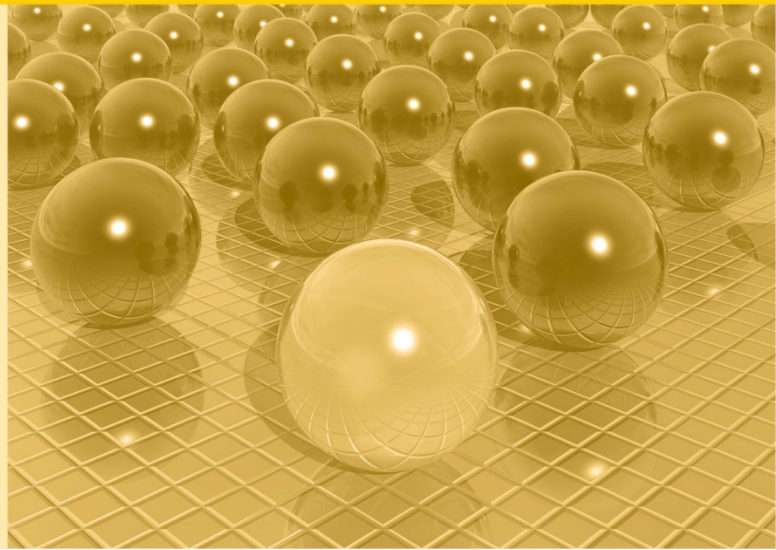


# Metadata report



Part II: Product-specific information on the use of the *DRG statistic 2012 for on-site use*

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Version 5

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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 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	Missing values	Comments
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		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	a	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	a	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	a	5	1067 – 99976		Evaluations at this regional level not possible for confidentiality reasons.
kh_typ_gem3	Type of region of the hospital	a	2	01 = urban region 02 = region with rudimentary urban growth 03 = rural region		Explanations at <a href="http://www.bbsr.bund.de">www.bbsr.bund.de</a>
pat_land	Federal state of the patient	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 au = Ausland oh = no data provided (category available for reporting years 2005-2010) un = unknown		classified according to the AGS as of December 31 of the 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	a	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_ag5	district of the patient (five-digit in accordance with AGS)	a	5	01001 – 16077 ausaa = foreign ohnoo = no data provided (category available for reporting years 2005-2010) unbuu = unknown		
pat_typ_gem3	Type of region of the patient	a	2	01 = urban region 02 = region with rudimentary urban growth 03 rural region		Explanations at <a href="http://www.bbsr.bund.de">www.bbsr.bund.de</a>
sex	Sex	a	1	m = male w = female 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 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 transferring 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 transferring 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 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	<p>1 = regular termination of treatment</p> <p>2 = regular termination of treatment, post-discharge treatment intended</p> <p>3 = treatment terminated for other reasons</p> <p>4 = treatment terminated against medical advice</p> <p>5 = changes in responsibility of cost unit (in days-related charges)</p> <p>6 = transfer to another hospital</p> <p>7 = death</p> <p>8 = transfer to another hospital as part of a cooperation</p> <p>9 = discharge into a rehabilitation facility</p> <p>10 = discharge into a long-term care facility</p> <p>11 = discharge into a hospice</p> <p>13 = external transfer for psychiatric treatment</p> <p>14 = treatment terminated for other reasons, post-discharge treatment intended</p> <p>15 = treatment terminated against medical advice, post-discharge treatment intended</p> <p>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</p> <p>22 = case end (internal transfer) when changing between full and part-time inpatient treatment</p> <p>24 = termination of an external stay with absence past midnight (BdpfIV-section, for pseudo-specialist department 0003) (category available as of reporting year 2016)</p> <p>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)</p>		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	a	3			Diagnosis code in the current ICD-10GM version analogously to § 301 agreement.
icd_hd4	ICD code four-digit primary diagnosis	a	4			Diagnosis code in the current ICD-10GM version analogously to § 301 agreement.
icd_hd	ICD code five-digit primary diagnosis	a	5			Diagnosis code in the current ICD-10GM version analogously to § 301 agreement.
icd_nd1 - icd_nd89	ICD code secondary diagnosis	a	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 referring to the primary diagnoses. Variables dia_art2 to dia_art90 are referring 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 referring to the primary diagnoses. Variables icd_ve2 to icd_ve90 are referring 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 referring to the primary diagnoses. Variables icd_lo2 to icd_lo90 are referring to the secondary diagnoses 1 to 89.
drgh	DRG code (primary DRG code, grouped by InEK)	a	4			
partition	DRG partition (M, O, A)	a	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 resources, 4th digit of the DRG notation	a	4	A – Z		
ops_ko1 - ops_ko101	OPS-code	a	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 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-bel_oper101	external operators	a	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 anesthetists	a	1	J = yes, participation / performance of external anesthetists N = no, no participation / performance of external anesthetists U = unknown	yes	
bel_heb1-bel_heb101	external midwives	a	1	J = yes, participation / performance of external midwives N = no, no participation / performance of external midwives U = unknown	yes	
ops_ve1-ops_ve101	OPS-version	n	4	four-digit information on reporting year 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- dat_ops101	OPS-date	a	8	date in format YYYYMMDD 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- 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	a	8	01 = internal medicine 0102 = focus geriatrics 0103 = focus cardiology 0104 = focus nephrology	yes	In addition to "00" the codes "90" and "92" can be used in the third and fourth digit to code

