

Luxembourg Microdata Platform on Labour and Social Protection

## Luxembourg Microdata Platform on Labour and Social Protection

# Data Dictionary

Inspection générale de la sécurité sociale

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#### **Data User's Guide**

#### Sources of data

Microdata available in the Platform are administrative data that have been transformed and prepared for statistical purposes. They come from different national institutions:

- the centre commun de la sécurité sociale (CCSS),
- the agence pour le développement de l'emploi (ADEM)
- the service national de la statistique (STATEC)
- the caisse nationale de santé (CNS)
- the caisse nationale d'assurance pension (CNAP)
- the fonds national de solidarité (FNS)
- the caisse pour l'avenir des enfants (CAE)
- pension public schemes.

#### Administrative data field

Administrative data provided in the platform are related to people living in Luxembourg or directly related to the Luxembourgish social protection system. For people living in Luxembourg but not registered in the Luxembourgish social protection system (as international civil servants), only few sociodemographic characteristics are known.

## How is data organized and delivered?

Microdata are organized in thematic registers. Provided variables are defined according to the "need to know" rule. Registers can be joined using different key variables:

- reference\_period
- individual\_IDnumber (pseudonymised individual identification number),
- employer\_IDnumber (pseudonymised employer identification number)
- job\_IDnumber (job identification number).

In the field of health, registers can be joined using the following key variables: act\_IDnumber, hosp\_stay\_treat\_IDnumber, executioner\_IDnumber, invoicer\_IDnumber, prescriber\_IDnumber, provider IDnumber, practitioner IDnumber and hospital IDnumber.





#### Most of the time, variables are prefixed:

- for variables which concern individuals, the prefix is i,
- for variables which concern jobs, the prefix is j\_,
- for variables which concern employers, the prefix is e\_,
- for variables which concern work absences, the prefix is a ,
- for variables which concern medical acts, the prefix is act\_,
- for variables which concern stays and treatments in hospital, the prefix is hosp\_,
- for variables which concern healthcare providers, the prefix is provider .

Specific values of variables : -9 = not applicable / -8 = not available / -1 = not provided

By default, variables are available since January 2002, except for health data which are available since January 2012 or 2018, depending the type of variables.

By default and to limit the risk of re-identification, only months and years are provided for date variables (the day is always recoded in 01). If the project requires more precise dates, it is up to the applicant to justify in order to comply with the "need to know" rule.

Signs and and indicate that measures of protection for personal data have been taken. Two levels of protection have been introduced.



These variables are <u>provided at an aggregate level</u>. If the project requires a more detailed level of information, it will be up to the applicant to justify it in order to comply with the "need to know" rule.



These variables are <u>not provided by default</u>. If the project requires this variable, it will be up to the applicant to justify it in order to comply with the "need to know" rule. Where appropriate, the level of aggregation provided to the applicant will also be decided according to the "need to know" rule.



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## 1. Individual data

## 1.1 Individual sociodemographic characteristics

All individual sociodemographic variables are related to a reference period (year and month). Some variables can change from month to month (like the age or the residence). Others dot not change (like the country of birth).

Name of the variable	reference_period
Description	Year and month
Format	Character (yyyymm)
Values	
Comments	
Source(s)	

Name of the variable	individual_IDnumber
Description	Pseudonymised individual identification number
Format	Character
Values	
Comments	
Source(s)	

Name of the variable	i_gender		
Description			
Format	Charac	cter	
Values	0	Male	
	1	Female	
Comments			
Source(s)	CCSS		

Name of the variable	i_age	
Description	Age at	the end of the month
Format	Charac	ter
Values	0	less than 20 years
	1	20-24 years
	2	25-29 years
	3	30-34 years
	4	35-39 years
	5	40-44 years
	6	45-49 years
	7	50-54 years
	8	55-59 years
	9	60 years and more
Comments		
Source(s)	CCSS	



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Name of the variable i\_civil\_status Description **Format** Character Values 0 Single Married or civil partnership 1 Separated-divorced Widow(er) 2 Comments This variable is not reliable for people living outside Luxembourg. For them, the value is -8 (not available). CCSS Source(s)

Name of the variable	i_residence_country	
Description		
Format	Chara	acter
Values	0	Luxembourg
	1	Germany
	2	Belgium
	3	France
	4	Other
01		ence country refers to the administrative address. When the country of residence is de the Greater Region, one would assume the person lives in Luxembourg, at least during yeek.
Source(s)	CCSS	

Name of the variable	i_location_residence
Description	Individual location residence refers to the following levels: "canton" for Luxembourg, "département" for France, "province" for Belgium and "Regierungsbezirk" for Germany.
Format Values	Character
Comments	For countries other than Luxembourg, France, Germany and Belgium, the variable is not available. More detailed variables are available about residence. They will be provided according to the "need to know" rule.
Source(s)	CCSS

Name of the variable	i_citizenship
Description	
Format	Character
Values	0 Luxembourg
	1 Germany
	2 Belgium
	3 France
	4 Portugal
	5 Other EU-27
	6 Other
Comments	This variable refers to the main citizenship during the reference period. It can change from
	month to month for people who acquire another citizenship. In case of dual citizenship, the
	provided citizenship is the one considered as the first by the administration. For people who
	take luxembourgish nationality, this is the one that is indicated.
Source(s)	CCSS



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Name of the variable	i_birth_country		
Description			
Format	Characte	er	
Values	0	Luxembourg	
	1	Germany	
	2	Belgium	
	3	France	
	4	Portugal	
	5	Other EU-27	
	6	Other	
Comments			
Source(s)	CCSS		

Name of the variable	i_NIN_creation_date
Description	Date of creation of the national identification number
Format	Date yyyymm
Values	
Comments	The variable refers to the date of creation of the national identification number. For people registered before the 1 <sup>st</sup> january 1977, the date is always january 1977.
Source(s)	CCSS

Name of the variable	i_first_job_Luxembourg_date
Description	
Format	Date yyyymm
Values	
Comments	"Not applicable" concerns people who have never worked. Student internships and summer jobs are not considered as a first job.
Source(s)	CCSS

Name of the variable	i_death_date
Description	
Format	Date yyyymm
Values	
Comments	
Source(s)	CCSS



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#### 1.2 Characteristics of individuals registered in the Luxembourgish social security

All variables concerning people registered in the Luxembourgish social security are related to a reference period (year and month). All of them can change from month to month.

Name of the variable reference\_period Description Year and month Format Character (yyyymm) **Values** Comments Source(s)

Name of the variable individual\_IDnumber Description Pseudonymised individual identification number **Format** Character Values Comments Source(s)

Name of the variable i\_coinsurance Description Format Character Values Personal insurance Co-insured Comments "Not applicable" concerns people not registered in the Luxembourgish social security system

Source(s)

Source(s)

#### 1.3 Child-parents relationships

Name of the variable parent\_individual\_IDnumber Description Parent pseudonymised individual identification number **Format** Character Values Comments Source(s)

Name of the variable child\_individual\_IDnumber Description Child pseudonymised individual identification number **Format** Character Values Comments



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#### 1.4 Spouses relationships

Name of the variable reference\_period

Description Year and month

Format Character (yyyymm)

Values

Comments Source(s)

Name of the variable individual\_IDnumber

Description Pseudonymised individual identification number

Format Character

Values Comments Source(s)

Name of the variable spouse individual IDnumber

Description Spouse pseudonymised individual identification number

Format Character

**Values** 

Comments Spouses relationships include married people or civil partnership.

Source(s)

#### 1.5 Households characteristics

Name of the variable Description Year and month Character (yyyymm) Values

Comments Source(s)

Name of the variable individual IDnumber

Description Pseudonymised individual identification number
Format Character

Values Comments Source(s)

Name of the variable **h household number** 

Description Household identification number in December of the year

Format Numeric

Values

Comments Information only available for residents. For residents, the household is defined as all persons

living together in the same dwelling (dwelling-household) except for people living in the City of Luxembourg for whom this information is not available. For the latest, a dwelling-household has been built for the beneficiaries of a benefit calculated at the household level (minimum income and/or cost-of-living allowance) and, for the other persons, a fiscal-household has been built defined as married or civil partner persons with or without children living together.

The composition of the household is as of the 31th December of each year.

Source(s) NRNP, IGSS (Calculated)



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Name of the variable h\_household\_number\_type

Description Household identification number type

Format Numeric

Values 0 dwelling-household

1 fiscal household

Comments

Source(s) NRNP, IGSS (Calculated)

Name of the variable h\_month\_total\_income

Description Monthly gross total income

Format Numeric

Values

Comments i\_month\_total\_income= j\_month\_total\_wage + i\_family\_allowance + i\_school\_allowance +

i\_birth\_allowance+ i\_maternity\_allowance + i\_childrear\_allowance + i\_child\_bonus + i\_parental\_leave\_benefit + i\_unemployment\_benefit + i\_compensation\_benefits + i\_tideover\_benefit + i\_early\_retirement + i\_invalid\_pension + i\_oldage\_pension + i\_survivor\_pension + i\_orphan\_pension + i\_child\_rearing\_fixed\_allow + i\_min\_income + i\_survivor\_pension + i\_orphan\_pension + i\_orpha

i\_lifecost\_allowance + i\_disable\_allowance

Source(s) CCSS



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## 2. Labor market data

Source(s)

#### 2.1 Characteristics of jobs

All variables concerning jobs are related to a reference period (year and month). Some variables can change from month to month (like the number of worked hours or the wage). Others do not change over time (like the starting date of the job).

Name of the variable reference\_period

Description Year and month

Format Character (yyyymm)

Values

Comments

Source(s)

Name of the variable job\_IDnumber

Description Identification number of the job

Format Character

Values

Comments

Name of the variable individual\_IDnumber

Description Pseudonymised individual identification number

Format Character

Values

Comments

Source(s)

Name of the variable
Description
Pseudonymised employer identification number
Character
Values
Comments
Source(s)

employer\_IDnumber
Pseudonymised employer identification number
Character
Values
If the employer is self-employed or a private person, the value is "Not applicable".

