

Health Professionals Report : Capacity, Accessibility and Production

Specialty of Interest : Stomatologist

Authors : P. Meeus, A. Khalil, S. De Pril, K. Declercq, K. Daïnou, V. Maton

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Introduction

Introduction

This report provides a comprehensive overview per healthcare specialty working within the Belgian health insurance system, within hospital and ambulatory settings.

Professional perspective :

• Aspects covered are: capacity, production (numbers and financials), subspecialties, replacement rates. Those aspects are described by gender, age, geography, type of activity, workplace, evolution.

Patient perspective :

• Accessibility and frequentation are described by gender, age, social status, geographical distribution, evolution.

Data Sources & Transformations

This report draws insights from the "Doc P" database, encompassing patients who sought care in Belgium and claimed insurance reimbursement. The database spans from accounting years :

- 2013 to 2023 for health professionals
- 2018 to 2023 for health professionals subspecialties
- 2018 to 2022 for insured coverage and patient frequentation

Each studied year N is coupled with socio-demographic data on providers as of December 31 N.

To address GDPR (General Data Protection Regulation) compliance for small cell data, numbers from fewer than 5 registered providers are hidden.

Contact

appropriatecare@riziv-inami.fgov.be

Additional information

For official information regarding the number of healthcare providers :

- NIHDI : please click <u>here</u>
- MOH : please click <u>here</u>

Key Variables & Metrics

Healthcare professional perspective (specialty is determined by grouping <u>NIHDI competency codes</u>) :

- <u>Demographic characteristics</u> are age (groups by 10Y), sex (M/F), working address (or contact address if not available), communication language (Dutch/French), convention status (full, partly), activity status (>1 intervention/year), type of prestation (see <u>NIHDI</u> <u>nomenclature</u>).
- <u>Numeric characteristics</u> are number of professionals (all providers registered within INAMI-RIZIV), number and cost of (reimbursed) prestations. Evolution is available since 2012 for professionals figures and since 2018 for the study of their activity.
- <u>FTE (full-time equivalent)</u> is calculated to determine the workload of a healthcare provider (= total reimbursements by provider in a given year divided by the median amount of reimbursements for providers aged 45 to 54 in the same specialty, see Annex 1). FTE values are capped at 1. The FTE for employed doctors in medical homes (lump sum financing) was estimated at 0.82 per doctor because the actual FTE cannot be evaluated given the absence of activity registration. Medical homes with lumpsum are not included in the productivity calculation. General practitioners with "Fee for Service" in the title specifies that doctors and patients in medical homes with lumpsum are excluded from the analysis.
- <u>Working place</u> : distinction is made between private, polyclinic, day hospitals, or hospital stays, depending on the place of prestation.
- <u>Subspecialty Clusters</u> : Healthcare providers within a specialty can be clustered based on ([sub] group of similar) nomenclature codes reimbursed or working place.
- Indicators of Density : FTE/10.000 insured, total activity/FTE, reimbursement/FTE, number of patients/FTE.

Patient perspective :

- <u>Demographic characteristics</u> are age, sex (M/F), address of residence (not treatment place !) (by region, province, etc.), social status (normal and preferential regime [BIM])), type of specialty contacted during the year.
- <u>Patients Indicators</u> : insured coverage (% at least 1 contact) (N.B. Specialists in training included), insured frequentation (number of contacts/insured), patient frequentation (number contacts/patient).
- A KPI (Key Performance Indicator) color system is used in this report. It is shown as
- Grey for contextual information
- Green for positive performance compared to starting year
- Red for negative performance compared to starting year

Limitations & Assumptions

- Professional density : metrics in this report were not standardized to a consistent population size, which means comparisons between regions or provinces may not be entirely fair or accurate.
- Patient analysis uses actual care years, not accounting years, unlike other analyses. If the analysis year is N, the last available year for patient analysis is N-1 in order to present relevant data.
- The calculation of FTEs may be impacted by modifications of competency codes over the years. A change within a specialty affects the median of reimbursements and thus generates breaks in the evolution of FTEs (see the recognition of nephrologists since 2022 for internal medicine). The median value changes depending on the year (see Annex 1).



Speciality Metrics and Comparison (2023) : Stomatologist

This sheet compares the specialty of interest (left) with comparison group (right).

			Stomatologist	Surgical Pathology	
Competency	Stomatologist Description	# N SubSpecialities	1	10	Surgical Pathole Profession
Code			1	10	Acute Medicine and Emergency Medicine
10520 30005	Stomatology Specialists Licensed Stomatologists	# N Total	439	11.480	Anesthesiologist ENT Specialist
		# N Active	359	8.758	General Surgeon Neurosurgeon Ophthalmologic
		# Full-Time Equivalent (FTE)	238	6.090	Surgeon Orthopedic Surgeon Plastic Surgeon
		€ Expenses per FTE	486.755	357.861	Stomatologist Urologist
			% Active % FTE	% Active % FTE	
		65+	17% 7%	11% 5%	
			% Active % FTE	% Active % FTE	
		Convention	59% 47%	71% 65%	
		Accreditation	54% 67%	77% 86%	

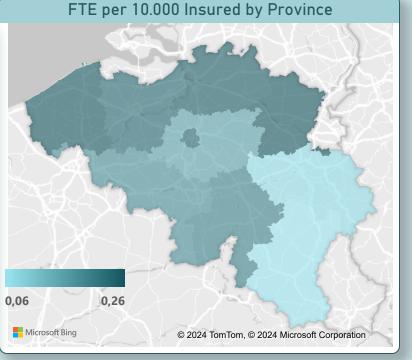


Geographical Accessibility (2023) : Stomatologist

Geographical accessibility is measured by density, calculated as the number of FTE (Full Time Equivalent) per 10.000 insured and comparing the results between provinces and regions. Metrics in this report were not standardized to a consistent population size.

