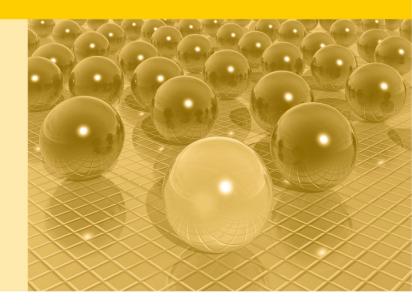
# **Metadata report**



Part II: Product-specific information on the use of the PEPP statistic 2019 for on-site use

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Version 2

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# **Metadata report**

Part II: Product-specific information on the use of the *PEPP statistic 2019 for on-site use* 

DOI: 10.21242/23141.2019.00.02.1.1.0 (remote execution) 10.21242/23141.2019.00.02.2.1.0 (safe centre)

Version 2



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## 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 hospital cases that are charged according to the fixed rate payment system for psychiatry and psychosomatics (PEPP) are being kept in the data (typ\_fall = 1 and typ\_bereich = 2).

### 1.2 Anonymisation measures

To maintain confidentiality, the third gender must not be published. The characteristics "diverse" and "undefined" are randomly assigned to the categories "male" and "female".

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 | Label                                 | Format* | Length | Content   | Missing values | Comments   |
|----------|---------------------------------------|---------|--------|---|----------------|--|
| kh_land  | Land of the hospital                  | 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 |                | classified according to the AGS as of December 31 of the reporting year.   |
| kh_rb    | Administrative region of the hospital | а       | 1      | 0 – 9   |                | classified according to the AGS as of December 31 of the reporting year.  Evaluations at this regional level not possible for confidentiality reasons.         |
| kh_kreis | District of the hospital              | а       | 2      | 0 – 93  |                | classified according to the AGS as of December 31 of the reporting year.  Evaluations at this regional level not possible for confidentiality reasons.         |
| kh_gem   | Municipality of the hospital          | а       | 3      | 0 – 632   |                | 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  |                | classified according to the AGS as of December 31 of<br>the reporting year.<br>Evaluations at this regional level not possible for<br>confidentiality reasons. |

| kh_typ_gem3  | Type of region of the hospital                              | а | 2 | 01 = urban region 02 = region with rudimentary urban growth 03 = rural region   |     | 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 = foreign un = unknown |     | classified according to the AGS as of December 31 of the reporting year.  Recommended filter: for reasons of confidentiality, filter out the characteristics "au = foreign" and "un = unknown" |
| pat_rb       | Administrative region of the patient                        | а | 1 | 0 – 9 a = foreign u = unknown   |     |  |
| pat_kreis    | district of the patient                                     | а | 2 | 00 – 93<br>au = foreign<br>un = unknown   |     |  |
| pat_gem      | Municipality of the patient                                 | а | 3 | 0 – 999<br>aus = foreign<br>unb = unknown   |     |  |
| pat_ags5     | district of the patient (five-digit in accordance with AGS) | а | 5 | 01001 – 16077<br>ausaa = foreign<br>unbuu = unknown   |     |  |
| pat_typ_gem3 | Type of region oft he patient                               | а | 2 | 01 = uraban region 02 = region with rudimentary urban growth 03 = rural region  | yes | Explanations at www.bbsr.bund.de   |
| sex          | Sex   | а | 1 | m = male<br>w = female<br>u = unknown   |     |  |
| sex_orginal  | Sex   | а | 1 | m = male w = female d = gender diverse x = undefined  |     | Evaluations are not possible for reasons of confidentiality. Use the variable "sex" for evaluations according to gender.   |
| alter        | Age in years  | n | 8 | 999 = unknown   |     | Recommended filter: for reasons of confidentiality, filter out the characteristics "999 = unknown"   |
| typ_alter    | Age (grouped)   | n | 3 | 1 = 0 years<br>2 = 1 to 4 years<br>3 = 5 to 9 years<br>4 = 10 to 14 years<br>5 = 15 to 19 years   |     | Recommended filter: for reasons of confidentiality, filter out the characteristics "22 0 unknown"  |

