

Health Professionals Report : Capacity, Accessibility and Production

Specialty of Interest : Physical Medicine

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Contents
Introduction
Specialty Metrics and Comparison
Geographical Accessibility
Financial Accessibility
Continuous Professional Development
Activity Level, Working Place and Composition
Subspecialties Activity and Working Place
Accessibility, Insured Coverage
Accessibility, Insured Frequentation
Patient Frequentation
Frequentation Complementarity
Workload
Evolution of the Workforce Demography
Demographic Evolution by Age Group
Annex 1 : FTE Details
Annex 2 : Types of Practice



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

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Additional information

For official information regarding the number of healthcare providers :

- NIHDI : please click <u>FR | NL</u>
- MOH : please click <u>FR | NL</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. Weighted conventioned FTE refers to the adjusted calculation where FTEs for partially conventioned providers are multiplied by 0,5.
- Working place : 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).



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

			Physical Medicine	Internal Pathology	Internal Datheless
Competency Code	Physical Medicine Description	# N SubSpecialities	1	13	Internal Pathology Profession Cardiologist
10795	Physical Medicine and Rehabilitation and Rheumatology Specialists with recognition in functional and professional rehabilitation for the disabled	# N Total	687	9,346	Dermatologist Endocrinologist Gastroenterologist
10796	Rheumatology and Physical Medicine and Rehabilitation Specialists	# N Active	554	7,538	General Internal Medicine Geriatrician
10830 10834	Physical Medicine and Rehabilitation Specialists Physical Medicine and Rehabilitation Specialists with recognition in functional and professional rehabilitation for the disabled	# Full-Time Equivalent (FTE)	331	5,194	Hematologist Medical Oncologist Neurologist
		€ Expenses per FTE	800,285	427,666	Physical Medicine Pulmonologist Radiotherapist
		65+	% Active % FTE 16% 7%	% Active % FTE 14% 8%	Rheumatologist
		Convention Weighted Convention Accreditation	% Active% FTE64%60%60%56%84%93%	% Active % FTE 79% 78% 76% 74% 84% 92%	

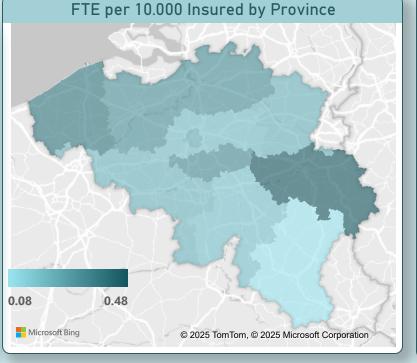


Geographical Accessibility (2023) : Physical Medicine

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.

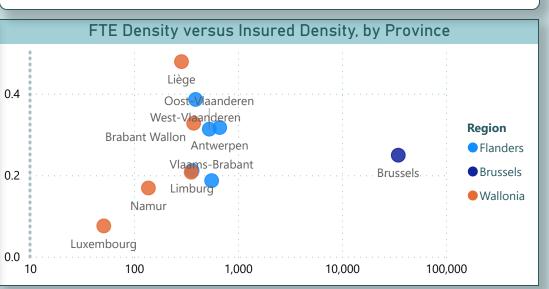
Indicators :

- 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.



F	TE pe	er 10	.000	Ins	ured	d, by	Reg	gion	(201	3 vs 2023)
0.3		. 0.28	0.29			0.25		. 0.28	0.29	Year
0.2					0.20					• 2023
0.1										
0.0		Flar	nders		Bru	ssels		Wal	lonia	

Demographic Information by Province								
Province	#FTE	Density (FTE per 10.000 Insured)	%65+ (FTE)	%Women (FTE)				
West-Vlaanderen	47.44	0.39	3%	48%				
Oost-Vlaanderen	49.46	0.31	6%	42%				
Antwerpen	60.64	0.32	4%	49%				
Limburg	18.55	0.21	2%	30%				
Vlaams-Brabant	21.95	0.19	3%	57%				
Brussels	28.60	0.25	9%	64%				
Brabant Wallon	13.40	0.33	13%	69%				
Hainaut	27.87	0.21	16%	57%				
Namur	8.52	0.17	2%	69%				
Liège	52.92	0.48	11%	50%				
Luxembourg	1.72	0.08	0%	35%				
Total	331.07	0.29	7%	51%				



FTE per 10.000 Insured in Belgium (2023) 0.29~ 2013: 0.27 (+4.84%)



% Weighted

Conventioned

FTE

Financial accessibility is measured by the number of weighted conventioned FTE (Full time equivalent) by 10.000 insured. Weighted conventioned FTE refers to the adjusted calculation where FTEs for partially conventioned providers are multiplied by 0,5.

