# **Metadata report**



Part II: Product-specific information on the use of the DRG statistic 2015 for on-site use

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Version 4



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Version 4



# Content

| 1 | Data preparation by the RDC  | 3   |
|---|--|-----|
|   | 1.1 Data preparation   | 3   |
|   | 1.2 Anonymisation measures   | 3   |
|   | 1.3 Method of linkage  | 3   |
| 2 | Product  | 4   |
|   | 2.1 Characteristics and variable definition                                  | 4   |
|   | 2.2 Comparability of characteristics over time                               | 233 |
|   | 2.3 Basic values of relevant characteristics and characteristic combinations | 244 |
|   | 2.4 Evaluable regional level   | 311 |
| 3 | Practical advice   | 31  |
|   | 3.1 Notes on secrecy   | 311 |
|   | 3.1.1 Legal bases of statistical confidentiality                             | 311 |
|   | 3.1.2 Confidentiality of results   | 322 |
|   | 3.1.3 Practical tips for avoiding confidentiality cases                      | 322 |
|   | 3.2 FAQ  | 322 |
|   | 3.3 Available tools  | 333 |

### 1 Data preparation by the RDC

### 1.1 Data preparation

All auxiliary features and direct identifiers have been deleted from the data as they may not be provided for reasons of anonymisation. The hospital-ID (ik), the discharging facility (entl\_ort), and the number of the hospital case (fall\_nr) are replaced by system-free identifiers.

Furthermore, the data is filtered so that only fully inpatient and pure DRG cases are being kept in the data (typ\_fall = 1 and typ\_bereich = 1).

### 1.2 Anonymisation measures

Apart from replacing the direct identifiers with system-free numbers, the RDC did not take any measures to further anonymise the data.

### 1.3 Method of linkage

Since no data was linked to create this product, this point is omitted.

# 2 Product

## 2.1 Characteristics and variable definition

| Variable | Definition                            | Format | Length | Code  |                | Comments   |
|----------|---------------------------------------|--------|--------|---|----------------|--|
|          |                                       |        |        |   | Missing values |  |
| kh_land  | Land of the hospital                  | a      | 2      | 01 = Schleswig-Holstein 02 = Hamburg 03 = Niedersachsen 04 = Bremen 05 = Nordrhein-Westfalen 06 = Hessen 07 = Rheinland-Pfalz 08 = Baden-Württemberg 09 = Bayern 10 = Saarland 11 = Berlin 12 = Brandenburg 13 = Mecklenburg-Vorpommern 14 = Sachsen 15 = Sachsen-Anhalt 16 = Thüringen |                | classified according to the AGS as of December 31 of the reporting year.   |
| kh_rb    | Administrative region of the hospital | a      | 1      | 0 – 9   | ja             | classified according to<br>the AGS as of<br>December 31 of the<br>reporting year.<br>Evaluations at this<br>regional level not<br>possible for<br>confidentiality reasons. |
| kh_kreis | District of the hospital              | а      | 2      | 0 – 93  | ja             | classified according to<br>the AGS as of<br>December 31 of the<br>reporting year.<br>Evaluations at this<br>regional level not<br>possible for                             |

|            |   |   |   |   |     | confidentiality reasons.  |
|------------|---|---|---|---|-----|---|
| kh_gem     | Municipality of the hospital                        | a | 3 | 0 - 632   | yes | classified according to the AGS as of December 31 of the reporting year. Evaluations at this regional level not possible for confidentiality reasons. |
| kh_plz     | Postal code of the hospital                         | а | 5 | 1067 – 99976  | yes | Evaluations at this regional level not possible for confidentiality reasons.  |
| kh_typ_gem | Settlement structural types of area of the hospital | a | 2 | 01 = agglomeration area: larger nucleated cities 02 = agglomeration area: nucleated cities 03 = agglomeration area: highly populated districts: regional metropolis 04 = agglomeration area: highly populated districts: other municipalities 05 = agglomeration area: populated districts: regional metropolis 06 = agglomeration area: populated districts: other municipalities 07 = agglomeration area: rural districts: regional metropolis 08 = agglomeration area: rural districts: other municipalities 09 = urbanised area: nucleated cities 10 = urbanised area: populated districts: regional metropolis 11 = urbanised area: populated districts: other municipalities 12 = urbanised area: rural districts: regional metropolis 13 = urbanised area: rural districts: other municipalities 14 = rural regions: rural districts densely populated: regional metropolis 15 = rural regions: rural districts densely populated: other municipalities 16 = rural regions: rural districts sparsely populated: regional metropolis 17 = rural regions: rural districts sparsely populated: other municipalities |     | Explanations at www.bbsr.bund.de  |

| pat_land  | Federal state of the patient                                       | а | 2 | 01 = Schleswig-Holstein 02 = Hamburg 03 = Niedersachsen 04 = Bremen 05 = Nordrhein-Westfalen 06 = Hessen 07 = Rheinland-Pfalz 08 = Baden-Württemberg 09 = Bayern 10 = Saarland 11 = Berlin 12 = Brandenburg 13 = Mecklenburg-Vorpommern 14 = Sachsen 15 = Sachsen-Anhalt 16 = Thüringen au = Ausland oh = no data provided (category available for reporting years 2005-2010) un = unknown | classified according to<br>the AGS as of<br>December 31 of the<br>reporting year. |
|-----------|--|---|---|--|---|
| pat_rb    | Administrative region of the patient                               | a | 1 | 0 – 9 a = foreign o = no data provided (category available for reporting years 2005-2010) u = unknown  |   |
| pat_kreis | district of the patient  | а | 2 | 00 – 93 au = foreign oh = no data provided (category available for reporting years 2005-2010) un = unknown   |   |
| pat_gem   | Municipality of the patient  | a | 3 | 0 – 999 aus = foreign ohn = no data provided (category available for reporting years 2005-2010) unb = unknown  |   |
| pat_ags5  | district of the patient (five-<br>digit in accordance with<br>AGS) | а | 5 | 01001 – 16077 ausaa = foreign ohnoo = no data provided (category available for reporting years 2005-2010) unbuu = unknown  |   |