|            |  |   |   | 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 |     |   |
|------------|--|---|---|---|-----|---|
| geb jahr   | Year of Birth  | n | 8 | four-digit information on year of birth (YYYY)  |     |   |
| geb_monat  | Month of birth (only for<br>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 years. 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   | а | 1 | E = referral by a physician Z = referral by a dentist N = emergency R = admission after prior treatment in a rehabilitaion facility V = transfer with a duration of therapy of over 24 hours at transfering hospital A = transfer with a duration of therapy of up to 24 hours at transfering hospital (for admissions after 1.1.2007)    |     | Newborns, who are discharged toether 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 7 = readmission due to complications (flat rate per case) according to KFPV 2003 8 = inpatient admission for organ removal   |     |  |
|-----------------------|---|---|---|--|-----|--|
| aufn_gew              | Weight of admission in grams (only for children up to the age of one) | n | 8 | . = 1 year and older   | yes | Only for children up to the age of one; in case of newborns the birth 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 against medical advice 5 = changes in responsibility of cost unit (in days-related charges) 6 = transfer to another hospital 7 = death 8 = tranfer 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, part-time inpatient and inpatient equivalent treatment (inpatient equivalent available as of reporting year 2018) 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 | caregory aramazo as or reporting year 20 : .,  |     | 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 -<br>icd_nd89 | ICD code secondary diagnosis  | а | 5 |  | yes | Diagnosis code in the current ICD-10GM version analogously to § 301 agreement.   |

| dia_art1 -<br>dia_art90 | Diagnosis type   | а | 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 -<br>icd_ve90   | ICD version  | n | 4 | four-digit information on reporting year (YYYY)<br>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)  | а | 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                    | PEPP code (primary<br>PEPP code, grouped<br>by InEK)   | а | 4 |  |     |   |
| split                   | Splitting of the basic<br>PEPP according to<br>consumption of<br>ressources, 5th digit of<br>the PEPP notation | а | 4 | A = highest consumption of resources B = second highest consumption of resources C = third highest consumption of resources D = forth highest consumption of resources Z = not nuanced |     |   |
| 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 / performance of external 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 -<br>bel_an101     | external anesthesists                                    | а | 1 | J = yes, participation / performance of external anesthesists N = no, no participation / performance of external anesthesists 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_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 | 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.                 |
| 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   | а | 4 | time in format hhmm<br>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 -<br>ops_lo101     | OPS-localisation<br>(further information on<br>OPS-code) | а | 1 | R = right<br>L = left<br>B = double-sided<br>U = 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 "U" in the according further information.    |