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.

Demographic Information by Province

Density

(FTE per

10.000

Density (Weighted

Conventioned FTE per

10.000 Insured)

Indicators :

(2023)

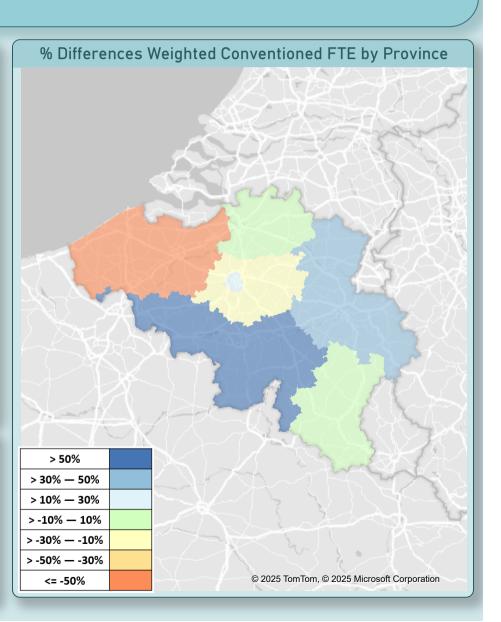
• % FTE meeting the criteria / total FTE

% Weighted Conventioned FTE

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

	- 5	569	<u>// I</u>					Insured)		0.000 1	isarca	'		
			(-9.41%	6)		West-V	laanderen	n 0.39)			0.11	2	27%
						Oost-VI	aanderen	0.3	1			0.06	1	19%
						Antwer	pen	0.32	2			0.20	6	62%
% Conve			-	Language		Limburg	9	0.2	1			0.16	7	76%
		nd Reg	1			Vlaams	-Brabant	0.19	9			0.09	2	47%
nguage	Part	Full	Total	Weighted		Brussels	5	0.25	5			0.18	7	71%
R	4%	74%	82%	78%		Brabant	: Wallon	0.33	3			0.13	2	41%
IL	3%	39%	45%	42%		Hainaut	:	0.2				0.21	ç	99%
Total	3%	53%	60%	56%		Namur		0.17	7			0.15	ç	90%
	•					Liège		0.48	3			0.37	7	77%
						Luxemb	ourg	0.08	3			0.04	5	58%
						Total		0.29)			0.16	5	56%
			Voluti	on of Weigl	tod	Canvant	tioned E		o (201)	2 2 2	000)			
			votuti	on or weigi	leu	Convent	loneu r	TE DY AY		3 VS ZI	023)			
	73%	•		63%		58%	57%	65%	57%	5	59%	64%		
)% · · · · · ·		50	%						5176					ar 2013 2023
00/														1023
0%		34 -		35-44			-54	55-			65 -			

Province





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).

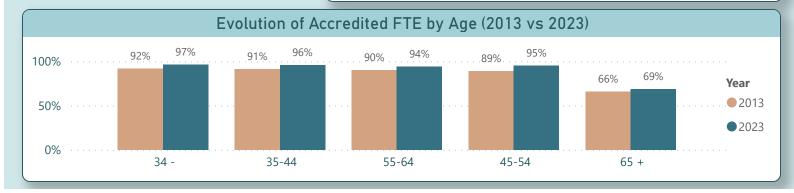
Indicator :

