

## Building a new classification for non-acute care

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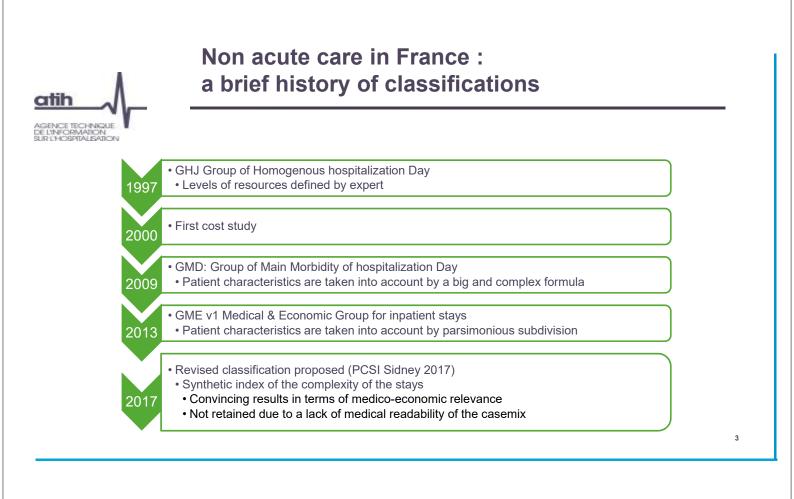
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Non acute care in France (SSR): overview

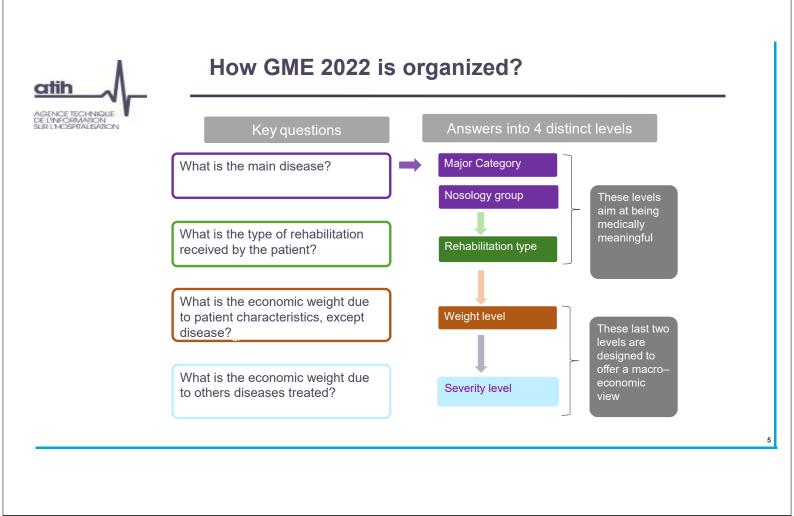
- O Approximatively 1 million stays/year
- O 1800 hospitals
  - O Specialized units with rehabilitation platform
  - O Unspecialized
  - O Public / private / private with no profit
- OVery variable length of stay
  - O From 1 day to > 1 year
- O Very variable cost per day