| fab1 - fab100  | Specialist departments | а | 8 | 01 = internal medicine                                     | yes | In addition to "00" the codes "90" and "92"can be used     |
|----------------|------------------------|---|---|--|-----|--|
| ida i ida i oo | Specialist departments | u | I | 0102 = focus geriatrics                                    | ,00 | in the third and fourth digit to code specialised          |
|                |                        |   |   | 0102 = focus genatics<br>0103 = focus cardiology           |     | specialist departments, which are not coded with a         |
|                |                        |   |   | 0104 = focus nephrology                                    |     | national common specialist department code. Even           |
|                |                        |   |   |  |     |  |
|                |                        |   |   | 0105 = focus haematology and internal oncology             |     | though using this distinction of specialist departments,   |
|                |                        |   |   | 0106 = focus endocrinology                                 |     | it is not needed to name the type of specialisation or     |
|                |                        |   |   | 0107 = focus gastroenterology                              |     | the focus of the specialist department precisely. Both     |
|                |                        |   |   | 0108 = focus pneumology                                    |     | contracting parties need to determine the specialist       |
|                |                        |   |   | 0109 = focus rheumatology                                  |     | department code (described above) within the nursing       |
|                |                        |   |   | 0114 = focus pulmonary and bronchial medicine              |     | care rate agreement. This is the condition for the         |
|                |                        |   |   | 0150 = tumour research                                     |     | procedure.   |
|                |                        |   |   | 0151 = focus coloproktology                                |     |  |
|                |                        |   |   | 0152 = focus infectious diseases                           |     | Specialist department codes, for which it is possible to   |
|                |                        |   |   | 0153 = focus diabetes                                      |     | take 50 % APS intensive into account (in accordance        |
|                |                        |   |   | 0154 = focus naturopathy                                   |     | with version of BPfIV of 31.12.2003) and which             |
|                |                        |   |   | 0156 = focus stroke patients (Stroke units, art. 7 § 1 (3) |     | department flat rate does not need to be reduced by 20     |
|                |                        |   |   | GKV-SolG)  |     | %, if a surcharge is charged simultaneously:               |
|                |                        |   |   | ORV GOIG)  |     | - 0436   |
|                |                        |   |   | 02 = geriatrics  |     | - 1136   |
|                |                        |   |   | 0224 = focus gynaecology                                   |     | - 1536   |
|                |                        |   |   |  |     |  |
|                |                        |   |   | 0260 = day-care hospital (for semi-stationary nursing      |     | - 2036   |
|                |                        |   |   | charges)   |     | - 2050   |
|                |                        |   |   | 0261 = night-care hospital (for semi-stationary nursing    |     | - 2136   |
|                |                        |   |   | charges)   |     | - 2150   |
|                |                        |   |   |  |     | - 36xx   |
|                |                        |   |   | 03 = cardiology  |     |  |
|                |                        |   |   |  |     | Special arrangement for pseudo-specialist                  |
|                |                        |   |   | 04 = nephrology  |     | departments in ETL-segment of the discharging              |
|                |                        |   |   | 0410 = focus paediatrics                                   |     | display:   |
|                |                        |   |   | 0436 = intensive care                                      |     | - 0000: pseudo-specialist department in reference to       |
|                |                        |   |   |  |     | hospitals (relevant "specialist department" for DRG        |
|                |                        |   |   | 05 = haematology and internal oncology                     |     | grouping) for internal transfers and / or return transfers |
|                |                        |   |   | 0510 = focus paediatrics                                   |     | and / or readmission and / or in case of external          |
|                |                        |   |   | 0524 = focus gynaecology                                   |     | residence with absence over night.                         |
|                |                        |   |   | 0533 = focus radiotherapeutics                             |     | - 0001: pseudo-specialist department for residence in      |
|                |                        |   |   |  |     | case of a return transfer                                  |
|                |                        |   |   | 06 = endocrinology   |     | - 0002: pseudo-specialist department for an external       |
|                |                        |   |   | 0607 = focus gastroenterology                              |     | residence in case of a readmission                         |
|                |                        |   |   | 0610 = focus paediatrics                                   |     | - 0003: pseudo-specialist department for an external       |
|                |                        |   |   | 0010 = 10000 pacaiatilos                                   |     | residence with absence over night in the BPfIV sector      |
|                |                        |   |   | 07 = gastroenterology                                      |     | (please note: "0003" is used as specialist department      |
|                |                        |   |   | 0706 = focus endocrinology                                 |     | code for an external residence over night for insured      |
|                |                        |   |   | 0706 = locus endocrinology<br>0710 = focus paediatrics     |     | persons in hospitals who are refunded in accordance        |
|                |                        |   |   | 07 TO = Tocus paediatrics                                  |     |  |
|                |                        |   |   | 00 maumalagu   |     | with BPfIV (regardless of the use of the new               |
|                |                        |   |   | 08 = pneumology  |     | remuneration system in accordance with § 17 d              |
|                |                        |   |   |  |     | KHG)).   |
| 1              |                        |   |   | 09 = rheumatology  |     |  |
|                |                        |   |   | 0910 = focus paediatrics                                   |     |  |
|                |                        |   |   |  |     |  |
| 1              |                        |   |   | 10 = paediatrics   |     |  |
|                |                        |   |   | 1004 = focus nephrology                                    |     |  |

