Assessment of University Gynaecology Clinics Based on Quality Reports

Die Universitäts-Frauenkliniken im Spiegel der Qualitätsberichte

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- qynaecology
- obstetrics
- reproductive medicine

Schlüsselwörter

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Abstract

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Introduction: Quality reporting was initially implemented to offer a better means of assessing hospitals and to provide patients with information to help them when choosing their hospital. Quality reports are published every 2 years and include parameters describing the hospital's structure and general infrastructure together with specific data on individual specialised departments or clinics.

Method: This study investigated the 2010 quality reports of German university hospitals published online, focussing on the following data: number of inpatients treated by the hospital, focus of care provided by the unit/department, range of medical services and care provided by the unit/department, non-medical services provided by the unit/department, number of cases treated in the unit/department, ICD diagnoses, OPS procedures, number of outpatient procedures, day surgeries as defined by Section 115b SGB V, presence of an accident insurance consultant and number of staff employed.

Results: University gynaecology clinics (UGCs) treat 10% (range: 6-17%) of all inpatients of their respective university hospital. There were no important differences in infrastructure between clinics. All UGCs offered full medical care and were specialist clinics for gynaecology (surgery, breast centres, genital cancer, urogynaecology, endoscopy), obstetrics (prenatal diagnostics, high-risk obstetrics); many were also specialist clinics for endocrinology and reproductive medicine. On average, each clinic employs 32 physicians (range: 16-78). Half of them (30-77%) are specialists. Around 171 (117-289) inpatients are treated on average per physician. The most common ICD coded treatments were deliveries and treatment of infants. Gynaecological diagnoses are underrepresented.

Zusammenfassung

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Einleitung: Die Qualitätsberichte wurden konzipiert, um die Kompetenz der Kliniken besser darstellen zu können, sodass Patienten sich für die Auswahl der Klinik daran orientieren können. Sie werden alle 2 Jahre veröffentlicht und enthalten Parameter zu den Strukturen der Kliniken, der Infrastruktur insgesamt und spezifische Daten zu den einzelnen Fachabteilungen (Disziplinen).

Methode: In dieser Arbeit wurden die im Internet veröffentlichten Oualitätsberichte des Jahres 2010 der Universitätskliniken untersucht und die folgenden Daten ausgewertet: Anzahl der stationären Patientinnen im Gesamtklinikum, Versorgungsschwerpunkte der Organisationseinheit/ Fachabteilung, medizinisch-pflegerische Leistungsangebote der Organisationseinheit/Fachabteilung, nicht medizinische Serviceangebote der Organisationseinheit/Fachabteilung, Fallzahlen der Organisationseinheit/Fachabteilung, Diagnosen nach ICD, Prozeduren nach OPS, ambulante Behandlungsmöglichkeiten, ambulante Operationen nach § 115b SGB V, Zulassung zum Durchgangs-Arztverfahren der Berufsgenossenschaft und personelle Ausstattung.

Ergebnisse: Die Universitäts-Frauenkliniken liefern 10% (von 6 bis 17%) der stationären Fälle der jeweiligen Universitätsklinika. Bei der Beschreibung der Infrastruktur gibt es keine relevanten Unterschiede. Alle UFKs decken das gesamte Spektrum des Faches ab und sind Schwerpunkte im Bereich der Gynäkologie (operativ, Brustzentrum, Genitalkarzinome, Urogynäkologie, Endoskopie), Geburtshilfe (Pränataldiagnostik. Risikogeburtshilfe) und die meisten auch im Bereich der Endokrinologie und Reproduktionsmedizin. Im Mittel werden ca. 32 Ärztinnen und Ärzte beschäftigt (16–78). Die Hälfte davon (30– 77%) sind Fachärztinnen und Fachärzte. Pro Arztstelle werden durchschnittlich 171 (117–289) Patientinnen stationär behandelt. Die meisten **Summary:** UGCs treat 10% of all inpatients treated in university hospitals, making them important ports of entry for their respective university hospital. Around half of the physicians are specialists. Quality reports offer little information on the differences in competencies or medical specialties. The statutory quality reports are not useful for patients and referring physicians when choosing a clinic.

ICD-Schlüssel sind Entbindungen und Kinder. Gynäkologische Diagnosen sind unterrepräsentiert.

Zusammenfassung: Die UFKs sind mit ca. 10% der stationären Fälle der Universitätskliniken eine wichtige Eintrittspforte für das jeweilige Uniklinikum. Beinahe die Hälfte der Ärztinnen und Ärzte sind Fachärztinnen und Fachärzte. Kompetenzunterschiede und Schwerpunkte sind aus den Qualitätsberichten nur schwer bis gar nicht abzuleiten. Die gesetzlichen Qualitätsberichte sind für Patientinnen bei der Klinikwahl und für einweisende Ärztinnen und Ärzte bei der Beratung kaum nützlich.

Introduction



Quality reports are statutory reports as defined by Section 137 Book V of the SGB (Germany Social Welfare Code) which every hospital must publish every two years. Hospitals provide data based on certain pre-defined, standardised criteria. The structure of the quality reports is shown in **Fig. 1**.

These publications are intended to offer patients standardised information on every hospital. Quality reports are structured according to specified requirements, making it easier to compare the structures of different hospitals/clinics. Part B of the quality report aims to provide information on individual specialist clinics/departments. Data include the number of inpatients treated, the infrastructure of the specialist clinic, the number of diagnoses and procedures performed listed in order of frequency (10 most common), and the levels of staffing.

Currently, quality reports are published every 2 years and their contents are updated. This platform aims to provide information about the respective hospital or clinic as well as more transparency. One important aspect of quality reports is that all hospitals are represented within the same framework, irrespective of whether they are primary or tertiary care facilities. Hospitals offering the same levels of care (primary, secondary, tertiary) can be compared to one another [1–3].

The disadvantage of the quality reports is that they focus on quantitative aspects. The reports do not reflect criteria on the quality of medical care.

Material and Method



This study investigated the 2010 quality reports for university hospitals published online.

The following data were assessed:

- Number of inpatients treated in the university hospital (Part A)
- Focus and level of care provided by the unit/department (Part B)
- Medical services and care provided by the specialist department (Part B)
- Non-medical services provided by the unit/department (Part B)
- ► Number of cases treated in the unit/department (Part B)
- ► ICD diagnoses (Part B)
- OPS procedures performed (Part B)
- ► Number of outpatient procedures (Part B)
- ▶ Day surgery as defined in Section115b SGB V (Part B)
- ► Accident insurance consultant present (Part B)
- ► Staffing levels given as numbers of full-time employees (Part B)

A Data on structures and services

- ▶ General information
- ▶ Organisational structure of the hospital
- ▶ Regional obligation to provide psychiatric care
- ▶ Interdisciplinary medical specialties
- ▶ Interdisciplinary medical services and care
- ▶ General non-medical services offered
- ▶ Research and teaching
- Number of hospital beds as defined in Section 108/109
 SGB V
- ▶ Number of patients
- ▶ Staff
- ► Equipment

B Data on structure and services of the unit/department

- ▶ General information
- ▶ Medical specialties
- ▶ Medical services and care
- ▶ Non-medical services
- ▶ Number of patients
- ▶ ICD diagnoses
- OPS procedures
- Outpatient procedures
- Day surgeries
- Accredited accident insurance consultant
- > Staffing levels (physicians, nursing staff, therapists)

C Quality assurance

- ▶ Participation in external comparative quality assurance as defined by Section 137 para. 1 sentence 3 no. 1 SGB V (QA procedure)
- External quality assurance procedures mandated by federal state law in accordance with Section 112 SGB V
- Quality assurance for participation in Disease Management Programmes (DMP) as defined by Section 137f SGB V
- Participation in other procedures for external comparative quality assurance
- Implementation of the Agreement on Minimum Number of Cases as defined by Section 137 SGB V
- Implementation of resolutions taken by the Federal Joint Committee on Quality Assurance as defined by Section 137 para. 1 sentence 1 no. 2 SGB V
- Implementation of regulations on advanced training in hospitals as defined by Section 137 SGB V

D Quality management

- Quality policies
- ▶ Quality targets
- Establishment of quality management processes/ procedures within the facility
- Quality management tools
- Quality management projects
- Assessment of quality management

Fig. 1 Structure of quality reports.

