



St-Elisabeth clinic and maternity

311 beds

2 sites: General hospital and palliative hospital

Attractive poles:

- maternity,
- dialyis (33 places),
- maxillofacial surgery,
- SORMN: Nuclear Medicine, Oncology, Radiotherapy (Certification ISO9011)

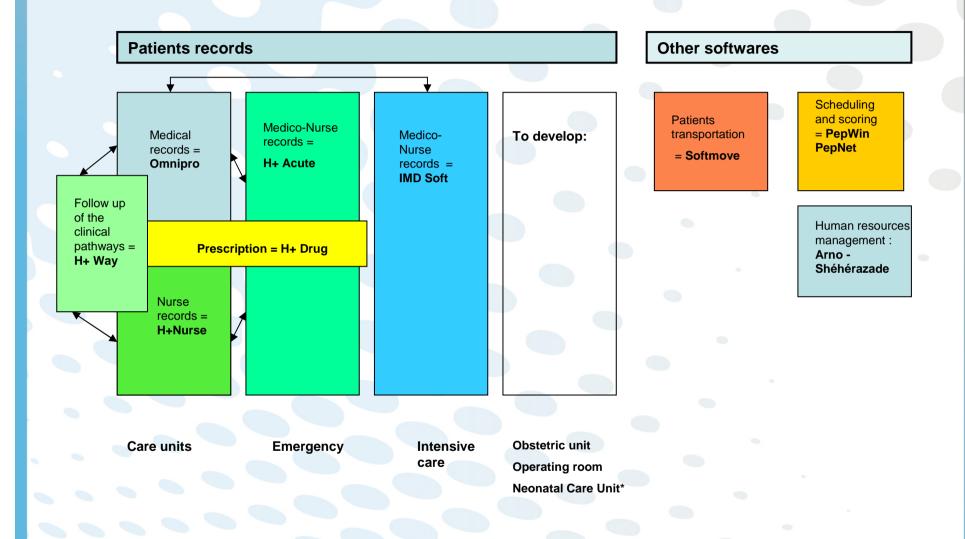


Communication Map.

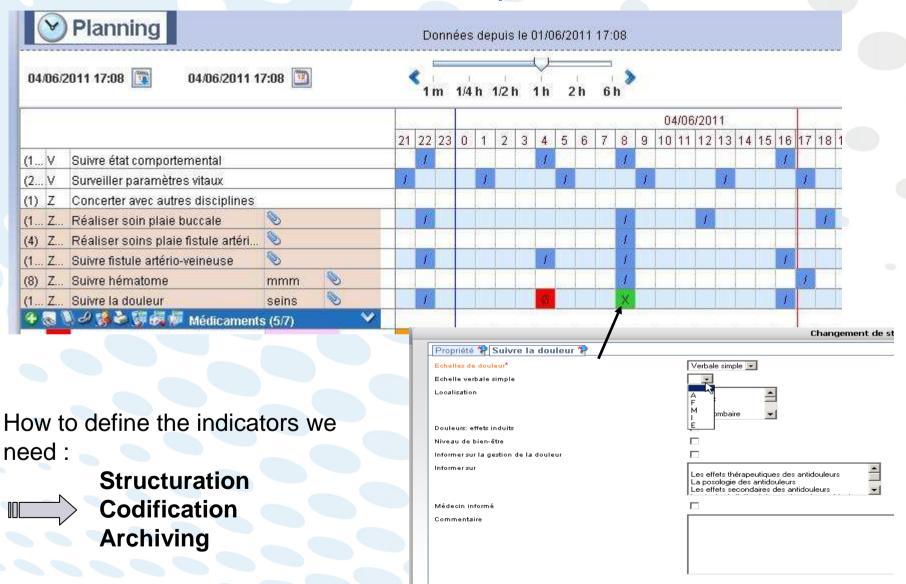
- Informatic tools in the Nursing Department
- Informatic structure in different patients records
- Indicators in the Nursing Department
- Building these indicators : audits and extractions
- From theory to practice : exemple
- Remarks
- Conclusions