| pat_typ_gem | Settlement structurell types of area of the patient | A | 2 | 01 = agglomeration area: larger nucleated cities 02 = agglomeration area: nucleated cities 03 = agglomeration area: highly populated districts: regional metropolis 04 = agglomeration area: highly populated districts: other municipalities 05 = agglomeration area: populated districts: regional metropolis 06 = agglomeration area: populated districts: regional metropolis 07 = agglomeration area: rural districts: regional metropolis 08 = agglomeration area: rural districts: other municipalities 09 = urbanised area: nucleated cities 10 = urbanised area: populated districts: regional metropolis 11 = urbanised area: populated districts: other municipalities 12 = urbanised area: rural districts: regional metropolis 13 = urbanised area: rural districts: other municipalities 14 = rural regions: rural districts densely populated: regional metropolis 15 = rural regions: rural districts densely populated: other municipalities 16 = rural regions: rural districts sparsely populated: regional metropolis 17 = rural regions: rural districts sparsely populated: other municipalities au = foreign oh = no data provided (category available for reference years 2005-2010) un = unknown |     | Explanations at www.bbsr.bund.de |
|-------------|---|---|---|---|-----|----------------------------------|
| sex         | Sex   | а | 1 | m = male<br>w = female<br>u = unknown   |     |                                  |
| alter       | Age in years  | n | 8 | 999 = unknown   | yes |                                  |

| typ_alter  | Age (grouped)  | n | 3 | 1 = 0 years 2 = 1 to 4 years 3 = 5 to 9 years 4 = 10 to 14 years 5 = 15 to 19 years 6 = 20 to 24 years 7 = 25 to 29 years 8 = 30 to 34 years 9 = 35 to 39 years 10 = 40 to 44 years 11 = 45 to 49 years 12 = 50 to 54 years 13 = 55 to 59 years 14 = 60 to 64 years 15 = 65 to 69 years 16 = 70 to 74 years 17 = 75 to 79 years 18 = 80 to 84 years 19 = 85 to 89 years 20 = 90 to 94 years 21 = 95 to 110 years 22 = unknown | yes |   |
|------------|--|---|---|---|-----|---|
| geb_jahr   | Year of Birth  | n | 8 | four-digit information on year of birth (YYYY)  |     |   |
| geb_monat  | Month of birth (only for under one-year-olds)        | n | 8 | 0 = 1 year and older 1 = 1 month 2 = 2 month 3 = 3 month 4 = 4 month 5 = 5 month 6 = 6 month 7 = 7 month 8 = 8 month 9 = 9 month 10 = 10 month 11 = 11 month 12 = 12 month  |     |   |
| alter_tage | Age in days (only for children up to the age of one) | n | 8 | 0 = 1 year and older  |     | This information is only given for children up to the age of 1 year. It is needed for assignment of DRG. In case of newborns with day of admission = date of birth, "1" has to be stated. |

| typ_geb  | Further information on newborns: admission in month of birth          | n | 3 | 1 = yes<br>2 = no  | yes |  |
|----------|---|---|---|--|-----|--|
| aufn_anl | Cause of admission  | a | 1 | E = referral by a physician Z = referral by a dentist N = emergency R = admission after prior treatment in a rehabilitation facility V = transfer with a duration of therapy of over 24 hours at transfering hospital K = transfer (admission) of another hospital in the course of a cooperation (category available for reporting years 2005-2008) A = transfer with a duration of therapy of up to 24 hours at transfering hospital (for admissions after 1.1.2007) G = birth |     | Newborns, who are discharged together with their mother, need to be indicated as '06' (birth) as reason for admission and 'G' as cause of admission. In case of a newborn is not being released together with its mother, their reason of admission needs to be indicated as '01' and the cause of admission needs to be indicated as 'G'. |
| aufn_grd | Reason for admission  | n | 3 | 1 = hospital treatment, full inpatient 2 = hospital treatment, full inpatient with previous preadmission treatment 5 = inpatient childbirth 6 = birth 7 = readmission due to complications (flat rate per case) according to KFPV 2003 8 = inpatient admission for organ removal 99 = unknown (category available for reporting years 2005-2007)   | yes |  |
| aufn_gew | Weight of admission in grams (only for children up to the age of one) | n | 8 | 0 = 1 year and older   |     | Only for children up to<br>the age of one; in case<br>of newborns the birth<br>weight counts.  |
| beatm    | Time of respiration in hours  | n | 8 |  | yes |  |

| entl_grd           | Cause of discharge                     | n | 3 | 1 = regular termination of treatment 2 = regular termination of treatment, post-discharge treatment intended 3 = treatment terminated for other reasons 4 = treatment terminated against medical advice 5 = changes in responsibility of cost unit (in days-related charges) 6 = transfer to another hospital 7 = death 8 = transfer to another hospital as part of a cooperation 9 = discharge into a rehabilitation facility 10 = discharge into a long-term care facility 11 = discharge into a hospice 13 = external transfer for psychiatric treatment 14 = treatment terminated for other reasons, post-discharge treatment intended 15 = treatment terminated against medical advice, post-discharge treatment intended 17 = internal transfer with change in remuneration areas of DRGs, of the Federal Ordinance on Hospital Rates or for special facilities according to section 17b subsection 1 sentence 15 of the KHG 22 = case end (internal transfer) when changing between full and part-time inpatient treatment 24 = termination of an external stay with absence past midnight (BdpflV-section, for pseudo-specialist department 0003) (category available as of reporting year 2016) 25 = Discharge at the end of the year while admitted the year before (for accounting purposes, § 4 PEPPV 2013) (category available as of reporting year 2014) |     | Category "13" relates to a subset of hospitals, being summarised as '6' formerly. Category "6" is now only relating to external transfers to hospitals, if there is not a transfer to a psychiatric or psychosomatic department. |
|--------------------|--|---|---|--|-----|--|
| icd_hd3            | ICD code three-digit primary diagnosis | а | 3 |  |     | Diagnosis code in the current ICD-10GM version analogously to § 301 agreement.   |
| icd_hd4            | ICD code four-digit primary diagnosis  | а | 4 |  |     | Diagnosis code in the current ICD-10GM version analogously to § 301 agreement.   |
| icd_hd             | ICD code five-digit primary diagnosis  | а | 5 |  |     | Diagnosis code in the current ICD-10GM version analogously to § 301 agreement.   |
| icd_nd1 - icd_nd89 | ICD code secondary diagnosis           | а | 5 |  | yes | Diagnosis code in the current ICD-10GM version analogously to § 301 agreement.   |