Name of the variable
Description
Format
Values
Comments
Source(s)

temporary\_jobs\_employer\_IDnumber
Pseudonymised employer identification number for temporary jobs
Character
Pseudonymised employer\_identification number for temporary jobs
Character
-10 Firms established abroad
"Not applicable" concerns non temporary jobs.

Name of the variable j\_job\_start\_date

Description Date the job starts

Format Date yyyymm

Values

Comments

Source(s) CCSS



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Name of the variable j\_job\_end\_effective\_date

Description Date the job ends

Format Date yyyymm

Values

Comments Not applicable concerns current jobs.

Source(s) CCSS

Name of the variable j\_contract\_type Description **Format** Character Values 0 Permanent contract 1 Fixed-term contract 2 Temporary contract 3 Apprenticeship contract Summer or student job Comments Not applicable concerns self-employed. Information is unavailable before 2005. Summer or student jobs correspond to jobs for which the person has worked less than two months per year. Otherwise, the job is fixed-term contract or a temporary contract. Source(s) CCSS

Name of the variable Description
Format Date yyyymm

Values

Comments Not applicable concerns permanent contracts and self-employed. This variable refers to the date when the contract is expected to end (as decided at the moment of recruitment).

Source(s) CCSS

Name of the variable	j_contract_planned_duration	
Description	Duration of the contract as planned when hiring	
Format	character	
Values	0 < 2 weeks	
	1 [2 weeks - 1 month[	
	2 [1 - 2 months[	
	3 [2 - 6 months[	
	4 [6 - 12 months[	
	5 [12 - 24 months[	
	6 ≥ 24 months	
Comments	Not applicable concerns permanent contracts and self-employed. This variable refers to the	
	duration fixed at the moment of recruitment.	
	j_contract_planned_duration = j_end_planned_date - j_start_date	
Source(s)	CCSS	

Name of the variable	j_job_status	
Description		
Format	Charac	cter
Values	0	Private sector worker
	1	Civil servant
	2	Self-employed
Comments		
Source(s)	CCSS	



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Name of the variable Description Whether the worker performs manual tasks

Format Character

Values 0 No
1 Yes

Comments This variable is not reliable for self-employed and civil servants. For them, the value is -8.

Source(s) CCSS

Name of the variable posted\_worker

Description Posted worker abroad

Format Character

Values 0 No
1 Yes

Comments "Not applicable" concerns self-employed.

Source(s) CCSS

Name of the variable j\_assisting\_family\_member Description Format Character Values O Nο Comments Person living with the owner of the unit and working regularly for the unit, but do not have a contract of service and do not receive a fixed sum for the work they perform. This is limited to those persons who are not included on the payroll of another unit as their principal occupation. For assisting family members, relevant variables are j\_job\_start\_date, j\_job\_end\_planned\_date and employer\_IDnumber. Source(s) **CCSS** 

Name of the variable j\_activation\_measure Description Whether the worker is registered in an active labour market policy at the public employment service (ADEM) Character **Format** 0 No Values 1 Comments "Not applicable" concerns self-employed. Only activation measures assimilated to jobs are registered in the file. Source(s) **CCSS** 

Name of the variable
Description
Format

Values
Character

Changing values according to new measures

Comments

"Not applicable" concerns self-employed and workers out of activation schemes.

http://www.adem.public.lu/fr/demandeurs-demploi/aides-financieres-mesures/mesures-emploi/index.html

Source(s)

ADEM



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Name of the variable j\_internal\_redeployment

Description Whether the worker is concerned by an internal redeployement (reclassement interne), due

to a loss of working capacity

Format Character

Values 0 No
1 Yes

Comments "Not applicable" concerns self-employed.

Source(s) CCSS

Name of the variable j\_trial\_period

Description Whether the contract has a trial period

Format Character
Values 0 No
1 Yes

Comments "Not applicable" concerns self-employed and workers without trial period. The variable is

available from 2008 on. Before 2008, the value is -8

Source(s) CCSS

Name of the variable j\_trial\_period\_end\_date

Description

Format Date yyyymm

Values

Comments "Not applicable" concerns self-employed and workers without trial period. The variable is

available from 2008 on. Before 2008, the value is -8.

Source(s) CCSS

Name of the variable j\_trial\_period\_length

Description

Format Numeric

Values Number of weeks (rounded to the nearest integer)

Comments "Not applicable" concerns self-employed and workers without trial period. The variable is

available from 2008 on. Before 2008, the value is -8.

j trial period length = j trial period end date - j job start date

Source(s) CCSS

Name of the variable **j\_F\_short\_time\_working** 

Description Whether the worker is concerned by short-time working during the month

Format Character
Values 0 No
1 Yes

Comments "Not applicable" concerns self-employed.

Source(s) CCSS

Name of the variable **j\_short\_time\_working\_benefit** 

Description Monthly amount of short-time working

Format Numeric

Values

Comments "Not applicable" concerns self-employed. Short time working benefit is included in

j\_F\_month\_base\_wage.

Source(s) CCSS



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Name of the variable **j\_short\_time\_working\_hours** 

Description Monthly hours concerned by short-time working

Format Numeric

Values

Comments "Not applicable" concerns self-employed. Short time working hours are included in

j nb base worked hours.

Source(s) CCSS

Name of the variable j\_F\_month\_base\_wage

Description Whether receiving a base wage during the month

Format Character

Values -9 Not applicable

-8 Missing data

1 Yes

Comments "Not applicable" concerns self-employed. This variable is missing before January 2009. Before

this date, corresponding to the introduction of the single status (statut unique), the different

components of the wage were not distinguishable.

Source(s) CCSS

Name of the variable **j\_month\_base\_wage**Description **j\_month\_base\_wage**Monthly gross base wage

Format Numeric

Values

Comments

Source(s) CCSS

Name of the variable j\_F\_month\_additionnal\_wage

Description Whether receiving a additionnal wage during the month

Format Character

Values -9 Not applicable

-8 Missing data

1 Yes

Comments "Not applicable" concerns self-employed. This variable is missing before January 2009. Before

this date, corresponding to the introduction of the single status (statut unique), the different

components of the wage were not distinguishable.

Source(s) CCSS

Name of the variable j\_month\_additionnal\_wage

Description Monthly gross additionnal wage, excluding overtime wage

Format Numeric

Values Comments

Source(s) CCSS

Name of the variable j\_F\_month\_overtime\_wage

Description Whether receiving an overtime wage during the month

Format Character

Values -9 Not applicable

-8 Missing data

1 Yes

Comments "Not applicable" concerns self-employed. This variable is missing before January 2009. Before

this date, corresponding to the introduction of the single status (statut unique), the different

components of the wage were not distinguishable.

Source(s) CCSS



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Name of the variable j\_month\_overtime\_wage

Description Monthly gross overtime wage

Format Numeric

Values

Comments

Source(s) CCSS

Name of the variable j\_F\_month\_total\_wage Description Whether receiving a wage during the month Format Character Values -9 Not applicable -8 Missing data 1 Yes Comments "Not applicable" concerns self-employed. Source(s)

Name of the variable Description Monthly gross total wage
Format Numeric
Values
Comments After 2009, j\_month\_total\_wage = j\_month\_base\_wage + j\_month\_additionnal\_wage + j\_month\_overtime\_wage
Source(s) CCSS

Name of the variable j\_F\_nb\_base\_worked\_hours Description Flag for base worked hours during the month **Format** Character Values -9 Not applicable -8 Missing data Comments "Not applicable" concerns self-employed. This variable is missing before January 2009. Before this date, corresponding to the introduction of the single status (statut unique), the different components of the worked hours were not distinguishable. Only the total number of worked hours was declared (base hours + overtime) Source(s) **CCSS** 

Name of the variable j\_nb\_base\_worked\_hours

Description
Format Numeric

Values

Comments The number of worked base hours is related to the number of working days in the month.

Thus, depending on the month and the number of days off, the number of worked hours can vary from 144 hours to 184 hours.

Source(s) CCSS



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Name of the variable j\_F\_nb\_overtime\_paid\_hours

Description Flag for overtime paid hours during the month

Format Character

Values -9 Not applicable -8 Missing data

1 Yes

Comments This variable is missing before January 2009. Before this date, corresponding to the

introduction of the single status (statut unique), the different components of the worked hours were not distinguishable. Only the total number of worked hours was declared (base hours +

overtime)

Source(s) CCSS

Name of the variable **j\_nb\_overtime\_paid\_hours** 

Description

Format Numeric

Values Comments

Source(s) CCSS

Name of the variable **j\_F\_nb\_total\_worked\_hours** 

Description Flag for total worked hours during the month

Format Character

Values -9 Not applicable -8 Missing data

1 Yes

Comments This variable exists before January 2009.

"Not applicable" concerns self-employed.

Source(s) CCSS

Name of the variable **j\_nb\_total\_worked\_hours** 

Description

Format Numeric

Values

Comments After 2009, j\_nb\_total\_worked\_hours = j\_nb\_base\_worked\_hours +

j\_nb\_overtime\_paid\_hours

As the number of contractual worked hours, the number of total worked hours is related to

the number of working days in the month.

Source(s) CCSS

Name of the variable **j\_F\_nb\_base\_worked\_hours\_ADJ** 

Description Flag for adjusted base worked hours during the month

Format Character

Values -9 Not applicable

-8 Missing data

1 Yes

Comments This variable is missing before January 2009.

"Not applicable" concerns self-employed.

Source(s) CCSS



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Name of the variable j\_nb\_base\_worked\_hours\_ADJ

Description Adjusted number of base worked hours

Format Numeric

Values

Comments Since j nb base worked hours refers to the effective time spent working, this variable is

dependent on the number of working days in the month. Then, it is IMPOSSIBLE to calculate a correct hourly base wage using this variable. Indeed, the hourly wage of a worker receiving the same monthly wage would change, leading one to consider significant fluctuations in wages while they are purely artificial. This is why we have calculated adjusted base worked

hours, ADJUSTED for calendar effects.