| · |   |
|---|---|
|   | 1005 = focus haematology and internal oncology      |
|   | 1006 = focus endocrinology                          |
|   | 1007 = focus gastroenterology                       |
|   | 1009 = focus rheumatology                           |
|   | 1011 = focus paediatric cardiology                  |
|   | 1012 = focus neonatology                            |
|   | 1014 = focus pulmonary and bronchial medicine       |
|   | 1028 = focus paediatric neurology                   |
|   | 1050 = focus perinatal medicine                     |
|   | 1051 = long-term range children                     |
|   |   |
|   | 11 = paediatric cardiology                          |
|   | 1136 = focus intensive care                         |
|   |   |
|   | 12 = neonatology                                    |
|   |   |
|   | 13 = paediatric surgery                             |
|   |   |
|   | 14 = pulmonary and bronchial medicine               |
|   | 1410 = focus paediatrics                            |
|   |   |
|   | 15 = general surgery                                |
|   | 1513 = focus paediatric surgery                     |
|   | 1516 = focus trauma surgery                         |
|   | 1518 = focus vascular surgery                       |
|   | 1519 = focus plastic surgery                        |
|   | 1520 = focus thoracic surgéry                       |
|   | 1523 = focus orthopaedics                           |
|   | 1536 = intensive care (§ 13 (2) 3, 2. BPfIV version |
|   | released on 31.12.2003)                             |
|   | 1550 = focus abdominal and vascular surgery         |
|   | 1551 = focus hand surgery                           |
|   | look issue issued,                                  |
|   | 16 = trauma surgery                                 |
|   |   |
|   | 17 = neurosurgery                                   |
|   |   |
|   |   |
|   | 18 = vascular surgery                               |
|   |   |
|   | 19 = plastic surgery                                |
|   |   |
|   | 20 = thoracic surgery                               |
|   | 2021 = focus heart surgery                          |
|   | 2036 = intensive care                               |
|   | 2050 = focus heart surgery intensive care           |
|   |   |
|   | 21 = heart surgery                                  |
|   | 2118 = focus vascular surgery                       |
|   | 2120 = focus thoracic surgery                       |
|   |   |

| 2136 = intensive care (§ 13 (2) 3, 2. BPfIV version released on 31.12.2003) 2150 = focus thoracic surgery intensive care  |
|---|
| 22 = urology  |
| 23 = orthopaedics 2309 = focus rheumatology 2315 = focus surgery 2316 = orthopaedics and trauma surgery   |
| 24 = gynaecology and obstetrics 2402 = focus geriatrics 2405 = focus haematology and internal oncology 2406 = focus endocrinology   |
| 2425 = gynaecology 25 = obstetrics  |
| 26 = otorhinolaryngology  |
| 27 = ophthalmology  |
| 28 = neurology<br>2810 = focus paediatrics<br>2851 = focus gerontology<br>2856 = focus stroke patients (Stroke units, art. 7 § 1 (3)<br>GKV-SolG)   |
| 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)  |

| F       |   |   |   |  |     |  |
|---------|---|---|---|--|-----|--|
|         |   |   |   | 3061 = night-care hospital (for semi-stationary nursing charges)   |     |  |
|         |   |   |   | 31 = psychosomatics / psychotherapy<br>3110 = focus child and youth psychiatry<br>3160 = day-care hospital (for semi-stationary nursing<br>charges)<br>3161 = night-care hospital (for semi-stationary nursing<br>charges) |     |  |
|         |   |   |   | 32 = nuclear medicine<br>3233 = focus radiotherapeutics  |     |  |
|         |   |   |   | 33 = radiotherapeutics<br>3305 = focus haematology and internal oncology<br>3350 = focus radiology   |     |  |
|         |   |   |   | 34 = dermatology<br>3460 = day-care hospital (for semi-stationary nursing<br>charges)  |     |  |
|         |   |   |   | 35 = dentistry and orthodontics, 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<br>3754 = healing therapy department<br>3755 = spinal surgery<br>3756 = addiction medicine<br>3757 = abdominal surgery<br>3758 = weaning unit  |     |  |
| fab_max | specialist department<br>with the longest<br>duration of stay | а | 8 | see fab1 – fab100  | yes |  |

