

Health Professionals Report : Capacity, Accessibility and Production

Specialty of Interest : Rheumatologist

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>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).



Speciality Metrics and Comparison (2023) : Rheumatologist

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

			Rheumatologist	Internal Pathology	_ Internal Pathology
Competency Code	Rheumatologist Description	# N SubSpecialities	1	13	Profession Cardiologist
10593 10790	Internal Medicine and Rheumatology Specialists Rheumatology Specialists	# N Total	320	9,346	Dermatologist Endocrinologist Gastroenterologist
10794	Rheumatology Specialists with recognition in functional and professional rehabilitation for the disabled	# N Active	255	7,538	General Internal Medicine Geriatrician
		# Full-Time Equivalent (FTE)	186	5,194	Hematologist Medical Oncologist Neurologist
		€ Expenses per FTE	257,030	427,666	Physical Medicine Pulmonologist Radiotherapist
		65+	% Active % FTE 20% 13%	% Active % FTE 14% 8%	Rheumatologist
		Convention Weighted Convention Accreditation	% Active % FTE 75% 74% 70% 68% 91% 97%	% Active % FTE 79% 78% 76% 74% 84% 92%	



Geographical Accessibility (2023) : Rheumatologist

Year

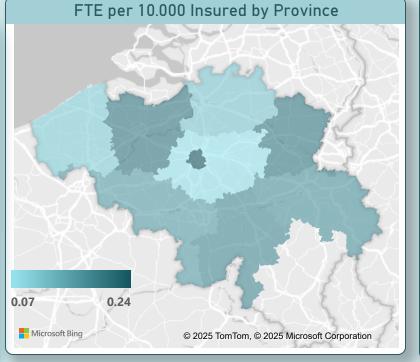
2013

•2023

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.



FTE per 10.000 Insured, by Region (2013 vs 2023)

0.24

Brussels

0.17

0.16

Wallonia

0.21

0.15

0.12

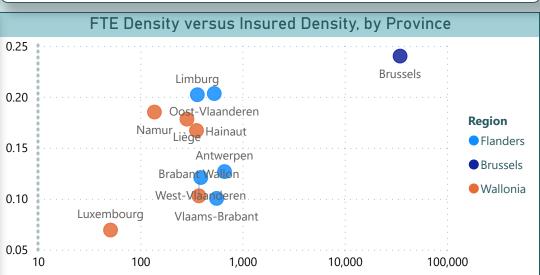
Flanders

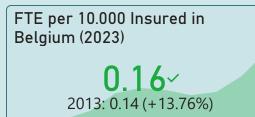
0.2

0.1

0.0

Demographic Information by Province					
Province	#FTE	Density (FTE per 10.000 Insured)	%65+ (FTE)	%Women (FTE)	
West-Vlaanderen	14.86	0.12	9%	55%	
Oost-Vlaanderen	32.11	0.20	11%	69%	
Antwerpen	24.24	0.13	8%	68%	
Limburg	17.73	0.20	11%	62%	
Vlaams-Brabant	11.80	0.10	0%	46%	
Brussels	27.55	0.24	18%	44%	
Brabant Wallon	4.21	0.10	29%	36%	
Hainaut	22.45	0.17	21%	47%	
Namur	9.34	0.19	31%	33%	
Liège	19.70	0.18	9%	59%	
Total	183.99	0.16	13%	56%	







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.

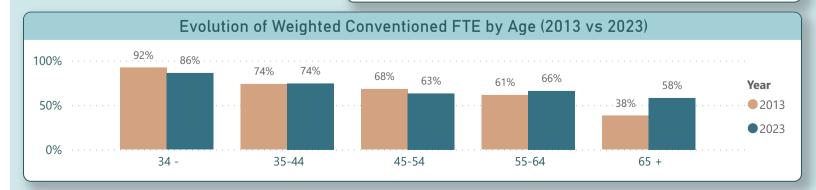
Indicators :

- % FTE meeting the criteria / total FTE
- Financial accessibility is gauged by weighted conventioned FTE (Full Time Equivalent) per 10.000 insured.