Table 1 University hospitals (UH) and university gynaecological clinics (UGC) according to the number of inpatients (UGC and UH), day care patients and outpatients (UH). Sorted according to the ratio of UGC patients to UH patients given in percent.

Clinic	No. of in- patients per UH	No. of day care patients per UH	No. of out- patients per UH	No. of in- patients per UGC	UGC/ UH (%)
1	43 759	0	11039	2729	6.24
28	47 323	6656	240 060	2979	6.30
7	53774	337	0	3517	6.54
10	45 020	2168	155 997	2960	6.57
11	48 213	2 2 4 3	181816	3 4 3 4	7.12
12	35324	1 002	112000	2774	7.85
26	57 032	19643	208 947	4732	8.30
16	61 116	9800	413 135	5 0 9 2	8.33
9	62751	4587	257 491	5370	8.56
17	51 621	1306	206224	4482	8.68
24	47 095	4434	94305	4098	8.70
13	38486	1850	90449	3 653	9.49
4	53 926	5 9 9 7	309487	5 163	9.57
25	61 420	5 8 3 6	238381	5 9 2 9	9.65
19	46779	456	168 260	4516	9.65
30	51 406	7022	211741	5 0 4 0	9.80
3	46 447	458	325 248	4593	9.89
18	52 895	4260	362321	5301	10.02
23	48 657	484	125 827	4889	10.05
32	53 489	5418	152916	5449	10.19
20	49 451	2548	173 509	5 0 5 1	10.21
8	46 439	1891	219480	4766	10.26
15	54875	1790	370373	5822	10.61
27	43 085	971	144 075	4839	11.23
2	128 017	0	592 566	15 148	11.83
14	53 606	1882	182358	6346	11.84
5	43 213	1107	192603	5 3 6 2	12.41
21	48721	2981	278 562	6113	12.55
6	58 248	9885	387794	7 387	12.68
22	76797	8615	378 930	11950	15.56
31	45 883	3 4 6 4	216311	7 508	16.36
29	60320	2581	327 581	10486	17.38

In some cases where hospitals consisted of 2 or 3 clinics (at several speciality locations) the case numbers were simply added up. University gynaecology clinics not affiliated to university hospitals were not included in this study. Such hospitals have a non-university infrastructure for patient care which makes it more difficult to compare them with university facilities.

The following questions were investigated:

- ► How many inpatients were treated in the respective university hospitals?
- Which quantitative differences exist between university gynaecology clinics with regard to inpatient care?
- How important is gynaecology for the inpatient care of university hospitals?
- ► What are the quantitative differences in staffing levels between university gynaecology clinics?
- ▶ What information can be deduced from quality reports?

Results



1. How many inpatients are treated in the respective university hospitals?

Part A of the quality report listed the numbers of inpatients treated in the respective hospital and clinic. The number of patients are shown in • Table 1. The average number of patients was 52827 (range: 35324 to 128017). Six university hospitals (UHs) treated more than 60000 patients annually (2 of which were spread over 2 and 3 locations, respectively), 10 UHs treated 50000 to 60000 patients, 14 UHs treated between 40000 and 50000, and 2 treated fewer than 40000 patients per year.

2. Which quantitative differences exist between university gynaecology clinics with regard to inpatient care?

Part B of the quality reports showed the number of inpatients in the respective gynaecology clinic. The average number of inpatients treated in university gynaecology clinics was 5311 (range: 2729 to 15148). When the number of inpatients was divided according to the number of hospital sites, the average number of patients treated per UGC site was 5073. Four university gynaecology clinics treated fewer than 3000 women and 5 treated more than 7000 inpatients per year. The other 23 UGCs treated between 3000 and 7000 women annually (3 UGCs treated between 3000 and 4000; 8 UGCs between 4000 and 5000; 10 UGCs between 5000 and 6000 and 2 between 6000 and 7000 women per year).

3. How important is gynaecology for the inpatient care of university hospitals?

The university gynaecology clinics treated an average of 10% of all inpatients of their respective university hospital (between 6 and 17%). Three UGCs treated more than 13% and 6 UGCs treated less than 8%.

4. What are the quantitative differences in staffing levels between university gynaecology clinics?

○ Table 2 shows the number of staff for the respective university gynaecology clinics. On average, UGCs employed around 32 physicians (between 16 and 78). The number of specialist physicians was around 16 per university gynaecology clinic (min. 8 to max. 36.5). This means that around 50% of physicians employed were specialists (30 to 77%). An average of 171 (117 to 289) inpatients were treated per physician.

5. What information can be deduced from quality reports?

No relevant differences between UGCs were found with regard to the focus of care of the unit/department, the medical services and care offered by the unit/department, or the non-medical services provided by the unit/department.

The most common diagnoses and procedures are listed in • Tables 3 and 4.

The most common diagnosis was Z38 (30 clinics, range: 384–1559) with one clinic listing O68 as the most common (n = 399). In 3 clinics Z38 was not found among the 10 most common diagnoses. In these clinics C50 (2 clinics, 331 and 460, respectively) and O42 (1 clinic, n = 435) were the most frequently diagnosis. The second most common diagnoses were: C50 (14 clinics, range: 267–840), D25 (6 clinics, range: 144–631), O70 (5 clinics, range: 330–445), O42 (2 clinics, range: 267–335), O68 in two clinics (n = 428), O60 (n = 175), O34 (n = 232), N39 (n = 109) and Z38 (n = 393).

Table 2 Physicians employed by UGCs.

Clinic	No. of in- patients per UGC	No. of physi- cians	No. of special- ists	Special- ists/ physi- cians	No. of in- patients per physician
10	2960	16.0	8.0	50.00	185.00
1	2729	17.3	9.3	53.76	157.75
24	4098	18.7	9.7	51.87	219.14
17	4482	19.8	7.6	38.38	226.36
11	3434	20.5	9.7	47.32	167.51
12	2774	21.8	16.8	77.06	127.25
13	3653	22.9	7.7	33.62	159.52
4	5 163	24.6	11.6	47.15	209.88
15	5822	25.0	13.0	52.00	232.88
28	2979	25.5	17.0	66.67	116.82
26	4732	25.9	10.8	41.70	182.70
31	7508	26.0	14.0	53.85	288.77
8	4766	26.5	14.0	52.83	179.85
21	6113	27.0	17.0	62.96	226.41
7	3517	27.0	18.0	66.67	130.26
9	5370	30.4	16.9	55.59	176.64
25	5 9 2 9	30.5	18.5	60.66	194.39
32	5 4 4 9	31.8	13.0	40.94	171.62
3	4593	31.8	9.7	30.50	144.43
20	5 0 5 1	32.0	20.0	62.50	157.84
5	5362	32.6	14.9	45.71	164.48
18	5301	32.8	14.0	42.68	161.62
27	4839	34.3	13.3	38.78	141.08
23	4889	36.7	17.2	46.87	133.22
14	6346	36.7	17.9	48.77	172.92
19	4516	37.7	21.0	55.70	119.79
16	5 0 9 2	37.8	15.3	40.48	134.71
6	7 3 8 7	41.5	13.5	32.53	178.00
30	5 040	41.8	21.7	51.91	120.57
29	10486	50.8	31.5	62.01	206.42
22	11950	73.5	36.9	50.20	162.59
2	15 148	78.0	36.7	47.05	194.21

The third most common diagnoses were obstetrical (068, 042, 024, 034, 070, 071, 099; 24 clinics, range: 125–344), N81 (3 clinics, range: 105–369), C50 (3 clinics, range: 257–311), D25 twice (n = 52 und n = 82), C56 twice (n = 97 und n = 132).