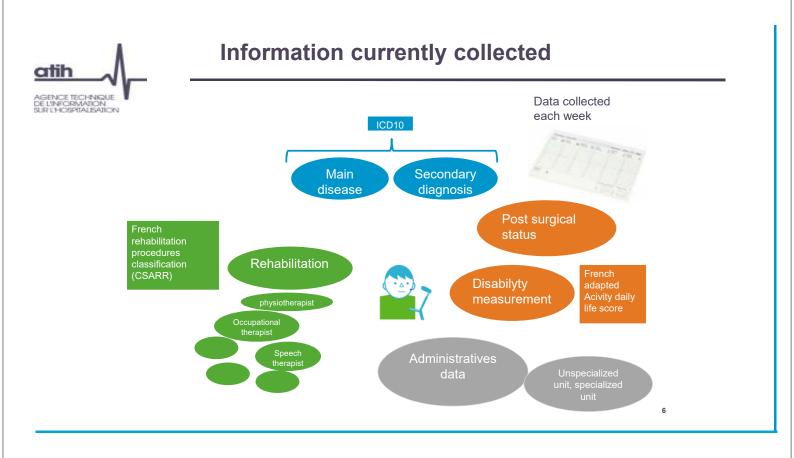


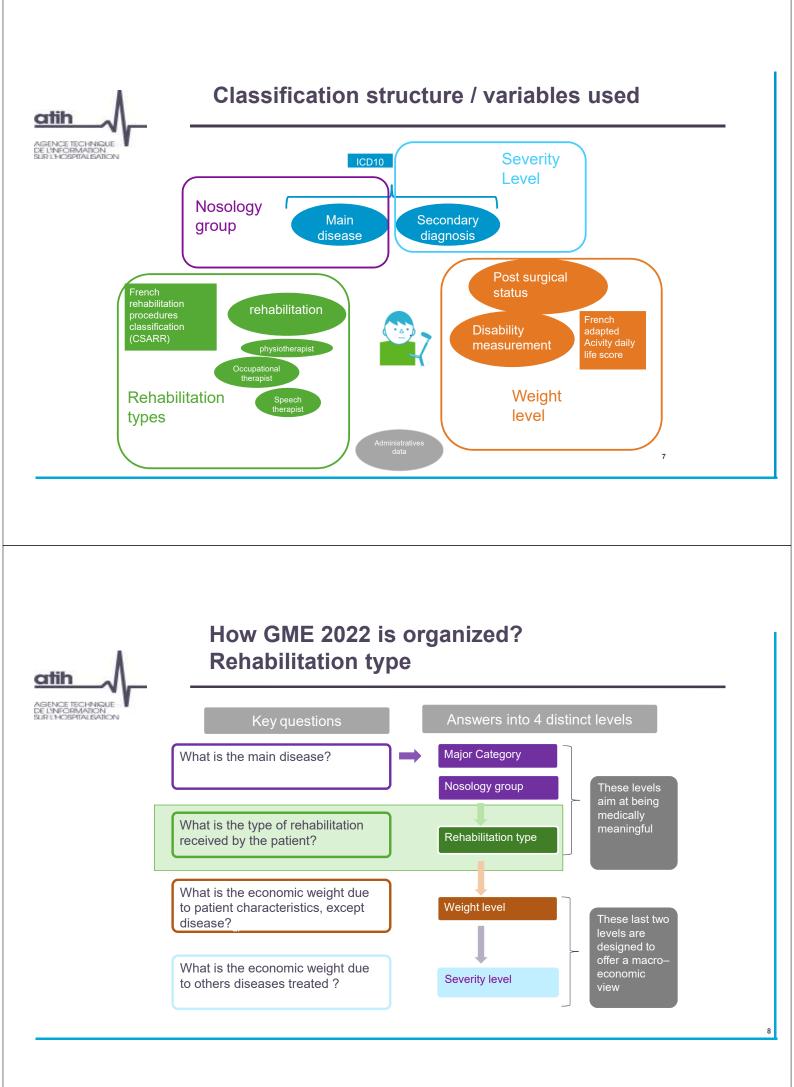


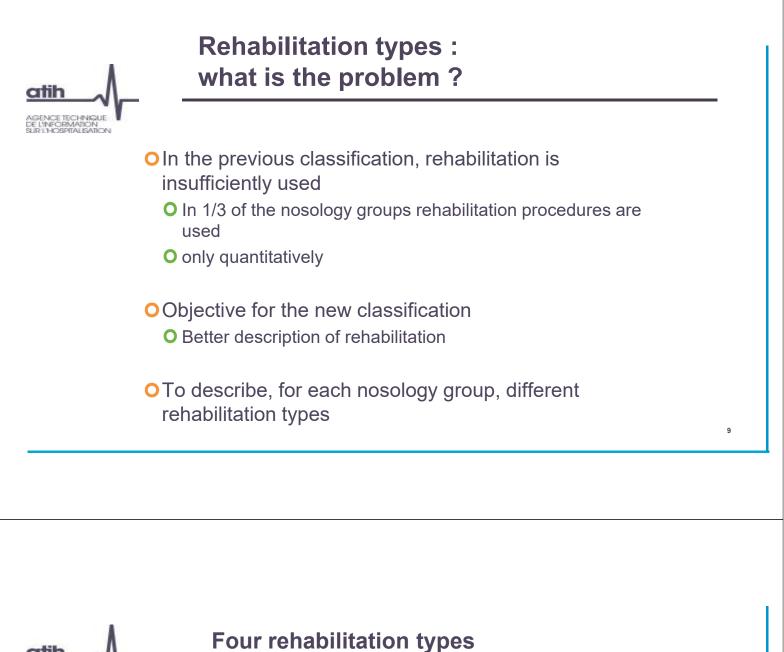
Objectives for new classification (GME 2022)