	68%~
2013	: 66% (+3.76%)

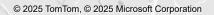
% Conventioned FTE by Language and Regime				
Language	Part	Full	Total	Weighted
FR	8%	64%	81%	73%
NL	4%	60%	68%	64%
Total	6%	62%	74%	68%

Demographic Information by Province				
Province	Density (FTE per 10.000 Insured)	Density (Weighted Conventioned FTE per 10.000 Insured)	% Weighted Conventioned FTE	
West-Vlaanderen	0.12	0.09	77%	
Oost-Vlaanderen	0.20	0.11	56%	
Antwerpen	0.13	0.11	84%	
Limburg	0.20	0.08	38%	
Vlaams-Brabant	0.10	0.06	61%	
Brussels	0.24	0.16	67%	
Brabant Wallon	0.10	0.05	52%	
Hainaut	0.17	0.12	74%	
Namur	0.19	0.15	82%	
Liège	0.18	0.15	82%	
Total	0.16	0.11	68%	



	-
> 50%	
> 30% — 50%	
> 10% — 30%	
> -10% — 10%	
> -30% — -10%	
> -50% — -30%	
<= -50%	

% Differences Weighted Conventioned FTE by 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).

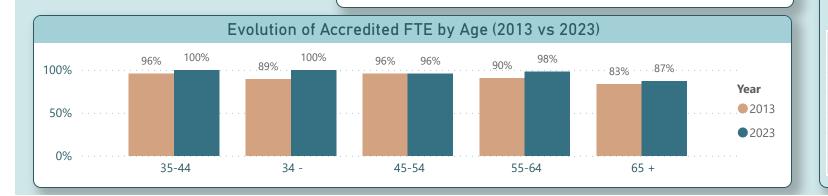
Indicator :

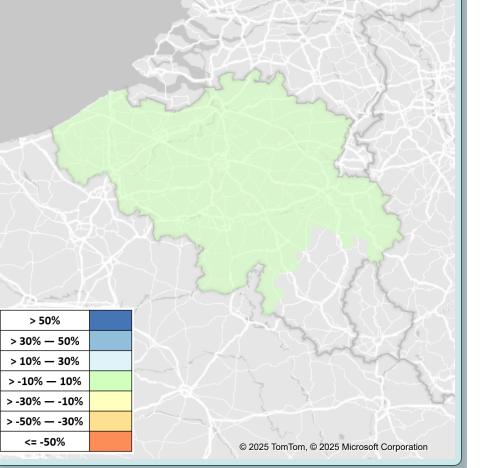
• % FTE meeting the criteria / total FTE

% Accredited FTE (2023)
97%
2013: 93% (+4.14%)

% Accredited FTE by Language and Gender					
	Language	F	М	Total	
	FR	95%	94%	95%	
	NL	98%	98%	98%	
	Total	97%	96%	97 %	
L					

Demographic Information by Province					
Province	Density (FTE per 10.000 Insured)	Density (Accredited FTE per 10.000 Insured)	% Accredited FTE		
West-Vlaanderen	0.12	0.12	97%		
Oost-Vlaanderen	0.20	0.20	99%		
Antwerpen	0.13	0.13	100%		
Limburg	0.20	0.20	100%		
Vlaams-Brabant	0.10	0.09	89%		
Brussels	0.24	0.22	94%		
Brabant Wallon	0.10	0.10	94%		
Hainaut	0.17	0.16	97%		
Namur	0.19	0.16	89%		
Liège	0.18	0.18	99%		
Total	0.16	0.16	97%		





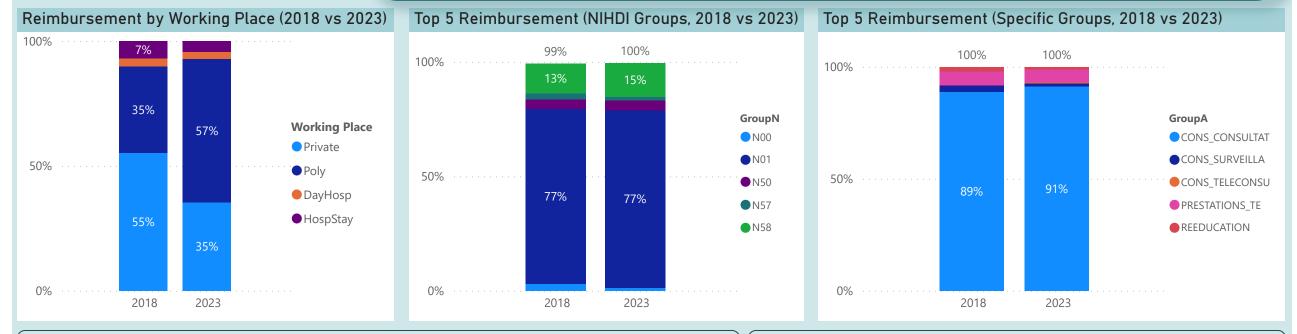
% Differences Accredited FTE by Province