| tage_fa1 -<br>tage_fa100           | duration of stay in specialist department                                   | n | 8 |  | yes |   |
|------------------------------------|---|---|---|--|-----|---|
| tage_max                           | duration of stay in specialist department with the longest duration of stay | n | 8 |  | yes | In case of various specialist departments: Real number of spent days in fab_max.  |
| dat_aufn_fa1 -<br>dat_aufn_fa100   | Date of admission in<br>the specialist<br>department                        | а | 8 | date in format YYYYMMDD<br>9999999 = unknown   | yes | 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                              | а | 8 | time in format hhmm  | yes | 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<br>the specialist<br>department                     | а | 8 | date in format YYYYMMDD  | yes | 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_entl_fa1 -<br>zeit_entl_fa100 | Time of transfer out of the specialist department                           | а | 8 | time in format hhmm  | yes | 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   | yes |   |
| ik                                 | Hospital-ID (anonymised)  | а | 9 |  |     |   |
| fall_nr                            | number of case<br>(anonymised)  | n | 8 |  |     |   |
| entl_ort                           | Discharging facility (6-digits) (anonymised)                                | n | 6 |  |     | 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.  |

| entl_ort9 | Discharging facility (9-digits) (anonymised)                             | а | 9 |   | 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<br>hospital                                       | а | 8 | date in format YYYYMMDD   |   |
| zeit_entl | time of discharge from hospital  | а | 4 | time in format hhmm   |   |
| tage      | Period of<br>hospitalisation (day<br>cases are calculated as<br>one day) | n | 8 |   |   |
| typ_vwd   | Type of persiod of hospitalisation                                       | n | 3 | 01 =day case = 1<br>02 = days = 1<br>03 = days = 2<br>04 = days = 3<br>05 = days = 4<br>06 = days = 5<br>07 = days = 6<br>08 = days = 7<br>09 = days <= 9<br>10 = days <= 12<br>11 = days <= 14<br>12 = days <= 21<br>13 = days <= 28<br>14 = days <= 35<br>15 = days <= 70<br>17 = days <= 182<br>18 = days <= 365<br>19 = days <= 99999 |   |
| std_fall  | day case   | n | 3 | 1 = yes<br>2 = no   |   |
| cm        | Daymix (DM)  | n | 8 |   | The Daymix is the sum of the day-related valuation ratios including the supplementary daily charges.  |
| cm_n      | valid cases (counter<br>variable for the<br>Daymix)                      | n | 8 |   | Counter variable, which takes the value 1, if cm and cm_vol show valid values.  |
| cm_vol    | Daymix-revenue in euros  | n | 8 |   | The Daymix-revenue is calculated by the product of the daymix and the annually weighted base charge value according to the performance-based psych hospital comparison. |

#### 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/pepp

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 2019 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 2019 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            | 35.000  | 3,98    |
| Hamburg                       | 21.453  | 2,44    |
| Lower Saxony                  | 80.844  | 9,19    |
| Bremen                        | 8.400   | 0,95    |
| North Rhine-Westphalia        | 200.773 | 22,82   |
| Hessia                        | 62.283  | 7,08    |
| Rhineland-Palatinate          | 45.999  | 5,23    |
| Baden-Württemberg             | 98.472  | 11,19   |
| Bavaria                       | 128.307 | 14,59   |
| Saarland                      | 11.865  | 1,35    |
| Berlin                        | 39.463  | 4,49    |
| Brandenburg                   | 28.532  | 3,24    |
| Mecklenburg-Western Pomerania | 19.037  | 2,16    |
| Saxony                        | 43.315  | 4,92    |
| Saxony-Anhalt                 | 24.923  | 2,83    |
| Thuringia                     | 25.418  | 2,89    |
| Unknown                       | 5.617   | 0,64    |
| Sum                           | 879.701 | 100     |