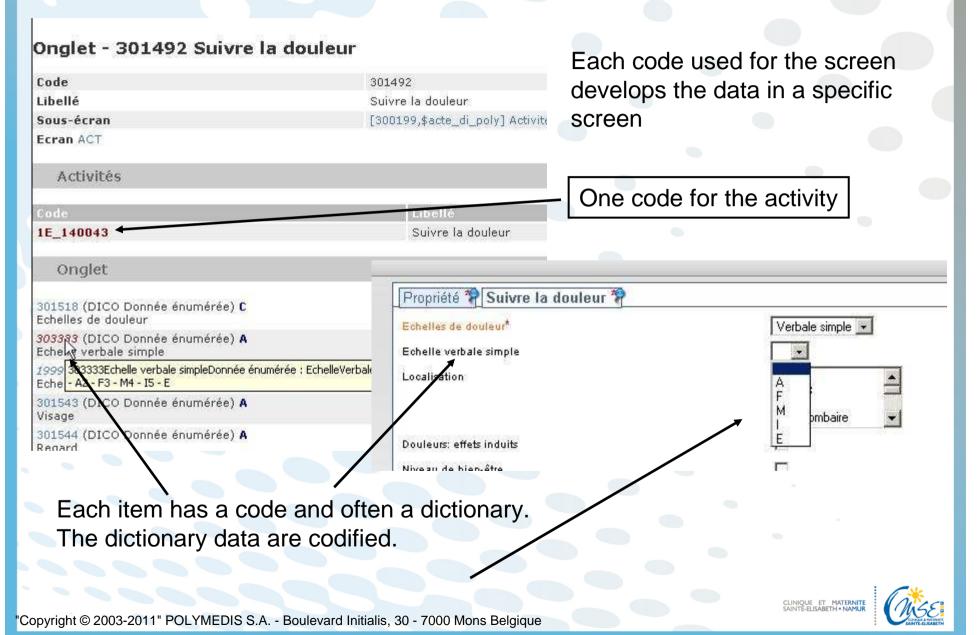
The informatic tools in the Nursing Department