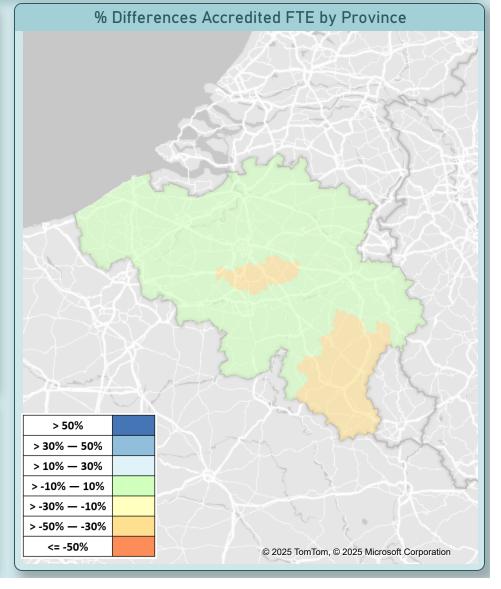
• % FTE meeting the criteria / total FTE

% Accredited FTE (2023)	
93%	
2013: 89% (+5.03%)	

	% Accredited FTE by Language and Gender									
	Language	F	м	Total						
	FR	92%	86%	89%						
	NL	99%	94%	96 %						
	Total	96%	91%	93%						
L										

Demographic Information by Province								
Province	Density (FTE per 10.000 Insured)	Density (Accredited FTE per 10.000 Insured)	% Accredited FTE					
West-Vlaanderen	0.39	0.38	97%					
Oost-Vlaanderen	0.31	0.30	95%					
Antwerpen	0.32	0.30	95%					
Limburg	0.21	0.21	97%					
Vlaams-Brabant	0.19	0.19	99%					
Brussels	0.25	0.22	88%					
Brabant Wallon	0.33	0.20	60%					
Hainaut	0.21	0.19	89%					
Namur	0.17	0.16	97%					
Liège	0.48	0.47	97%					
Luxembourg	0.08	0.05	60%					
Total	0.29	0.27	93%					





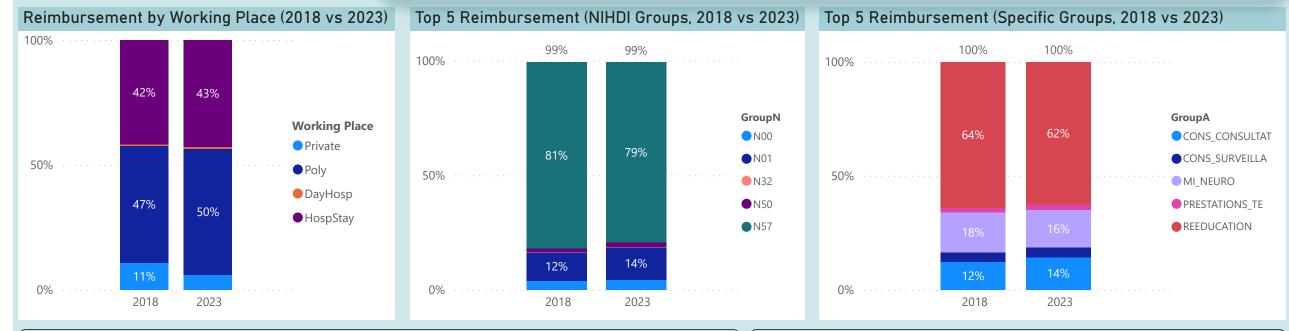


	criteria: the place of work and the nature of t
Reimbursement by FTE (2023)	The place of work is the place where the activiThe nature of the activity is described accordir
801,954	etc.) and a specific, more detailed breakdown Indicators :
2018: 687,705 (+16.61%)	 Reimbursement (in Euros) / FTE % Reimbursement (in Euros) by category / tota

The level of activity is measured by the total reimbursement amount of the specialty. The distribution of the reimbursement by specialty allows to 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 he activity:

- ity takes place (private, polyclinic, day hospital, hospital stay).
- ng to 2 logics of grouping. The traditional distribution of reimbursements within NIHDI (N01 contacts, N20 surgery, to identify sub-specialties within the specialty (i.e. cardiac surgery within surgery).
- al reimbursement (in Euros)

The evolution provides information on the stability of the patterns of the activity comparing year N with N-5.