- Having a classification with more medical readability
- Improving medico economic relevance
- Having a reasonable number of groups



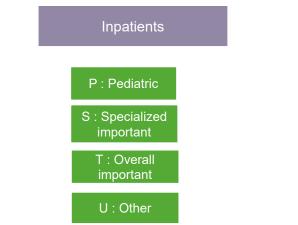


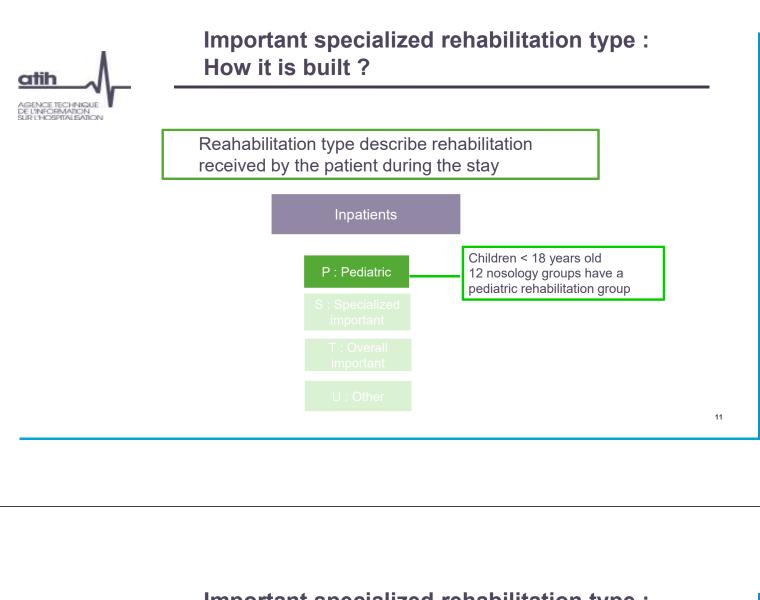


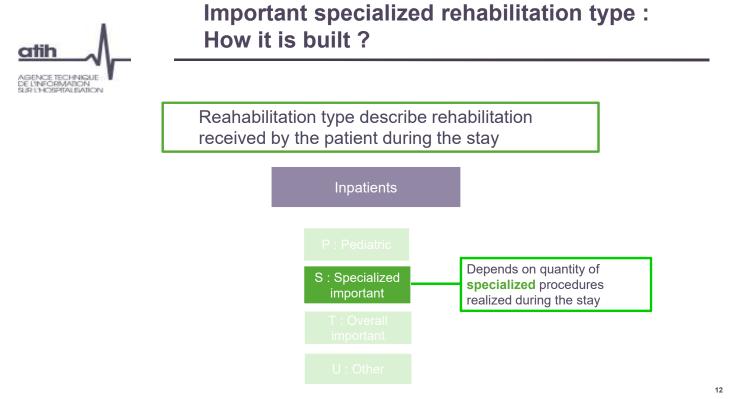


Reahabilitation type describe rehabilitation received by the patient during the stay

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# Specialized important rehabilitation type : How it is built ?

Specialized procedures are markers of rehabilitation deficiencies related to the main disease.

- O It does not depend on unit type
- O Building specialized rehabilitation procedures lists
  - O With rehabilitation experts
  - O Database analysis

