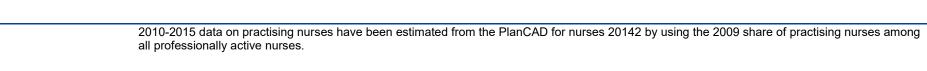


6.7. Practising nurses on the health sector per 1 000 inhabitants (A-6)

6.7.1. Documentation sheet

Description	Main indicator: Number of practising nurses on the health sector per 1 000 inhabitants Secondary indicators: Number of nurses with a licensed to practice (LTP) and number of professionally active nurses on the Belgian market
Calculation	 Main indicator: Number of practising nurses on the health sector per 1 000 inhabitants Numerator: Number of practising nurses on the health sector x 1000 Denominator: Total end of year Belgian population
Technical definition	 Main indicator: Practising nurses are defined as those employed on the health sector. Secondary indicators: A licensed to practice nurse (LTP) is defined as nurses who have obtained a recognised qualification in nursing, including people with a midwif
	 diploma registered under nursing category in the cadastre database.¹ A nurse is considered as professionally active when he/she is registered as self-employed person into INASTI database or registered into ONS database with at least 0.1 full time equivalent (FTE) per year. The threshold of 0.1 FTE per year has been established by the nursing workin group on nurses from workforce planning cell.¹
	 A nurse is considered as practising nurses on the health sector when he/she is registered into INASTI database and had provided at least 89 acts (based on INAMI-RIZIV nomenclature) per year or registered into ONSS+ database with at least 0.1 full time equivalent (FTE) per year an working for an active employer on the health sector.¹
	The distinction between professionally active nurses and practising nurses is the activity sector. Practising nurses are nurses who are active only o the health sector instead of on the entire Belgian market for professionally active nurses.
Rationale	Nurses play a critical role in providing health care in hospitals and long-term care institutions, but also in primary care and in the home care setting In addition, they are in most countries the largest group of healthcare professionals. Monitoring the number of practising nurses per 1000 inhabitant is therefore important in light of the accessibility and sustainability of the healthcare system. These are essential figures for workforce planning. ²
Data source	Results from "PlanCAD" 2016 ¹ , Federal database of health care professionals, Federal Public Service Health, Food Chain Safety and Environment It should be noted that data from the PlanCAD slightly differ from the workforce statistics (HWF STATAN 2017), also published by the Federal Public Service Health, Food Chain Safety and Environment, because of another extraction period and a larger selection in the PlanCad (e.g. inclusion of people with a midwife diploma registered as nurse in the cadastre).
International comparability	The differences in inclusion and exclusion criteria between countries make international comparison of these data hazardous. Austria and Greec for example report only nurses working in hospital, resulting in an under-estimation.
	In OECD health statistics ² for Belgium, the 2010-2015 data on professionally active nurses have been estimated from the PlanCAD for nurses 2014 by using the average share for the period 2004-2009 of professionally active nurses among all nurses licensed to practice. The 2004-2008 data an



Dimension	Accessibility (health workforce)
Related indicators	Number of practising physicians per 1000 population
	Medical and nursing graduates

6.7.2. Results

In 2016^w, there were 202 402 nurses licensed to practise, 143 470 accredited nurses active on the Belgian labour market, and 124 196 practising nurses, i.e. working in the healthcare sector (see Table 49). Figure 79 shows that the number of nurses (all categories) increases over the time.

Table 49 - Number of nurses (all categories) in Belgium (2004-2016)

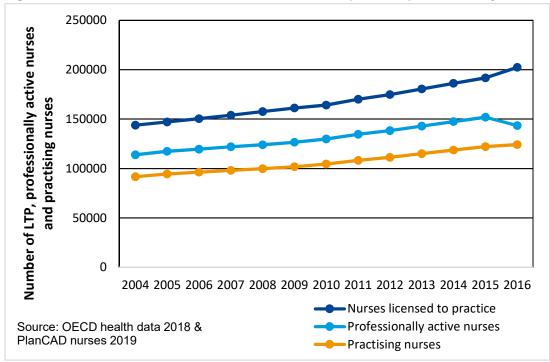
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Nurses licensed to practice	143 893	147 068	150 414	153 889	157 591	161 299	164 141	170 023	174 849	180 547	186 277	191 805	202 402
Professionally active nurses on the Belgian labour market	113 919	117 346	119 623	121 991	124 064	126 473	129 916	134 572	138 392	142 901	147 437	151 812	143 470
Practising nurses on the health sector	91 644	94 401	96 232	98 137	99 805	101 743	104 513	108 258	111 331	114 959	118 608	122 127	124 196