| dia_art1-dia_art90 | Diagnosis type | a | 5 | HD = main diagnosis ND = secondary diagnosis (Nebendiagnose) SD = secondary diagnosis (Sekundärdiagnose) UN = unknown | yes | This further information on ICD variables of diagnosis is not available as checked for plausibility. Therefore, this information only contains valid values at ICD codes, which are not adjusted in the process of plausibility checks. ICD codes, which have been adjusted due to plausibility checks, contain "UN" in the according further information. Variable dia_art1 is refering to the primary diagnoses. Variables dia_art2 to dia_art90 are refering to the secondary diagnoses 1 to 89. |
|--------------------|----------------|---|---|---|-----|---|
| icd_ve1-icd_ve90   | ICD version    | n | 4 | four-digit information on reporting year (YYYY) 9999 = unknown  | yes | This further information on ICD variables of diagnosis is not available as checked for plausibility. Therefore, this information only contains valid values at ICD codes, which are not adjusted in the process of plausibility checks. ICD codes, which have been adjusted due to plausibility checks, contain ""9999" in the according further information. Variable icd_ve1 is refering to the primary diagnoses. Variables icd_ve2 to icd_ve90 are refering to the secondary diagnoses 1 to 89. |

| icd_lo1-icd_lo90       | ICD localisation (further information on code of diagnosis)   | a | 1 | R = right L = left B = double-sided U = unknown   | yes | This further information on ICD variables of diagnosis is not available as checked for plausibility. Therefore, this information only contains valid values at ICD codes, which are not adjusted in the process of plausibility checks. ICD codes, which have been adjusted due to plausibility checks, contain "U" in the according further information. Variable icd_lo1 is refering to the primary diagnoses. Variables icd_lo2 to icd_lo90 are refering to the secondary diagnoses 1 to 89. |
|------------------------|---|---|---|---|-----|---|
| drgh                   | DRG code (primary DRG code, grouped by InEK)  | а | 4 |   |     |   |
| partition              | DRG partition (M, O, A)   | а | 1 | M = medical flat rate per case O = operational flat rate per case A = other flat rates per case |     |   |
| split                  | Splitting of the basic DRG into degree of severity and use of ressources, 4th digit of the DRG notation | а | 4 | A – Z   |     |   |
| ops_ko1 -<br>ops_ko101 | OPS-code  | а | 6 | 99999 = unknown   | yes | Procedure code in the current OPS version analogously to § 301 agreement.   |
| typ_op                 | Operation according to chapter 5  | n | 3 | 1 = yes<br>2 = no   |     | _   |
| z_bel_oper             | Number of participation / performance of external operators   | n | 8 |   | yes |   |
| z_bel_an               | Number of participation / performance of external anesthesists  | n | 8 |   | yes |   |

| z_bel_heb                 | Number of participation /<br>performance of external<br>midwives | n | 8 |   | yes |  |
|---------------------------|--|---|---|---|-----|--|
| bel_oper1-<br>bel_oper101 | external operators   | а | 1 | J = yes, participation / performance of external operators N = no, no participation / performance of external operators U = unknown       | yes | This further information on OPS-codes is not available as checked for plausibility. Therefore, this information only contains valid values at OPS codes, which are not adjusted in the process of plausibility checks. OPS-codes, which have been adjusted due to plausibility checks, contain "U" in the according further information. |
| bel_an1-bel_an101         | external anesthesists  | а | 1 | J = yes, participation / performance of external anesthesists N = no, no participation / performance of external anesthesists U = unknown | yes |  |
| bel_heb1-<br>bel_heb101   | external midwives  | а | 1 | J = yes, participation / performance of external midwives N = no, no participation / performance of external midwives U = unknown         | yes |  |
| ops_ve1-<br>ops_ve101     | OPS-version  | n | 4 | four-digit information on reporting year<br>9999 = unknown  | yes | This further information on OPS-codes is not available as checked for plausibility. Therefore, this information only contains valid values at OPS codes, which are not adjusted in the process of plausibility checks. OPS-codes, which have been adjusted due to plausibility checks, contain "9999" in the according further           |

|                           |                        |   |   |   |     | information.   |
|---------------------------|------------------------|---|---|---|-----|--|
| dat_ops1-<br>dat_ops101   | OPS-date               | а | 8 | date in format YYYYMMDD<br>99999999 = unknown   | yes | This further information on OPS-codes is not available as checked for plausibility. Therefore, this information only contains valid values at OPS codes, which are not adjusted in the process of plausibility checks. OPS-codes, which have been adjusted due to plausibility checks, contain "99999999" in the according further information.          |
| zeit_ops1-<br>zeit_ops101 | OPS-time               | a | 4 | time in format hhmm 9999 = unknown  | yes | This further information on OPS-codes of diagnosis is not available as checked for plausibility. Therefore, this information only contains valid values at OPS codes, which are not adjusted in the process of plausibility checks. OPS-codes, which have been adjusted due to plausibility checks, contain "9999" in the according further information. |
| ops_lo1-ops_lo101         | Specialist departments | a | 1 | R = right L = left B = double-sided U = unknown   | yes |  |
| fab1 - fab100             | Specialist departments | а | 8 | 01 = internal medicine<br>0102 = focus geriatrics<br>0103 = focus cardiology<br>0104 = focus nephrology | yes | In addition to "00" the codes "90" and "92"can be used in the third and fourth digit to code   |