Source(s) CCSS

Name of the variable j\_F\_nb\_total\_worked\_hours\_ADJ

Description Flag for adjusted total worked hours during the month

Format Character

Values -9 Not applicable

-8 Missing data

1 Yes

Comments This variable is missing before January 2009.

"Not applicable" concerns self-employed.

Source(s) CCSS

Name of the variable j\_nb\_total\_worked\_hours\_ADJ

Description Adjusted number of total worked hours

Format Numeric

Values

Comments j nb total worked hours ADJ = j nb base worked hours ADJ + j nb overtime paid hours

Source(s) CCSS

LCSS

Name of the variable  $j_F_hourly_base_wage$ 

Description Flag for hourly base wage during the month

Format Character

Values -9 Not applicable

-8 Missing data

1 Yes

Comments This variable is missing before January 2009.

"Not applicable" concerns self-employed.

Source(s) CCSS

Name of the variable **j\_hourly\_base\_wage** 

Description

Format Numeric

Values

Comments j\_hourly\_base\_wage = j\_month\_base\_wage/j\_nb\_base\_worked\_hours ADJUSTED

For jobs with a duration of 12 months or less, the monthly hourly wage adjusted for the calendar effect is not provided. For these jobs, the researcher can compute by himself an

average hourly wage over the entire occupation.

Source(s) CCSS



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Name of the variable	j_F_hourly_total_wage	
Description	Flag fo	or hourly total wage during the month
Format	Chara	cter
Values	-9	Not applicable
	-8	Missing data
	1	Yes
Comments	"Not a	applicable" concerns self-employed.
Source(s)	CCSS	

Name of the variable Description	j_hourly_total_wage
Format Values	Numeric
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
Comments	j_hourly_total_wage = \( \) (j_month_base_wage + j_month_additionnal_wage + j_month_overtime_wage) / j_nb_total_worked_hours ADJUSTED
	For jobs with a duration of 12 months or less, the monthly hourly wage adjusted for the calendar effect is not provided. For these jobs, the researcher can compute by himself an
	average hourly wage over the entire occupation.
Source(s)	CCSS

Name of the variable	j_F_official_stat	
Description	Whether the job is included in monthly official employment statistics	
Format	Character	
Values	0 No	
	1 Yes	
Comments	This flag has to be used to select jobs retained for calculation of monthly official employment statistics published by IGSS.	
	These monthly statistics refer to the number of persons working the last working day of the month. Consequently, official statistics exclude jobs that end before the last working day and secondary jobs. That means that in case of multiple jobs, we keep only one job per worker (the main one).	
Source(s)	CCSS	



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#### 2.2 Characteristics of employers

## All variables concerning employers are related to a reference period (year and month). All of them can change from month to month.

Name of the variable reference\_period Description Year and month Format Character (yyyymm) Values Comments Source(s)

Name of the variable employer\_IDnumber Description Pseudonymised employer identification number **Format** Character Values Comments Employers can change their registration number from one period to another just because they change their status. CCSS Source(s)

Name of the variable e\_activity\_sector Description Activity sector according to the NACE Rev.2 classification Format Character Nace 2 digits See Values https://environnement.public.lu/content/dam/environnement/documents/offall a ressourc en/codes-d%C3%A9chets/code-nace-rev2.pdf Comments Source(s) CCSS/STATEC

Name of the variable e\_legal\_status Description **Format** Character **Values** O Private 1 **Public** Other The value "other" includes associations, NGOs, etc. Comments Source(s)

Name of the variable e\_size\_employer Description Number of workers working for the employer **Format** Character Values 0 1 worker 1 2-4 workers 2 5-24 workers 3 25-49 workers 4 50-149 workers 5 150-499 workers 500 workers and more Comments The number of workers is calculated at the end of the month. Temporary workers are excluded. People in parental leave full time are excluded as well. By using the "jobs characteristics" register, it is possible to compute many indicators about the composition of the workforce of the employer. To that end, select the existing jobs at the end of the month (variable j\_flag\_jobs\_official\_stat = 'yes') and aggregate by employer and by the variables you want to split the workforce by. **CCSS** Source(s)



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#### 2.3 Work absences

Name of the variable	individual_IDnumber
Description	Pseudonymised individual identification number
Format	Character
Values	
Comments	
Source(s)	

Name of the variable job\_IDnumber

Description Pseudonymised job identification number

Format Character

Values

Comments

Source(s) CCSS

Name of the variable a\_absence\_type Description **Format** Character Values 0 Maternity/special leave for adopted child 1 2 Work exemption for pregnant women 3 Injury 4 Family reasons leave Palliative care leave (congé d'accompagnement) Comments Absences concern only workers from private scheme. Source(s) CCSS

Name of the variable Description
Format Date yyyymmdd

Values
Comments Absences concern only workers from private scheme.
Source(s) CCSS

Name of the variable Description
Format Date yyyymmdd

Values Comments Absences concern only workers from private scheme.

Source(s) CCSS

Name of the variable Description Length of absence taking into account calendar days
Format Numeric

Values Comments Absences concern only workers from private scheme.

Source(s) CCSS



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Name of the variable a\_diagnosis

Description

**Format** Character

See nomenclature ICD-10 Values

http://apps.who.int/classifications/icd10/browse/Content/statichtml/ICD10Volume2 en 20

Comments Absences concern only workers from private scheme.

Diagnosis are only available for resident persons.

The ICD-10 classification is derived from a national classification.

Source(s) CCSS

## 2.4 Redeployments

Name of the variable r\_date\_decision

Description

Format Date yyyymm

Values





Comments

**CCSS** Source(s)

Name of the variable Individual IDnumber

Description Pseudonymised individual identification number

Format Character Values

Comments Source(s)

Name of the variable employer\_IDnumber

Description Pseudonymised employer identification number

**Format** Character

Values

Comments Employers can change their registration number from one period to another just because they

change their status.

CCSS Source(s)

Name of the variable r\_redeployment\_type

Description Whether the worker is concerned by an internal or external redeployement (reclassement

interne ou externe), due to a loss of working capacity

Character **Format** 

0 External

Values 1 Internal

"Not applicable" concerns self-employed. Comments

Source(s)



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and Social
Protection

## 3. Social benefits data

## All variables concerning social benefits are related to a reference period (year and month).

Name of the variable reference\_period

Description Year and month

Format Character (yyyymm)

Values

Comments

Source(s)

Name of the variable Description Pseudonymised individual identification number

Format Character

Values

Comments

Source(s)

## 3.1 Family benefits

Name of the variable	i_F_family_allowance_right	
Description	Whether the individual has children entitled for family allowances (allocations familiales)	
Format	Character	
Values	0 No	
	1 Yes	
Comments	Family allowances are a right of the child and not of the parent. Therefore, the variable is 'yes'	
	for both parents if appropriate.	
	For a part of the crossborder workers, the information is not available at the individual level.	
	Consequently, this variable is not provided for the crossborders workers.	
	Since October 2010, family allowances eligibility conditions have changed after the	
	introduction of the law concerning the State scholarships and loans to students grant system.	
Source(s)	CAE	

Name of the variable	i_family_allowance
Description	Monthly amount of the family allowances (allocations familiales)
Format	Numeric
Values	
Comments	Family allowances are a right of the child and not of the parent. So, it is not an individualised income which is impossible to calculate according to the ignorance of the income sharing rules between parents (the latest may be living in couple or be separated). Therefore, considering the whole amount for estimating the financial situation of the individual results of an overestimation of the latest.  For a part of the crossborder workers, the information is not available at the individual level. Consequently and to keep coherence of data, this variable is not provided for the crossborders workers.  Since October 2010, family allowances eligibility conditions have changed after the
Source(s)	introduction of the law concerning the State scholarships and loans to students grant system.  CAE



Luxembourg Microdata Platform on Labour and Social Protection

Name of the variable i\_F\_school\_allowance\_right

Description Whether the individual has children entitled to the new school year allowance (allocation de

rentrée scolaire)

Format Character Values 0 No Yes 1

Comments The school year allowance is a right of the child and not of the parent. Therefore, the variable

is 'yes' for both parents if appropriate.

For a part of the crossborder workers, the information is not available at the individual level. Consequently and to keep coherence of data, this variable is not provided for the crossborders

workers.

Since October 2010, the school year allowance eligibility conditions have changed substantially after the introduction of the law concerning the State scholarships and loans to students grant

Data on the school year allowance are not available before 2003.

Source(s) CAE

Name of the variable i school allowance

Description Monthly amount of the school year allowance (allocation de rentrée scolaire) Numeric

Format Values

Comments The school year allowance is a right of the child and not of the parent. So, it is not an

individualised income which is impossible to calculate according to the ignorance of the income sharing rules between parents (the latest may be living in couple or be separated). Therefore, considering the whole amount for estimating the financial situation of the

individual results of an overestimation of the latest.

For a part of the crossborder workers, the information is not available at the individual level. Consequently and to keep coherence of data, this variable is not provided for the crossborders

workers.

Since October 2010, the school year allowance eligibility conditions have changed substantially after the introduction of the law concerning the State scholarships and loans to students grant

Nο

Data on the school year allowance are not available before 2003.

Source(s)

Name of the variable i\_F\_birth\_allowance

Description Whether receiving the birth allowance (allocation de naissance)

**Format** 

Character

n Values

Yes Comments The birth allowance which is paid in three instalments (prenatal, natal, postnatal) during a

three years period is made conditional to different medical examinations the mother and the child must have undergone at different moment of the pregnancy or during the early years of

the child's life. For recent beneficiaries, all instalments may not have been paid.

The absence of the birth allowance for an eligible mother that should benefit it could therefore indicate a certain type of behaviour. That is why, by default, the variable is not provided.