For each nosology group

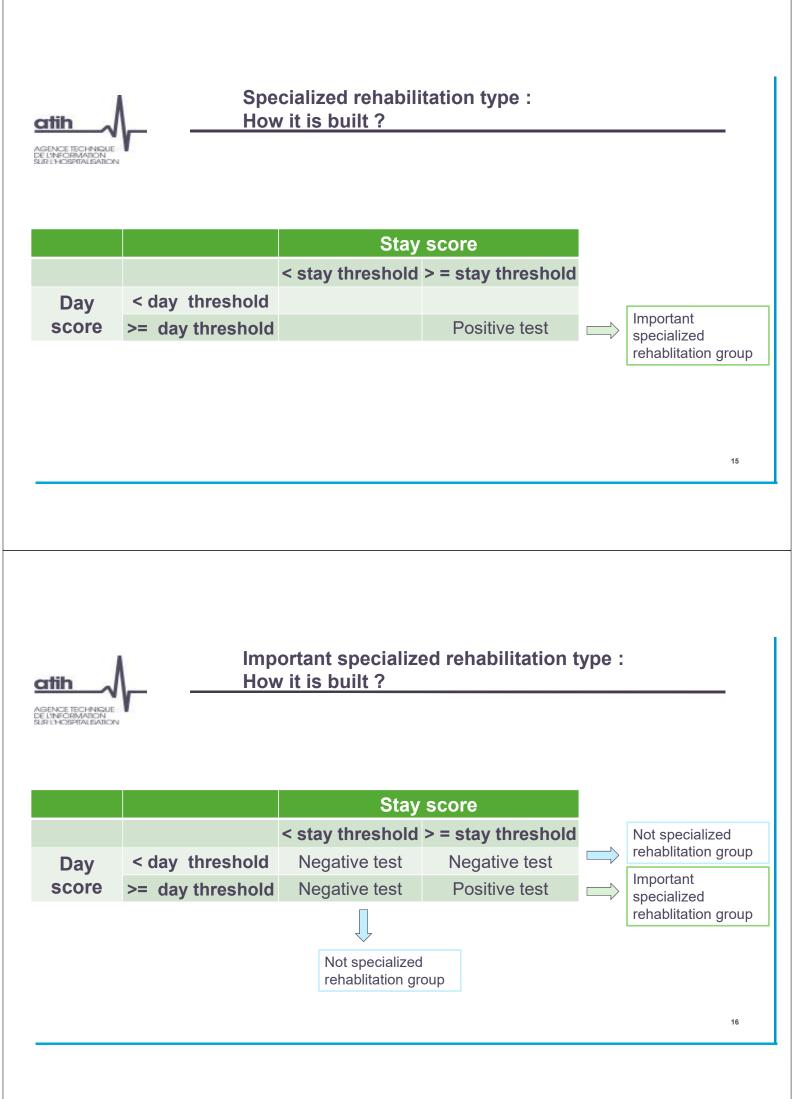
GLR+226 : abdominodiaphragmatic guided ventilation session => only for respiratory nosology groups