| 0405 facus basestalam and internal angulars.                              | anneigliend anneigliet    |
|---|---------------------------|
| 0105 = focus haematology and internal oncology                            | specialised specialist    |
| 0106 = focus endocrinology<br>0107 = focus gastroenterology               | departments, which are    |
| 0107 = locus gastroenterology<br>0108 = focus pneumology                  | not coded with a national |
| 0109 = focus pheumology<br>0109 = focus rheumatology                      | common specialist         |
| 0114 = focus pulmonary and bronchial medicine                             | department code. Even     |
| 0150 = tumour research  | though using this         |
| 0151 = focus coloproktology   | distinction of specialist |
| 0152 = focus infectious diseases  | departments, it is not    |
| 0153 = focus diabetes   | needed to name the type   |
| 0154 = focus naturopathy  | of specialisation or the  |
| 0156 = focus stroke patients (Stroke units, art. 7 § 1 (3) GKV-SolG)      | •                         |
|   | focus of the specialist   |
| 02 = geriatrics   | department precisely.     |
| 0224 = focus gynaecology  | Both contracting parties  |
| 0260 = day-care hospital (for semi-stationary nursing charges)            | need to determine the     |
| 0261 = night-care hospital (for semi-stationary nursing charges)          | specialist department     |
| O2 condictors   | code (described above)    |
| 03 = cardiology   | within the nursing care   |
| 04 = nephrology   | rate agreement. This is   |
| 0410 = focus paediatrics  | the condition for the     |
| 0436 = intensive care   | procedure.                |
| 0 100 = III.OHOTO OCIO  | '                         |
| 05 = haematology and internal oncology                                    | Specialist department     |
| 0510 = focus paediatrics  | codes, for which it is    |
| 0524 = focus gynaecology  | possible to take 50 %     |
| 0533 = focus radiotherapeutics  | l'                        |
|   | APS intensive into        |
| 06 = endocrinology  | account (in accordance    |
| 0607 = focus gastroenterology   | with version of BPfIV of  |
| 0610 = focus paediatrics  | 31.12.2003) and which     |
| 07  | department flat rate      |
| 07 = gastroenterology<br>0706 = focus endocrinology                       | does not need to be       |
| 0706 = focus endocrinology<br>0710 = focus paediatrics                    | reduced by 20 %, if a     |
| 07 10 - 10000 paculatilos   | surcharge is charged      |
| 08 = pneumology   | simultaneously:           |
|   | - 0436                    |
| 09 = rheumatology   | - 1136                    |
| 0910 = focus paediatrics  | - 1536                    |
|   | - 2036                    |
| 10 = paediatrics  | - 2050                    |
| 1004 = focus nephrology   | - 2136                    |
| 1005 = focus haematology and internal oncology                            |                           |
| 1006 = focus endocrinology  | - 2150                    |
| 1007 = focus gastroenterology   | - 36xx                    |
| 1009 = focus rheumatology   |                           |
| 1011 = focus paediatric cardiology<br>1012 = focus neonatology            | Special arrangement for   |
| 1012 = focus neonatology<br>1014 = focus pulmonary and bronchial medicine | pseudo-specialist         |
| 1014 – locus pullionary and biolicilial medicine                          |                           |

| 1028 = focus paediatric neurology                                     | departments in ETL-       |
|---|---------------------------|
| 1050 = focus perinatal medicine                                       | segment of the            |
| 1051 = long-term range children                                       | discharging display:      |
|   | - 0000: pseudo-           |
| 11 = paediatric cardiology  | specialist department in  |
| 1136 = focus intensive care   | 1 ' '                     |
|   | reference to hospitals    |
| 12 = neonatology  | (relevant "specialist     |
| 40 manufichia summa   | department" for DRG       |
| 13 = paediatric surgery   | grouping) for internal    |
| 14 = pulmonary and bronchial medicine                                 | transfers and / or return |
| 1410 = focus paediatrics  | transfers and / or        |
| 1410 – locus paediatrics  | readmission and / or in   |
| 15 = general surgery  | case of external          |
| 1513 = focus paediatric surgery                                       | residence with absence    |
| 1516 = focus trauma surgery   | over night.               |
| 1518 = focus vascular surgery   | - 0001: pseudo-           |
| 1519 = focus plastic surgery  | specialist department for |
| 1520 = focus thoracic surgery   | residence in case of a    |
| 1523 = focus orthopaedics   | return transfer           |
| 1536 = intensive care (§ 13 (2) 3, 2. BPfIV version released on       |                           |
| 31.12.2003)   | - 0002: pseudo-           |
| 1550 = focus abdominal and vascular surgery 1551 = focus hand surgery | specialist department for |
| 1331 = locus hand surgery   | an external residence in  |
| 16 = trauma surgery   | case of a readmission     |
| To stating outgoing   | - 0003: pseudo-           |
| 17 = neurosurgery   | specialist department for |
|   | an external residence     |
| 18 = vascular surgery   | with absence over night   |
|   | in the BPfIV sector       |
| 19 = plastic surgery  | (please note: "0003" is   |
| OO themsels summan  | used as specialist        |
| 20 = thoracic surgery   | department code for an    |
| 2021 = focus heart surgery<br>2036 = intensive care                   | external residence over   |
| 2050 = Intensive care  2050 = focus heart surgery intensive care      | night for insured persons |
| 2000 - 10000 Hourt outgory Interiore outc                             | in hospitals who are      |
| 21 = heart surgery  | refunded in accordance    |
| 2118 = focus vascular surgery   | with BPfIV (regardless of |
| 2120 = focus thoracic surgery   | the use of the new        |
| 2136 = intensive care (§ 13 (2) 3, 2. BPfIV version released on       | remuneration system in    |
| 31.12.2003)   | 1                         |
| 2150 = focus thoracic surgery intensive care                          | accordance with § 17 d    |
|   | KHG)).                    |
| 22 = urology  |                           |
| 23 = orthopaedics   |                           |
| 2309 = focus rheumatology   |                           |
| 2315 = focus surgery  |                           |