Source(s) CAE



Luxembourg Microdata Platform on Labour and Social Protection

Name of the variable i\_type\_birth\_allowance Description Rank of the instalment **Format** Character prenatal 0 Values 1 natal 2 postnatal Comments The birth allowance is paid in three instalments (prenatal, natal, postnatal) during a three years period. Eligibility is made conditional to different medical examinations for mothers and children. For recent beneficiaries, all instalments may not have been paid. The absence of the birth allowance for an eligible mother could therefore indicate a certain type of behaviour. That is why, by default, the variable is not provided. Source(s) CAE

Name of the variable
Description
Format

Values

Comments

The birth allowance is paid in three instalments (prenatal, natal, postnatal) during a three years period. Eligibility is made conditional to different medical examinations for mothers and children. For recent beneficiaries, all instalments may not have been paid.
The absence of the birth allowance for an eligible mother could therefore indicate a certain type of behaviour. That is why, by default, the variable is not provided.

Source(s)

Libirth\_allowance
Monthly amount of the birth allowance (allocation de naissance)
Numeric

The birth allowance is paid in three instalments (prenatal, natal, postnatal) during a three years period. Eligibility is made conditional to different medical examinations for mothers and children. For recent beneficiaries, all instalments may not have been paid.

The absence of the birth allowance for an eligible mother could therefore indicate a certain type of behaviour. That is why, by default, the variable is not provided.

Name of the variable Description Whether receiving the maternity allowance (allocation de maternité)

Format Character

Values 0 No
1 Yes

Comments This allowance has been abolished since the 1st June 2015.

Source(s) CAE

Name of the variable i\_maternity\_allowance

Description Monthly amount of the maternity allowance (allocation de maternité)

Format Numeric

Values

Comments This allowance has been abolished since the 1st June 2015.

Source(s) CAE

Name of the variable i\_F\_childrear\_allowance Description Whether receiving child rearing allowance (allocation d'éducation) Format Character Values No Yes Comments This allowance has been abolished since the 1st June 2015 but persons receiving this allowance the 31 May 2015 continue to benefit from this allowance until the end of the entitlement of For a part of the crossborder workers, the information is not available at the individual level. Consequently and to keep coherence of data, this variable is not provided for none of the crossborders workers. Source(s) CAE



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Protection

Name of the variable i\_childrear\_allowance

Description Monthly amount of the child rearing allowance (allocation d'éducation)

Format Numeric

Values

Comments This allowance is abolished since the 1st June 2015 but persons receiving this allowance the

31 May 2015 continue to benefit from this allowance until the end of the entitlement of the

allowance.

For a part of the crossborder workers, the information is not available at the individual level.

Consequently and to keep coherence of data, this variable is not provided for none of the

crossborders workers.

Source(s) CAE

Name of the variable i\_F\_child\_bonus\_right

Description Whether the individual has children entitled to the child bonus (boni pour enfant)

Format Character
Values 0 No
1 Yes

Comments The child bonus is a tax reduction (introduced in 2008) but can be compared to a family

benefit. It is linked to the child and not to the parent. Therefore, the variable is 'yes' for both

parents if appropriate.

For a part of the crossborder workers, the information is not available at the individual level.

Consequently, the variable is not privided for crossborders workers.

Since October 2010, child bonus eligibility conditions have changed substantially after the introduction of the law concerning the State scholarships and loans to students grant system.

Since August 2016, the child bonus is merged with the family allowances (allocations

familiales).

Source(s) CAE

Name of the variable i child bonus

Description Monthly amount of the child bonus (boni pour enfant)

Format Numeric

Values

Comments The child bonus is a tax reduction (introduced in 2008) but can be compared to a family

benefit. It is linked to the child and not to the parent. So, it is not an individualised income which is impossible to calculate according to the ignorance of the income sharing rules between parents (the latest may be living in couple or be separated). Therefore, considering the whole amount for estimating the financial situation of the individual results of an

overestimation of the latest.

For a part of the crossborder workers, the information is not available at the individual level.

Consequently, this variable is not provided for none of the crossborders workers.

Since October 2010, child bonus eligibility conditions have changed substantially after the introduction of the law concerning the State scholarships and loans to students grant system. Since August 2016, the child bonus is merged with the family allowances (allocations

familiales).

Source(s) CAE



Luxembourg Microdata Platform on Labour and Social Protection

#### 3.2 Replacement benefits

Name of the variable

Description

Format

Values

Comments

Source(s)

I\_F\_parental\_leave

Whether the individual is on parental leave (congé parental)

Character

Whether the individual is on parental leave (congé parental)

Character

Yes

Congé parental

Congé paren

Name of the variable i\_parental\_leave\_start\_date

Description

Format Date yyyymm

Values Comments

Source(s) CCSS

Name of the variable **i\_parental\_leave\_end\_date** 

Description

Format Date yyyymm

Values Comments

Source(s) CCSS

Name of the variable i\_parental\_leave\_type

Description
Format Character

Values 0 Full time

1 Part time

Split parental leave (4 months over 20 months max)Split parental leave (1 day/week during 20 months)

Comments Workers on full time parental leave or on split leave (4 months over 20 months max) are not

considered as employees. Therefore they are not present in the employment register during the parental leave. In contrast, workers on part-time parental leave or on split parental leave (1 day/week during 20 months) are in work simultaneously to the parental leave.

The parental leave was reformed the 1st December 2016. This reform introduced the split

parental leave.

Source(s) CCSS

Name of the variable i\_parental\_leave\_rank

Description

Format Character Values PL1 PL2

Comments The parent can request:

- either the "first parental leave" (PL1), which must be taken immediately after the maternity

or adoption leave;

- or the "second parental leave", which must be taken before the child's 6th birthday (the 12th

birthday for adopted children).

Source(s) CAE



Source(s)

Inspection générale de la sécurité sociale

CCSS

Luxembourg Microdata Platform on Labour and Social Protection

Name of the variable

Description

Individual IDnumber of the child reared during the parental leave

Character

Values

Comments

Prior to parental leave reform of the 1st December 2016, the ID of the child reared during the parental leave was unknown. For these reason the value is -8.

Name of the variable Description Gross monthly amount of the parental leave benefit (congé parental)

Format Numeric

Values

Comments

Source(s) CCSS

Name of the variable Description Whether receiving unemployment benefits (indemnité de chômage)

Format Character

Values 0 No
1 Yes

Comments Included individuals receiving unemployment benefits because of an external redeployment (reclassement externe)

Source(s) CCSS

Name of the variable Description Whether receiving unemployment benefits because of an external redeployment (reclassement externe)

Format Character

Values 0 No
1 Yes

Comments

Source(s) CCSS

Name of the variable i\_unemployment\_benefit

Description Gross monthly amount of unemployment benefit (indemnité de chômage)

Numeric

Values

Comments

Source(s) CCSS

Name of the variable i\_F\_tideover\_benefit Description Wether receiving tideover benefit (indemnité d'attente or indemnité professionnelle d'attente) **Format** Character Values 0 No Comments Workers in external redeployment receive this benefit when the unemployment benefit ends. The calculation of this benefit changed with the 2015 law on the professional redeployment. Before the law, this benefit was called "indemnité d'attente". After the law, it is called indemnité professionnelle d'attente. ADEM/CNAP Source(s)



Luxembourg Microdata Platform on Labour and Social Protection

Name of the variable	i_type_tideover_benefit	
Description	Type of tideover benefit	
Format	Character	
Values	0 Indemnité d'attente	
	1 Indemnité professionnelle d'attente	
Comments	Workers in external redeployment receive this benefit when the unemployment benefit ends.	
Source(s)	ADEM/CNAP	

Name of the variable	i_tideover_benefit
Description	Gross monthly amount of tideover benefit (indemnité d'attente or indemnité professionnelle d'attente)
Format	Numeric
Values	
Comments	Workers in external redeployment receive this benefit when the unemployment benefit ends.
	The calculation of this benefit changed with the 2015 law on the professional redeployment.
Source(s)	ADEM/CNAP

Name of the variable	i_F_early_retirement	
Description	Whether receiving early retirement (préretaite)	
Format	Character	
Values	0 No	
	1 Yes	
Comments	Admission to early retirement concerns in principle only employees of the private sector, except for civil servants concerned by shift work and night work.	
Source(s)	CCSS	

Name of the variable	i_early_retirement
Description	Gross monthly amount of early retirement (préretaite)
Format	Numeric
Values	
Comments	Admission to early retirement concerns in principle only employees of the private sector, except for civil servants concerned by shift work and night work.
Source(s)	CCSS

Name of the variable	i_F_invalid_pension		
Description	Whether receiving an invalidity pension (pension d'invalidité)		
Format	Character		
Values	0	No	
	1	Yes	
Comments	The pension is paid by the general or the public scheme. From the entitlement to old-age pension (at the age of 65 years), invalidity pension is replaced by old-age pension.		
Source(s)	CNAP	/ public schemes	

Name of the variable	i_invalid_pension
Description	Gross monthly amount of the invalidity pension (pension d'invalidité)
Format	Numeric
Values	
Comments	The pension is paid by the general or the public scheme. From the entitlement to old-age pension (at the age of 65 years), invalidity pension is replaced by old-age pension
Source(s)	CNAP/ public schemes



Luxembourg Microdata Platform on Labour and Social Protection

i\_F\_oldage\_pension Name of the variable

Description Whether receiving an old-age pension (pension de vieillesse)

**Format** Character Values No 1 Yes

Comments Including old-age anticipated pension and invalidity pension replaced by old-age pension at

the age of 65 years.

The pension is paid by the general or the public scheme.

Source(s) CNAP/ public schemes

Name of the variable i\_oldage\_pension

Description Gross monthly amount of the old-age pension (pension de vieillesse)

Format

Values

Comments Including old-age anticipated pension and invalidity pension replaced by old-age pension at

the age of 65 years.

The pension is paid by the general or the public scheme.

Source(s) CNAP/ public schemes

Name of the variable i\_F\_survivor\_pension

Description Whether receiving a survivor pension (pension de survie)

**Format** Character No 0 Values 1 Yes

Comments The pension is paid by the general or the public scheme.