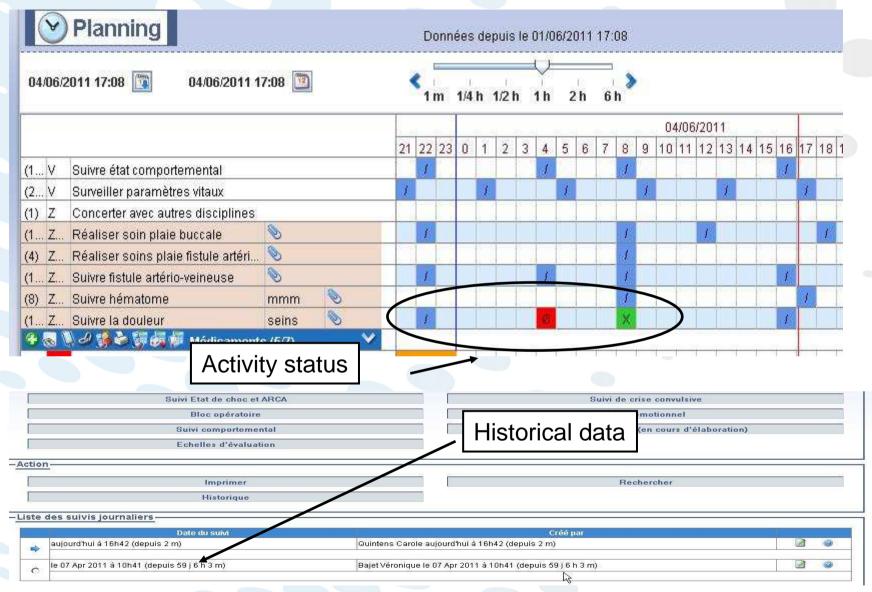




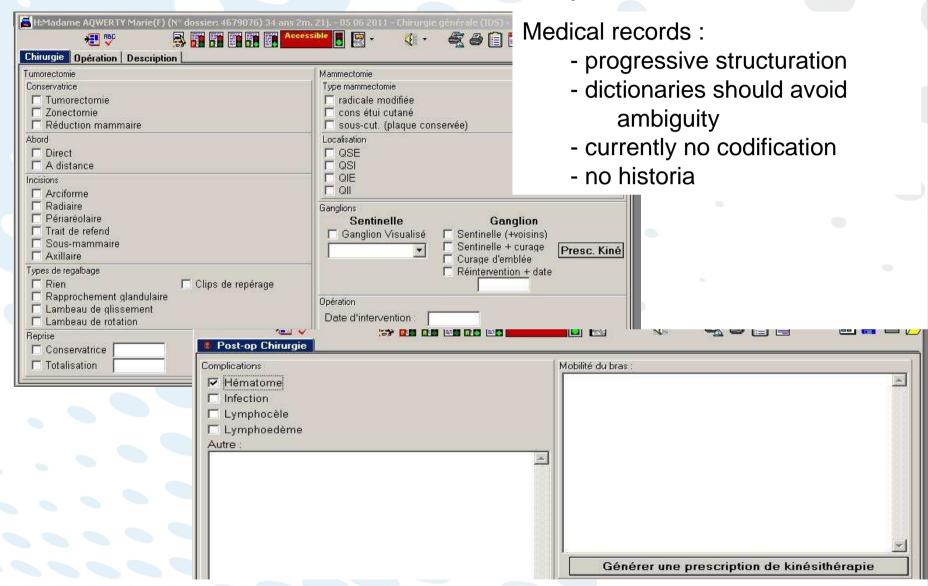












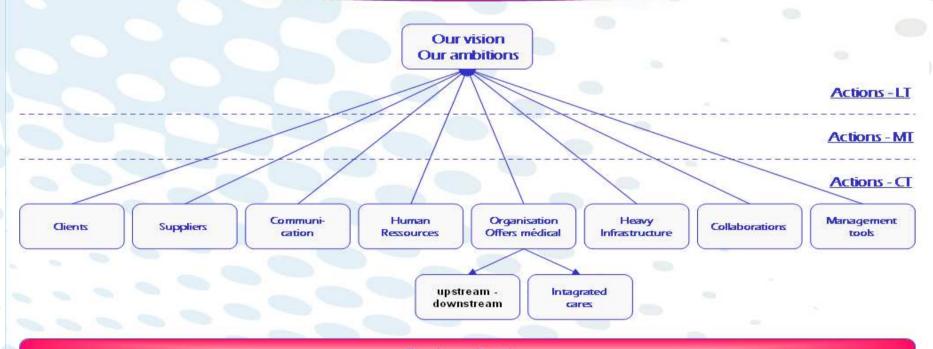
Indicators in the Nursing Department

- Business plan
- « Russian dolls » » :
 - actions and indicators located in each institutional level and in each strategic axis
- Indicators production: Goals !!!
 - Initialize actions
 - Score effects
 - Monitor the performance