Subspecialties Activity and Working Place : Rheumatologist

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

Reimbursement by FTE (2023)	 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). The nature of the activity is described according to 2 logics of grouping. The traditional distribution of reimbursements within NIHDI (N01 contacts, N20 surgery,
257,307	etc.) and a specific, more detailed breakdown to identify sub-specialties within the specialty (i.e. cardiac surgery within surgery). Indicators :
2018: 215,262 (+19.53%)	 Reimbursement (in Euros) / FTE % 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	
N00	Supervision of hospitalized beneficiaries	
N01	Consultations visits and medical advices	
N50	X-ray diagnosis	
N57	Physical therapy	
N58	Rheumatology	

GroupA	Description
CONS_CONSULTAT	Consultation
CONS_SURVEILLA	Monitoring
CONS_TELECONSU	Teleconsult.
PRESTATIONS_TE	Technic prest.
REEDUCATION	Rehabilitation

Subspecialties Activity and Working Place (2023): Rheumatologist

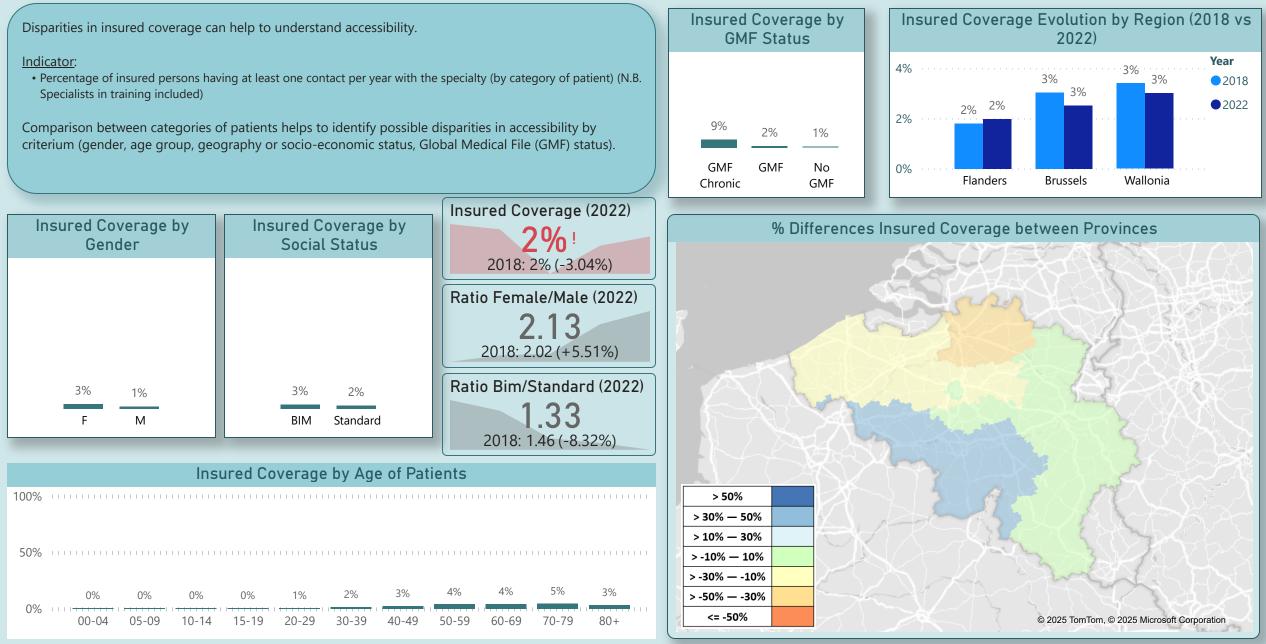
Subspecialties are identified by the working place and/or type of activity (see previous page): the assignment of a health care provider to a sub-specialty prioritizes the type of activity exercised. In general, the type of activity with the most reimbursements, if the amount exceeds 10% of reimbursements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