Source(s) CNAP/ public schemes

Name of the variable i survivor pension

Description Gross monthly amount of the survivor pension (pension de survie)

**Format** Numeric

Values

Comments The pension is paid by the general or the public scheme.

CNAP/ public schemes Source(s)

Name of the variable i\_F\_orphan\_pension

Description Whether receiving an orphan pension (pension d'orphelin)

**Format** Character 0 No Values 1 Yes

Comments Source(s) CNAP/ public schemes

Name of the variable i orphan pension

Description Gross monthly amount of the orphan pension (pension d'orphelin)

**Format** Numeric

Values

Comments

Source(s) CNAP/ public schemes



Luxembourg Microdata Platform on Labour and Social Protection

Name of the variable
Description
Whether receiving fixed allowance for child-rearing (forfait d'éducation=Mammerent)

Format
Values
O
No
1
Yes

Comments
The allowance is paid by the general or the public scheme or by the FNS.

CNAP/ public schemes/ FNS

Name of the variable
Description
Format

Comments
Source(s)

i\_child\_rearing\_fixed\_allow
Gross monthly amount of fixed allowance for child-rearing (forfait d'éducation=Mammerent)
Numeric

The allowance is paid by the general or the public scheme or by the FNS.

CNAP/ public schemes / FNS

#### 3.3 Social assistance benefits

Name of the variable i\_F\_min\_income Description Whether the person belongs to a domestic community receiving the guaranteed minimum income supplementary allowance (allocation complémentaire au titre du revenu minimum garanti – RMG ou du revenu d'inclusion sociale - REVIS) **Format** Character 0 No Values 1 Yes and the person is beneficiary Yes and the person is non-beneficiary Comments The supplementary allowance is fixed according to the composition and the incomes of the domestic community. Persons of the domestic community that could not fulfil the eligibility conditions for being beneficiary of the guaranteed minimum income supplementary allowance is a non-beneficiary. Source(s)

Name of the variable	i_min_income
Description	Gross monthly amount of the guaranteed minimum income supplementary allowance (allocation complémentaire au titre du RMG ou du REVIS) paid to the domestic community
Format	Numeric
Values 👸 🚳	
Comments	If several members composed the domestic community, the amount of the guaranteed minimum income supplementary allowance indicated for each is the same and corresponds to the total amount paid to the domestic community. So, it is not an individualised income which is impossible to calculate according to the ignorance of the sharing rules within the domestic community and of the financial situation of their members. Therefore, considering the whole amount for estimating the financial situation of the person results of an overestimation of the latest.
Source(s)	FNS



Luxembourg Microdata Platform on Labour and Social Protection

i\_F\_lifecost\_allowance Name of the variable

Description Whether the person belongs to a domestic community receiving the cost-of-living allowance

(allocation de vie chère)

**Format** Character

0 No Values 1 Yes

Comments Before 2012, only the person of the domestic community to whom the cost-of-living is paid is known. Before this date, the information concerning the other members of the domestic

community is not available.

Before 2009, the cost-of-living allowance was named heating allowance (allocation de

chauffage).

Source(s) **FNS** 

Name of the variable i lifecost allowance

Description Gross monthly amount of the cost-of-living allowance (allocation de vie chère) paid to the

domestic community

**Format** Numeric

Values

Values

Values

Comments If several members compose the domestic community, the amount of cost-of-living allowance

> indicated for each is the same and corresponds to the total amount paid to the domestic community. So, it is not an individualised income which is impossible to calculate according to the ignorance of the sharing rules within the domestic community and of the financial situation of their members. Therefore, considering the whole amount for estimating the financial

situation of the person results of an overestimation of the latest.

Source(s) **FNS** 

Name of the variable i\_nb\_ind\_lifecost

Description Size of the domestic community receiving the cost-of-living allowance (allocation de vie chère) **Format** Numeric

Comments This variable is provided in view of an individualisation of the cost-of-living allowance.

nb\_ind\_alloc\_vie\_chere = nb\_adul\_alloc\_vie\_chere + nb\_enf\_alloc\_vie\_chere

Source(s) **FNS** 

Name of the variable i\_nb\_adults\_lifecost

Description Number of adults (14 years old and more) in the domestic community receiving the cost-of-

living allowance (allocation de vie chère)

**Format** Numeric

Values

Comments This variable is provided in view of an individualisation of the cost-of-living allowance

Source(s) **FNS** 

Name of the variable i nb children lifecost

Description Number of children (less than 14 years old) in the domestic community receiving the cost-of-

living allowance (allocation de vie chère)

**Format** Numeric

Comments This variable is provided in view of an individualisation of the cost-of-living allowance

Source(s)



Luxembourg Microdata Platform on Labour and Social Protection

Name of the variable i\_F\_disable\_allowance Description Whether receiving the income for seriously disabled persons (revenu pour personnes

gravement handicapées) and/or the specific allowance for seriously disabled persons

(allocation spéciale pour personnes gravement handicapées)

Format Character

0 No Values Yes 1

Comments

Source(s) **FNS** 

Name of the variable i\_disable\_allowance

Gross monthly amount of the income for seriously disabled persons (revenu pour personnes Description gravement handicapées) and/or the specific allowance for seriously disabled persons

(allocation spéciale pour personnes gravement handicapées)

**Format** Numeric

Values

Comments Source(s)

**FNS** 



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#### 4. Health data

#### 4.1 Medical acts

#### All variables concerning medical acts are related to a reference period (year and month).

Name of the variable reference\_period

Description Reference period of the execution of the act

Format Date (yyyymm)

Values

Comments More detailed date information is available on demand according to the "Need to know" rule.

Source(s)

Name of the variable individual\_IDnumber

Description Pseudonymised individual identification number

Format Character

Values Comments Source(s)

Name of the variable act IDnumber

Description Act identification number

Format Character

Values

Comments This identification number links the act with its auxiliary services which are performed for an

individual on the same day, such as anaesthesia, operating assistance or rental of medical equipment or material. A person may have several principal services on a same day. Auxiliary

services are in the register "Auxiliary services related to medical acts"

Source(s)

Name of the variable act\_code

Description Type of the medical act

Format Character

Values See Nomenclature des actes et services des médecins et médecins-dentistes <u>Livre bleu CNS</u>

Comments Data only rely to medical acts performed by doctors and dentists. Those performed by other

healthcare providers than doctors and dentists (e.g. nurses, physiotherapists etc.) are not

included.

Data only rely to medical acts covered by social security and which take place in Luxembourg, for residents and non-residents directly related to the Luxembourgish social protection

system.

The Nomenclature des actes et services des médecins et médecins-dentistes was designed to define the fees for acts. As a result, it can include codes that do not necessarily relate to medical procedures. For example, codes ending with "X" or "M" are replaced by a

corresponding auxiliary service of type "Rental equipment or material".

Source(s) CNS

Name of the variable act\_F\_medical\_imaging\_equipment

Description Whether the medical act requires a medical imaging equipment

Format Character
Values 0 No
1 Yes

Comments The variable is "Yes" if act requires a medical imaging equipment.

Source(s) CNS



Luxembourg Microdata Platform on Labour and Social Protection

Name of the variable	act_medical_imaging_equipment		
Description	Type of medical imaging equipment required		
Format	Character		
Values	00	Conventional digital radiography	
	01	Angiography	
	02	Various examinations including image intensifier	
	03	Mammography	
	04	Bone densitometry	
	05	Computed tomography (CT), scanography, tomography	
	06	Sonogram/ Ultrasound scan	
	07	Doppler echography of vessels	
	80	Magnetic Resonance Imaging (MRI)	
	09	Scintigraphy	
	10	PET CT, PET-scan	
	11	Colofibroscopy	
Comments			
Source(s)	CNS		

Name of the variable	act_F_auxiliary_services	
Description	Whether auxiliary services exist for the medical act	
Format	Character	
Values	0 No	
	1 Yes	
Comments	Medical acts by doctors and dentists may need auxiliary services. Auxiliary services can be an anaesthesia, an operating assistance or rental of medical equipment or material. They are considered as auxiliary services if they are performed on the same day than the principal medical act. If any, they are recorded in the register "Auxiliary services related to medical	
Source(s)	acts". These auxiliary services are linked with the medical act using the variable act_IDnumber.  CNS	

Name of the variable	act coefficient
ivallie of the variable	act_coefficient
Description	Composite indicator of the complexity, the time and the medical specialty required for the execution of the act
Format	Numeric
Values	
Comments	This coefficient can be used instead of costs to exclude inflation or other kinds of price increases of a given medical service.
Source(s)	CNS

Name of the variable	act_F_accident		
Description	Whet	Whether the act is linked to work place accidents, commuting accidents or occupational	
	illnes	ses	
Format	Character		
Values	0	No	
	1	Yes	
Comments			
Source(s)	CNS		



Luxembourg Microdata Platform on Labour and Social Protection

Name of the variable	act_in_hospital		
Description	Whetl	Whether the act is carried out in a hospital setting	
Format	Character		
Values	0	No	
	1	Yes - Inpatient case (at least one night in hospital)	
	2	Yes - Day case (entry and exit on same day)	
	3	Yes - Outpatient case (ambulatory treatment)	
Comments			
Source(s)	CNS		

Name of the variable	hosp_stay_treat_IDnumber
Description	Pseudonymised identification number of stay or treatment in hospital
Format	Character
Values	
Comments	Not applicable (-9) when act_in_hospital = 0
Source(s)	

Name of the variable	executioner_IDnumber			
Description	Pseudonymised identification number of the executing healthcare provider			
Format	Character			
Values 👶 👶				
Comments	To get information about the executioner, executioner_IDnumber can be linked to provider IDnumber in register "Healthcare providers".			
Source(s)	· -			