| OOAC authorized to and travers assume  |  |
|--|--|
| 2316 = orthopaedics and trauma surgery   |  |
| 24 = gynaecology and obstetrics  |  |
|  |  |
| 2402 = focus geriatrics<br>2405 = focus haematology and internal oncology  |  |
|  |  |
| 2406 = focus endocrinology   |  |
| 2425 = gynaecology   |  |
| OF shateting   |  |
| 25 = obstetrics  |  |
| 20 stankin alam wa malam v   |  |
| 26 = otorhinolaryngology   |  |
| 27 anhthalmalagu   |  |
| 27 = ophthalmology   |  |
| 20 nourology   |  |
| 28 = neurology   |  |
| 2810 = focus paediatrics   |  |
| 2856 = focus stroke patients (Stroke units, art. 7 § 1 (3) GKV-SolG)   |  |
| 20 managal mayahistm   |  |
| 29 = general psychiatry  |  |
| 2928 = emphasis neurology  |  |
| 2930 = focus child and youth psychiatry  |  |
| 2931 = focus psychosomatics / psychotherapy  |  |
| 2950 = focus addiction treatment   |  |
| 2951 = focus gerontological psychiatry   |  |
| 2952 = focus forensic treatment  |  |
| 2953 = focus addiction treatment, day-care hospital  |  |
| 2954 = focus addiction treatment, night-care hospital  |  |
| 2955 = focus gerontological psychiatry, day-care hospital  |  |
| 2956 = focus gerontological psychiatry, night-care hospital  |  |
| 2960 = day-care hospital (for semi-stationary nursing charges)   |  |
| 2961 = night-care hospital (for semi-stationary nursing charges)   |  |
|  |  |
| 30 = child and youth psychiatry  |  |
| 3060 = day-care hospital (for semi-stationary nursing charges)   |  |
| 3061 = night-care hospital (for semi-stationary nursing charges)   |  |
| ing. in the territory continues of the series of the serie |  |
| 31 = psychosomatics / psychotherapy  |  |
| 3110 = focus child and youth psychiatry  |  |
| 3160 = day-care hospital (for semi-stationary nursing charges)   |  |
| 3161 = night-care hospital (for semi-stationary nursing charges)   |  |
| 2.2.2g said indepinal (i.e. doin) diametrally marshing diffulged)  |  |
| 32 = nuclear medicine  |  |
| 3233 = focus radiotherapeutics   |  |
| 5255 .5555 .ddiotriorapoditio  |  |
| 33 = radiotherapeutics   |  |
| 3305 = focus haematology and internal oncology   |  |
| 3350 = focus radiology   |  |
| Soco - locas radiology   |  |
| 34 = dermatology   |  |
| 3460 = day-care hospital (for semi-stationary nursing charges)   |  |
| 5 100 - day out o hoopital (101 outil) stationally fluiding charges)   |  |
| I  |  |

|                          |   |   |   | 35 = dentistry and oral surgery  36 = intensive care 3601 = focus internal medicine 3603 = focus cardiology 3610 = focus paediatrics 3617 = focus neurosurgery 3618 = focus surgery   |  |
|--------------------------|---|---|---|---|--|
|                          |   |   |   | 3621 = heart surgery 3622 = focus urology 3624 = focus gynaecology and obstetrics 3626 = focus otorhinolaryngology 3628 = focus neurology 3650 = focus surgery 3651 = thoracic heart surgery 3652 = cardiothroracic surgery   |  |
|                          |   |   |   | 37 = other specialist departments 3750 = angiology 3751 = radiology 3752 = palliative medicine 3753 = pain therapy 3754 = healing therapy department 3755 = spinal surgery 3756 = addiction medicine 3757 = abdominal surgery |  |
| fab_max                  | specialist department with the longest duration of stay                           | а | 8 | see fab1 – fab100   |  |
| tage_fa1 -<br>tage_fa100 | duration of stay in specialist department   | n | 8 |   |  |
| tage_max                 | duration of stay in<br>specialist department with<br>the longest duration of stay | n | 8 |   |  |

| dat_aufn_fa1-<br>dat_aufn_fa100   | Date of admission in the specialist department    | а | 8 | date in format YYYYMMDD | This further information on FAB-codes variables is not available as checked for plausibility. Therefore, this information only contains valid values at FAB-codes, which are not adjusted in the process of plausibility checks. FAB-codes, which have been adjusted due to plausibility checks, contain "99999999" in the according further information. |
|-----------------------------------|---|---|---|-------------------------|---|
| zeit_aufn_fa1-<br>zeit_aufn_fa100 | Time of admission in the specialist department    | a | 8 | time in format hhmm     | This further information on FAB-codes is not available as checked for plausibility. Therefore, this information only contains valid values at FAB-codes, which are not adjusted in the process of plausibility checks. FAB-codes, which have been adjusted due to plausibility checks, contain "9999" in the according further information.               |
| dat_entl_fa1-<br>dat_entl_fa100   | Date of transfer out of the specialist department | a | 8 | date in format YYYYMMDD | This further information on FAB codes variables is not available as checked for plausibility. Therefore, this information only contains valid values at FAB-codes, which are not adjusted in the process of plausibility checks.  |