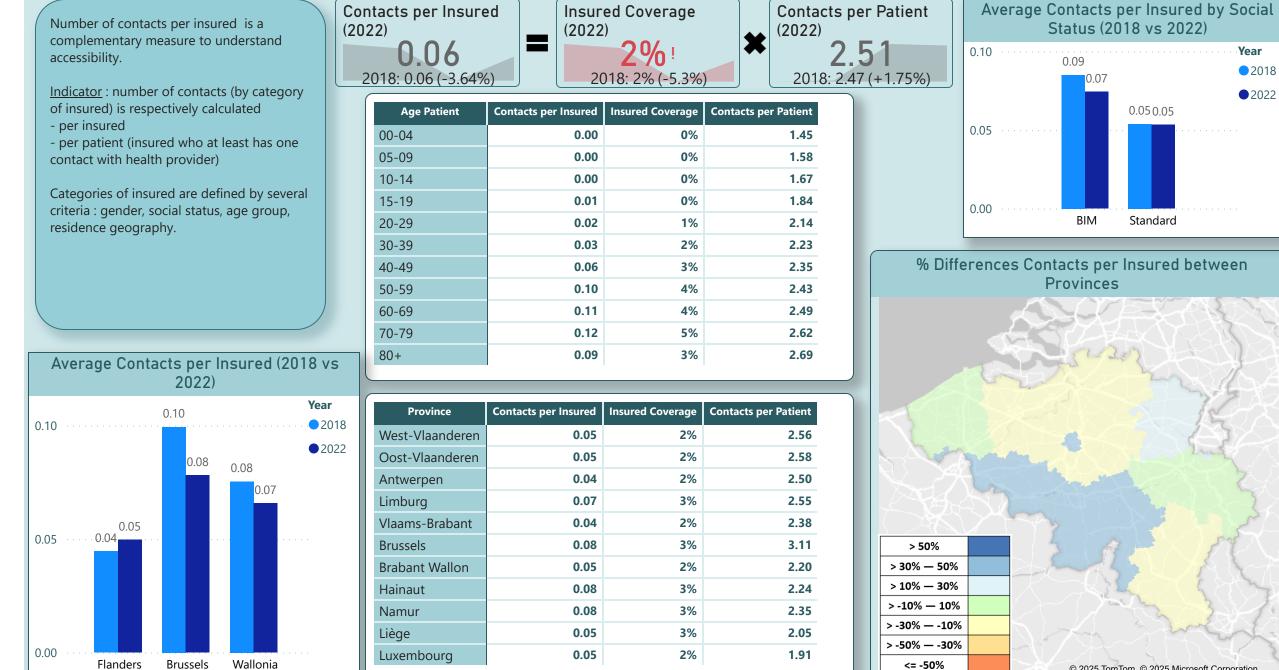


Accessibility, Insured Coverage (2022) : Rheumatologist





Accessibility, Contacts per Insured (2022) : Rheumatologist



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Year

2018

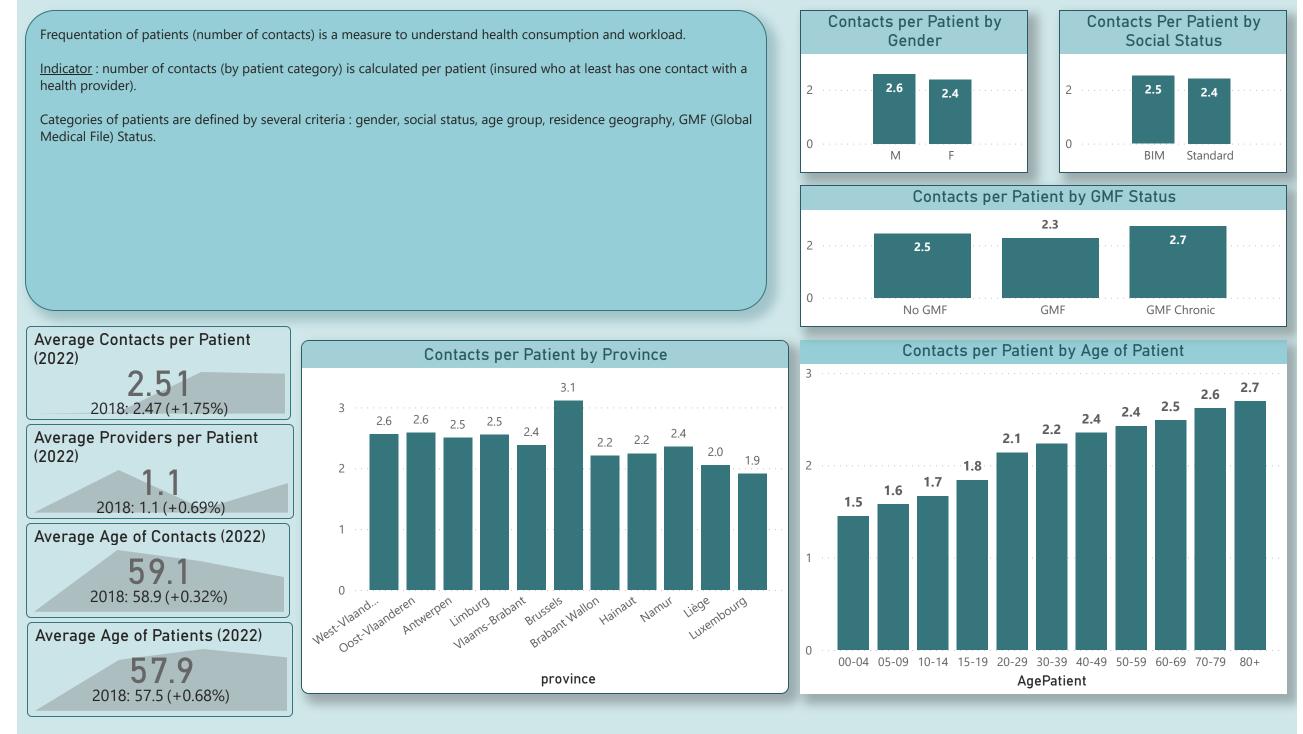
2022

0.050.05

Standard



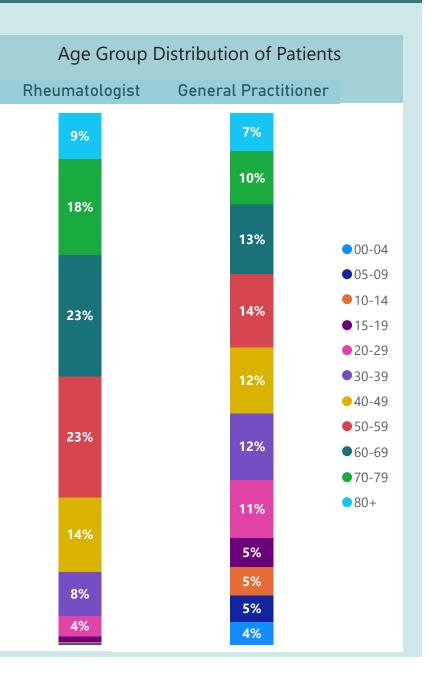
Patient Frequentation (2022) : Rheumatologist





Complementarity with comparison group (2022) : Rheumatologist







Workload (2022) : Rheumatologist

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.