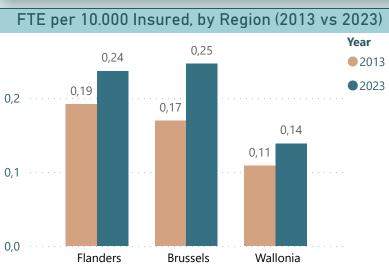
Indicators :

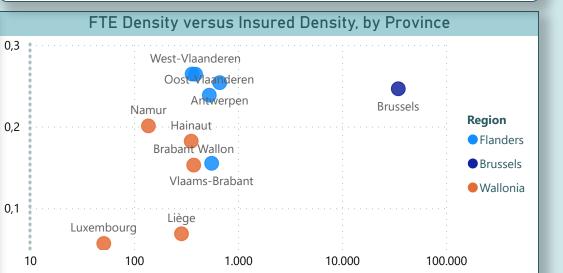
- Geographical distribution which enables to check for homogeneity.
- Evolution over 10 years and growth rate within that period.
- Comparison of number of FTE and number of insured to detect correlation.



Demographic Information by Province							
Province	#FTE	Density (FTE per 10.000 Insured)	%65+ (FTE)	%Women (FTE)			
West-Vlaanderen	32,46	0,26	10%	19%			
Oost-Vlaanderen	37,66	0,24	5%	33%			
Antwerpen	48,54	0,25	6%	25%			
Limburg	23,18	0,26	3%	31%			
Vlaams-Brabant	18,22	0,16	12%	33%			
Brussels	28,26	0,25	10%	23%			
Brabant Wallon	6,25	0,15	11%	16%			
Hainaut	24,47	0,18	5%	36%			
Namur	10,13	0,20	0%	19%			
Liège	7,59	0,07	8%	31%			
Luxembourg	1,29	0,06	0%	53%			
Total	238,06	0,21	7%	27%			









Financial accessibility is measured by the number of conventioned FTE (Full time equivalent) by 10.000 insured.

Convention means that the professional is committed to respect prices determined in the NIHDI convention. This agreement can occur partly (at specific hours during the week) or totally (all the working hours). The conventioned FTE for partially conventioned providers is calculated as half of their total FTE.

Indicators :

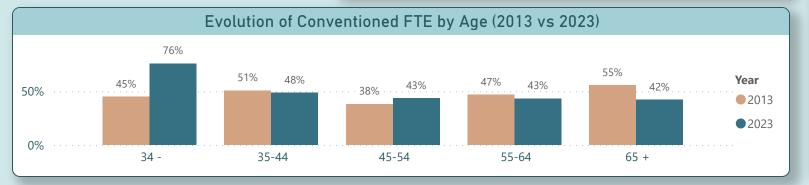
• % FTE meeting the criteria / total FTE

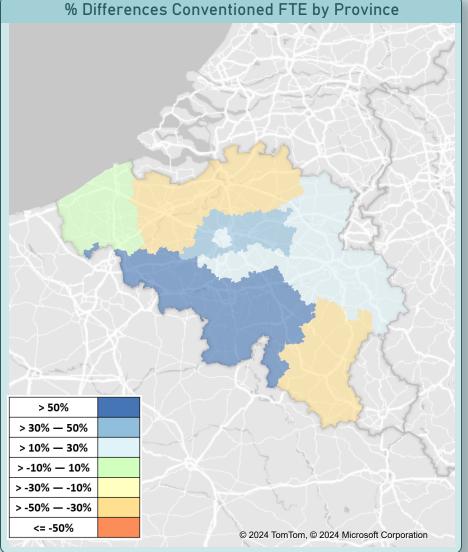
• Financial accessibility is gauged by conventioned FTE (Full Time Equivalent) per 10.000 insured.



% Conventioned FTE by Language and Regime								
Languag	je	Part	Full	Total				
FR		9%	55%	64%				
NL	NL 6% 34% 40%							
Total 7% 41% 47%								

Demographic Information by Province							
Province	Density (FTE per 10.000 Insured)	Density (Conventioned FTE per 10.000 Insured)	% Conventioned FTE				
West-Vlaanderen	0,26	0,12	46%				
Oost-Vlaanderen	0,24	0,07	28%				
Antwerpen	0,25	0,06	25%				
Limburg	0,26	0,14	53%				
Vlaams-Brabant	0,16	0,10	67%				
Brussels	0,25	0,13	53%				
Brabant Wallon	0,15	0,08	53%				
Hainaut	0,18	0,15	83%				
Namur	0,20	0,16	78%				
Liège	0,07	0,04	54%				
Luxembourg	0,06	0,01	26%				
Total	0,21	0,10	47%				







CPD (continuous professional development) is measured by accreditation criteria. Accreditation means that the professional meets several CPD (continuous professional development) criteria (which indicates the will for quality of care).

