>42 of 2.862     | 0,0%<br>0 of 13          |                         |
| Pertrochanteric fracture with surgical treatment, in-hospital mortality<br>age > 19  | < Expected value<br>1     | 5,3%<br>1.045 of 19.678 | 2,9%<br>3 of 105         | 5,1%<br>0,56            |
| Pertrochanteric fracture with endoprosthesis treatment, in-hospital mortality<br>age > 19  | Observed value<br>1       | 7,8%<br>37 of 475       | n.a.<br><4               |                         |
| Pertrochanteric fracture with osteosynthetic treatment, in-hospital mortality<br>age > 19  | Observed value<br>1       | 5,2%<br>1.008 of 19.203 | 2,9%<br>3 of 104         |                         |
| <b>Surgery of the spine and medulla</b>  |                           |                         |                          |                         |
| Surgery of the spine and medulla except local interventions for pain management  | Quantity information<br>2 | 295,5 (172)<br>113.182  | 38                       |                         |
| Spinal fusion or vertebral body replacement for trauma, in-hospital mortality  | Observed value<br>1       | 3,8%<br>571 of 14.894   | 6,3%<br>1 of 16          |                         |
| Vertebroplasty or kyphoplasty (without cancer, complex reconstr., discectomy, vertebral body replacement), in-hospital mortality | <0,51%<br>1               | 0,5682%<br>42 of 7.392  | 5,5556%<br>1 of 18       |                         |
| Other surgeries of the spine or medulla, in-hospital mortality   | Observed value<br>1       | 1,8%<br>370 of 20.986   | 0,0%<br>0 of 4           |                         |
| Local spinal interventions for pain management (without other spinal surgery)  | Quantity information<br>2 | 82,4 (37)<br>30.251     | n.a.<br><4               |                         |
| Treatment of spinal diseases (PDX) without spinal surgery or local interventions   | Quantity information<br>2 | 123,4 (103)<br>53.921   | 141                      |                         |

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|---|---|---|--|--|
| <b>Surgery on the musculoskeletal system including endoprosthesis</b> |   |   |  |  |
| Endoprosthesis of the shoulder/elbow joint                            | Quantity information<br>2                     | 29,1 (21)<br>11.128                                     | 26   |  |
| <b>Polytrauma</b>   |   |   |  |  |
| Polytrauma (according to DRG-definition)                              | Quantity information<br>2                     | 19,8 (7)<br>7.069                                       | 11   |  |



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|------------------------|------------------------|---------------------------------|---------------------------------|-------------------------|
|                        | <a href="#">Source</a> | <a href="#">Number of cases</a> | <a href="#">Number of cases</a> | <a href="#">SMR</a>     |

## Diseases of the urinary tract and the male reproductive system

### Nephrectomy

|  |                     |                         |                 |  |
|--|---------------------|-------------------------|-----------------|--|
| Radical nephrectomy, in-hospital mortality                     | <1,6%<br>1          | 1,7%<br>64 of 3.763     | n.a.<br><4      |  |
| Radical nephrectomy, share of laparoscopic procedures          | Information<br>1    | 40,6%<br>1.527 of 3.763 | n.a.<br><4      |  |
| Partial nephrectomy, in-hospital mortality                     | <0,25%<br>1         | 0,4838%<br>16 of 3.307  | n.a.<br><4      |  |
| Partial nephrectomy, share of laparoscopic procedures          | Information<br>1    | 49,6%<br>1.641 of 3.307 | n.a.<br><4      |  |
| Share of partial nephrectomies in cancer procedures            | Information<br>1    | 46,8%<br>3.307 of 7.070 | 50,0%<br>3 of 6 |  |
| Radical nephrectomy for other diagnosis, in-hospital mortality | Observed value<br>1 | 4,3%<br>92 of 2.148     | 0,0%<br>0 of 5  |  |
| Partial nephrectomy for other diagnosis, in-hospital mortality | Observed value<br>1 | 0,1738%<br>2 of 1.151   | n.a.<br><4      |  |

### Bladder surgery

|   |                           |                          |                   |  |
|---|---------------------------|--------------------------|-------------------|--|
| Inpatient cases for bladder cancer (PDX)                        | Quantity information<br>2 | 129,8 (32)<br>45.678     | 122               |  |
| Transurethral resections (TUR) at the bladder (all)             | Quantity information<br>2 | 198,8 (190)<br>46.520    | 142               |  |
| thereof transurethral resections for bladder cancer             | Quantity information<br>2 | 161,2 (154)<br>32.876    | 95                |  |
| Share of cancer TUR with intravesical instillation chemotherapy | Observed value<br>1       | 19,1%<br>6.275 of 32.876 | 26,3%<br>25 of 95 |  |
| Cystectomy, in-hospital mortality                               | <5,0%<br>1                | 4,5%<br>143 of 3.201     | 0,0%<br>0 of 10   |  |