Name of the variable	executioner_specialty				
Description	Medical specialty of the executioner				
Format	Character				
Values	A0	General practitioner			
	A7	Emergency medicine			
	В0	Anaesthesiology			
	C0	Clinical biology			
	C1	Pathological anatomy			
	C2	Biological chemistry			
	C3	Biological haematology			
	C4	Microbiology-bacteriology			
	C5	Forensic medicine			
	C6	Neuro-pathology			
	D0	Cardiology			
	EO	General surgery			
	E1	Thoracic surgery			
	E2	Plastic surgery			
	E3	Vessel surgery			
	E4	Pediatric surgery			
	E5	Maxillo-facial surgery			
	E6	Dental, oral and maxilla-facial surgery			
	E7	Gastrointestinal surgery			
	F0	Dermato-venerology			
	F1	Dermatology			
	F3	Allergology			
	G0	Radiodiagnosis			
	G1	Nuclear medicine			
	G2	Radiotherapy			
	H0	Endocrinology			
	10	Gastroenterology			
	JO	Gynaecology-obstetrics			
	K0	General haematology			
	LO	Internal medicine			
	L1	Nephrology			
	L3	Contagious diseases			
	L4	Medical oncology			
	L5	Genetic medicine			
	M0	Neurosurgery			
	MT	Occupational medicine			
	N0	Neuropsychiatry			
	00	Neurology			
	P0	Psychiatry			
	P1	Child psychiatry			
	Q0	Physical medicine and rehabilitation			
	R0	Ophthalmology			
	S0	Orthopaedics			
	S1	Traumatology and emergency medicine			
	SP	Public health and social medicine			
	T0	Oto-rhino-laryngology			
	U0	Paediatrics			
	V0	Pneumonology			
	W0	Rheumatology			
	X0	Urology			



	ZO Dentist
	Z1 Stomatology
	Z2 Orthodontics
	Z3 Oral surgery
Comments	-8 if missing
	Based on Grand-ducal Regulation (Règlement grand-ducal du 10 juillet 2011 fixant la liste des spécialités en médecine et médecine dentaire reconnues au Luxembourg)
Source(s)	CNS

Name of the variable	act_cost
Description	
Format	Numeric
Values	
Comments	In some cases, the cost might be different to the amount indicated in the <i>Nomenclature des actes et services des médecins et médecins-dentistes</i> (e.g. first class in hospitals, personal convenience fees etc.).
Source(s)	CNS

Name of the variable	act_cost_paid_SS
Description	Part of the act cost covered by the Social Security
Format	Numeric
Values	
Comments	
Source(s)	CNS

Name of the variable	act_nb_invoices
Description	Number of invoiced services linked to the act_cost
Format	Numeric
Values	
Comments	Number of times the same act has been repeated on the same patient, on the same date and performed by the same practitioner. (Ex: Multiple tooth extractions during a visit to the dentist)
Source(s)	CNS

Name of the variable	act_total_cost
Description	Cost of the medical act and auxiliary services if any
Format	Numeric
Values	
Comments	Medical acts by doctors and dentists may need auxiliary services. Auxiliary services can be an anaesthesia, an operating assistance or rental of medical equipment or material. They are considered as auxiliary services if they are performed on the same day than the principal medical act. If any, their cost are added to act_cost. Auxiliary services are in the register "Auxiliary services related to medical acts".
Source(s)	CNS

Name of the variable	act_total_cost_paid_SS
Description	Part of the total cost (act_total_cost) covered by the Social Security
Format	Numeric
Values	
Comments	Auxiliary services are in the register "Auxiliary services related to medical acts"
Source(s)	CNS



Source(s)

Inspection générale de la sécurité sociale

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#### 4.2 Auxiliary services related to medical acts

## All variables concerning auxiliary services are related to a reference period (year and month).

Auxiliary services, if any, are always linked to a principal medical act recorded in the register "Medical acts". Auxiliary services can be an anaesthesia, an operating assistance or rental of medical equipment or material. They are considered as auxiliary services if they are performed on the same day than the principal medical act.

Name of the variable reference\_period

Description Reference period of the execution of the auxiliary service

Format Date (yyyymm)

Values

Comments More detailed date information is available on demand according to the "Need to know" rule.

Source(s)

Name of the variable individual\_IDnumber

Description Pseudonymised individual identification number

Format Character

Values

Comments

Source(s)

Name of the variable act\_IDnumber

Description Act identification number

Format Character

Values

Comments This act\_ID number links the auxiliary service with the principle act reported in the register "Medical acts".

Name of the variable auxiliary\_service\_type Description Type of the auxiliary service Format Character Values Anaesthesia 0 1 Surgical assistance 2 Rental equipment or material Comments Source(s) CNS

Name of the variable
Description
Format

Values

Comments

To get information about the executioner, executioner\_IDnumber can be linked to provider\_IDnumber in register "Healthcare providers".



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Name of the variable **auxiliary\_service\_cost** 

Description

Format Numeric

Values

Comments The cost might be different to the amount indicated in the *Nomenclature des actes et services* 

des médecins et médecins-dentistes (e.g. first class in hospitals, personal convenience fees

etc.).

Source(s) CNS

Name of the variable auxiliary\_service cost\_paid\_SS

Description Part of the cost covered by the Social Security

Format Numeric

Values Comments

Source(s) CNS

Name of the variable auxiliary\_service\_nb\_invoices

Description Number of invoiced auxiliary services

Format Numeric

Values

Comments Number of times the same act has been repeated on the same patient, on the same date and

perform by the same practitioner. (Ex: Multiple tooth extractions during a visit to the dentist)

Source(s) CNS



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#### 4.3 Stays and treatments in hospital

Name of the variable **hosp\_start\_date** 

Description Start date of stay or treatment in hospital

Format Date (yyyymm)

Values

Comments More detailed date information is available on demand according to the "Need to know" rule.

Source(s) CNS

Name of the variable hosp\_end\_date

Description End date of stay or treatment in hospital

Format Date (yyyymm)

Values

Comments More detailed date information is available on demand according to the "Need to know" rule.

Source(s) CNS

Name of the variable individual IDnumber

Description Pseudonymised individual identification number

Format Character

Values Comments Source(s)

Name of the variable hosp\_stay\_treat\_IDnumber

Description Pseudonymised identification number of the stay or treatment in hospital

Format Character

Values

Comments hosp\_stay\_treat\_IDnumber allows to linked the stay or treatment in hospital with medical acts

carried out during the stay or treatment in hospital (registered in "Medical acts") and with

"Hospital activities" register.

The information of stays or treatments in hospital results from the merge between the data of hospitalization declarations sent to CNS by hospitals on a monthly basis and the hospital documentation data ("Documentation et Classification des séjours hospitaliers-DCSH"), which has been operational since 2016 (first dataset refers to 2018). Thus, variables coming from DCSH are only provided from 2018 onwards, while CNS hospital declarations go back until

2012.

Source(s)

Name of the variable hospital IDnumber

Description Pseudonymised identification number of the establishment in which the stay or treatment

took place

Format Character

Values Comments

 $To \ get \ information \ about \ the \ hospital\_ID number \ can \ be \ linked \ to \ provider\_ID number$ 

in register "Healthcare providers".

Source(s)



Name of the variable		hosp_length_in_days			
Description		Lengt	Length in days of the stay or treatment in hospital		
Format		Chara	Character		
Values		0	2 days		
values		1	3-4 days		
		2	5-6 days		
			7-10 days		
			11 days and more		
Comments		hosp_length_in_days = hosp_end_date - hosp_start_date + 1			
		-9 if hosp_stay_treatment_type ≠ 1			
Source(s)		CNS	CNS		

Name of the variable	hosp_length_in_nights		
Description	Length in nights of the stay or treatment in hospital		
Format	Character		
Values 👸	0 1 nights		
Values 🚳	1 2-3 nights		
	2 4-5 nights		
	3 6-9 nights		
	4 10 nights and more		
Comments	hosp_length_in_nigths = hosp_end_date - hosp_start_date		
	-9 if hosp_stay_treatment_type ≠ 1		
Source(s)	CNS		

Name of the variable	hosp_stay_treatment_type				
Description	Type o	Type of the stay or treatment in hospital			
Format	Chara	Character			
Values	1	Inpatient case (at least one night in hospital)			
	2	Day case (entry and exit on same day)			
	3	Outpatient case (ambulatory treatment)			
Comments					
Source(s)	CNS				

Name of the variable	hosp_exit_type				
Description	Type	Type of patient discharge			
Format	Chara	Character			
Values	0	Hospital discharge			
	1	Transfer to another hospital			
	2	Death			
	3	Other			
Comments					
Source(s)	CNS	NS			



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Name of the variable **grouping\_stay\_IDnumber** 

Description Format

Pseudonymized grouping stay identification number

Character

Values Comments

Not applicable (-9) for isolated stay or treatment

In most cases, a period of hospitalization for an individual translates into one single hospital stay in the register "Stays and treatments in hospital". However, for administrative reasons mainly linked to invoicing, a continuous hospitalization period can be composed of multiple hospital stays in the same register. For example:

- An individual can change the hospital during the hospitalization. In that case, the hospitalization period is composed of two contiguous hospital stays in the register "Stays and treatments in hospital"
- A hospitalized individual may need a short transfer to another hospital for a specific medical treatment. In that case, the hospitalization period is composed of two nested hospital stays in the register "Stays and treatments in hospital"
- During a hospitalization period in the same hospital, there can be multiple stays, for example in some cases a change of hospital services may lead to an additional hospital stay in the register "Stays and treatments in hospital"

This identification number links the different stays or treatment in hospital with nested or contiguous dates for the same patient.

The grouping described above is only based on dates. Therefore, it is possible that the variable grouping\_stay\_IDnumber combines hospital stays with potentially very different medical diagnosis codes.