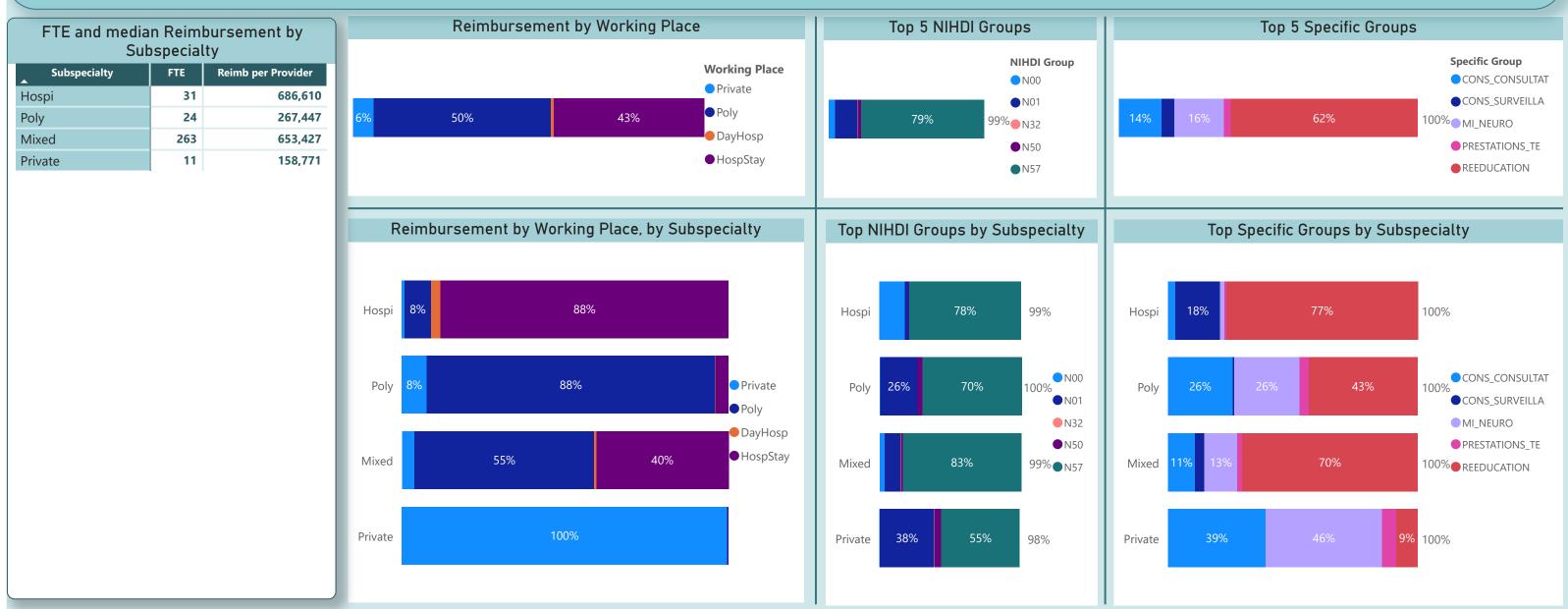
GroupN ▲	Description
N00	Supervision of hospitalized beneficiaries
N01	Consultations visits and medical advices
N32	Orthopedics
N50	X-ray diagnosis
N57	Physical therapy

GroupA	Description
CONS_CONSULTAT	Consultation
CONS_SURVEILLA	Monitoring
MI_NEURO	Neurology
PRESTATIONS_TE	Technic prest.
REEDUCATION	Rehabilitation