### Transurethral resection of the prostate (TURP)

|   |             |                         |                    |  |
|---|-------------|-------------------------|--------------------|--|
| Transurethral resection of the prostate (TURP), in-hospital mortality | <0,23%<br>1 | 0,1823%<br>39 of 21.393 | 1,2195%<br>1 of 82 |  |
|---|-------------|-------------------------|--------------------|--|

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|--|---|---|--|--|
| Transurethral resection of the prostate (TURP) for malignant diseases, in-hospital mortality   | Observed value<br>1                           | 0,6682%<br>47 of 7.034                                  | 0,0%<br>0 of 32  |  |
| Transurethral resection of the prostate (TURP), share of cases with non-surgical complications | Observed value<br>1                           | 4,3%<br>1.214 of 28.427                                 | 2,6%<br>3 of 114   |  |
| Inpatient cases for prostate cancer (PDX)  | Quantity information<br>2                     | 86,9 (20)<br>33.807                                     | 56   |  |
| Prostatectomy, in-hospital mortality   | <0,19%<br>1                                   | 0,1985%<br>23 of 11.584                                 | n.a.<br><4   |  |
| <b>Kidney stones</b>   |   |   |  |  |
| Inpatient cases for kidney stones (PDX)  | Quantity information<br>2                     | 188,1 (39)<br>74.121                                    | 393  |  |
| Share of cases with interventions for stone removal  | Information<br>1                              | 53,8%<br>39.903 of 74.121                               | 44,8%<br>176 of 393  |  |

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IQM Quality indicators

| IQM<br>Target value    | IQM<br>Average value            | Hospital Effective<br>value     | Hospital<br>Expected<br>value |
|------------------------|---------------------------------|---------------------------------|-------------------------------|
| <a href="#">Source</a> | <a href="#">Number of cases</a> | <a href="#">Number of cases</a> | <a href="#">SMR</a>           |

## Diseases of the skin

### Diseases of the skin

|   |                           |                    |      |    |
|---|---------------------------|--------------------|------|----|
| Inpatient treatment for melanoma (PDX)  | Quantity Information<br>2 | 40,6 (3)<br>12.107 | 5    |    |
| Inpatient treatment for psoriasis (PDX) | Quantity Information<br>2 | 22,8 (2)<br>4.088  | n.a. | <4 |

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|------------------------|------------------------|---------------------------------|---------------------------------|-------------------------|
|                        | <a href="#">Source</a> | <a href="#">Number of cases</a> | <a href="#">Number of cases</a> | <a href="#">SMR</a>     |

## Intensive care

### Intensive care

|  |                     |                            |                    |  |
|--|---------------------|----------------------------|--------------------|--|
| Mechanical ventilation for > 24 hours (without neonates), in-hospital mortality                      | Observed value<br>1 | 37,7%<br>41.431 of 110.016 | 51,1%<br>97 of 190 |  |
| Mechanical ventilation for > 24 hours (without neonates and COVID-19), in-hospital mortality         | <34,1%<br>1         | 35,5%<br>30.744 of 86.685  | 48,3%<br>71 of 147 |  |
| Sepsis (PDX), in-hospital mortality  | Observed value<br>1 | 29,0%<br>8.470 of 29.221   | 29,7%<br>27 of 91  |  |
| thereof Sepsis with organ dysfunction or shock (PDX), in-hospital mortality                          | Observed value<br>1 | 32,4%<br>8.074 of 24.943   | 31,8%<br>27 of 85  |  |
| thereof Sepsis without organ dysfunction or shock (PDX), in-hospital mortality                       | Observed value<br>1 | 9,3%<br>396 of 4.278       | 0,0%<br>0 of 6     |  |
| Sepsis (as secondary diagnosis), in-hospital mortality   | Observed value<br>1 | 41,5%<br>29.900 of 72.123  | 43,8%<br>85 of 194 |  |
| thereof Sepsis with organ dysfunction or shock (as secondary diagnosis), in-hospital mortality       | Observed value<br>1 | 43,3%<br>29.285 of 67.555  | 44,5%<br>85 of 191 |  |
| Generalized whole-body inflammatory response without organ dysfunction (SIRS), in-hospital mortality | Information<br>1    | 8,7%<br>3.322 of 38.402    | 9,6%<br>80 of 830  |  |