The fourth most common diagnoses were mostly obstetrical (n = 14, range 116–295), gynaecological (9 clinics, range: 70–275) and gynaecological oncology diagnoses (6 clinics, range: 43-347).

The fifth most common diagnoses were obstetrical (n = 23, range 85–302), gynaecological (6 clinics, range: 33–228) and gynaecological oncology diagnoses (2 clinics, range: 119–156).

Thereafter, the most common diagnoses were obstetrical diagnoses (the sixth most common in 19 clinics, the seventh most common in 22 clinics, the eighth most common in 18 clinics, the ninth most common in 20 clinics and the tenth most common in 20 clinics).

When assessing individual clinics according to the most common diagnoses (10 most common) of the 86968 diagnoses made, 77.7% (43.4–100%) were obstetrical diagnoses. With the exception of 4 clinics, the diagnosis Z38 is the most common. In one clinic it was the second most common, while in 3 clinics it did not make the top 10. 15% of cases were gynaecological-oncology diagnoses and 7.3% of diagnoses were purely gynaecological. The average number of gynaecological diagnoses among the top

10 was 2.5 (0-5). The remaining 7.5 were obstetrical diagnoses.

The 2010 quality reports listed 31 UHs with a level 1 perinatal centre. Only one UH did not have a level 1 perinatal centre. 17 quality reports described their facility as a CCC (comprehensive cancer centre).

Discussion



Quality reports are published every 2 years. The collected data are standardised and are intended to help patients select the optimal clinic for their needs. The high level of standardisation has the advantage that it permits data from different clinics to be compared. But the quality reports are quite extensive and difficult for patients to interpret. The contents of quality reports offer few benefits. Quality reports focus in the first instance on data relating to the infrastructure of the entire hospital complex (Part A of the quality report) and of the specialist clinics (Part B of the quality report), together with quantitative information such as ICD codes (diagnoses), therapies and staffing levels. However the level of specialist expertise available in the respective clinic is difficult to represent in these reports. The quality of care cannot be easily objectified. There are numerous quality criteria for every disorder, which only describe certain aspects. These quality criteria are so extensive that they cannot be integrated into a quality report. But not all diseases have quality criteria, and even when quality criteria are defined, opinions often diverge as to the significance of various criteria [4].

Quality reports are not well known. Several retrospective studies have shown that fewer than half of all surveyed physicians knew of the existence of these legally mandated quality reports. Younger physicians were more likely to know about them but did not use the quality reports more frequently than their older colleagues. Overall, only about one in ten physicians stated that they actively made use of quality reports in their original format during consultations with patients. Some preferred to use the electronic versions of the quality report data, particularly in the format provided by some of the numerous internet portals which offer comparisons between hospitals. Overall, the legally mandated quality reports played only a minor role in the run-up to patients being admitted to hospital [6].

The situation is rather different for rehab clinics and psychosomatic clinics. The quality reports of rehab clinics are consulted by (potential) users who view them as an important source of information. The reports do not focus on the target group "Patients" and do not predominantly look at the most important areas of interest [7]. The introduction of quality reports for psychosomatic clinics provided an initial approach, allowing these clinics to be compared based on their infrastructure and the quality of their processes [8].

This study compared the quality reports of university gynaecology clinics. The question was, which data could a potential user deduce from a comparison of quality reports.

When comparing university hospitals, it was noticeable that the number of inpatients per year treated at different clinics varied widely (from 35 324 to 128 017). This figure is surely of little relevance for patients. A university hospital with lower number of patients can possess outstanding specialist knowledge in a particular field and a university hospital with high numbers of patients may not offer the required expert knowledge. The probability of specific specialist knowledge being available may be higher in a large university hospital compared to a small one, but the potential user has to read Part B of the quality report to

 Table 3
 The 10 most common diagnoses in each UGC.

Table 4 The 10 most common 10 OPS codes used in each UGC.