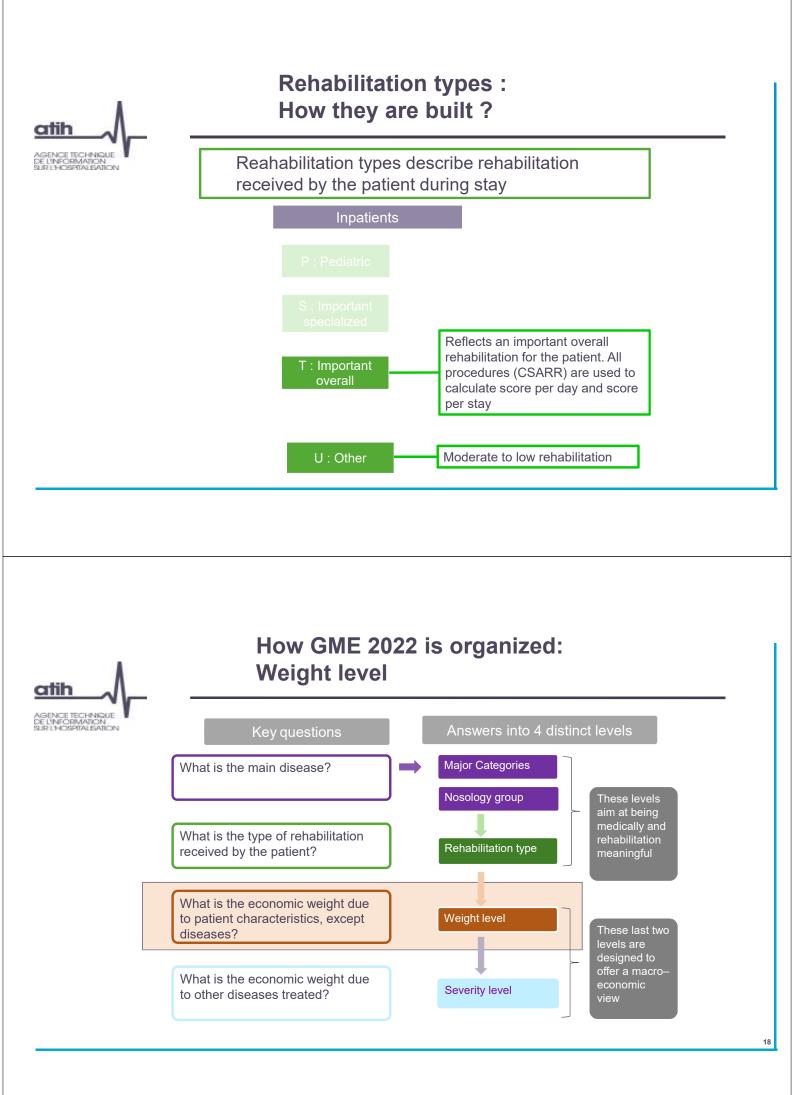


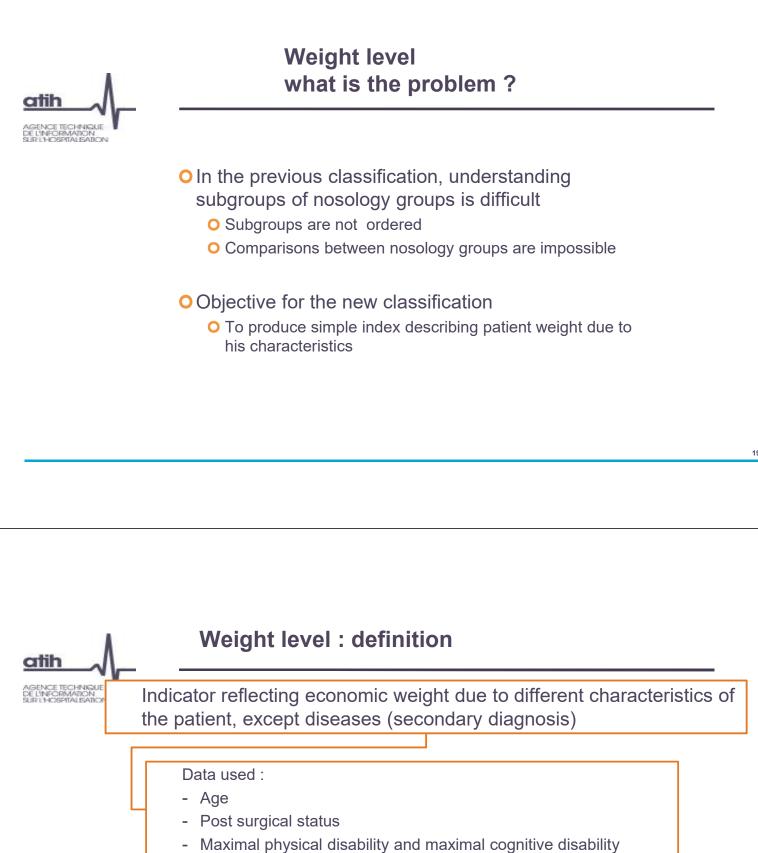
Specialized important rehabilitation type : How is it built ?

- Specialized rehabilitation procedures are used to calculate
  - O a score per day
  - O a score per stay

 Depending on this 2 scores, stay is oriented in specialized group











### Weight level : how is it built ?

A Weight level is associated with each variable value :
O age, physical disability, cognitive disability, post-surgical status

O For a given stay, the final weight level corresponds to the effect of the variable with the greatest level

Example for a rehabilitation group

variables	value	Level associated		
age	[18-75]	< A		
	[76-85]	A		
	>85	А		
Physical disability	[4-8]	А		
	[9-12]	В		
	[13-16]	$\subset \circ$		
Cognitive disability	[2-6]	A		
	[7-8]	A		
Prior surgery	non	А		
	oui	В		

Example for a patient :

- Age 70 years old → level A
- Physical disability 14  $\rightarrow$  level C
- Cognitive disability  $2 \rightarrow$  level A
  - With surgery → level B