Source(s)



Format

Values

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Name of the variable	grouping_rank								
Description	Chronological position of the current stay or treatment within the grouping								
Format	Character								
Values	1.1								
Comment	Not applicable(-9) for isolated stay or treatment								
	Based on the beginning date of the treatment or stay								
	In case of grouping, di	_		served: nested stays,	contiguous stays,				
	nested stays within co								
	The variable grouping hospitalization period	_	_	position of each hosp	oital stay with the				
	Contiguous stays have								
	characterized by an er stay. In some rare cas								
	(overlapping).	es, the start da	te of second stay	precedes the end da	te of the first one				
	Nested stays have a gr	rouping rank o	f two positions/n	umbers. Nested stavs	are characterized				
	by a stay or treatment		-	•					
	or before the end date	e of an inpatien	t stay.						
	Example 1: Two contig	guous stays							
	,	,							
		1janv		5janv 6janv	8janv				
	Grouping rank	1		2					
	Example 2: Two neste	d stays							
		1janv	2janv	5janv					
	Grouping rank	1 1	1.1	ا					
	Example 3: Two contiguous stays with several nested stays								
	Example 3. Two contie	suous stays with	Several nested ste	143					
		1janv	2janv	5janv 6janv	7janv 8janv				
	Grouping rank	1	_1.11	.2   2	2.1				
Source(s)									
553,55(5)									

Name of the variable hosp\_ICD\_code Description Principal diagnosis code related to the stay or treatment in hospital (declared at hospital exit) Character See nomenclature **ICD-10** Comments Aggregation level of the variable is decided according to research needs. CNS Source(s)



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Name of the variable hosp\_F\_secondary\_diag

Description Whether secondary diagnosis have been declared during the stay or treatment in hospital

Format Character
Values 0 No
1 Yes

Comments If any other diagnosis, hosp\_stay\_treat\_IDnumber can be linked to "Secondary identified

diagnostics related to hospital stays"

Source(s) CNS

Name of the variable hosp\_MDC\_code

Description Major Disease Category (MDC) of the principal diagnosis code related to the stay or treatment

in hospital

Format Character

Values See nomenclature MDC: <u>cms.gov</u> Comments Not available (-8) before 2018.

The MDC is formed by dividing all possible principal diagnoses into 25 mutually exclusive

diagnosis areas. The diagnosis in each MDC correspond to a single organ system or etiology

and in general are associated with a particular medical speciality.

Source(s) CNS

Name of the variable hosp\_DRG\_code

Description Diagnosis-Related Group (DRG) of the patient during the stay or treatment in hospital

Format Character

Values See nomenclature DRG: <u>cms.gov</u>

Comments Not available (-8) before 2018.

A DRG is a case-mix complexity system implemented to categorize patients with similar clinical

diagnoses in order to better control hospital cost and determine reimbursement rates.

Source(s) CNS

Name of the variable **hosp\_F\_severity\_illness** 

Description Whether the severity illness is available

Format Character

Values -8 not available

1 yes

Comments Never available (-8) before 2018 and sometimes missing since 2018.

Source(s) CNS

Name of the variable hosp\_severity\_illness

Description Patient disease severity factor

Format Character
Values 1 Minor
2 Moderate
3 Major
4 Severe

Comments Missing if F\_hosp\_severity\_illness = -8

Severity of illness (SOI) is defined as the extent of organ system derangement or physiologic decompensation for a patient. It gives a medical classification to provide a basis for evaluating

hospital resource use or to establish patient care guidelines.

Source(s) CNS



Name of the variable	hosp_	hosp_F_risk_mortality	
Description	Wheth	Whether the risk mortality is available	
Format	Chara	Character	
Values	-8	not available	
	1	yes	
Comments	Never	Never available (-8) before 2018	
Source(s)	CNS		

Name of the variable	hosp_risk_mortality	
Description	Risk of patient mortality during the stay	
Format	Character	
Values	1 Minor	
	2 Moderate	
	3 Major	
	4 Severe	
Comments	Missing if F_hosp_risk_mortality = -8	
	The risk of mortality (ROM) provides a medical classification to estimate the likelihood of	
	hospital death for a patient.	
Source(s)	CNS	



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## 4.4 Secondary identified diagnosis related to stays or treatment in hospital

Name of the variable
Description
Pseudonymised identification number of the stay or treatment in hospital
Character
Values
Comments
If hosp\_F\_secondary\_diag = 1 then this register can be linked to the "Stays and treatments in hospital" register using the variable hosp\_stay\_treat\_IDnumber.

Source(s)

Name of the variable secondary\_diag\_ICD\_code

Description Code ICD10 of secondary diagnosis if any

Format Character

Values See nomenclature ICD-10

Comments Available since 2018

Source(s) CNS



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## 4.5 Hospital activities

## All variables concerning hospital activities are related to a reference period (year and month).

Hospital activities represent the costs invoiced by a hospital establishment during a stay or treatment in hospital. This is to be considered as the counterpart to medical acts that are performed in a hospital setting. In most cases (due to administrative imprecision), you can find a medical act in the register "Medical Acts" on the same date for the same individual than the hospital activity in this register. However, this register can also be used standalone if the request is based on research that focuses on hospital planning and/or budgeting.

Name of the variable individual\_IDnumber

Description Pseudonymised individual identification number

Character

Values

Comments

Source(s)

Name of the variable hosp\_stay\_treat\_IDnumber

Description Pseudonymised identification number of the stay or treatment in hospital

Character

Values

Comments

Source(s)

Name of the variable
Description
Pseudonymised identification number of the hospital establishment in which hospital
activities are invoiced.
Format
Values
Comments
To get information about the hospital, invoicer\_IDnumber can be linked to provider\_IDnumber in register "Healthcare providers".

Source(s)



Name of the variable	hosp_activity_code		
Description	Functional entity code linked to the hospital activity		
	, , , , , , , , , , , , , , , , , , , ,		
Format	Character		
Values	01 Hospitalisation – normal care		
	02 Hospitalisation – intensive care		
	Operating rooms and recovery rooms		
	04 Delivery rooms		
	05 Laboratories		
	06 Medical imaging		
	07 Magnetic Resonance Imaging (MRI)		
	08 Radiotherapy		
	09 Extracorporeal lithotripsy		
	10 Hyperbaric oxygen therapy chamber		
	11 Hemodialysis		
	12 Physiotherapy		
	13 Polyclinic		
	14 Chemotherapy		
	15 Lump sum for medication in case of accommodation		
	16 Cardiac surgery		
	17 Interventional cardiology		
	18 Psychiatric day hospital		
	19 Nuclear medicine		
	20 PET-Scan		
	21 Ambulatory patients monitoring places		
	22 Occupational therapy		
	23 Hydrotherapy		
	24 Palliative care		
	25 In Vitro Fertilisation (IVF)		
	26 Gymnasium		
	27 Therapeutic apartments		
	29 Brachytherapy		
	30 Endoscopic polyclinic		
	31 Emergencies/SMTNPT (« Services médico-techniques non programmes triés »)		
	33 Human genetics		
	34 Pathological anatomy		
	35 Pediatric day hospital		
	36 Surgical day hospital		
	Non-surgical day hospital		
Comments	Every passage inside a hospital, whether it is in the context of an inpatient stay or an		
	ambulatory treatment, leads to an invoicing of one or more hospital activity(ies) ("unité(s)		
	d'oeuvre") inside the functional entities of the hospital.		
	The term "functional entity" designates a cost center of the establishment, which produces		
	billable activities invoiced to the healthcare insurance.		
	Generally, these complementary hospital activities represent a hospital counterpart to		
	medical and dental practitioner bills, in the sense that they can possibly refer to a same		
	medical treatment but they give additional information about what has been done in the		
	hospital setting. However, due to the nature of administrative data, it is possible that a medical		
	service has been performed in a hospital setting, but no hospital activity can be found in this		
	register, or inversely, a hospital activity exists, but no medical service can be found for the		
	same day and the same patient. If such a link between both exists, it is purely artificial based		
	on the patient identifier and the date.		
	No data before 2019 for emergency, surgical day hospital and non-surgical day hospital.		



Source(s)	CNS		

Name of the variable	hosp_activity_nb_invoices
Description	Number of invoiced services of a given hospital activity
Format	Numeric
Values	
Comments	
Source(s)	CNS

Name of the variable	hosp_activity_F_accident	
Description	Whether the hospital activity is linked to work place accidents, commuting accidents or	
	occupational illnesses	
Format	Character	
Values	0 No	
	1 Yes	
Comments	It is useful to note that the CNS might initially reimburse the medical service, but the cost will	
	be subsequently charged to accident insurance.	
Source(s)	CNS	

Name of the variable	hosp_activity_cost
Description	Cost of hospital activity
Format	Numeric
Values	
Comments	This variable includes fixed costs of the hospital.
Source(s)	CNS

Name of the variable	hosp_activity_cost_paid_SS
Description	Part of the cost of hospital activity covered by the Social Security
Format	Numeric
Values	
Comments	In Luxembourg, only extra costs are not reimbursed by CNS as supplements for personal convenience as well as excess fees for doctors in first class hospitalizations.
Source(s)	CNS



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#### 4.6 **Healthcare providers**

# All variables concerning healthcare providers are related to a reference period (year and month).

Name of the variable	reference_period
Description	Reference period during which the healthcare provider is providing healthcare services
Format	Date (yyyymm)
Values	
Comments	
Source(s)	

Name of the variable
Description
Pseudonymised identification number for healthcare provider
Character

Values
Comments
A provider appears in the file for a given month if he has invoiced at least one medical act or service during the month.
provider\_IDnumber can be linked by the executioner\_IDnumber, invoicer\_IDnumber, prescriber\_IDnumber or hospital\_IDnumber of other registers

Source(s)

Name of the variable provider\_type Type of healthcare providers Description **Format** Character Values 0 **Doctors and dentists** Hospital establishments (as defined in the Loi hospitalière 04/2018) Comments Doctors and dentists can practice their medical activity in several ways simultaneously or according to different statuses also simultaneously (salaried and liberal). In this case, they are considered as several providers. A same practitioner can therefore have several provider\_IDnumber. The practitioner\_IDnumber variable is used to group the provider IDnumber relating to the same practitioner. If the provider IDnumber corresponds to an association, the information of provider type refers to the association type (e.g. association of doctors). CNS Source(s)