|                                   |   |   |   |  | FAB-codes, which have been adjusted due to plausibility checks, contain "9999999" in the according further information.   |
|-----------------------------------|---|---|---|--|---|
| zeit_entl_fa1-<br>zeit_entl_fa100 | Time of transfer out of the specialist department | а | 8 | time in format hhmm  | This further information on FAB-codes is not available as checked for plausibility. Therefore, this information only contains valid values at FAB-codes, which are not adjusted in the process of plausibility checks. FAB-codes, which have been adjusted due to plausibility checks, contain "9999" in the according further information. |
| typ_abt                           | Type of department                                | n | 3 | 1 = Main department only 2 = Document department only 3 = only special equipment 4 = several different assignments |   |
| abt_art1 -<br>abt_art100          | department category                               | а | 8 | HA = main department BA = occupancy department BE = special department   |   |
| ik                                | Hospital-ID (anonymised)                          | а | 9 |  |   |
| fall_nr                           | number of case<br>(anonymised)                    | n | 8 |  |   |
| entl_ort                          | Discharging facility<br>(anonymised)              | n | 3 |  | A distinction is only necessary if a hospital has got various locations and accounts under a consistent hospital-ID. Otherwise, data is containing a zero.  |

| auf_monat | month of hospital admission   | n | 3 | two-digit month specification   |  |
|-----------|---|---|---|---|--|
| aufn_jahr | year of hospital admission  | n | 4 | four-digit year specification   |  |
| dat_aufn  | date of hospital admission  | а | 8 | date in format YYYYMMDD   |  |
| zeit_aufn | time of hospital admission  | а | 4 | time in format hhmm   |  |
| dat_entl  | date of discharge from hospital (anonymised)                          | а | 8 | date in format YYYYMMDD   |  |
| zeit_entl | time of discharge from hospital                                       | а | 4 | time in format hhmm   |  |
| tage      | Period of hospitalisation<br>(day cases are calculated<br>as one day) | n | 8 |   |  |
| typ_vwd   | Type of period of hospitalisation                                     | n | 3 | 01 = day case = 1 02 = days = 1 03 = days = 2 04 = days = 3 05 = days = 4 06 = days = 5 07 = days = 6 08 = days = 7 09 = days <= 9 10 = days <= 12 11 = days <= 14 12 = days <= 21 13 = days <= 28 14 = days <= 35 15 = days <= 42 16 = days <= 182 18 = days <= 365 19 = days <= 99999 |  |
| std_fall  | day case  | n | 3 | 1 = yes<br>2 = no   |  |

| om     | Coop Mix (CM)                                   | n | 0 | I T   | ha Casa Mix is the sum   |
|--------|---|---|---|---|--|
| cm     | Case Mix (CM)                                   | n | 8 | ore can refer the contract of the can refer | The Case Mix is the sum of the effective cost elations of all hospital cases treated in the elevant reporting year. The calculation includes the effective cost relation of the DRG of the case reated. Day-related eductions (where eluration of stay of a case is below the eninimum duration), curcharges (where eluration of stay of a case exceeds the maximum duration) as well as transfers of cases according to DRG egulations are included. Additional charges and cull inpatient treatments, which are not emunerated by the DRG catalogue, are not |
| cm_n   | valid cases (counter variable for the Case Mix) | n | 8 | ir<br>C<br>ta<br>a  | Counter variable, which akes the value 1, if cm and cm_vol show valid alues.   |
| cm_vol | Case Mix-revenue in euros                       | n | 8 | is<br>m<br>co<br>re<br>re<br>",<br>th<br>A<br>fu<br>w<br>re   | The Case-Mix Revenue is calculated by nultiplying the effective cost weight by the elevant Land-wide base ate (with Angleichungsbetrag") of the hospital cases. Additional charges and cull inpatient treatments, which are not emunerated by the DRG catalogue, are not included.   |

### 2.2 Comparability of characteristics over time

The characteristics are basically comparable over time. Please note that some variables do not occur in all reference years. This is illustrated in the codebook for all reference years, which can be found at:

https://www.forschungsdatenzentrum.de/en/health/drg

Please also note that the classifications, according to which the main and secondary diagnoses, operations and performed procedures are coded, change over time. Decisive for the respective reporting year is always the version of the classification valid for the survey year.

The ICD-10-GM classification of the main and secondary diagnoses relevant for the reporting year 2015 can be found using the following link:

https://www.dimdi.de/dynamic/en/classifications/icd/icd-10-gm/code-search/index.html

The operation and procedure code relevant for the reporting year 2015 can be found using the following link:

https://www.dimdi.de/dynamic/en/classifications/ops/code-search/index.html

## 2.3 Basic values of relevant characteristics and characteristic combinations

| Federal State of patient      | Count      | Percent |
|-------------------------------|------------|---------|
| Schleswig-Holstein            | 616.133    | 3,30    |
| Hamburg                       | 361.409    | 1,94    |
| Lower Saxony                  | 1.765.315  | 9,46    |
| Bremen                        | 136.528    | 0,73    |
| North Rhine-Westphalia        | 4.387.890  | 23,51   |
| Hessia                        | 1.351.911  | 7,24    |
| Rhineland-Palatinate          | 963.012    | 5,16    |
| Baden-Württemberg             | 2.044.042  | 10,95   |
| Bavaria                       | 2.818.550  | 15,10   |
| Saarland                      | 258.690    | 1,39    |
| Berlin                        | 708.959    | 3,80    |
| Brandenburg                   | 626.080    | 3,35    |
| Mecklenburg-Western Pomerania | 395.103    | 2,12    |
| Saxony                        | 960.235    | 5,14    |
| Saxony-Anhalt                 | 602.738    | 3,23    |
| Thuringia                     | 574.068    | 3,08    |
| Unknown                       | 94.575     | 0,51    |
| Sum                           | 18.665.238 | 100     |