Subspecialties Activity and Working Place (2023) : Physical Medicine

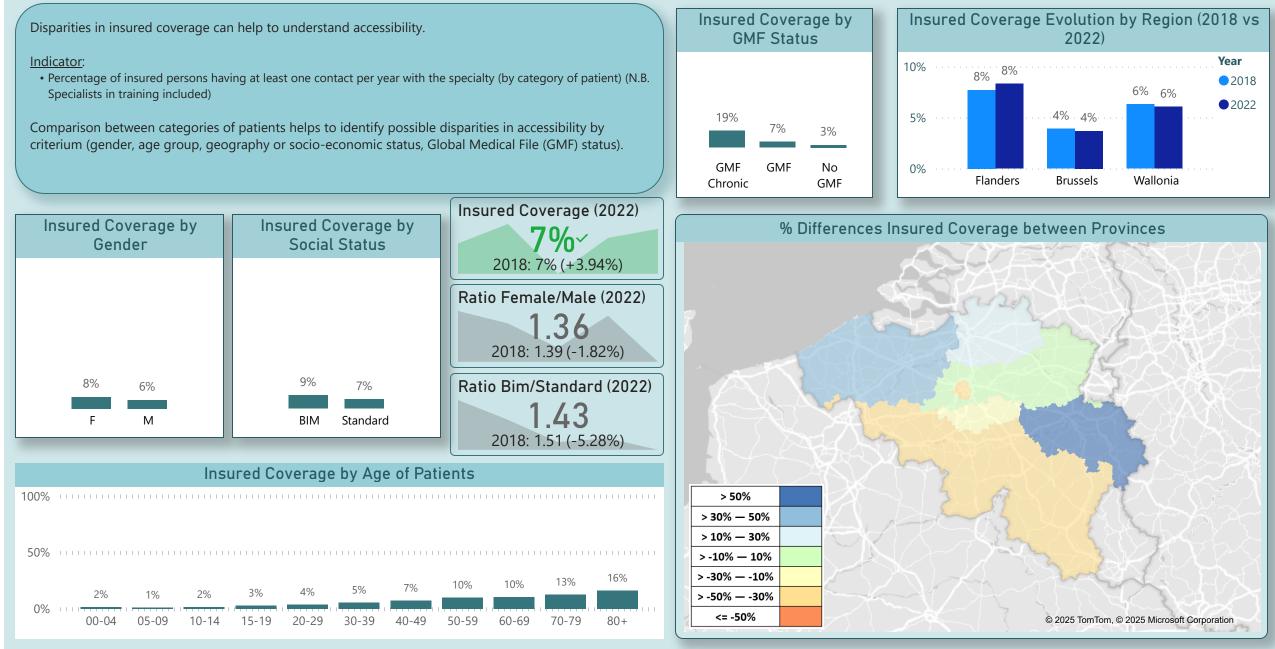
Subspecialties are identified by the working place and/or type of activity (see previous page): the assignment of a health care provider to a sub-specialty prioritizes the type of activity exercised. In general, the type of activity with the most reimbursements, if the amount exceeds 10% of reimbursements 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