2016 data are based on the PlanCAD for nurses 2019;¹ 2004-2015 data are based on OECD 2018 Health statistics. The 2010-2015 data on professionally active nurses have been estimated from the PlanCAD for nurses 2014² by using the average share for the period 2004-2009 of professionally active nurses among all nurses licensed to practice. The 2004-2008 data and 2010-2015 data on practising nurses have been estimated from the PlanCAD for nurses 2014² by using the 2009 share of practising nurses among all professionally active nurses.

w The last publication of PlanCAD nurses is in 2019.

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Figure 86 – Evolution of number of nurses licensed to practice, professionally active nurses and practising nurses (2004-2016)



Source: 2004-2015 data based on OECD 2018 Health statistics. 2016 data based on PlanCAD nurses 20191

In Table 50, results are detailed by community, region of activity, gender and nationality for each type of nurses (LTP, PA, PR) in 2016. For the 124 196 accredited nurses who were professionally active on the health sector: 14.7% were male (n=18 213), 6.3% were foreigners, 61.3% (n=63 327) of the nurses work in Flanders, 10.2% (n=12 697) in Brussels and 28.4% (n=35 277) in Wallonia (Table 50).

In Belgium, there were 109 practising nurses on the health sector per 10 000 inhabitants and differences were observed between regions (see Table 52).

This corresponds to 117 nurses per 10 000 inhabitants in Flanders, 107 nurses per 10 000 inhabitants in Brussels and 98 nurses per 10 000 inhabitants in Wallonia (Table 52). In term of full time equivalent, there were 105 718 practising nurses on the health sector in Belgium in 2016 with an average of 0.85 FTE (see Table 52). There are small variation in term of FTE between regions and communities (see Table 52).). From Table 50, it is clear that most nurses active in the health sector (salaried only or with a mixed status) work as employees in hospitals (65.5%) followed by nursing homes (13.7%) and home care (7.9%).



Table 50a – Number of nurses (all categories) in Belgium (2016)

PlanCAD 31/12/2010	6	Licensed to practise (LTP)	Professionally active nu labour mar		Practising nurses on th	ne health sector (PR)	
		N	N	FTE	N	FTE	
Belgium		202 402	143 470	113 414	124 196	105 718	
Community	Flemish community	120 555 (59.6%)	88 110 (61.4%)	68 026	76 172 (61.3%)	63 431	
	French community	81 847 (40.4%)	55 360 (38.6%)	45 388	48 024 (38.7%)	42 287	
Region of activity	Flanders	-	87 415 (60.9%)	67 274	76 155 (61.3%)	63 327	
	Wallonia	-	40 707 (28.4%)	33 409	35 277 (28.4%)	31 130	
	Brussels Capital	-	15 224 (10.6%)	12 670	12 697 (10.2%)	11 200	
	Foreign or unknown	-	124 (0.1%)	62	67 (0.1%)	61	
Gender	Male	27.200 (13.4%)	21.317 (14.9%)	19 629	18 213 (14.7%)	17 819	
	Female	175.202 (86.6%)	122.153 (85.1%)	93 785	105 983 (85.3%)	87 899	
Nationality	Belgian	185.055 (91.4%)	135.033 (94.1%)	106 558	116 397 (93.7%)	98 603	
	Not Belgian	17.347 (8.6%)	8.437 (5.9%)	6 857	7 799 (6.3%)	7 114	

Source: PlanCAD nurses 2019¹; *This diploma was interrupted in 1996.

Table 51b – Number of nurses active in the health sector (from the National Social Security Office database, i.e. salaried only or with a mixed status, n = 113 878), per activity sector (2016)

	Hospitals	Nursing homes	Home care	Public centres for social action (OCMW-CPAS)	Social welfare	Other health sectors	Total
N (%)*	74 619 (65.5%)	15 567 (13.7%)	8 451 (7.4%)	8 987 (7.9%)	3 550 (3.1%)	3 725 (3.3%)	113 878

Source: PlanCAD nurses 2019¹; * Some nurses worked in multiple sectors meaning that the total does not equal to the some of the sectors...