Business plan

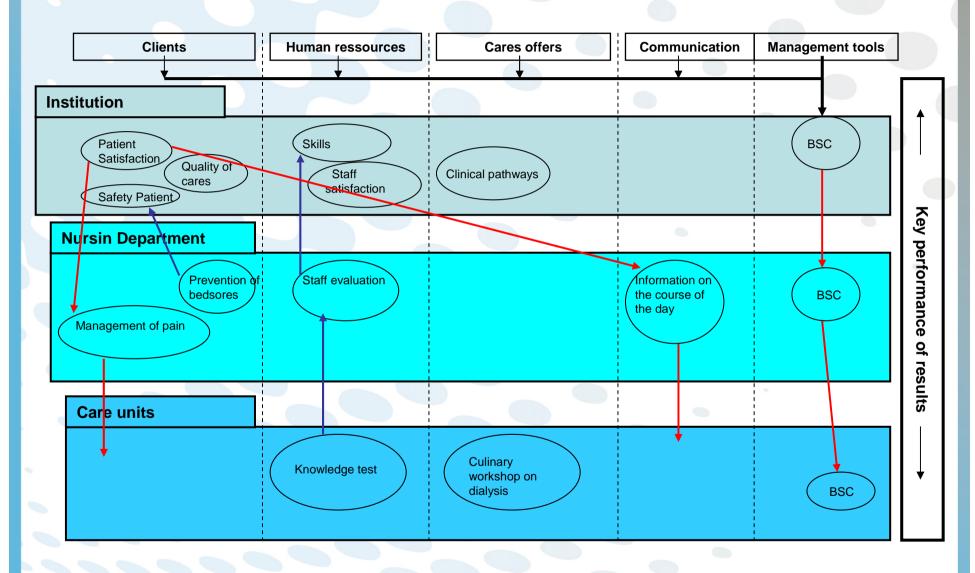
By cultivating its values of life and mutual respect, CMSE places the patient at its heart, through careful listening and comprehensive care. Cope with external constraints, staff and all of its employees guarantee high quality of specific care and personalized support



Previous situation
Our values | Diagnostic | Strengths & weaknesses - Opportunities & threats



At every institutional level: actions § indicators





Indicators in the Nursing Department

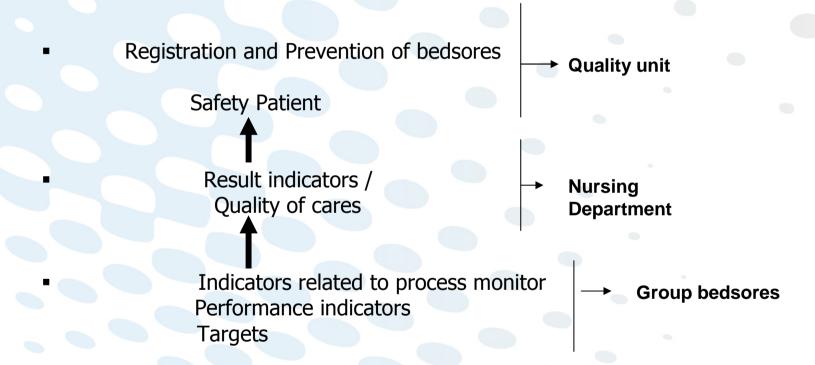
Indicators « Top / Down » (To initialize actions):

- Patients satisfaction (Result indicators)
- Priority actions fixed at the institutional level
- Actions implemented in the Nursing Department
- Monitoring these actions by indicators



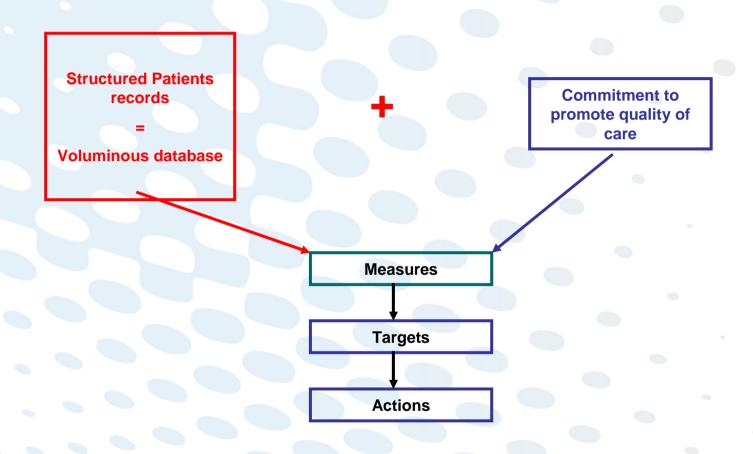
Indicators in the Nursing Department

Indicators « Bottom/ Up » (Monitoring the performance)