Indicator :

FR

NL

Total

• % FTE meeting the criteria / total FTE

% Accredi	ted F	TE (20)23)	
	6	7%	~	
20'	13: 61	% (+1	0.09%)
% Accre		FTE b Gend	•	guage
Language	F	М	Total	

46%

80%

41%

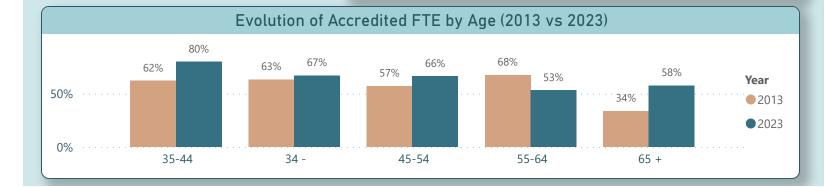
78%

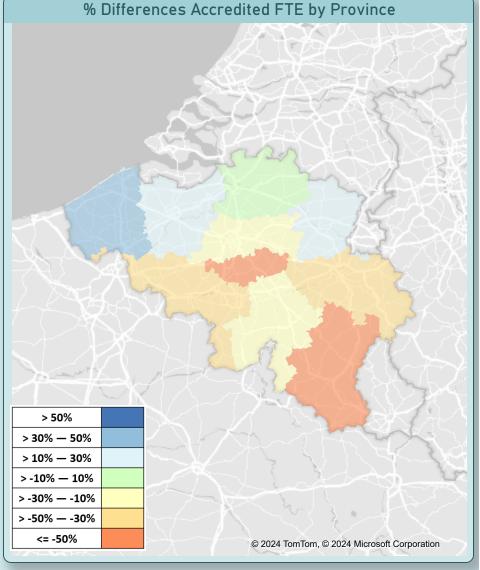
69% 67% 67%

42%

79%

Demographic Information by Province							
Province	Density (FTE per 10.000 Insured)	Density (Accredited FTE per 10.000 Insured)	% Accredited FTE				
West-Vlaanderen	0,26	0,25	93%				
Oost-Vlaanderen	0,24	0,20	82%				
Antwerpen	0,25	0,18	70%				
Limburg	0,26	0,23	85%				
Vlaams-Brabant	0,16	0,09	58%				
Brussels	0,25	0,13	54%				
Brabant Wallon	0,15	0,04	24%				
Hainaut	0,18	0,07	40%				
Namur	0,20	0,11	55%				
Liège	0,07	0,02	34%				
Luxembourg	0,06						
Total	0,21	0,14	67%				

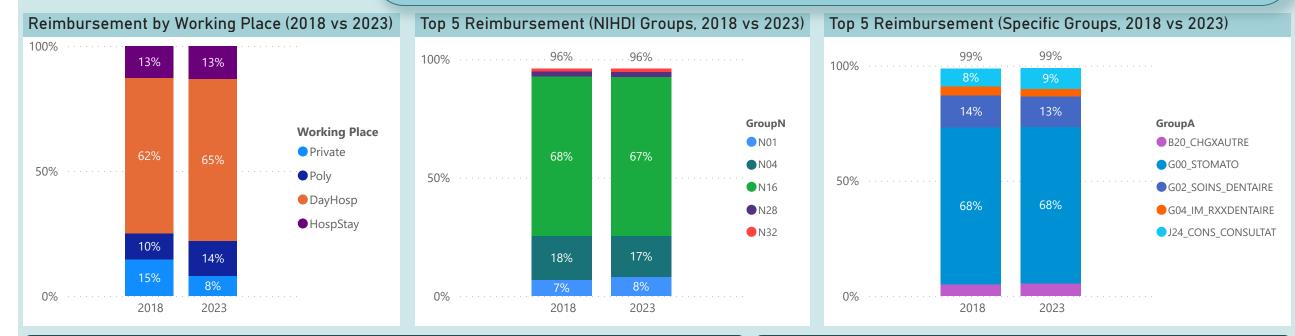






Subspecialties Activity and Working Place : Stomatologist

	distinguish different types of activity which are grouped to study what kind of procedures are done and where. The type of activity is described by 2 criteria: the place of work and the nature of the activity:
	• The place of work is the place where the activity takes place (private, polyclinic, day hospital, hospital stay).
Reimbursement by FTE (2023)	• The nature of the activity is described according to 2 logics of grouping. The traditional distribution of reimbursements within NIHDI (N01 contacts, N20 surgery,
	etc.) and a specific, more detailed breakdown to identify sub-specialties within the specialty (i.e. cardiac surgery within surgery).
489.396	Indicators :
	• Reimbursement (in Euros) / FTE
2018: 421.639 (+16.07%)	% Reimbursement (in Euros) by category / total reimbursement (in Euros)
	The evolution provides information on the stability of the patterns of the activity comparing year N with N-5.