### Congenital coagulation disorder

|   |                           |                     |   |  |
|---|---------------------------|---------------------|---|--|
| Patients with congenital coagulation disorders                    | Quantity information<br>2 | 30,9 (15)<br>13.431 | 7 |  |
| thereof surgical patients (with congenital coagulation disorders) | Quantity information<br>2 | 21,1 (9)<br>8.568   | 5 |  |

### Autopsy rate

|              |                  |                           |                   |  |
|--------------|------------------|---------------------------|-------------------|--|
| Autopsy rate | Information<br>1 | 0,91%<br>1.667 of 184.160 | 0,19%<br>1 of 530 |  |
|--------------|------------------|---------------------------|-------------------|--|

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| IQM Quality indicators            | IQM<br>Target value<br><br><a href="#">Source</a> | IQM<br>Average value<br><br><a href="#">Number of cases</a> | Hospital Effective<br>value<br><br><a href="#">Number of cases</a> | Hospital<br>Expected<br>value<br><br><a href="#">SMR</a> |
|-----------------------------------|---|---|--|--|
| <b>Palliative care</b>            |   |   |  |  |
| Palliative care                   |   |   |  |  |
| Palliative care complex treatment | Quantity Information<br><br>2                     | <b>185,6 (128)</b><br><br>45.649                            | <b>17</b>  |  |

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IQM Quality indicators

| IQM<br>Target value    | IQM<br>Average value            | Hospital Effective<br>value     | Hospital<br>Expected<br>value |
|------------------------|---------------------------------|---------------------------------|-------------------------------|
| <a href="#">Source</a> | <a href="#">Number of cases</a> | <a href="#">Number of cases</a> | <a href="#">SMR</a>           |

## COVID-19 key figures

### COVID-19 key figures

|  |                  |  |                                  |  |
|--|------------------|--|----------------------------------|--|
| Proportion of patients with testing for COVID-19                           | Information<br>1 | <b>88,1%</b><br>5.593.793 of 6.351.030 | <b>90,8%</b><br>14.311 of 15.769 |  |
| Proportion of patients with virus detection based on all tested patients   | Information<br>1 | <b>2,9%</b><br>163.386 of 5.593.793    | <b>2,7%</b><br>380 of 14.311     |  |
| Proportion of patients with COVID-19 virus detection based on all patients | Information<br>1 | <b>2,6%</b><br>163.388 of 6.351.072    | <b>2,4%</b><br>380 of 15.769     |  |
| COVID-19 - Proportion of patients without virus detection                  | Information<br>1 | <b>0,9%</b><br>55.480 of 6.351.072     | <b>0,1%</b><br>14 of 15.769      |  |
| COVID-19 - Patients with virus detection and severe respiratory disease    | Information<br>1 | <b>67,5%</b><br>110.272 of 163.388     | <b>73,7%</b><br>280 of 380       |  |
| COVID-19 - Patients with virus detection and selected previous illnesses   | Information<br>1 | <b>73,2%</b><br>119.556 of 163.388     | <b>72,6%</b><br>276 of 380       |  |
| COVID-19 - mortality with Virus detection                                  | Information<br>1 | <b>16,9%</b><br>27.538 of 163.388      | <b>21,6%</b><br>82 of 380        |  |

## 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 7,5% **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 9.8% **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 **2** 7.9%.

| G-IQI / CH-IQI 5.4 As of: 15.04.2023  |   | Year: 2022  |  |   |
|---|---|---|--|---|
| Whenever you use these results, please be sure to follow the instructions in the <a href="#">preamble</a> |   |   |  |   |
| IQM Quality indicators  | IQM Target value<br><small>Source</small> | IQM Average value<br><small>Number of cases</small> | Hospital Effective value<br><small>Number of cases</small> | Hospital Expected value<br><small>SMR</small> |
| <b>Diseases of the Heart</b>  |   |   |  |   |
| <b>Acute Myocardial Infarction (AMI)</b>  |   |   |  |   |
| Acute Myocardial Infarction, in-hospital mortality, observed<br>age > 19                                  | <b>1</b><br>< Expected value<br>1         | <b>2</b><br>7,9%<br>6.267 of 79.312                 | <b>3</b><br>9,8%<br>123 of 1.259                           | <b>4</b><br>7,5%<br>1,31                      |

### 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 different 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 hospitals effective value is scientifically called "standardized mortality rate", in short „SMR". If the rate is lower than 1, the hospitals 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 2020. 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 2020.
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 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.