			<p>0105 = focus haematology and internal oncology  0106 = focus endocrinology  0107 = focus gastroenterology  0108 = focus pneumology  0109 = focus rheumatology  0114 = focus pulmonary and bronchial medicine  0150 = tumour research  0151 = focus coloproktology  0152 = focus infectious diseases  0153 = focus diabetes  0154 = focus naturopathy  0156 = focus stroke patients (Stroke units, art. 7 § 1 (3) GKV-SolG)</p> <p>02 = geriatrics  0224 = focus gynaecology  0260 = day-care hospital (for semi-stationary nursing charges)  0261 = night-care hospital (for semi-stationary nursing charges)</p> <p>03 = cardiology</p> <p>04 = nephrology  0410 = focus paediatrics  0436 = intensive care</p> <p>05 = haematology and internal oncology  0510 = focus paediatrics  0524 = focus gynaecology  0533 = focus radiotherapeutics</p> <p>06 = endocrinology  0607 = focus gastroenterology  0610 = focus paediatrics</p> <p>07 = gastroenterology  0706 = focus endocrinology  0710 = focus paediatrics</p> <p>08 = pneumology</p> <p>09 = rheumatology  0910 = focus paediatrics</p> <p>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</p>	<p>specialised specialist departments, which are not coded with a national common specialist department code. Even though using this distinction of specialist departments, it is not needed to name the type of specialisation or the focus of the specialist department precisely. Both contracting parties need to determine the specialist department code (described above) within the nursing care rate agreement. This is the condition for the procedure.</p> <p>Specialist department codes, for which it is possible to take 50 % APS intensive into account (in accordance with version of BpflV of 31.12.2003) and which department flat rate does not need to be reduced by 20 %, if a surcharge is charged simultaneously:</p> <ul style="list-style-type: none"> <li>- 0436</li> <li>- 1136</li> <li>- 1536</li> <li>- 2036</li> <li>- 2050</li> <li>- 2136</li> <li>- 2150</li> <li>- 36xx</li> </ul> <p>Special arrangement for pseudo-specialist</p>
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			<p>1028 = focus paediatric neurology  1050 = focus perinatal medicine  1051 = long-term range children</p> <p>11 = paediatric cardiology  1136 = focus intensive care</p> <p>12 = neonatology</p> <p>13 = paediatric surgery</p> <p>14 = pulmonary and bronchial medicine  1410 = focus paediatrics</p> <p>15 = general surgery  1513 = focus paediatric surgery  1516 = focus trauma surgery  1518 = focus vascular surgery  1519 = focus plastic surgery  1520 = focus thoracic surgery  1523 = focus orthopaedics  1536 = intensive care (§ 13 (2) 3, 2. BpflV version released on 31.12.2003)  1550 = focus abdominal and vascular surgery  1551 = focus hand surgery</p> <p>16 = trauma surgery</p> <p>17 = neurosurgery</p> <p>18 = vascular surgery</p> <p>19 = plastic