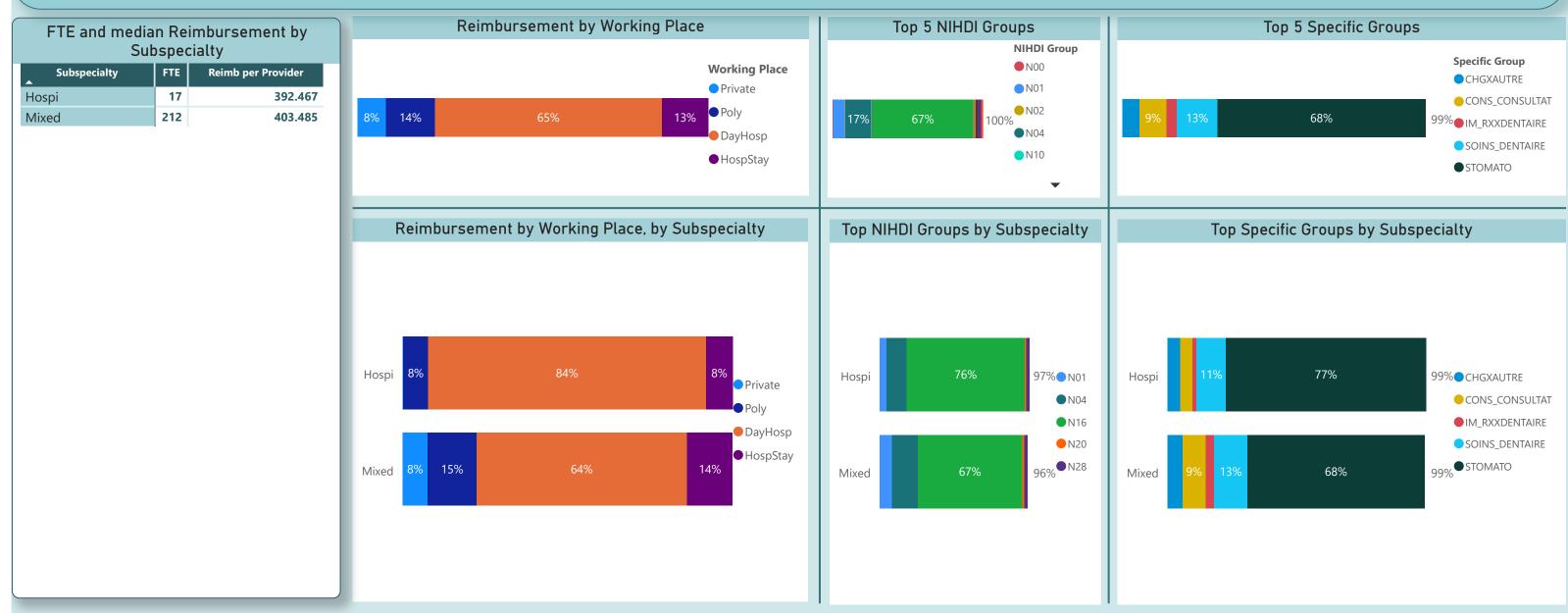
GroupN	Description
N01	Consultations visits and medical advices
N04	Dental care
N16	Stomatology
N28	Otorhinolaryngology
N32	Orthopedics

GroupA	Description
B20_CHGXAUTRE	Other Surg.
G00_STOMATO	Stomato
G02_SOINS_DENTAIRE	General (dentist.)
G04_IM_RXXDENTAIRE	Imaging (dentist.)
J24_CONS_CONSULTAT	Consultation

Subspecialties Activity and Working Place (2023) : Stomatologist

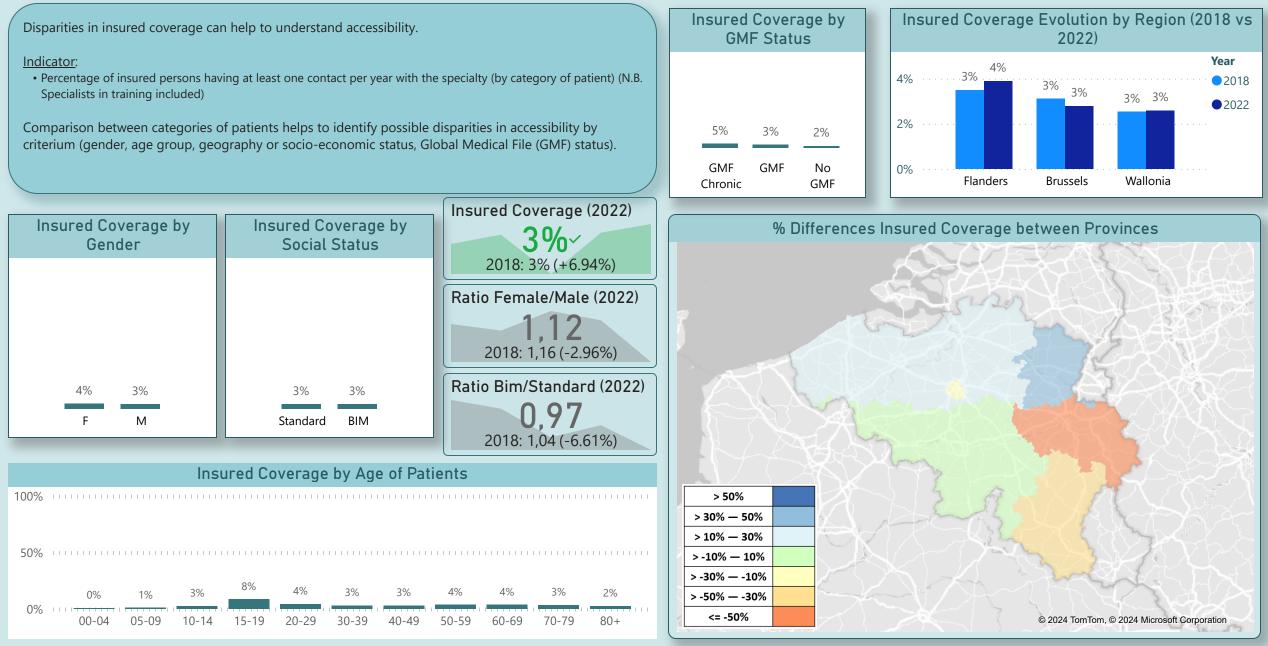
Subspecialties are identified by the working place and/or type of activity (see previous page): the assignment of a health care provider to a sub-specialty prioritizes the type of activity exercised. In general, the type of activity with the most reimbursements, if the amount exceeds 10% of reimbursements in all types of activity, determines the specialty of the health care provider. If no particular activity was identified for the specialty, the assignment was done on the criterium of the workplace: hospital, polyclinic, private. If there is no clear distinction between the different locations, then the cluster is named "Mixed". Clusters less than 5 FTE or less than 0,5% of total FTE are left out. Comparison of clusters helps to understand differences in nature of work. Indicators :