1,275

1,449

1,833

1,536

2.2

2.2

2.3

2.3

Average Contacts per FTE (2022)	Province	Contacts per FTE	Patients Per FTE	Contacts per Patient and Provider	Gender	Contacts per FTE	
	West-Vlaanderen	3,818	1,490	2.4	F	3,169	
3,751	Oost-Vlaanderen	3,170	1,223	2.3	М	4,438	
2018: 3973 (-5.58%)	Antwerpen	2,875	1,148	2.3			
	Limburg	3,825	1,480	2.4			
	Vlaams-Brabant	3,387	1,641	1.7	Language	Contacts per FTE	438 FTE P 256 328 TE Pa
Average Patients per FTE (2022)	Brussels	5,197	1,764	2.6	^		
	Brabant Wallon	5,344	2,153	2.3	FR		4,438
1,532	Hainaut	4,069	1,870	2.0	NL	3,328	
2018: 1609 (-4.79%)	Namur	4,391	1,905	2.2			
)	Liège	3,130	1,497	1.9	Convention	Contacts nor ETE	TE D
	Luxembourg	2,646	1,644	1.5	Convention		ra
Average Contacts per Patient and					Full	3,565	
Provider (2022)					No	4,493	
2.2	Age Class	Contacts per FTE	Patients Per FTE	Contacts per Patient and Provider	Partial	3,238	
2018: 2.2 (-1.11%)	34 -	3,269	1,510	1.9			

3,168

3,604

4,473

3,793

35-44

45-54

55-64

65 +

Accredited	Contacts per FTE	Patients Per FTE	Contacts per Patient and Provider
No	6,187	2,328	2.4
Yes	3,635	1,494	2.2

Patients Per FTE

1,368

1,726

1,777

1,327

1,498

1.680

1,414

Patients Per FTE

Patients Per FTE Contacts per Patient

Contacts per Patient and Provider

and Provider

Contacts per Patient and Provider

2.1

2.3

2.2

2.3

2.2

2.5

1.9

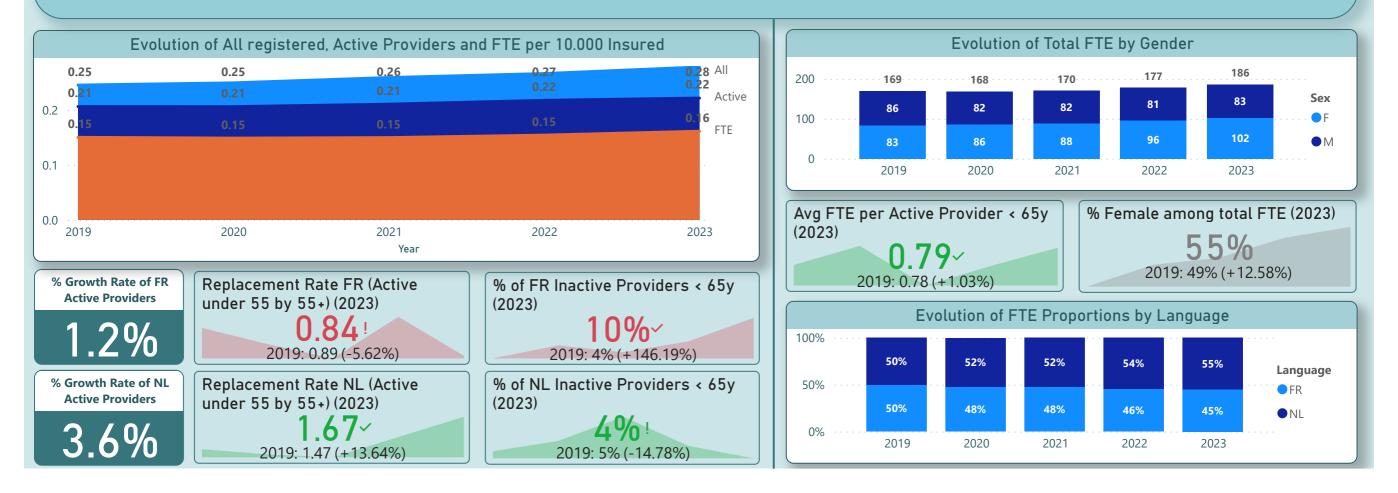


Healthcare workforce demographics present active professionals having more than one activity per year on the <u>left side</u> of the page, while Full-Time Equivalents (FTE) are displayed on the <u>right side</u>. The analysis spans the past decade and is segmented by professional characteristics such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