| Federal State of hospital     | Count   | Percent |
|-------------------------------|---------|---------|
| Schleswig-Holstein            | 36.914  | 4,2     |
| Hamburg                       | 22.846  | 2,6     |
| Lower Saxony                  | 78.296  | 8,9     |
| Bremen                        | 8.673   | 0,99    |
| North Rine-Westphalia         | 196.370 | 22,32   |
| Hessia                        | 64.293  | 7,31    |
| Rhineland-Palatinate          | 46.959  | 5,34    |
| Baden-Württemberg             | 97.195  | 11,05   |
| Bavaria                       | 136.496 | 15,52   |
| Saarland                      | 11.695  | 1,33    |
| Berlin                        | 40.120  | 4,56    |
| Brandenburg                   | 28.077  | 3,19    |
| Mecklenburg-Western Pomerania | 18.754  | 2,13    |
| Saxony                        | 42.728  | 4,86    |
| Saxony-Anhalt                 | 24.308  | 2,76    |
| Thuringia                     | 25.977  | 2,95    |
| Sum                           | 879.701 | 100     |

| Gender of patient | Count   | Percent |
|-------------------|---------|---------|
| Male              | 464.098 | 52,76   |
| Female            | 415.603 | 47,24   |
| Sum               | 879.701 | 100     |

| Main diagnosis according to ICD-10-GM  | Count   | Percent |
|--|---------|---------|
| I. Certain infectious and parasitic diseases (A00 - B99)                       | 31      | 0       |
| II. Neologisms (C00 – D48)   | 20      | 0       |
| IV. Endocrine, nutritional and metabolic diseases (E00 – E90)                  | 71      | 0,01    |
| V. Mental and behavioural disorders (F00 – F99)                                | 860.925 | 97,87   |
| VI. Diseases of the nervous system (G00 – G99)                                 | 18.132  | 2,06    |
| VIII. Diseases of the ear and mastoid process (H60 – H95)                      | 3       | 0       |
| IX. Diseases of the circulatory system (I00 – I99)                             | 37      | 0       |
| X. Diseases of the respiratory system (J00 – J99)                              | 3       | 0       |
| XI. Diseases of the digestive system (K00 – K93)                               | 6       | 0       |
| XIII. Diseases of the musculoskeletal system and connective tissue (M00 – M99) | 4       | 0       |
| XIV. Diseases of the urogenital system (N00 – N99)                             | 5       | 0       |
| XV. Pregnancy, childbirth and puerperium (O00 – O99)                           | 5       | 0       |

| XVII. Congenital malformations, deformities and chromosomal anomalies (Q00 – Q99)  | 21      | 0    |
|--|---------|------|
| XVIII. Symptoms and abnormal clinical and laboratory findings not elsewhere classified (R00 – R99)   | 160     | 0,02 |
| XIX. Injuries, poisoning, and certain other consequences of external causes (S00 – T98)  | 52      | 0,01 |
| XX. – XII. Factors influencing health status and leading to use of health services; key for special purposes (U00 – Z99)   | 221     | 0,03 |
| III. Diseases of the blood and haematopoietic organs and certain disorders involving the immune system (D50 – D90)  VII. Diseases of the eye and eye appendages; Diseases of the ear and mastoid process (H00 – H95)  XII. Diseases of the skin and subcutis (L00 – L99) | 5       | 0    |
| Sum  | 879.701 | 100  |

### 2.4 Evaluable regional level

The lowest evaluable regional level is the federal state 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. The SAS macro newvar was originally written for the DRG statistic but can be used analogously for the PEPP data. 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