- % FTE by type of cluster
- % type of activity (in Euro) / total reimbursement (in euro) by cluster





Accessibility, Insured Coverage (2022) : Stomatologist





Accessibility, Contacts per Insured (2022) : Stomatologist

Year

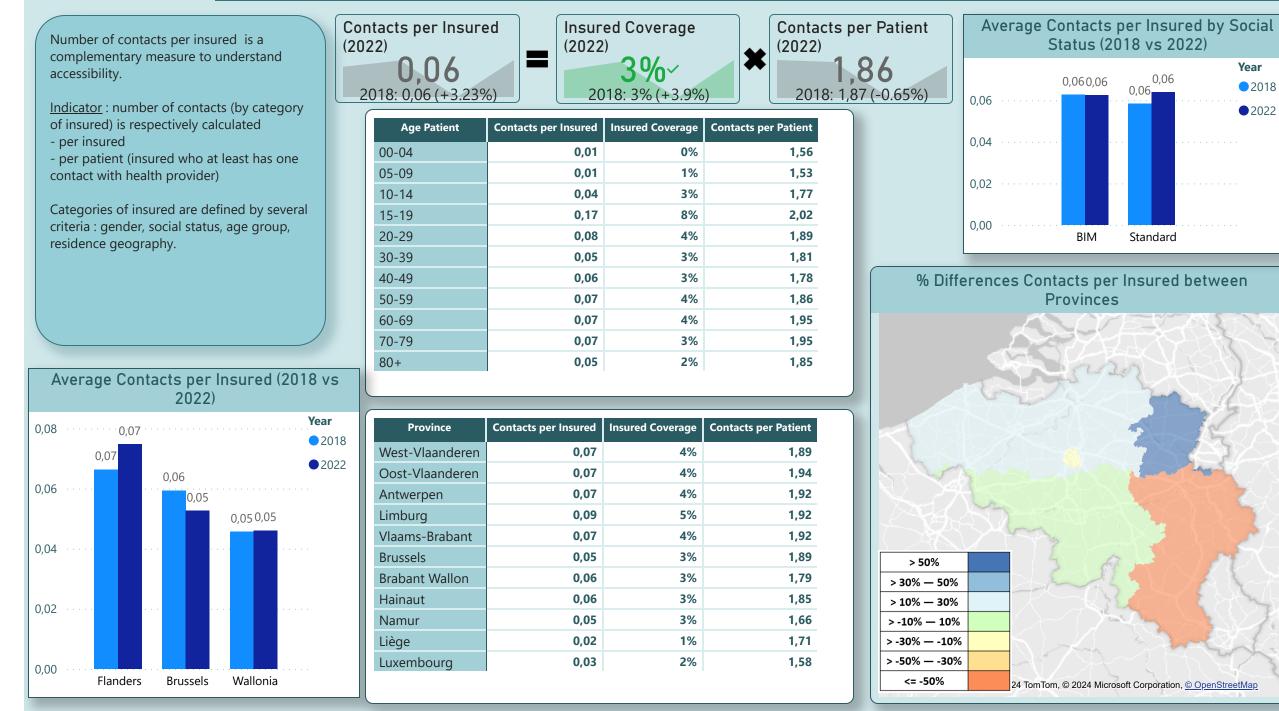
2018

2022

0,06

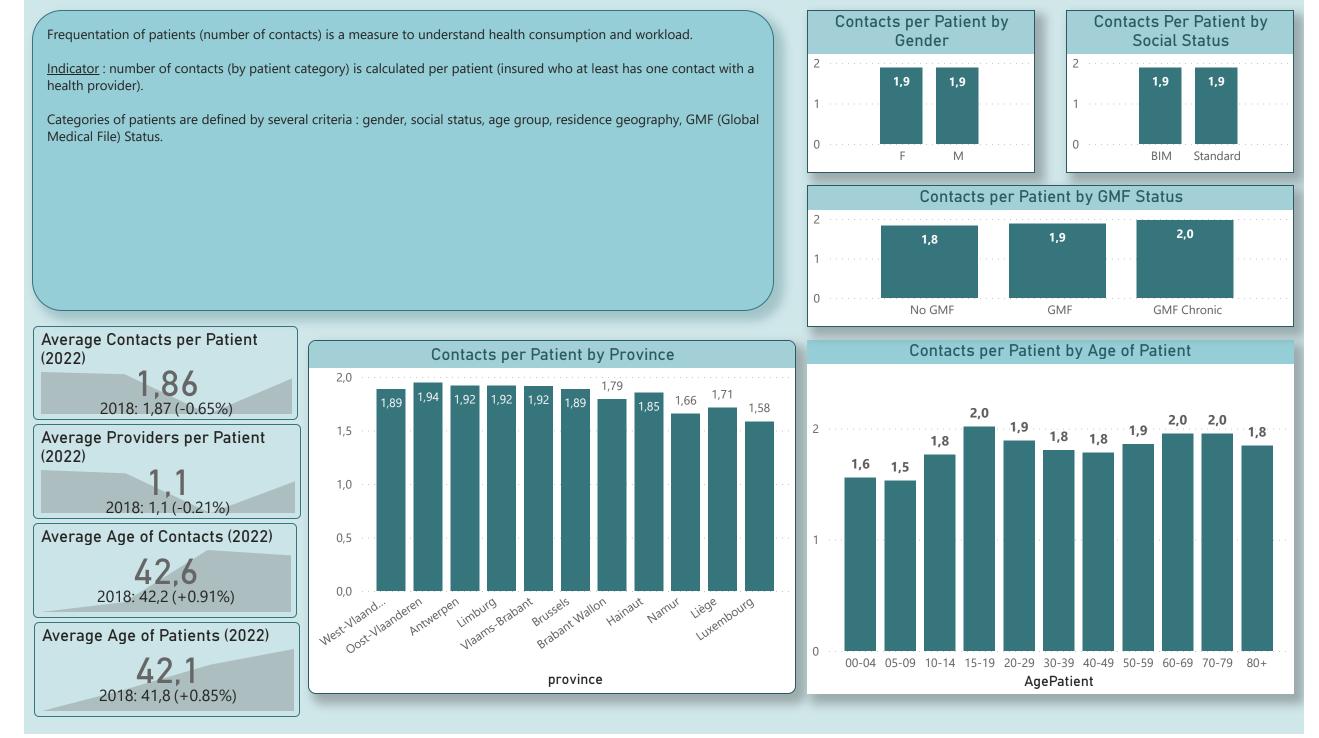
Standard

0,06



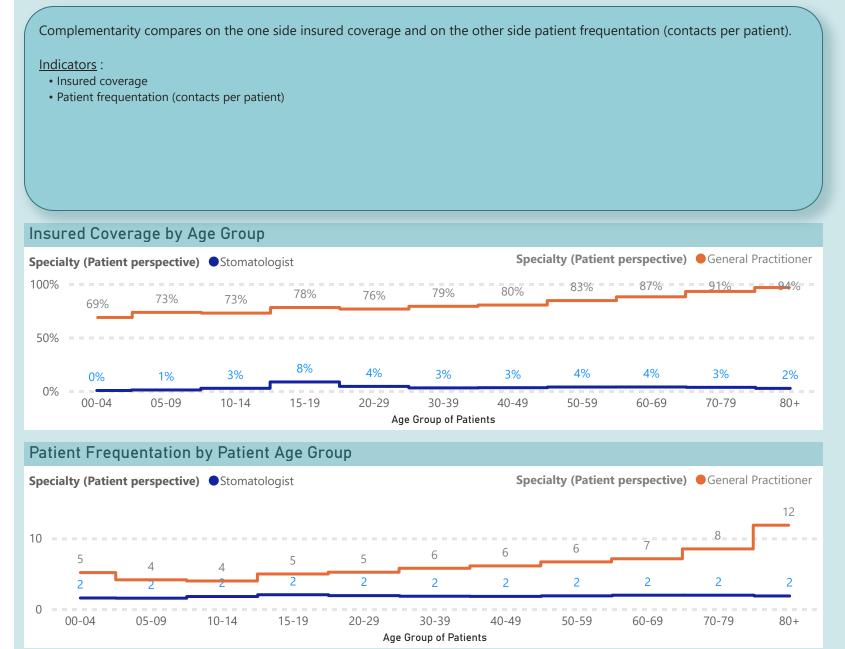


Patient Frequentation (2022) : Stomatologist





Complementarity with comparison group (2022) : Stomatologist







Workload (2022) : Stomatologist

1,7

1,7

1,7

1,8

Workload by specialty provides insight into the work volume per year of the specialty by FTE and the patient base population (Individual patients are allocated to one single professional per specialty per year to build the patient base population for each single professional/ provider) (N.B. Specialists in training are excluded). The classification criteria are linked to the healthcare professional (age, language, gender, work address, convention status, accreditation)

Indicators:

- Workload : contacts / FTE
- Patient base population: Patients / FTE
- Contacts per patient per provider

Limitation : working address of health professionals can be different than the location of patients. This can explain differences in workload results (contact/FTE, patients/FTE) and lead to misinterpretation for geographical criteria (province) especially for small numbers of working professionals. Also if the number of FTE by cell is inferior to 5, contacts per FTE and patients per FTE are hidden.