| Federal State of hospital     | Count      | Percent |
|-------------------------------|------------|---------|
| Schleswig-Holstein            | 566.165    | 3,03    |
| Hamburg                       | 482.602    | 2,59    |
| Lower Saxony                  | 1.657.088  | 8,88    |
| Bremen                        | 202.585    | 1,09    |
| North Rine-Westphalia         | 4.421.496  | 23,69   |
| Hessia                        | 1.319.201  | 7,07    |
| Rhineland-Palatinate          | 915.878    | 4,91    |
| Baden-Württemberg             | 2.096.623  | 11,23   |
| Bavaria                       | 2.876.482  | 15,41   |
| Saarland                      | 269.826    | 1,45    |
| Berlin                        | 800.257    | 4,29    |
| Brandenburg                   | 538.833    | 2,89    |
| Mecklenburg-Western Pomerania | 396.127    | 2,12    |
| Saxony                        | 978.866    | 5,24    |
| Saxony-Anhalt                 | 574.091    | 3,08    |
| Thuringia                     | 569.118    | 3,05    |
| Sum                           | 18.665.238 | 100     |

| Gender of patient | Count      | Percent |
|-------------------|------------|---------|
| Male              | 8.824.828  | 47,28   |
| Female            | 9.840.125  | 52,72   |
| Unknown           | 285        | 0.00    |
| Sum               | 18.665.238 | 100     |

| Age of patient | Count      | Percent |
|----------------|------------|---------|
| 0 to 9 years   | 1.499.256  | 8,03    |
| 10-19 years    | 720.853    | 3,86    |
| 20-29 years    | 1.271.190  | 6,81    |
| 30-39 years    | 1.434.001  | 7,68    |
| 40-49 years    | 1.526.217  | 8,18    |
| 50-59 years    | 2.425.743  | 13,00   |
| 60-69 years    | 2.708.751  | 14,51   |
| 70 and older   | 7.079.151  | 37,93   |
| Unknown        | 76         | 0,00    |
| Sum            | 18.665.238 | 100     |

| Main diagnosis according to ICD-10-GM  | Count     | Percent |  |
|--|-----------|---------|--|
| I. Certain infectious and parasitic diseases   | 620.291   | 3,32    |  |
| II. Neologisms (C00 – D48)   | 1.821.625 | 9,76    |  |
| III. Diseases of the blood and haematopoietic organs and certain disorders involving the immune system (D50 – D90) | 134.895   | 0,72    |  |
| IV. Endocrine, nutritional and metabolic diseases (E00 – E90)  | 517.805   | 2,77    |  |
| V. Mental and behavioural disorders (F00 – F99)  | 300.802   | 1,61    |  |
| VI. Diseases of the nervous system (G00 – G99)   | 751.897   | 4,03    |  |
| VII. Diseases of the eye and eye appendages (H00 – H59)  | 343.294   | 1,84    |  |
| VIII. Diseases of the ear and mastoid process (H60 – H95)  | 156.044   | 0,84    |  |
| IX. Diseases of the circulatory system (I00 – I99)   | 2.887.730 | 15,47   |  |
| X. Diseases of the respiratory system (J00 – J99)  | 1.290.651 | 6,91    |  |
| XI. Diseases of the digestive system (K00 – K93)   | 1.924.894 | 10,31   |  |
| XII. Diseases of the skin and subcutis (L00 – L99)   | 291.552   | 1,56    |  |

| XIII. Diseases of the musculoskeletal system and connective tissue (M00 – M99)   | 1.745.207  | 9,35  |  |
|--|------------|-------|--|
| XIV. Diseases of the urogenital system (N00 – N99)   | 1.036.084  | 5,55  |  |
| XV. Pregnancy, childbirth and puerperium (O00 – O99)   | 1.012.079  | 5,42  |  |
| XVI. Certain states originating in the perinatal period (P00 – P96)  | 193.329    | 1,04  |  |
| XVII. Congenital malformations, deformities and chromosomal anomalies (Q00 – Q99)  | 101.763    | 0,55  |  |
| XVIII. Symptoms and abnormal clinical and laboratory findings not elsewhere classified (R00 – R99)                       | 945.197    | 5,06  |  |
| XIX. Injuries, poisoning, and certain other consequences of external causes (S00 – T98)                                  | 1.931.085  | 10,35 |  |
| XX. – XII. Factors influencing health status and leading to use of health services; key for special purposes (U00 – Z99) | 659.007    | 3,53  |  |
| Sum  | 18.665.238 | 100   |  |

| Main diagnosis according to ICD-10-GM  | Count            |                   |                   |                       |           |
|--|------------------|-------------------|-------------------|-----------------------|-----------|
|  | 0 to 19<br>years | 20 to 39<br>years | 40 to 59<br>years | 60 years<br>and older | Sum       |
| I. Certain infectious and parasitic diseases   | 139.615          | 73.561            | 92.379            | 314.736               | 620.291   |
| II. Neologisms (C00 – D48)   | 40.263           | 90.375            | 482.454           | 1.208.533             | 1.821.625 |
| III. Diseases of the blood and haematopoietic organs and certain disorders involving the immune system (D50 – D90) | 11.409           | 9.350             | 21.245            | 92.891                | 134.895   |
| IV. Endocrine, nutritional and metabolic diseases (E00 – E90)  | 29.986           | 41.570            | 112.965           | 333.284               | 517.805   |
| V. Mental and behavioural disorders (F00 – F99)  | 53.416           | 71.697            | 94.906            | 80.783                | 300.802   |
| VI. Diseases of the nervous system (G00 – G99)   | 64.615           | 97.091            | 206.475           | 383.716               | 751.897   |
| VII. Diseases of the eye and eye appendages (H00 – H59)  | 14.371           | 17.469            | 58.920            | 252.534               | 343.294   |
| VIII. Diseases of the ear and mastoid process (H60 – H95)  | 19.174           | 21.559            | 48.698            | 66.613                | 156.044   |
| IX. Diseases of the circulatory system (I00 – I99)   | 23.413           | 75.548            | 510.120           | 2.278.649             | 2.887.730 |
| X. Diseases of the respiratory system (J00 – J99)  | 250.604          | 152.264           | 207.099           | 680.684               | 1.290.651 |
| XI. Diseases of the digestive system (K00 – K93)   | 132.224          | 272.383           | 535.052           | 985.235               | 1.924.894 |