Table 52 – Practising nurses active on the health sector in Belgium (density per 1 000 population)

31/12/2016	Practising nurses on the health sector											
		N	Density	N (in FTE)	Density (in FTE)	Average FTE						
Belgium		124 196	11.0	105 718	9.3	0.85						
Region	Flanders	76 155	11.7	63 327	9.7	0.83						
	Wallonia	35 277	9.8	31 130	8.6	0.88						
	Brussels Capital	12 697	10.7	11 200	9.4	0.88						
	Foreign or unknown	67	-	61	-	0.92						
Community	Flemish community	76 172	11.3	63 431	9.4	0.83						
	French community	48 024	10.5	42 287	9.3	0.88						

Source: PlanCAD nurses 2019.1, density (own calculation)

International comparison

Based on OECD Health Statistics, the number of practising nurses on the health sector in Belgium increased between 2004 and 2015 (see Table 53).

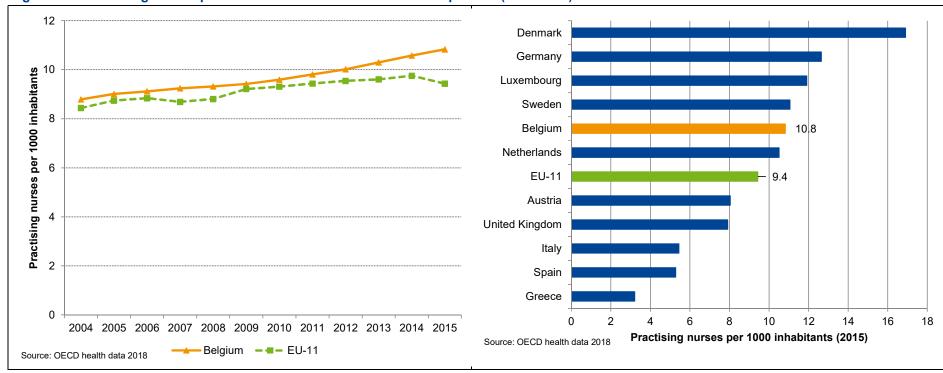
This is in line with what is observed in other European countries (see Figure 87). In 2015, Belgium had 10.8 nurses per 1 000 inhabitants which is one nurse more than the EU-11 average. In 2016, Belgium had 10.9 nurses per 1 000 inhabitants (see Table 53).

Table 53 – Number of practising nurses on the health sector in Belgium and density per 1 000 inhabitants (2004-2015)

Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Number of practising nurses on the health sector (head counts)	91 644	94 401	96 232	98 137	99 805	101 743	104 513	108 258	111 331	114 959	118 608	122 127
Density per 1 000 population (head counts)	8.8	9.0	9.1	9.2	9.3	9.4	9.6	9.8	10.0	10.3	10.6	10.8

Source: OECD 2018 Health Statistics. Data refers to the number of nurses active on the health sector. The 2004-2008 data and 2010-2015 data have been estimated by using the 2009 share of practising nurses among all professionally active nurses (PlanCad).³

Figure 87 – Practising nurses per 1000 inhabitants: international comparison (2004-2015)



Source: OECD 2018 Health statistics



Key points

- The recent PlanCAD project¹, resulting of a linkage of several administrative databases, allows precise estimation of the number of nurses active on the Belgian labour market (professionally active) and on the health sector (practising nurses).
- In 2016^x, there were 202 402 nurses licensed to practise, 143 470 accredited nurses active on the Belgian labour market, and 124 196 practising nurses, i.e. working in the healthcare sector.
- Most of professionally active nurses work as employees in hospitals (65.5%) followed by nursing homes (13.7%) and home nursing (7.9%).
- The number of practising nurses per 1 000 inhabitants increased between 2004 and 2015 in Belgium (from 8.8 in 2004 to 10.8 per 1000 inhabitants in 2015). This increasing trend is also observed in other European countries. The number of practising nurses per 1 000 inhabitants is slightly above the European average.

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The last publication of PlanCAD nurses is in 2019.¹