Stay level : level C



#### Severity level : how is itbuilt ?

- Economic weight related to oher diseases (secondary diagnosis)
- For a given stay, the final severity level corresponds to the effect of the disease with the greatest level

Example for a weight group

Secondary diagnosis	Associated level
Hypertension	1
Stage III decubitus ulcer	2
Obesity due to excess calories	1

Example for a patient with stroke

- Hypertension  $\rightarrow$  level 1
- Stage III decubitus ulcer→ level 2
- Obesity due to excess calories  $\rightarrow$  level 1

Stay level : level 2

### **Statistical results**



Level	Inpatient groups	R <sup>2</sup> Length of stay	R <sup>2</sup> Cost	R <sup>2</sup> Inpatient Cost
Nosology Group	92	8.0%	12.6%	
Rehabilitation Group	222	11.5%	19.8%	
Weight Group	575	16.6%	27.4%	
GME 2022	1144	18.9%	30.3%	34.1%
GME 2021	543	14.6%	22.4%	29.3%

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Conclusion

O Improve medio-economic relevance

O Provide better medical readability

- Type of rehabilitation
- O Hierarchy of weight levels
- O Hierarchy of severity levels



#### Thanks for listening contacts : <u>nicolas.dapzol@atih.sante.fr</u> <u>nathalie.raimbaud@atih.sante.fr</u>

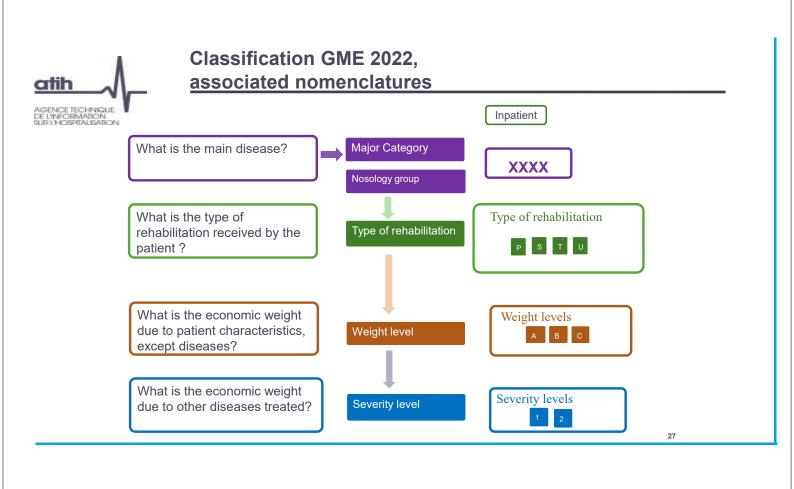
## Agence technique de l'information sur l'hospitalisation

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Annex





#### GME 2022 : examples, wordings

0512 S C 1
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	Code	Short Wordings	Long Wordings							
GN	0512	Cardiac failure								
GR	0512S	Cardiac failure / HC R spec	Cardiac failure / HC speciliazed rehabilitation							
GL		Cardiac failure / HC R spec Niv C	Cardiac failure / HC speciliazed rehabilitation level C : phy[13-16]							
GME	0512SC1	Cardiac failure/ HC R spec Niv C-1	Cardiac failure / HC speciliazed rehabilitation level C-1 : phy[13- 16] – without severity							

## **Statistical results**



Rehabilitation groups	Nb stay	% inpatient	LOS	Age	Phy	Cog	%surg	severnv	unspecilized unit	•	geriatric unit
Р	40 409	2%	25	12	8	4	9%	23%	37%	63%	0%
s	580 134	30%	37	63	8	3	41%	18%	16%	79%	6%
т	550 749	29%	37	78	10	4	28%	27%	46%	20%	34%
U	734 287	39%	30	78	10	4	24%	24%	56%	14%	30%

Weight level	Nh ctov	% inpatient	LOS	Age	Phy	Cog	%surg	severity	· ·	Specialize d unit	Geriatric unit
A	713 581	37%	25	65	5	3	32%	12%	35%	54%	10%
В	638 856	34%	34	75	10	4	32%	24%	44%	30%	26%
с	553 142	29%	46	77	13	5	25%	38%	43%	21%	36%