surgery</p> <p>20 = thoracic surgery  2021 = focus heart surgery  2036 = intensive care  2050 = focus heart surgery intensive care</p> <p>21 = heart surgery  2118 = focus vascular surgery  2120 = focus thoracic surgery  2136 = intensive care (§ 13 (2) 3, 2. BpflV version released on 31.12.2003)  2150 = focus thoracic surgery intensive care</p> <p>22 = urology</p> <p>23 = orthopaedics  2309 = focus rheumatology  2315 = focus surgery</p>		<p>departments in ETL-segment of the discharging display:</p> <ul style="list-style-type: none"> <li>- 0000: pseudo-specialist department in reference to hospitals (relevant "specialist department" for DRG grouping) for internal transfers and / or return transfers and / or readmission and / or in case of external residence with absence over night.</li> <li>- 0001: pseudo-specialist department for residence in case of a return transfer</li> <li>- 0002: pseudo-specialist department for an external residence in case of a readmission</li> <li>- 0003: pseudo-specialist department for an external residence with absence over night in the BpflV sector (please note: "0003" is used as specialist department code for an external residence over night for insured persons in hospitals who are refunded in accordance with BpflV (regardless of the use of the new remuneration system in accordance with § 17 d KHG)).</li> </ul>
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			<p>2316 = orthopaedics and trauma surgery</p> <p>24 = gynaecology and obstetrics  2402 = focus geriatrics  2405 = focus haematology and internal oncology  2406 = focus endocrinology  2425 = gynaecology</p> <p>25 = obstetrics</p> <p>26 = otorhinolaryngology</p> <p>27 = ophthalmology</p> <p>28 = neurology  2810 = focus paediatrics  2856 = focus stroke patients (Stroke units, art. 7 § 1 (3) GKV-SolG)</p> <p>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)</p> <p>30 = child and youth psychiatry  3060 = day-care hospital (for semi-stationary nursing charges)  3061 = night-care hospital (for semi-stationary nursing charges)</p> <p>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)</p> <p>32 = nuclear medicine  3233 = focus radiotherapeutics</p> <p>33 = radiotherapeutics  3305 = focus haematology and internal oncology  3350 = focus radiology</p> <p>34 = dermatology  3460 = day-care hospital (for semi-stationary nursing charges)</p>		
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				<p>35 = dentistry and oral surgery</p> <p>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 = cardiothoracic surgery</p> <p>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</p>		
fab_max	specialist department with the longest duration of stay	a	8	see fab1 – fab100		
tage_fa1 - tage_fa100	duration of stay in specialist department	n	8			
tage_max	duration of stay in specialist department with the longest duration of stay	n	8			