| XII. Diseases of the skin and subcutis (L00 – L99)   | 41.183    | 67.397    | 75.182    | 107.790   | 291.552    |
|--|-----------|-----------|-----------|-----------|------------|
| XIII. Diseases of the musculoskeletal system and connective tissue (M00 – M99)   | 58.209    | 162.595   | 570.474   | 953.929   | 1.745.207  |
| XIV. Diseases of the urogenital system (N00 – N99)   | 59.073    | 165.505   | 273.338   | 538.168   | 1.036.084  |
| XV. Pregnancy, childbirth and puerperium (O00 – O99)   | 31.531    | 941.086   | 39.459    | 3         | 1.012.079  |
| XVI. Certain states originating in the perinatal period (P00 – P96)  | 193.320   | 4         | 5         | 0         | 193.329    |
| XVII. Congenital malformations, deformities and chromosomal anomalies (Q00 – Q99)  | 72.715    | 12.875    | 10.428    | 5.745     | 101.763    |
| XVIII. Symptoms and abnormal clinical and laboratory findings not elsewhere classified (R00 – R99)                       | 135.698   | 143.696   | 210.402   | 455.401   | 945.197    |
| XIX. Injuries, poisoning, and certain other consequences of external causes (S00 – T98)                                  | 288.225   | 274.214   | 376.151   | 992.495   | 1.931.085  |
| XX. – XII. Factors influencing health status and leading to use of health services; key for special purposes (U00 – Z99) | 561.059   | 14.952    | 26.208    | 56.788    | 659.007    |
| Sum  | 2.220.109 | 2.705.191 | 3.951.960 | 9.787.978 | 18.665.238 |

### 2.4 Evaluable regional level

The lowest evaluable regional level is the municipality of the hospital or the patient. Under certain conditions, it is possible to link data at hospital level. The linkage is made by the RDC staff. It is not possible to analyse the data at hospital level. The corresponding information is deleted before the data is made available to the user.

### 3 Practical advice

### 3.1 Notes on secrecy

### 3.1.1 Legal bases of statistical confidentiality

Confidentiality implies the certainty of absolute anonymity of the results of statistical analyses. In concrete terms, this means that confidentiality ensures that the published results cannot be used to draw conclusions about an individual case (e.g. person, company, institution). Statistical confidentiality is applied wherever statistical results or micro data leave the safe premises of official statistics.

Confidentiality in official statistics is governed by Section 16 of the Federal Statistics Act (Bundesstatistikgesetz, BstatG). It obliges the accomplishing authorities to keep information on personal and factual circumstances that was given for a federal statistic confidential as long as there are no contrary regulations. This is also referred to as statistical confidentiality. Statistical confidentiality obliges official statistics to protect the received information, i.e. to anonymise it in a way that does not allow for any inferences on the respective person/institution and the presented issues. Regarding informational self-determination, confidentiality is also of particular interest: Many surveys of official statistics are subject to the obligation to provide information. Thus, respondents are not free to decide for themselves whether they wish to pass information on. Official statistics must therefore ensure that the collected data cannot be attributed to any respondent.

However, the BStatG also intends for cases in which statistical secrecy does not apply. Section 16 of the BStatG sets out the exceptions to the obligation to confidentiality. Among others, it specifies the circumstances under which data from official statistics may be made accessible to scientists and which rules have to be observed thereby.

### 3.1.2 Confidentiality of results

To ensure the legally prescribed confidentiality of individual cases in the data, all results from remote execution and safe centres have to be subjected to a check for confidentiality by the RDC before they are released to the user. The RDC thereby ensure that the results are absolutely anonymous and that a re-identification of individual respondents can be ruled out at human discretion. The specialist departments of the statistical offices act accordingly before results are published.

The RDC apply various confidentiality rules to ensure statistical confidentiality, each of which is individually tailored to the respective statistic. The brochure "Regulations on the analysis of micro data in the Research Data Centres of the Federal Statistical Office and the Statistical Offices of the Federal States" presents the most common rules for primary confidentiality. These rules are generally applied to all RDC statistics. The annex to this brochure contains information on which confidentiality rules apply to which statistics.

The brochure can be found here:

https://www.forschungsdatenzentrum.de/en/confidentiality

### 3.1.3 Practical tips for avoiding confidentiality cases

Should confidentiality cases occur in the performed analyses then the RDC replaces these values with a blocking pattern to ensure confidentiality. Especially in cross tables many "holes" quickly appear in the results due to the necessary secondary blocking. Since a table cell once used for secondary blocking must also be blocked in all subsequent analyses (cross-table confidentiality) – even if it would not be necessary in the newly created table – it makes sense to ensure for all produced results that no confidential cases are generated. If confidential cases occur in an output, the supervising RDC is free to refuse the check and release of the output.

To avoid confidentiality cases in the analyses, you should always take care to ensure that your analyses are based on a sufficiently large numbers of cases. Should the number of cases be too small, we advise you to combine variable values to achieve a larger number of cases.

#### 3.2 FAQ

If you have any questions, please contact the RDC location listed in the imprint for technical information.

### 3.3 Available tools

The SAS macro newvar can be used to flexibly create new dummy and sum variables based on secondary diagnoses as well as surgery and procedure keys. Depending on user-specific parameters, the macro selects an efficient method for creating new variables. The objective is to shorten the calculation time of the analyses. Further information about the SAS macro newvar can be found under the following link (unfortunately only in German):

https://www.forschungsdatenzentrum.de/sites/default/files/arbeitspapier-44.pdf