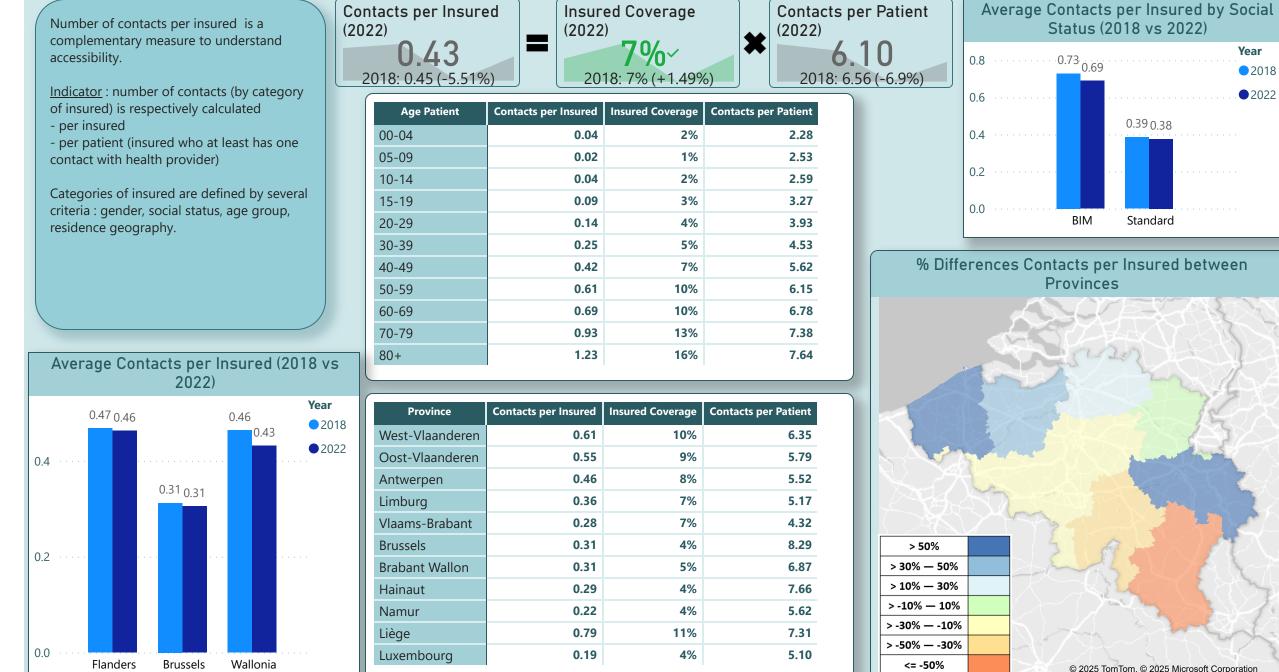


Accessibility, Insured Coverage (2022) : Physical Medicine





Accessibility, Contacts per Insured (2022) : Physical Medicine



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Year

2018

2022

0.390.38

Standard

BIM

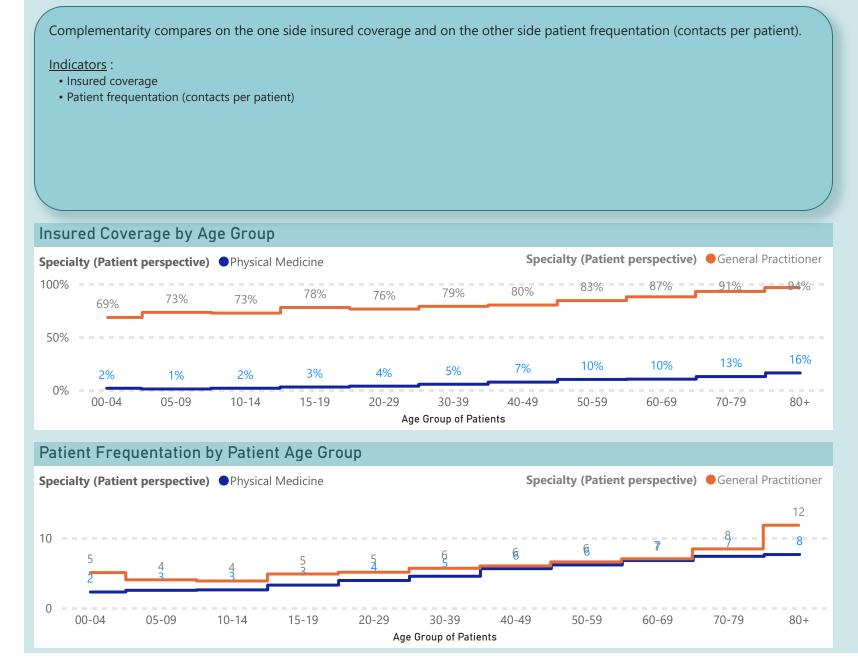


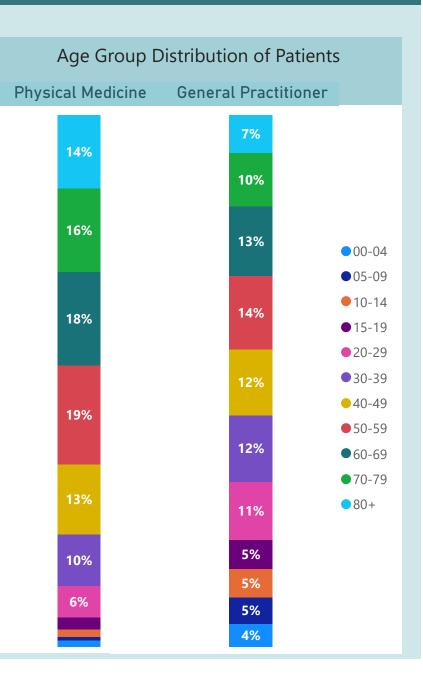
Patient Frequentation (2022) : Physical Medicine





Complementarity with comparison group (2022) : Physical Medicine







Workload (2022) : Physical Medicine

Contacts per Patient and Provider

3.9

3.3

3.5

3.4

3.1

5.3

4.4

5.9

2.7

3.1

4.2

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

3.7 2018: 4.1 (-10.16%)

• 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.