dat_aufn_fa1- dat_aufn_fa100	Date of admission in 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 "99999999" in the according further information.
zeit_aufn_fa1- 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- 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 "99999999" in the according further information.
zeit_entl_fa1- zeit_entl_fa100	Time of transfer out of 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.
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 - abt_art100	department category	a	8	HA = main department BA = occupancy department BE = special department		
ik	Hospital-ID (anonymised)	a	9			
fall_nr	number of case (anonymised)	n	8			
entl_ort	Discharging facility (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	a	8	date in format YYYYMMDD		
zeit_aufn	time of hospital admission	a	4	time in format hhmm		
dat_entl	date of discharge from hospital (anonymised)	a	8	date in format YYYYMMDD		
zeit_entl	time of discharge from hospital	a	4	time in format hhmm		
tage	Period of hospitalisation (day cases are calculated 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 <= 70 17 = days <= 182 18 = days <= 365 19 = days <= 99999		
std_fall	day case	n	3	1 = yes 2 = no		

cm	Case Mix (CM)	n	8			The Case Mix is the sum of the effective cost relations of all hospital cases treated in the relevant reporting year. The calculation includes the effective cost relation of the DRG of the case treated. Day-related reductions (where duration of stay of a case is below the minimum duration), surcharges (where duration of stay of a case exceeds the maximum duration) as well as transfers of cases according to DRG regulations are included. Additional charges and full inpatient treatments, which are not remunerated by the DRG catalogue, are not included.
cm_n	valid cases (counter variable for the Case Mix)	n	8			Counter variable, which takes the value 1, if cm and cm_vol show valid values.
cm_vol	Case Mix-revenue in euros	n	8			The Case-Mix Revenue is calculated by multiplying the effective cost weight by the relevant Land-wide base rate (with "Angleichungsbetrag") of the hospital cases. Additional charges and full inpatient treatments, which are not remunerated 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 2012 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 2012 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	590.452	3,28
Hamburg	348.045	1,94
Lower Saxony	1.688.435	9,39
Bremen	133.537	0,74
North Rhine-Westphalia	4.196.971	23,35
Hessia	1.304.007	7,25
Rhineland-Palatinate	926.943	5,16
Baden-Württemberg	1.964.070	10,93
Bavaria	2.707.878	15,06
Saarland	248.885	1,38
Berlin	665.507	3,7
Brandenburg	609.243	3,39
Mecklenburg-Western Pomerania	390.013	2,17
Saxony	948.681	5,28
Saxony-Anhalt	601.664	3,35
Thuringia	565.008	3,14
Unknown	87.108	0,48
<b>Sum</b>	<b>17.976.447</b>	<b>100</b>

Federal State of hospital	Count	Percent
Schleswig-Holstein	552.781	3,08
Hamburg	448.084	2,49
Lower Saxony	1.591.227	8,85
Bremen	196.132	1,09
North Rine-Westphalia	4.223.440	23,49
Hessia	1.270.245	7,07
Rhineland-Palatinate	880.113	4,9
Baden-Württemberg	2.023.498	11,26
Bavaria	2.761.506	15,36
Saarland	258.610	1,44
Berlin	753.044	4,19
Brandenburg	524.447	2,92
Mecklenburg-Western Pomerania	391.968	2,18
Saxony	966.456	5,38
Saxony-Anhalt	574.995	3,20
Thuringia	559.901	3,11
<b>Sum</b>	<b>17.976.447</b>	<b>100</b>

Gender of patient	Count	Percent
Male	8.444.303	46,97
Female	9.530.699	53,02
Unknown	1.445	0,01
<b>Sum</b>	<b>17.976.447</b>	<b>100</b>

Age of patient	Count	Percent
0 to 9 years	1.446.781	8,05
10-19 years	724.552	4,03
20-29 years	1.230.740	6,85
30-39 years	1.308.377	7,28
40-49 years	1.670.922	9,30
50-59 years	2.281.167	12,69
60-69 years	2.608.205	14,51
70 and older	6.705.694	37,3
Unknown	9	0,00
<b>Sum</b>	17.976.447	100

Main diagnosis according to ICD-10-GM	Count	Percent
I. Certain infectious and parasitic diseases	565.803	3,15
II. Neoplasms (C00 – D48)	1.824.920	10,15
III. Diseases of the blood and haematopoietic organs and certain disorders involving the immune system (D50 – D90)	130.860	0,73
IV. Endocrine, nutritional and metabolic diseases (E00 – E90)	493.876	2,75
V. Mental and behavioural disorders (F00 – F99)	302.988	1,69
VI. Diseases of the nervous system (G00 – G99)	721.109	4,01
VII. Diseases of the eye and eye appendages (H00 – H59)	334.555	1,86
VIII. Diseases of the ear and mastoid process (H60 – H95)	151.480	0,84
IX. Diseases of the circulatory system (I00 – I99)	2.846.284	15,83
X. Diseases of the respiratory system (J00 – J99)	1.167.165	6,49
XI. Diseases of the digestive system (K00 – K93)	1.845.386	10,27
XII. Diseases of the skin and subcutis (L00 – L99)	274.700	1,53