Name of the variable	provider_F_is_association	
Description	If the provider is an association of more than one provider	
Format	Character	
Values	0 No	
	1 Yes	
Comments	-9 if provider_type = 1	
Source(s)	CNS	

Name of the variable	practitioner_IDnumber
Description	Pseudonymised identification number for healthcare provider when physical person
Format	Character
Values	
Comments	-9 if provider_F_is_association = 1 or provider_type = 1
Source(s)	



Name of the variable	hosp_estab_type	
Description	Type of hospital establishment	
Format	Character	
Values	0 Centre hospitalier	
	1 Etablissement hospitalier spécialisé	
	2 Other	
Comments	Not applicable (-9) if provider_type ≠ 1	
	These types are defined according to the law of 8 mars 2018 relative aux établissements	
	hospitaliers et à la planification hospitalière.	
Source(s)	CNS	

Name of the variable	hosp_estab_group		
Description	Group to which the hospital establishment belongs		
Format	Character		
Values	0 CHL (Centre Hospitalier de Luxembourg)		
	1 HRS (Hôpital Robert Schuman)		
	2 CHEM (Centre Hospitalier Emile Mayrisch)		
	3 CHdN (Centre Hospitalier du Nord)		
	4 INCCI (Institut National de Chirurgie Cardiaque et de Cardiologie Interventionnelle)		
	5 HIS (Hôpital Intercommunal de Steinfort)		
	6 CHNP (Centre Hospitalier Neuro-Psychiatrique)		
	7 CFB (Centre François Baclesse)		
	8 RHZ (Centre National de Rééducation Fonctionnelle et de Réadaptation)		
	9 OMEGA (Haus Omega)		
	10 COLPACH (Centre de Réhabilitation du Château de Colpach)		
Comments	Not applicable (-9) if provider_type ≠ 1		
Source(s)	CNS		



Name of the variable	nrovide	er_specialty		
Description	Medical specialty of the provider (doctors and dentists)			
Format	Character			
Values	A0	General practitioner		
values	A7	Emergency medicine		
	B0	Anaesthesiology		
	CO	Clinical biology		
	C1	Pathological anatomy		
	C2	Biological chemistry		
	C3	Biological haematology		
	C4	Microbiology-bacteriology		
	C5	Forensic medicine		
	C6	Neuro-pathology		
	D0	Cardiology		
	EO	General surgery		
	E1	Thoracic surgery		
	E2	Plastic surgery		
	E3	Vessel surgery		
	E4	Pediatric surgery		
	E5	Maxillo-facial surgery		
	E6	Dental, oral and maxilla-facial surgery		
	E7	Gastrointestinal surgery		
	F0	Dermato-venerology		
	F1	Dermatology		
	F3	Allergology		
	G0	Radiodiagnosis		
	G1	Nuclear medicine		
	G2	Radiotherapy		
	H0	Endocrinology		
	10	Gastroenterology		
	JO	Gynaecology-obstetrics		
	K0	General haematology		
	LO	Internal medicine		
	L1	Nephrology		
	L3	Contagious diseases		
	L4	Medical oncology		
	L5	Genetic medicine		
	M0	Neurosurgery		
	MT	Occupational medicine		
	N0	Neuropsychiatry		
	00	Neurology		
	P0	Psychiatry		
	P1	Child psychiatry		
	Q0	Physical medicine and rehabilitation		
	R0	Ophthalmology		
	S0	Orthopaedics		
	S1	Traumatology and emergency medicine		
	SP	Public health and social medicine		
	T0	Oto-rhino-laryngology		
	U0	Paediatrics		
	V0	Pneumonology		
	W0	Rheumatology		
	Х0	Urology		



	ZO Dentist		
	Z1 Stomatology		
	Z2 Orthodontics		
	Z3 Oral surgery		
Comments	-9 if provider type ≠ 0		
	Based on Grand-ducal Regulation (Règlement grand-ducal du 10 juillet 2011 fixant la liste des spécialités en médecine et médecine dentaire reconnues au Luxembourg)		
Source(s)	CNS		

Name of the variable	provider_practice_location
Description	Practice location refers to the "canton" level
Format	Character
Values	
Comments	More detailed variables are available about practice location. They will be provided according to the "need to know" rule.
	The location corresponds to the official address registered in social security databases.
Source(s)	CNS

Name of the variable	practitioner_professional_status		
Description	Professional status of the healthcare provider		
Format	Character		
Values	0 Salaried		
	1 Liberal / Self-employed		
	2 Mixed		
Comments	Not applicable(-9) if provider_type ≠ 0 or provider_F_is_association = 1		
	This information is calculated using the presence of the practitioner in labour market data as		
	an employee, a self-employed or both		
Source(s)	CNS		

Name of the variable		riable	practitioner_residence_country		
Description	on				
Format Character		Character			
Values			0 Luxembourg 1 Germany		
			2 Belgium		
			3 France		
			4 Other		
Comments Not applicable(-9) if provider_type ≠ 0 or provider_F_is_association = 1					
Source(s) CCSS					

Name of the variable	practitioner_residence_location		
Description	Refers to the "canton" level.		
Format	Character		
Values 👸 👸			
Comments	Not applicable(-9) if provider_type ≠ 0 or provider_F_is_association = 1		
	More detailed variables are available about residence. They will be provided according to the		
	"need to know" rule.		
Source(s)	CCSS		



Name of the variable Description		practitioner_citizenship		
Format		Character		
Values		0 Luxembourg		
		1 Germany		
<u>a</u>		2 Belgium		
		3 France		
		4 Portugal		
		5 Other EU-27		
		6 Other		
Comments This variable refers to the main citizenship during the reference period. It can characteristic the main citizenship during the reference period.				
		month to month for people who acquire another citizenship. In case of dual citizenship, the		
		provided citizenship is the one considered as the first by the administration.		
		Not applicable(-9) if provider_type ≠ 0 or provider_F_is_association = 1		
Source(s)		CCSS		

Name of the variable		practitioner_age	
Description		Age at the end of the month	
Format		Character	
Values		less than 30 years	
	1	30-34 years	
	2	35-39 years	
	3	40-44 years	
	4	45-49 years	
	5	50-54 years	
	6	55-59 years	
	7	60 years and more	
Comments Not applicable(-9) if provider		ot applicable(-9) if provider_type ≠ 0 or provider_F_is_association = 1	
Source(s)		SS	

Name of the variable		practitioner_gender			
Description					
Format		Chara	cter		
Values			0	Male	
values			1	Female	
Comments		Not a	pplicable(-9) if provider_type ≠ 0 or provider_F_is_association = 1		
Source(s)			CCSS		



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#### 4.7 Medications

# All variables concerning medications are related to a reference period (year and month).

Name of the variable reference\_period Description Period of the medication purchase **Format** Date (yyyymm) Values Comments Source(s)

Name of the variable  $individual\_IDnumber$ Description Pseudonymised individual identification number **Format** Character Values Comments Source(s)

Name of the variable pharmacy\_IDnumber Description Pseudonymised pharmacy identification number Format

Character

Values Comments Source(s)

Name of the variable pharmacy\_type Description Format Character Values 0 **Public pharmacy** 1 Hospital pharmacy

Comments **CNS** 

Name of the variable pharmacy\_location

Description refers to the "canton" level Format Character

Values Comments More detailed variables are available about residence. They will be provided according to the

"need to know" rule.

Source(s) **CNS** 

Source(s)

Values

Name of the variable prescriber\_IDnumber

Description Pseudonymised identification number of the prescribing healthcare provider **Format** Character

Comments To get information about the prescriber, prescriber\_IDnumber can be linked to

provider\_IDnumber in register "Healthcare providers".

Source(s)



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Name of the variable **medication\_code** 

Description

Format Character

Values See <u>Liste positive des médicaments - triée par nom — CNS - Luxembourg (public.lu)</u>

Comments Only prescribed medications reimbursed by the CNS are included. Medications prescribed in

the context of an inpatient stay or treatment in hospital are not included.

Source(s) CNS

Name of the variable medication\_ATC\_code

Description Anatomical Therapeutic Chemical (ATC) Classification System

Format Character

Values WHOCC - Structure and principles

Comments Aggregation level of the variable is decided according to research needs.

The Anatomical Therapeutic Chemical (ATC) classification uses codes to identify the medication active substance. The ATC classification system groups the active medical substances according to the organ or system on which they act and according to their

therapeutic, pharmacologic and chemical properties.

Source(s) CNS

Name of the variable medication\_DDD

Description Daily Defined Dose (DDD) per packaging of fifth level ATC code

Format Numeric

Values

Comments The defined daily dose (DDD) of a medication, which is a unit of measurement and is linked to

the ATC code. The definition of the DDD is: "The assumed average maintenance dose per day

for a drug used for its main indication in adults".

See introductory chapter for more explanations about ATC methodology and the limitations

of the DDD concept.

WHOCC - Definition and general considerations

Source(s) CNS

Name of the variable medication\_dose\_delivered

Description Daily Defined Dose (DDD) delivered

Format Numeric

Values

Comments Calculated by multiplying DDD per packaging (medication DDD) by the number of packaging

Source(s) CNS

Name of the variable **medication\_nb\_packages\_delivered** 

Description Number of medication packages delivered

Format Numeric

Values Comments

Source(s) CNS

Name of the variable medication\_F\_generic

Description Whether the medication is a generic

Format Character
Values 0 No
1 Yes

Comments

Source(s) CNS



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Name of the variable
Description
Whether the fee is linked to work place accidents, commuting accidents or occupational illnesses

Format
Values
0
No
1
Yes

Comments
Source(s)
CNS

Name of the variable Description
Format Numeric
Values
Comments The cost is about the medication\_dose\_delivered.
Source(s) CNS

Name of the variable Description Part of the cost covered by the Social Security
Format Numeric
Values
Comments The cost paid by Social Security is about the medication\_dose\_delivered.
Source(s) CNS