	Province	Contacts per FTE	Patients Per FTE
Average Contacts per FTE (2022)	^		
1/001	West-Vlaanderen	15,633	2,406
14,891	Oost-Vlaanderen	17,710	3,185
2018: 16189 (-8.01%)	Antwerpen	14,728	2,738
	Limburg	15,785	2,928
	Vlaams-Brabant	11,528	2,591
erage Patients per FTE (2022)	Brussels	15,093	2,066
	Brabant Wallon	11,599	1,306
2,437 2018: 2471 (-1.38%)	Hainaut	10,787	1,400
	Namur	10,290	2,048
	Liège	16,879	2,340
	Luxembourg	10,289	1,632
rage Contacts per Patient and vider (2022)			

Age Class	Contacts per FTE	Patients Per FTE	Contacts per Patient and Provider
34 -	10,826	2,040	3.3
35-44	14,192	2,188	3.9
45-54	15,265	2,471	3.5
55-64	17,188	2,798	3.7
65 +	13,041	2,381	4.0

Gender	Contacts per FTE	Patients Per FTE	Contacts per Patient and Provider
F	13,815	1,999	4.0
Μ	15,944	2,865	3.5

Language	Contacts per FTE	Patients Per FTE	Contacts per Patient and Provider
FR	14,033	1,921	4.1
NL	15,450	2,773	3.5

Convention	Contacts per FTE	Patients Per FTE	Contacts per Patient and Provider
Full	14,398	2,134	4.1
No	15,402	2,734	3.4
Partial	15,758	3,077	2.9

Accredited	Contacts per FTE	Patients Per FTE	Contacts per Patient and Provider
No	11,886	1,875	4.5
Yes	15,108	2,478	3.6

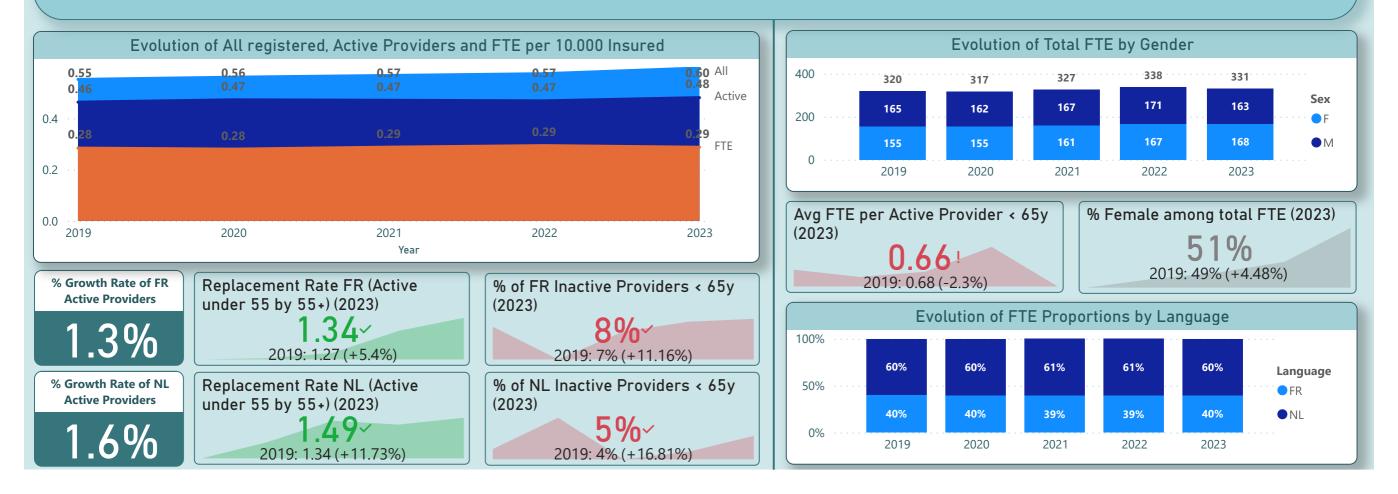


Healthcare workforce demographics present active professionals having more than one activity per year on the <u>left side</u> of the page, while Full-Time Equivalents (FTE) are displayed on the <u>right side</u>. The analysis spans the past decade and is segmented by professional characteristics such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

- Number of Actives (>1 prestation /accounting year) and its % growth rate over the past 5 years.
- Replacement Rate: Active professionals above 55 years compared to those below 55 years.
- Inactivity: % of inactive professionals in relation to the total.