3	OPS1	N1	OPS2	N2	OPS3	N3	OPS4	N4	OPS5	N5
	1-208	825	5-749	803	5-758	505	9-261	208	5-870	158
4	8-542	3 0 4 1	9-262	1892	5-758	1104	9-261	861	5-749	787
16	8-542	3901	8-547	2727	6-001	1456	6-002	1178	9-262	1064
12	9-260	327	5-758	272	5-749	253	5-870	191	5-738	180
4	9-260	1057	9-262	1 056 384	1-208	997	5-758	766	5-749	563
32	9-261	454	8-542		5-740	424	5-758	323	5-401	285
18	9-261	1180	9-262	1173	8-542	970	5-758	859	8-547	437
26	9-261	1328	9-262	1 107	8-543	965	1-208	896	5-758	721
13	9-262	884	1-208	854	5-749	434	1-671	423	5-704	414
27	9-262	1099	5-401	526	5-740	448	5-870	396	5-758	374
2	9-262	3301	9-261	2726	1-208	2425	9-260	1887	8-910	1761
1	9-262	876	5-749	239	9-260	183	5-740	162	9-261	156
5	9-262	1679	5-740	628	9-260	511	5-758	465	5-740	424
6	9-262	1688	1-208	1562	5-758	846	8-542	846	9-261	697
7	9-262	657	1-242	623	5-749	476	9-260	317	5-870	284
8	9-262	1473	5-758	976	5-749	631	9-261	527	5-870	235
9	9-262	1344	8-930	1237	1-208	943	5-741	711	3-05 d	596
10	9-262	1 445	5-740	458	9-261	437	5-730	381	5-758	283
11	9-262	552	5-741	336	9-261	332	9-401	295	5-401	250
24	9-262	1157	9-260	515	5-738	357	9-261	308	5-730	276
15	9-262	1718	9-261	599	5-749	561	5-758	468	9-260	414
19	9-262	1303	5-758	662	9-260	634	1-208	572	5-740	458
20	9-262	1450	5-749	815	8-711	511	9-260	446	5-870	423
21	9-262	1565	5-758	908	9-261	822	5-730	705	9-260	615
22	9-262	3 3 9 8	1-208	2950	9-261	2623	5-758	2406	8-910	2198
23	9-262	999	5-758	508	9-401	473	5-740	428	1-208	364
31	9-262	2541	1-208	1 797	5-758	1593	9-261	1 404	5-730	823
25	9-262	1375	9-261	830	8-910	769	5-740	534	5-738	414
17	9-262	1011	1-208	943	5-749	417	5-758	345	5-738	255
28	9-262	682	5-749	411	5-401	291	5-758	259	9-401	244
30	9-262	1 296	5-758	981	8-910	866	8-930	777	5-749	631
29	9-262	2677	5-983	1 295	9-260	1 197	5-758	1118	5-740	1020
Clinic	OPS6	N6	OPS7	N7	OPS8	N8	OPS9	N9	OPS10	N10
13	9-261	403	5-758	299	5-932	254	5-401	240	5-870	229
32	5-870	230	5-756	220	5-683	205	5-690	177	5-653	162
3	5-754	146	1-672	142	9-262	130	9-260	98	5-543	97
29	8-910	792	5-704	786	5-657	772	1-853	771	5-681	709
14	5-892	745	8-547	442	9-260	438	8-547	442	5-870	296
16	8-543									
18		877	5-749	845	8-930	678	5-758	495	8-800	417
12	5-401	877 285	5-749 5-704	845 268	8-930 5-749					417 226
12	5-401 5-683					678	5-758	495	8-800	
		285	5-704	268	5-749	678 268	5-758 5-549	495 267	8-800 6-001	226
	5-683	285 177	5-704 9-261	268 160	5-749 8-522	678 268 150	5-758 5-549 3-990	495 267 141	8-800 6-001 9-401	226 140
27	5-683 5-683	285 177 248	5-704 9-261 9-401	268 160 231	5-749 8-522 5-657	678 268 150 229	5-758 5-549 3-990 9-261	495 267 141 196	8-800 6-001 9-401 9-260	226 140 176
27 4 2	5-683 5-683 5-738	285 177 248 470	5-704 9-261 9-401 8-910	268 160 231 382	5-749 8-522 5-657 9-261	678 268 150 229 381	5-758 5-549 3-990 9-261 8-542	495 267 141 196 340	8-800 6-001 9-401 9-260 5-730	226 140 176 238
27 4 2	5-683 5-683 5-738 5-749	285 177 248 470 1602	5-704 9-261 9-401 8-910 5-758	268 160 231 382 1000	5-749 8-522 5-657 9-261 5-730	678 268 150 229 381 634	5-758 5-549 3-990 9-261 8-542 1-472	495 267 141 196 340 614	8-800 6-001 9-401 9-260 5-730 5-738	226 140 176 238 536
27 4 2 26	5-683 5-683 5-738 5-749 5-749	285 177 248 470 1602 506	5-704 9-261 9-401 8-910 5-758 6-001	268 160 231 382 1000 490	5-749 8-522 5-657 9-261 5-730 8-910	678 268 150 229 381 634 209	5-758 5-549 3-990 9-261 8-542 1-472 8-547	495 267 141 196 340 614 208	8-800 6-001 9-401 9-260 5-730 5-738 5-740	226 140 176 238 536 195
27 4 2 26 1	5-683 5-683 5-738 5-749 5-749 5-758	285 177 248 470 1602 506 124	5-704 9-261 9-401 8-910 5-758 6-001 5-738	268 160 231 382 1000 490	5-749 8-522 5-657 9-261 5-730 8-910 5-683	678 268 150 229 381 634 209	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690	495 267 141 196 340 614 208 88	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651	226 140 176 238 536 195
27 4 2 26 1 5	5-683 5-683 5-738 5-749 5-749 5-758 9-261	285 177 248 470 1602 506 124 402	5-704 9-261 9-401 8-910 5-758 6-001 5-738 5-738	268 160 231 382 1000 490 117 241	5-749 8-522 5-657 9-261 5-730 8-910 5-683 5-690	678 268 150 229 381 634 209 97	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690 5-728	495 267 141 196 340 614 208 88 139	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651 5-870	226 140 176 238 536 195 67
27 4 2 26 1 5	5-683 5-683 5-738 5-749 5-749 5-758 9-261 5-749	285 177 248 470 1602 506 124 402 695	5-704 9-261 9-401 8-910 5-758 6-001 5-738 5-738 8-910	268 160 231 382 1000 490 117 241 658	5-749 8-522 5-657 9-261 5-730 8-910 5-683 5-690 5-730	678 268 150 229 381 634 209 97 158 641	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690 5-728 5-401	495 267 141 196 340 614 208 88 139 572	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651 5-870 5-657	226 140 176 238 536 195 67 135
27 4 2 26 1 5 6 7	5-683 5-683 5-738 5-749 5-749 5-758 9-261 5-749 5-758	285 177 248 470 1602 506 124 402 695 267	5-704 9-261 9-401 8-910 5-758 6-001 5-738 5-738 8-910 5-730	268 160 231 382 1000 490 117 241 658 256	5-749 8-522 5-657 9-261 5-730 8-910 5-683 5-690 5-730 5-657	678 268 150 229 381 634 209 97 158 641 255	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690 5-728 5-401 8-910	495 267 141 196 340 614 208 88 139 572 220	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651 5-870 5-657 9-261	226 140 176 238 536 195 67 135 568
27 4 2 26 1 5 6 7 8	5-683 5-683 5-738 5-749 5-749 5-758 9-261 5-749 5-758 5-720	285 177 248 470 1602 506 124 402 695 267 201	5-704 9-261 9-401 8-910 5-758 6-001 5-738 5-738 8-910 5-730 5-401	268 160 231 382 1000 490 117 241 658 256 181	5-749 8-522 5-657 9-261 5-730 8-910 5-683 5-690 5-730 5-657 5-756	678 268 150 229 381 634 209 97 158 641 255 136	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690 5-728 5-401 8-910 1-672	495 267 141 196 340 614 208 88 139 572 220	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651 5-870 5-657 9-261 5-690	226 140 176 238 536 195 67 135 568 217 107