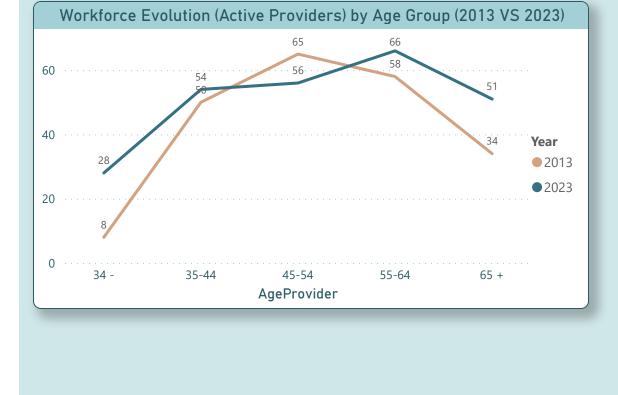


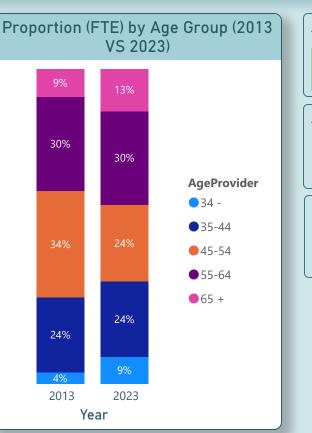
Demographic Evolution by Age Group (2023) : Rheumatologist

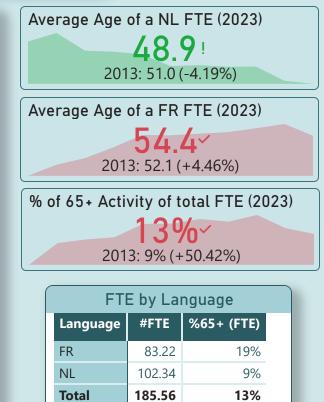
Demographic evolution by age group and activity of professionals above 65 years (provides information on the demographic stability).

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







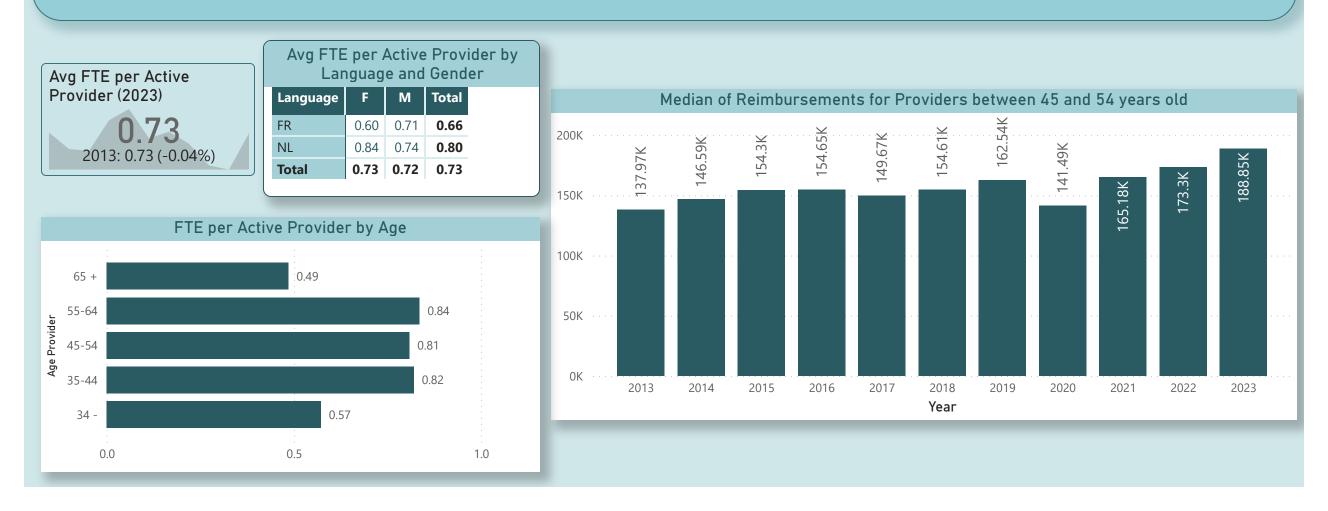


<u>FTE (full-time equivalent)</u> is calculated to determine the workload of a healthcare provider (= total reimbursements by provider in a given year divided by the median of reimbursements for providers aged 45 to 54 in the same specialty).

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) : Rheumatologist

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.