<b>XIII. Diseases of the musculoskeletal system and connective tissue (M00 – M99)</b>	1.719.126	9,56
<b>XIV. Diseases of the urogenital system (N00 – N99)</b>	1.014.640	5,64
<b>XV. Pregnancy, childbirth and puerperium (O00 – O99)</b>	929.305	5,17
<b>XVI. Certain states originating in the perinatal period (P00 – P96)</b>	181.047	1,01
<b>XVII. Congenital malformations, deformities and chromosomal anomalies (Q00 – Q99)</b>	101.370	0,56
<b>XVIII. Symptoms and abnormal clinical and laboratory findings not elsewhere classified (R00 – R99)</b>	891.933	4,96
<b>XIX. Injuries, poisoning, and certain other consequences of external causes (S00 – T98)</b>	1.877.857	10,45
<b>XX. – XII. Factors influencing health status and leading to use of health services; key for special purposes (U00 – Z99)</b>	602.036	3,35
<b>Sum</b>	17.976.447	100

Main diagnoses according to ICD-10-GM by sex	Count			
	Male	Female	Unknown	Sum
<b>I. Certain infectious and parasitic diseases</b>	274.051	291.668	84	565.803
<b>II. Neoplasms (C00 – D48)</b>	919.272	905.490	158	1.824.920
<b>III. Diseases of the blood and haematopoietic organs and certain disorders involving the immune system (D50 – D90)</b>	55.367	75.484	9	130.860
<b>IV. Endocrine, nutritional and metabolic diseases (E00 – E90)</b>	209.395	284.436	45	493.876
<b>V. Mental and behavioural disorders (F00 – F99)</b>	170.575	132.382	31	302.988
<b>VI. Diseases of the nervous system (G00 – G99)</b>	378.941	342.116	52	721.109
<b>VII. Diseases of the eye and eye appendages (H00 – H59)</b>	150.739	183.797	19	334.555
<b>VIII. Diseases of the ear and mastoid process (H60 – H95)</b>	70.202	81.264	14	151.480
<b>IX. Diseases of the circulatory system (I00 – I99)</b>	1.515.359	1.330.695	230	2.846.284
<b>X. Diseases of the respiratory system (J00 – J99)</b>	640.118	526.914	133	1.167.165
<b>XI. Diseases of the digestive system (K00 – K93)</b>	940.043	905.198	145	1.845.386

<b>XII. Diseases of the skin and subcutis (L00 – L99)</b>	147.610	127.064	26	274.700
<b>XIII. Diseases of the musculoskeletal system and connective tissue (M00 – M99)</b>	740.023	978.969	134	1.719.126
<b>XIV. Diseases of the urogenital system (N00 – N99)</b>	454.578	560.026	36	1.014.640
<b>XV. Pregnancy, childbirth and puerperium (O00 – O99)</b>	0	929.305	0	929.305
<b>XVI. Certain states originating in the perinatal period (P00 – P96)</b>	98.915	82.104	28	181.047
<b>XVII. Congenital malformations, deformities and chromosomal anomalies (Q00 – Q99)</b>	56.191	45.170	9	101.370
<b>XVIII. Symptoms and abnormal clinical and laboratory findings not elsewhere classified (R00 – R99)</b>	412.383	479.480	70	891.933
<b>XIX. Injuries, poisoning, and certain other consequences of external causes (S00 – T98)</b>	906.600	971.109	148	1.877.857
<b>XX. – XII. Factors influencing health status and leading to use of health services; key for special purposes (U00 – Z99)</b>	303.940	298.022	74	602.036
<b>Sum</b>	8.444.303	9.530.699	1.445	17.976.447

## **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>