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.



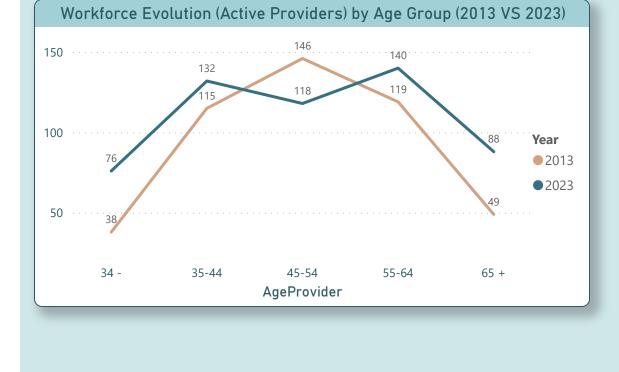


Demographic Evolution by Age Group (2023) : Physical Medicine

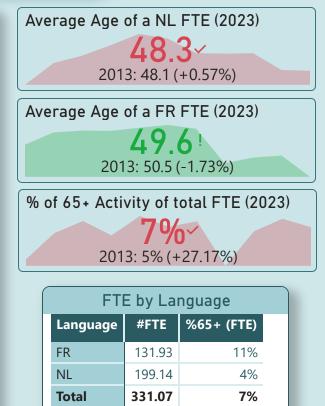
Demographic evolution by age group and activity of professionals above 65 years (provides information on the demographic stability).

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







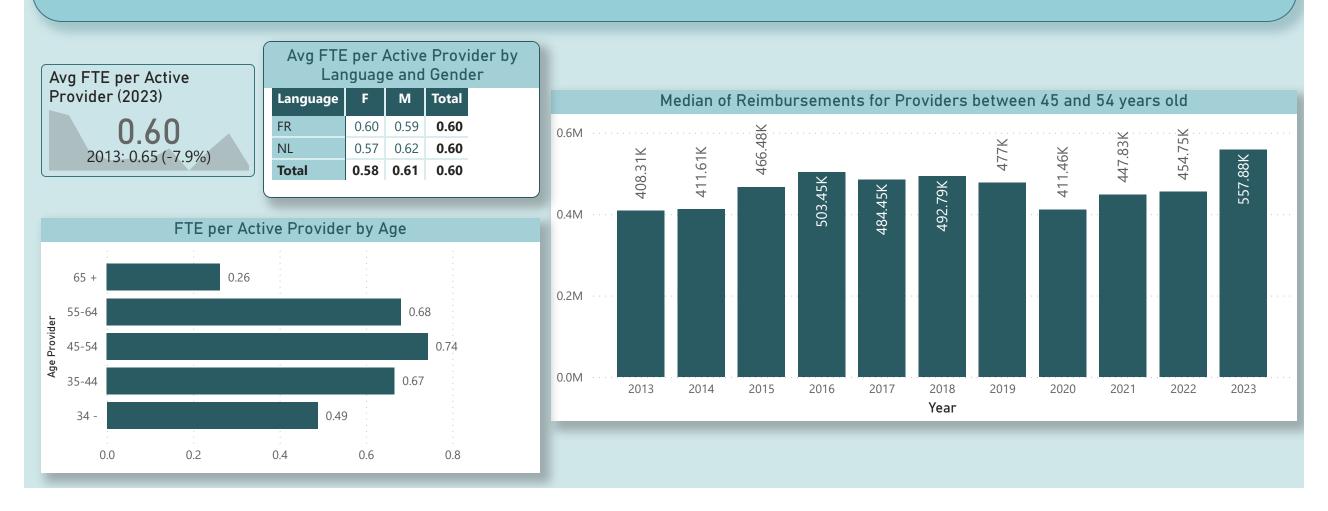


<u>FTE (full-time equivalent)</u> is calculated to determine the workload of a healthcare provider (= total reimbursements by provider in a given year divided by the median of reimbursements for providers aged 45 to 54 in the same specialty).

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) : Physical Medicine

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, physiotherapy office).
- 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: tariff office, organizations with a registered business number)

N.B. Not Available (NA) values are decreasing over time as the database becomes increasingly complete.