27 4 2 26 1 5 6 7 8 9	5-683 5-683 5-738 5-749 5-749 5-758 9-261 5-749 5-758 5-720 5-758	285 177 248 470 1602 506 124 402 695 267 201 494	5-704 9-261 9-401 8-910 5-758 6-001 5-738 5-738 8-910 5-730 5-401 5-881	268 160 231 382 1000 490 117 241 658 256 181 448	5-749 8-522 5-657 9-261 5-730 8-910 5-683 5-690 5-730 5-657 5-756	678 268 150 229 381 634 209 97 158 641 255 136 391	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690 5-728 5-401 8-910 1-672 9-260	495 267 141 196 340 614 208 88 139 572 220 128 328	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651 5-870 5-657 9-261 5-690 5-870	226 140 176 238 536 195 67 135 568 217
27 4 2 226 1 1 5 6 7 8 9 9	5-683 5-683 5-738 5-749 5-749 5-758 9-261 5-749 5-758 5-720 5-758 1-208	285 177 248 470 1602 506 124 402 695 267 201 494 256	5-704 9-261 9-401 8-910 5-758 6-001 5-738 5-738 8-910 5-730 5-401 5-881 5-983	268 160 231 382 1000 490 117 241 658 256 181 448	5-749 8-522 5-657 9-261 5-730 8-910 5-683 5-690 5-730 5-657 5-756 9-261 5-738	678 268 150 229 381 634 209 97 158 641 255 136 391 210	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690 5-728 5-401 8-910 1-672 9-260 9-280	495 267 141 196 340 614 208 88 139 572 220 128 328 198	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651 5-870 5-657 9-261 5-690 5-870 5-683	226 140 176 238 536 195 67 135 568 217 107 327
27 4 2 26 1 5 6 7 8 9 10 11	5-683 5-683 5-738 5-749 5-749 5-758 9-261 5-749 5-758 5-720 5-758 1-208 5-870 5-758	285 177 248 470 1602 506 124 402 695 267 201 494 256 238 271	5-704 9-261 9-401 8-910 5-758 6-001 5-738 5-738 8-910 5-730 5-401 5-881 5-983 5-758 5-749	268 160 231 382 1000 490 117 241 658 256 181 448 236 194 243	5-749 8-522 5-657 9-261 5-730 8-910 5-683 5-690 5-730 5-657 5-756 9-261 5-738 5-738 8-910	678 268 150 229 381 634 209 97 158 641 255 136 391 210 186 219	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690 5-728 5-401 8-910 1-672 9-260 9-280 8-543 5-683	495 267 141 196 340 614 208 88 139 572 220 128 328 198 185 184	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651 5-870 5-657 9-261 5-690 5-870 5-683 5-886 8-542	226 140 176 238 536 195 67 135 568 217 107 327 184 162
27 4 2 2 26 1 5 6 7 8 9 9 110 111 24	5-683 5-683 5-738 5-749 5-749 5-758 9-261 5-749 5-758 5-720 5-758 1-208 5-870 5-758 5-758 5-758	285 177 248 470 1602 506 124 402 695 267 201 494 256 238 271	5-704 9-261 9-401 8-910 5-758 6-001 5-738 5-738 8-910 5-730 5-401 5-881 5-983 5-758 5-749 5-681	268 160 231 382 1000 490 117 241 658 256 181 448 236 194 243 327	5-749 8-522 5-657 9-261 5-730 8-910 5-683 5-690 5-730 5-657 5-756 9-261 5-738 5-738 8-910 5-469	678 268 150 229 381 634 209 97 158 641 255 136 391 210 186 219 221	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690 5-728 5-401 8-910 1-672 9-260 9-280 8-543 5-683 5-683	495 267 141 196 340 614 208 88 139 572 220 128 328 198 185 184 202	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651 5-870 5-657 9-261 5-690 5-870 5-683 5-886 8-542 5-651	226 140 176 238 536 195 67 135 568 217 107 327 184 162 173
27 4 2 26 1 5 6 7 8 9 10 11 24 15	5-683 5-683 5-738 5-749 5-749 5-758 9-261 5-749 5-758 5-720 5-758 1-208 5-870 5-758 5-870	285 177 248 470 1602 506 124 402 695 267 201 494 256 238 271 381 384	5-704 9-261 9-401 8-910 5-758 6-001 5-738 5-738 8-910 5-730 5-401 5-881 5-983 5-758 5-749 5-681 3-760	268 160 231 382 1000 490 117 241 658 256 181 448 236 194 243 327 318	5-749 8-522 5-657 9-261 5-730 8-910 5-683 5-690 5-730 5-657 5-756 9-261 5-738 5-738 8-910 5-469 5-401	678 268 150 229 381 634 209 97 158 641 255 136 391 210 186 219 221 295	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690 5-728 5-401 8-910 1-672 9-260 9-280 8-543 5-683 5-683 5-683	495 267 141 196 340 614 208 88 139 572 220 128 328 198 185 184 202 272	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651 5-870 5-657 9-261 5-690 5-870 5-683 5-886 8-542 5-651 5-681	226 140 176 238 536 195 67 135 568 217 107 327 184 162 173 187
27 4 2 26 1 5 6 7 8 9 10 11 24 15 19 20	5-683 5-683 5-738 5-749 5-749 5-758 9-261 5-749 5-758 5-720 5-758 1-208 5-870 5-758 5-738 5-738 5-870 5-886	285 177 248 470 1602 506 124 402 695 267 201 494 256 238 271 381 384 410	5-704 9-261 9-401 8-910 5-758 6-001 5-738 5-738 8-910 5-730 5-401 5-881 5-983 5-758 5-749 5-681 3-760 5-758	268 160 231 382 1000 490 117 241 658 256 181 448 236 194 243 327 318 324	5-749 8-522 5-657 9-261 5-730 8-910 5-683 5-690 5-730 5-657 5-756 9-261 5-738 5-738 8-910 5-469 5-401 5-401	678 268 150 229 381 634 209 97 158 641 255 136 391 210 186 219 221 295 317	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690 5-728 5-401 8-910 1-672 9-260 9-280 8-543 5-683 5-683 5-657 9-261	495 267 141 196 340 614 208 88 139 572 220 128 328 198 185 184 202 272 230	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651 5-870 5-657 9-261 5-690 5-870 5-683 5-886 8-542 5-651 5-681 5-681	226 140 176 238 536 195 67 135 568 217 107 327 184 162 173 187 230
27 4 2 26 1 5 6 7 8 9 10 11 24 15 19 20 21	5-683 5-683 5-738 5-749 5-749 5-758 9-261 5-749 5-758 5-720 5-758 1-208 5-870 5-758 5-738 5-870 5-886 5-749	285 177 248 470 1602 506 124 402 695 267 201 494 256 238 271 381 384 410 587	5-704 9-261 9-401 8-910 5-758 6-001 5-738 5-738 8-910 5-730 5-401 5-881 5-983 5-758 5-749 5-681 3-760 5-758 8-920	268 160 231 382 1000 490 117 241 658 256 181 448 236 194 243 327 318 324 502	5-749 8-522 5-657 9-261 5-730 8-910 5-683 5-690 5-730 5-657 5-756 9-261 5-738 5-738 8-910 5-469 5-401 5-401 8-910	678 268 150 229 381 634 209 97 158 641 255 136 391 210 186 219 221 295 317 428	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690 5-728 5-401 8-910 1-672 9-260 9-280 8-543 5-683 5-683 5-657 9-261 5-738	495 267 141 196 340 614 208 88 139 572 220 128 328 198 185 184 202 272 230 389	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651 5-870 5-657 9-261 5-690 5-870 5-683 5-886 8-542 5-651 5-681 5-681 5-681 3-990	226 140 176 238 536 195 67 135 568 217 107 327 184 162 173 187 230