	(
Average Contacts per FTE (2022)	Province	Contacts per FTE	Patients Per FTE	Contacts per Patient and Provider		Gender	Contacts per FTE	Patients Per FTE	Contacts per Patien and Provider
	West-Vlaanderen	2.954	1.573	1,7		М	3.193	1.706	1,
3.191	Oost-Vlaanderen	3.007	1.526	1,8		F	3.186	1.651	1,
2018: 3316 (-3.77%)	Antwerpen	3.129	1.651	1,7		_			
	Limburg	3.579	1.903	1,7					
	Vlaams-Brabant	4.027	1.981	1,7		Language	Contacts per FTE	Patients Per FTE	Contacts per Patient
verage Patients per FTE (2022)	Brussels	3.238	1.693	1,6					and Provider
	Brabant Wallon	3.167	1.702	1,7		FR	3.191	1.691	1,5
1.691	Hainaut	3.330	1.804	1,7		NL	3.191	1.691	1,7
2018: 1771 (-4.51%)	Namur	2.489	1.545	1,4					
	Liège	2.880	1.832	1,5	ſ	Convention	Contacts per FTE	Patients Per FTE	Contacts per Patient
	Luxembourg	2.727	1.744	1,5					and Provider
verage Contacts per Patient and						Full	3.326	1.796	1,7
Provider (2022)						No	3.059	1.610	1,7
1,7 2018: 1,7 (-0%)	Age Class	Contacts per FTE	Patients Per FTE	Contacts per Patient and Provider		Partial	3.246	1.664	1,7
2010. 1,7 (-078)	34 -	3.062	1.709	1,6					

1.631

1.643

1.785

1.849

3.179

3.085

3.266

3.624

35-44

45-54

55-64

65 +

Accredited	Contacts per FTE	Patients Per FTE	Contacts per Patient and Provider
No	2.984	1.637	1,7
Yes	3.297	1.719	1,7



Healthcare workforce demographics present active professionals having more than one activity per year on the <u>left side</u> of the page, while Full-Time Equivalents (FTE) are displayed on the <u>right side</u>. The analysis spans the past decade and is segmented by professional characteristics such as age class, gender, and language.

Active indicators (Left):

- Number of Actives (>1 prestation /accounting year) and its % growth rate over the past decade.
- Replacement Rate: Active professionals above 55 years compared to those below 55 years.
- Inactivity: % of inactive professionals in relation to the total.
- New Active Providers per Year: Annual influx of new providers (derived from linear regression over the past decade to estimate the average rate).

FTE indicators (Right):

- Equal proportion of gender: Indicates the percentage of female FTE in relation to the total FTE.
- Average FTE: Indicates the level of activity by dividing the FTE below 65 years with the total active workforce.



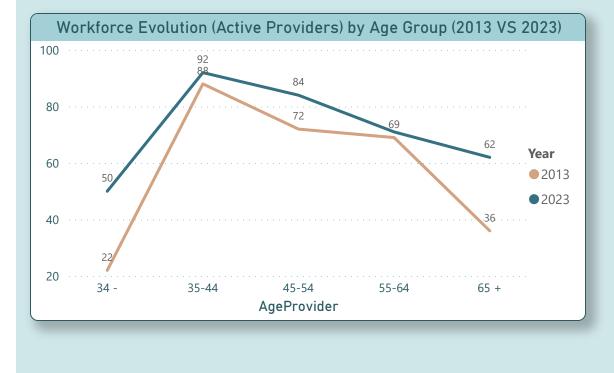


Demographic Evolution by Age Group (2023) : Stomatologist

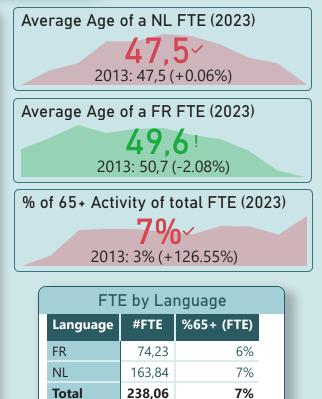
Demographic evolution by age group and activity of professionals above 65 years (provides information on the demographic stability).