27 4 2 26 1 5 6 7 8 9 10 11 24 15 19 20 21	5-683 5-683 5-738 5-749 5-749 5-758 9-261 5-749 5-758 5-720 5-758 1-208 5-870 5-758 5-738 5-870 5-886 5-749 5-749	285 177 248 470 1602 506 124 402 695 267 201 494 256 238 271 381 384 410 587 1162	5-704 9-261 9-401 8-910 5-758 6-001 5-738 5-738 8-910 5-730 5-401 5-881 5-983 5-758 5-749 5-681 3-760 5-758 8-020 8-132	268 160 231 382 1000 490 117 241 658 256 181 448 236 194 243 327 318 324 502 1033	5-749 8-522 5-657 9-261 5-730 8-910 5-683 5-690 5-730 5-657 5-756 9-261 5-738 5-738 8-910 5-469 5-401 5-401 8-910 8-930	678 268 150 229 381 634 209 97 158 641 255 136 391 210 186 219 221 295 317 428 672	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690 5-728 5-401 8-910 1-672 9-260 9-280 8-543 5-683 5-683 5-657 9-261 5-738 9-260	495 267 141 196 340 614 208 88 139 572 220 128 328 198 185 184 202 272 230 389 439	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651 5-870 5-657 9-261 5-690 5-870 5-683 5-886 8-542 5-651 5-681 5-681 5-681 5-681 5-690 5-690	226 140 176 238 536 195 67 135 568 217 107 327 184 162 173 187 230 158 308
27 4 2 26 1 5 6 7 8 9 10 11 24 15 19 20 21 22 23	5-683 5-683 5-738 5-749 5-749 5-758 9-261 5-749 5-758 5-720 5-758 1-208 5-870 5-758 5-738 5-870 5-886 5-749 5-749 5-738	285 177 248 470 1602 506 124 402 695 267 201 494 256 238 271 381 384 410 587 1162 260	5-704 9-261 9-401 8-910 5-758 6-001 5-738 5-738 8-910 5-730 5-401 5-881 5-983 5-758 5-749 5-681 3-760 5-758 8-020 8-132 5-401	268 160 231 382 1000 490 117 241 658 256 181 448 236 194 243 327 318 324 502 1033 241	5-749 8-522 5-657 9-261 5-730 8-910 5-683 5-690 5-730 5-657 5-756 9-261 5-738 8-910 5-469 5-401 5-401 8-910 8-930 9-260	678 268 150 229 381 634 209 97 158 641 255 136 391 210 186 219 221 295 317 428 672 231	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690 5-728 5-401 8-910 1-672 9-260 9-280 8-543 5-683 5-683 5-657 9-261 5-738 9-260 3-760	495 267 141 196 340 614 208 88 139 572 220 128 328 198 185 184 202 272 230 389 439 217	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651 5-870 5-657 9-261 5-690 5-870 5-683 5-886 8-542 5-651 5-681 5-681 3-990 5-690 5-683	226 140 176 238 536 195 67 135 568 217 107 327 184 162 173 187 230 158 308 398 215
27 4 2 26 1 5 6 7 8 9 10 11 24 15 19 20 21 22 23 31	5-683 5-683 5-738 5-749 5-749 5-758 9-261 5-749 5-758 5-720 5-758 1-208 5-870 5-758 5-738 5-870 5-886 5-749 5-749 5-738 5-749	285 177 248 470 1602 506 124 402 695 267 201 494 256 238 271 381 384 410 587 1162 260 625	5-704 9-261 9-401 8-910 5-758 6-001 5-738 5-738 8-910 5-730 5-401 5-881 5-983 5-758 5-749 5-681 3-760 5-758 8-020 8-132 5-401 5-740	268 160 231 382 1000 490 117 241 658 256 181 448 236 194 243 327 318 324 502 1033 241 582	5-749 8-522 5-657 9-261 5-730 8-910 5-683 5-690 5-730 5-657 5-756 9-261 5-738 8-910 5-469 5-401 8-910 8-930 9-260 5-401	678 268 150 229 381 634 209 97 158 641 255 136 391 210 186 219 221 295 317 428 672 231 378	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690 5-728 5-401 8-910 1-672 9-260 9-280 8-543 5-683 5-683 5-657 9-261 5-738 9-260 3-760 8-930	495 267 141 196 340 614 208 88 139 572 220 128 328 198 185 184 202 272 230 389 439 217 376	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651 5-870 5-657 9-261 5-690 5-870 5-683 5-886 8-542 5-651 5-681 5-681 3-990 5-690 5-683 8-980	226 140 176 238 536 195 67 135 568 217 107 327 184 162 173 187 230 158 308 398 215
27 4 2 26 1 5 6 7 8 9 10 11 24 15 19 20 21 22 23 31	5-683 5-683 5-738 5-749 5-749 5-758 9-261 5-749 5-758 5-720 5-758 1-208 5-870 5-758 5-738 5-870 5-886 5-749 5-749 5-738 5-749 5-749 5-738 5-749 5-749 5-704	285 177 248 470 1602 506 124 402 695 267 201 494 256 238 271 381 384 410 587 1162 260 625 386	5-704 9-261 9-401 8-910 5-758 6-001 5-738 5-738 8-910 5-730 5-401 5-881 5-983 5-758 5-749 5-681 3-760 5-758 8-020 8-132 5-401 5-740 9-260	268 160 231 382 1000 490 117 241 658 256 181 448 236 194 243 327 318 324 502 1033 241 582 286	5-749 8-522 5-657 9-261 5-730 8-910 5-683 5-690 5-730 5-657 5-756 9-261 5-738 8-910 5-469 5-401 5-401 8-910 8-930 9-260 5-401 5-683	678 268 150 229 381 634 209 97 158 641 255 136 391 210 186 219 221 295 317 428 672 231 378 237	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690 5-728 5-401 8-910 1-672 9-260 9-280 8-543 5-683 5-683 5-657 9-261 5-738 9-260 3-760 8-930 1-471	495 267 141 196 340 614 208 88 139 572 220 128 328 198 185 184 202 272 230 389 439 217 376 221	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651 5-870 5-657 9-261 5-690 5-870 5-683 5-886 8-542 5-651 5-681 5-681 3-990 5-690 5-683 8-980 5-749	226 140 176 238 536 195 67 135 568 217 107 327 184 162 173 187 230 308 398 215 370 200
2 26 1 5 6 7	5-683 5-683 5-738 5-749 5-749 5-758 9-261 5-749 5-758 5-720 5-758 1-208 5-870 5-758 5-738 5-870 5-886 5-749 5-749 5-738 5-749	285 177 248 470 1602 506 124 402 695 267 201 494 256 238 271 381 384 410 587 1162 260 625	5-704 9-261 9-401 8-910 5-758 6-001 5-738 5-738 8-910 5-730 5-401 5-881 5-983 5-758 5-749 5-681 3-760 5-758 8-020 8-132 5-401 5-740	268 160 231 382 1000 490 117 241 658 256 181 448 236 194 243 327 318 324 502 1033 241 582	5-749 8-522 5-657 9-261 5-730 8-910 5-683 5-690 5-730 5-657 5-756 9-261 5-738 8-910 5-469 5-401 8-910 8-930 9-260 5-401	678 268 150 229 381 634 209 97 158 641 255 136 391 210 186 219 221 295 317 428 672 231 378	5-758 5-549 3-990 9-261 8-542 1-472 8-547 5-690 5-728 5-401 8-910 1-672 9-260 9-280 8-543 5-683 5-683 5-657 9-261 5-738 9-260 3-760 8-930	495 267 141 196 340 614 208 88 139 572 220 128 328 198 185 184 202 272 230 389 439 217 376	8-800 6-001 9-401 9-260 5-730 5-738 5-740 5-651 5-870 5-657 9-261 5-690 5-870 5-683 5-886 8-542 5-651 5-681 5-681 3-990 5-690 5-683 8-980	226 140 176 238 536 195 67 135 568 217 107 327 184 162 173 187 230 158 308 398 215

Table 4 The 10 most common 10 OPS codes used in each UGC. *(continued)*

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1-208	Recording of evoked potentials
1-242	Audiometry, paediatric audiometry
1-661	Diagnostic urethrocystoscopy
1-671	Diagnostic colposcopy
1-672	Diagnostic hysteroscopy
1-853	Diagnostic (percutaneous) puncture and aspiration of the abdominal cavity
5-892	Other incisions of the skin and hypodermis
3-05 d	Endosonography of female genitalia
3-760	Probe measurement in SLNE (sentinel lymph node extirpation)
5-401	Excision of individual lymph nodes and lymphatic vessels
5-469	Other intestinal surgery
5-543	Excision and destruction of peritoneal tissue
5-549	Other abdominal surgery
5-569	Other ureteral surgery
5-657	Adhesiolysis of ovary and fallopian tube without microsurgery
5-683	Exstirpation of the uterus (hysterectomy)
5-704	Vaginal colporrhaphy and pelvic floor plasty
5-730	Artificial rupture of membranes (amniotomy)
5-738	Episiotomy and suturing
5-740	Classic caesarean section
5-741	Caesarean section, supracervical and corporal
5-749	Other caesarean section
5-756	Removal of retained placenta (postpartum)
5-758	Reconstruction of female genitalia after rupture, postpartum (perineal tear)
	Reconstruction of female genitalia after rupture, postpartum (perineal tear) Partial (breast-conserving) excision of the breast and destruction of breast
5-758 5-870	Reconstruction of female genitalia after rupture, postpartum (perineal tear) Partial (breast-conserving) excision of the breast and destruction of breast tissue without axillary lymphadenectomy
5-758	Reconstruction of female genitalia after rupture, postpartum (perineal tear) Partial (breast-conserving) excision of the breast and destruction of breast tissue without axillary lymphadenectomy Re-operation: this additional code must be used if the operated area is
5-758 5-870 5-983	Reconstruction of female genitalia after rupture, postpartum (perineal tear) Partial (breast-conserving) excision of the breast and destruction of breast tissue without axillary lymphadenectomy Re-operation: this additional code must be used if the operated area is re-opened to treat a complication, to perform an operation for recurrence
5-758 5-870 5-983 5-932	Reconstruction of female genitalia after rupture, postpartum (perineal tear) Partial (breast-conserving) excision of the breast and destruction of breast tissue without axillary lymphadenectomy Re-operation: this additional code must be used if the operated area is re-opened to treat a complication, to perform an operation for recurrence Type of material used for tissue replacement and tissue reinforcement
5-758 5-870 5-983 5-932 6-001	Reconstruction of female genitalia after rupture, postpartum (perineal tear) Partial (breast-conserving) excision of the breast and destruction of breast tissue without axillary lymphadenectomy Re-operation: this additional code must be used if the operated area is re-opened to treat a complication, to perform an operation for recurrence Type of material used for tissue replacement and tissue reinforcement Administration of drugs, list 1
5-758 5-870 5-983 5-932 6-001 6-002	Reconstruction of female genitalia after rupture, postpartum (perineal tear) Partial (breast-conserving) excision of the breast and destruction of breast tissue without axillary lymphadenectomy Re-operation: this additional code must be used if the operated area is re-opened to treat a complication, to perform an operation for recurrence Type of material used for tissue replacement and tissue reinforcement Administration of drugs, list 1 Administration of drugs, list 2
5-758 5-870 5-983 5-932 6-001 6-002 8-132	Reconstruction of female genitalia after rupture, postpartum (perineal tear) Partial (breast-conserving) excision of the breast and destruction of breast tissue without axillary lymphadenectomy Re-operation: this additional code must be used if the operated area is re-opened to treat a complication, to perform an operation for recurrence Type of material used for tissue replacement and tissue reinforcement Administration of drugs, list 1 Administration of drugs, list 2 Bladder manipulations
5-758 5-870 5-983 5-932 6-001 6-002 8-132 8-542	Reconstruction of female genitalia after rupture, postpartum (perineal tear) Partial (breast-conserving) excision of the breast and destruction of breast tissue without axillary lymphadenectomy Re-operation: this additional code must be used if the operated area is re-opened to treat a complication, to perform an operation for recurrence Type of material used for tissue replacement and tissue reinforcement Administration of drugs, list 1 Administration of drugs, list 2 Bladder manipulations Uncomplicated chemotherapy: 1 day
5-758 5-870 5-983 5-932 6-001 6-002 8-132	Reconstruction of female genitalia after rupture, postpartum (perineal tear) Partial (breast-conserving) excision of the breast and destruction of breast tissue without axillary lymphadenectomy Re-operation: this additional code must be used if the operated area is re-opened to treat a complication, to perform an operation for recurrence Type of material used for tissue replacement and tissue reinforcement Administration of drugs, list 1 Administration of drugs, list 2 Bladder manipulations Uncomplicated chemotherapy: 1 day Moderately complex and intensive chemotherapy administered over more
5-758 5-870 5-983 5-932 6-001 6-002 8-132 8-542 8-543	Reconstruction of female genitalia after rupture, postpartum (perineal tear) Partial (breast-conserving) excision of the breast and destruction of breast tissue without axillary lymphadenectomy Re-operation: this additional code must be used if the operated area is re-opened to treat a complication, to perform an operation for recurrence Type of material used for tissue replacement and tissue reinforcement Administration of drugs, list 1 Administration of drugs, list 2 Bladder manipulations Uncomplicated chemotherapy: 1 day Moderately complex and intensive chemotherapy administered over more than 1 day
5-758 5-870 5-983 5-932 6-001 6-002 8-132 8-542 8-543 8-547	Reconstruction of female genitalia after rupture, postpartum (perineal tear) Partial (breast-conserving) excision of the breast and destruction of breast tissue without axillary lymphadenectomy Re-operation: this additional code must be used if the operated area is re-opened to treat a complication, to perform an operation for recurrence Type of material used for tissue replacement and tissue reinforcement Administration of drugs, list 1 Administration of drugs, list 2 Bladder manipulations Uncomplicated chemotherapy: 1 day Moderately complex and intensive chemotherapy administered over more than 1 day Other immunotherapy
5-758 5-870 5-983 5-932 6-001 6-002 8-132 8-542 8-543 8-547 8-711	Reconstruction of female genitalia after rupture, postpartum (perineal tear) Partial (breast-conserving) excision of the breast and destruction of breast tissue without axillary lymphadenectomy Re-operation: this additional code must be used if the operated area is re-opened to treat a complication, to perform an operation for recurrence Type of material used for tissue replacement and tissue reinforcement Administration of drugs, list 1 Administration of drugs, list 2 Bladder manipulations Uncomplicated chemotherapy: 1 day Moderately complex and intensive chemotherapy administered over more than 1 day Other immunotherapy Mechanical ventilation and assisted ventilation of neonates and infants
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5-758 5-870 5-983 6-001 6-002 8-132 8-542 8-543 8-547 8-711 8-910 8-930 8-980 9-260	Reconstruction of female genitalia after rupture, postpartum (perineal tear) Partial (breast-conserving) excision of the breast and destruction of breast tissue without axillary lymphadenectomy Re-operation: this additional code must be used if the operated area is re-opened to treat a complication, to perform an operation for recurrence Type of material used for tissue replacement and tissue reinforcement Administration of drugs, list 1 Administration of drugs, list 2 Bladder manipulations Uncomplicated chemotherapy: 1 day Moderately complex and intensive chemotherapy administered over more than 1 day Other immunotherapy Mechanical ventilation and assisted ventilation of neonates and infants Epidural injection and infusion for pain therapy Monitoring of breathing and cardiovascular parameters without measurement of pulmonary artery pressure or central venous pressure Intensive medical care for complex treatment (basic procedures) Monitoring and delivery for a normal birth
5-758 5-870 5-983 6-001 6-002 8-132 8-542 8-543 8-547 8-711 8-910 8-930	Reconstruction of female genitalia after rupture, postpartum (perineal tear) Partial (breast-conserving) excision of the breast and destruction of breast tissue without axillary lymphadenectomy Re-operation: this additional code must be used if the operated area is re-opened to treat a complication, to perform an operation for recurrence Type of material used for tissue replacement and tissue reinforcement Administration of drugs, list 1 Administration of drugs, list 2 Bladder manipulations Uncomplicated chemotherapy: 1 day Moderately complex and intensive chemotherapy administered over more than 1 day Other immunotherapy Mechanical ventilation and assisted ventilation of neonates and infants Epidural injection and infusion for pain therapy Monitoring of breathing and cardiovascular parameters without measurement of pulmonary artery pressure or central venous pressure Intensive medical care for complex treatment (basic procedures)

find out. To usefully compare the number of inpatients per year, it is necessary to look at and compare numerous quality reports. Very few users are likely to make the effort [9].

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The same applies to comparisons of university gynaecology clinics. The number of inpatients ranges from 2729 to 15148 inpatients/year. One significant factor for this wide range could be the amalgamation of several different sites to form a single university hospital (e.g. Berlin, Munich). But once this point was factored in (recalculated into number of inpatients/site), there are still big differences in the number of patients treated per university gynaecology clinic (range: 2729 to 10486 inpatients/year). Thus, there was a correlation between patient numbers of UGCs and those of the UHs. This correlation is unsurprising and can best be explained by the local conditions (site, radius, competitors). 60% of UGCs treated between 4000 and 6000 patients, and 77% treated between 3000 and 7000 inpatients per year. The local healthcare infrastructure for the area where the respective

university hospital was sited played a decisive role. For some university hospitals, local circumstances dictated that they were also needed to provide primary and secondary care, while in other regions the UHs existed alongside numerous competitors.

In terms of percentages, the UGCs with their 10% of inpatients are an important part of their UH. 77% of UGCs treat between 7 and 12% of patients; 17% of UGCs even treat more than 12% of their university hospital's annual inpatients. UGCs therefore represent an important port of entry for other specialist clinics. These include, in the first instance, the neonatology departments, which receive most of their cases directly from the UGC. Oncology patients from a UGC are very important for every UH because of the interdisciplinary cooperation required to treat these patients. These patients receive treatment from other departments such as Radiodiagnostics, Nuclear Medicine, Radiotherapy, Internal Medicine, Abdominal Surgery, Urology, Neurology, Neurosurgery, Orthopaedics, etc. Thus, every UGC is a key department for its respective UH and represents an important economic factor. There were also important differences in staffing levels between UGCs. With numbers of resident physicians ranging from 16 to 78, the differences are significant. The numbers of patients treated per full-time physician also differed greatly. These differences were due to differences in teaching and research facilities, the calculation of inpatient numbers (all children or only some of them or none credited to the inpatient numbers of the UGC), outpatient care, accreditation with statutory health insurance companies, etc. But this data does not make it possible to describe one clinic as "more effective" than another.

In addition, research and teaching are part of the services provided by a UGC but they are not taken into consideration in the quality reports. Cross financing of staff using the budget for research and teaching is often necessary to guarantee patient care. In many cases, when staffing levels are calculated, the calculation does not include outpatient services (outpatient consultations, etc.). Outpatient services are only profitable if they can be used to recruit inpatients or patients for day surgery procedures. Controls or follow-up visits are not taken into account.