Indicators :

- Trend in age group distribution (active/FTE),
- Age FTE : average of a professional's age weighted by its corresponding Full-Time Equivalent (FTE) value, by language of the provider.
- Contribution of older practitioners to the overall activity: % 65+ FTE/ Total FTE







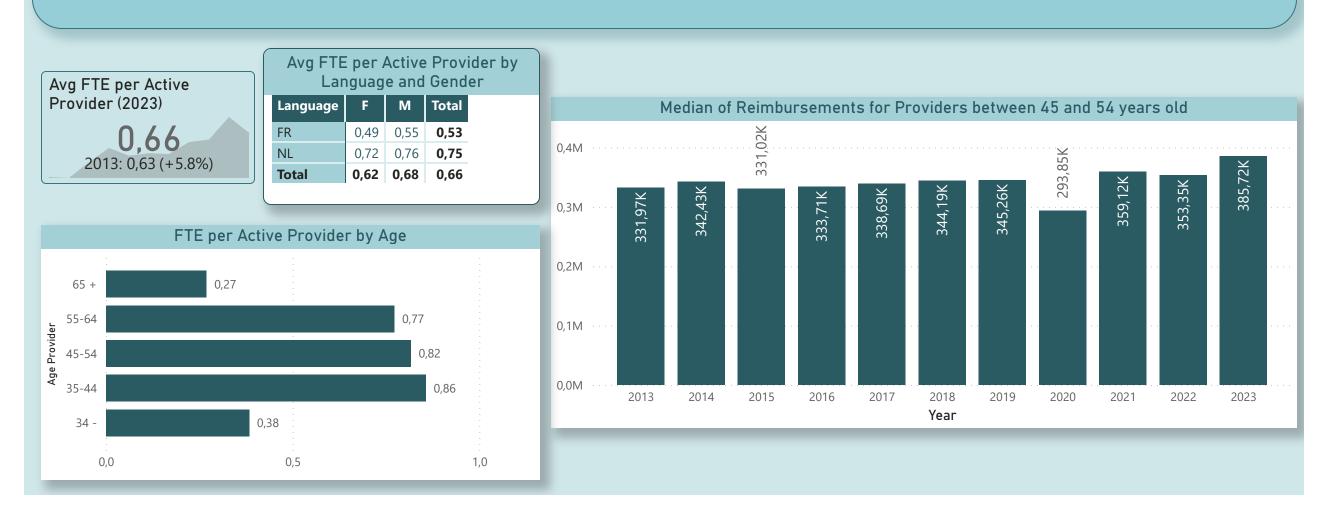


<u>FTE (full-time equivalent)</u> is calculated to determine the workload of a healthcare provider (= total reimbursements by provider in a given year divided by the median of reimbursements for providers aged 45 to 54 in the same specialty).

The median amount of reimbursement for providers aged 45 to 54 is calculated each year. Evolution is not adjusted for inflation.

FTE values are capped at 1. See the comparison per active provider by sex, language and age group.

N.B. The FTE for employed doctors in medical homes (lump sum financing) was estimated at 0,82 per doctor because the actual FTE cannot be evaluated given the absence of activity registration.

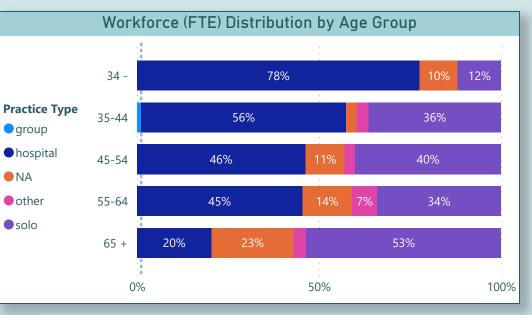


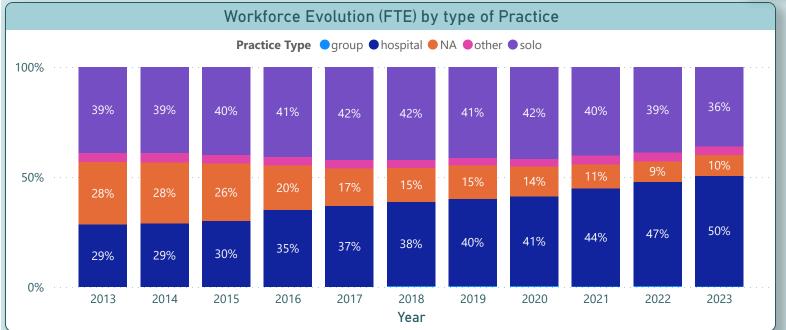


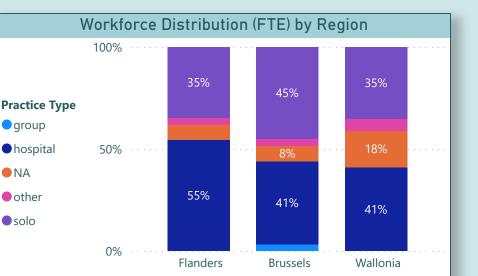
Annex 2: Type of Practice (2023) : Stomatologist

Type of practice (FTE) by age group and region. Evolution and trends

- 5 types of practices are represented:
- Nursing home: represents care facilities for the elderly or individuals requiring psychiatric care.
- Group: represents collective practices or facilities where professionals work together (ex: medical house with lumpsum, mental health center, day care center, public pharmacies, medical laboratories, bandagist/orthopedist workshops).
- Hospital: represents hospitals or medical establishments (ex: general hospitals, psychiatric hospitals, hospital pharmacies)
- Solo: represents individual practitioners or private addresses.
- Other: represents facilities or organizations not falling into the above categories (ex: physiotherapy office, tariff office, organizations with a registered business number)
- N.B. Not Available (NA) values are decreasing over time as the database becomes increasingly complete.







Region