The number of medical specialists could be another possible indicator when assessing a UGC. However, here again comparisons are tricky as medical specialists may work in different capacities (e.g. senior physician). The quality report does not show the level of qualifications obtained, the experience, medical speciality, etc. of individual physicians.

This means that the quality reports offer no accurate chance of comparing clinics on the basis of staffing ratios. Patients are not provided with this background information and they may even draw the wrong conclusions.

The range of services provided by UGCs varies greatly. It is virtually impossible to deduce which areas a hospital has specialised in based on the data obtained from quality reports. The data are based on ICD codes (diagnosis). These codes do not reflect quality of treatment or medical expertise.

The most common diagnoses (ICD codes) are obstetrical and include deliveries, care of neonates and suturing after vaginal delivery. This provides an approximate figure which allows the number of deliveries to be estimated. The rate of transfers of neonates to the neonatology department is inconsistent. For 3 clinics, Z38 was not among the top 10 diagnoses. In these cases, all newborns were probably assigned to the paediatric clinic and not to the gynaecological clinic. The number of gynaecological diagnoses and surgical procedures was therefore often lower than for obstetrics. The level of gynaecological expertise is difficult to

deduce based on the services provided. From the point of view of an external observer, it is very difficult to infer the level of expertise present in a specific clinic based on the list of ICD and OPS codes. There are no figures on complications, morbidities or even survival rates.

All of the UGCs are virtually identical with regard to equipment, facilities and medical specialties. All UGCs have breast centres, gynaecological oncology centres, pelvic floor centres, perinatal centres, centres for minimally invasive surgery, prenatal diagnostics and urodynamics. It is not possible to obtain information useful for patients based on the list of the UGC's medical specialties given in the quality report. Moreover all UGCs have virtually the same facilities and equipment.

All UHs are now level I perinatal centres. At the time of publication, only one UH was not a level I perinatal centre but it became one shortly thereafter. 17 UHs described themselves as a CCC. However not all CCCs are supported by German Cancer Aid. The term CCC is not protected, making it impossible for readers to differentiate between centres.

UGCs have not been previously compared. In a study on obstetrics by Bauer et al. [5] published in 2011, home births were compared with delivery in hospital. The intact perineum rate was higher for home births, but there were no differences with regard to Apgar 10 scores. But pre-selection of cases in this study cannot be excluded. Hospital births will obviously include higher rates of high risk births. The choice of a home birth is generally done after considering the risk factors. We found no other comparisons using the quality reports.

Overall, it is very difficult for patients and for the physicians who arrange their admission to hospital to obtain crucial information from quality reports.

Quality reports contain too much information. Around one third of all published data are superfluous [10]. Disadvantages of quality reports include a lack of indicators providing information on patients' experiences and the clinic's reputation. A survey of potential user groups would provide better descriptions [10]. Patients prefer quality comparison graphs which provide a lot of information and rank hospitals [10]. The text sections in the reports aimed at patients are currently not easy to read and are not formulated so that they can be easily understood [12].

Legally mandated quality reports are currently not used by physicians as a useful source of information when advising patients. For this, quality reports would have to become more widely known and physicians would have to place more confidence in this form of reporting. Some of the objective data on structures and services required by physicians is already included in the quality reports. But it would be important to consider how "soft" factors could additionally be included in these reporting tools [11]. The readability and comprehensibility of texts for patients could still be improved. It has been suggested that patients and physicians working outside hospitals could offer concrete approaches and proposals on changes to be implemented when drawing up quality reports in future [7,12].

In 2007 Streuf et al. [13] investigated the most important criteria behind patient selection of a particular hospital. It turned out that the advice most relied on and accorded the greatest importance was the information given to a patient by his or her family doctor. Newspapers, journals and the internet came second. However, in the ranking of importance, the internet ranked below the advice given by the family physician and information obtained from friends and relatives. The most important selection criteria were a hospital's good reputation, a good cooperation be-

tween the hospital and physicians working outside the hospital, and the number of cases treated. Of these criteria, only the number of cases treated can be obtained from quality reports. Five years ago, quality reports played almost no role in hospital selection by patients. It should be noted that quality reports have changed very little in recent years and it must be assumed that the criteria referred to above are still applicable today.

In summary, quality reports use a very broad brush to describe the infrastructure and services of the UHs. The specific characteristics of a UGC within a hospital offering comprehensive inpatient and outpatient care and special consultation services which are time-consuming, demanding and require high staffing levels are not reflected in the quality report. The quality of treatment is not shown. For external readers it is extremely difficult to find any differences between UGCs. UGCs are an important part of UHs.

Conflict of Interest



None.

References

- 1 *Lux MP, Reichelt C, Karnon J et al.* Kosten-Nutzwert-Analyse endokriner Therapien in der adjuvanten Situation der postmenopausalen Patientin mit einem hormonrezeptorpositiven Mammakarzinom auf Basis der Überlebensdaten und Berücksichtigung zukünftiger generischer Preise aus der Sicht des deutschen Gesundheitswesens. Geburtsh Frauenheilk 2011; 71 P210
- 2 Simoes E, Brucker S, Beckmann MW et al. Screening for cervical cancer minimise risks maximise benefits. Need for adaptation in Germany in light of the European guidelines and their objectives. Geburtsh Frauenheilk 2013; 73: 623–639
- 3 *Diedrich K, Strowitzki T, Kentenich H.* The state of reproductive medicine in Germany. Geburtsh Frauenheilk 2012; 72: 225–234
- 4 Schmidt M, Fasching PA, Beckmann MW et al. Biomarkers in breast cancer an update. Geburtsh Frauenheilk 2012; 72: 819–832
- 5 Bauer SH, Wiemer A, Misselwitz B et al. Ergebnisse des Pilotprojekts zum Vergleich klinischer Geburten (Hessen) mit außerklinischen Geburten (Bund). Z Geburtshilfe Neonatol 2011; 215 FV01_01; DOI: 10.1055/s-0031-1293211
- 6 *Hermeling P, Geraedts M.* Kennen und nutzen Ärzte den strukturierten Qualitätsbericht? Gesundheitswesen 2012; DOI: 10.1055/s-0032-1321744
- 7 *Seidel G, Haase I, Walle E et al.* Verständlichkeit und Nutzen von Qualitätsberichten Rehabilitation aus Sicht der Nutzer. Gesundheitswesen 2009; 71 A254; DOI: 10.1055/s-0029-1239304
- 8 Jagdfeld FH. Struktur-, Prozess- und Ergebnisqualität psychosomatischer Kliniken im strukturierten Qualitätsbericht nach § 137 SGB V. Psychother Psych Med 2008; 58 S78; DOI: 10.1055/s-2008-1061584
- 9 Lux MP, Hildebrandt T, Bani M et al. Health economic evaluation of different decision aids for the individualised treatment of patients with breast cancer. Geburtsh Frauenheilk 2013; 73: 599–610
- 10 Schwartze D, Geraedts M. Eignung von Qualitätsindikatoren und grafischen Qualitätsvergleichen zur informierten Krankenhauswahl durch Patienten. Gesundheitswesen 2006; 68 A114; DOI: 10.1055/s-2006-948670
- 11 Hermeling P, de Cruppé W, Geraedts M. Qualitätsberichte zur Unterstützung der ärztlichen Patientenberatung. Gesundheitswesen 2011; 73 A90; DOI: 10.1055/s-0031-1283480
- 12 Friedemann J, Schubert H-J, Schwappach D. Zur Verständlichkeit der Qualitätsberichte deutscher Krankenhäuser: Systematische Auswertung und Handlungsbedarf. Gesundheitswesen 2009; 71: 3–9
- 13 Streuf R, Maciejek S, Kleinfeld A et al. Informationsbedarf und Informationsquelle bei der Wahl eines Krankenhauses. Gesund Ökon Qual Manag 2007; 12: 113–120

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