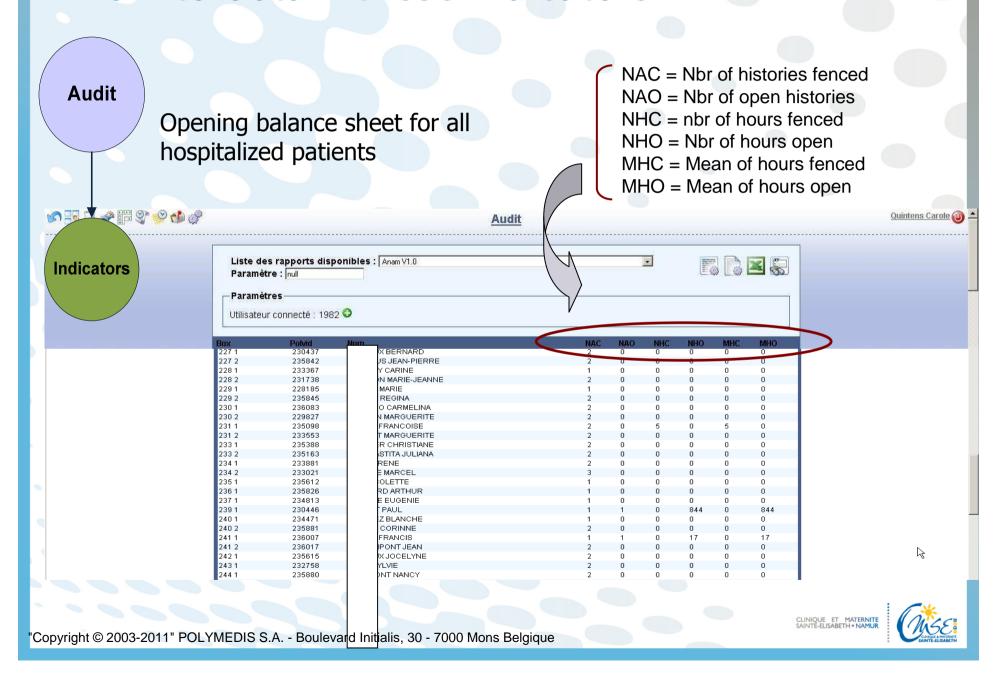


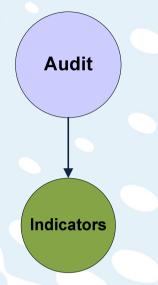
Indicators and quality of care





How to obtain these indicators? **Audit** Di-RHM **Indicators Queries Extraction** Clinical pathways





Who?

Nursing Direction, Head of service, ... manager rights in the application

How?

In the application in 3 clicks

When?

At every moment



Creation of audits is currently managed by the company

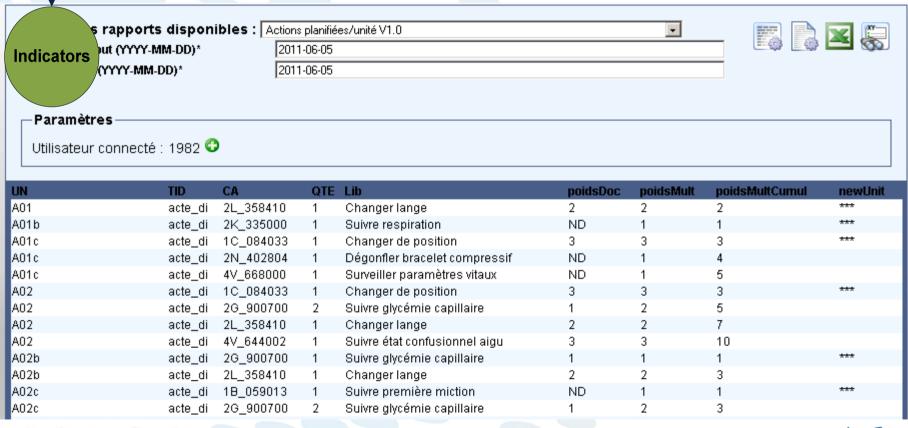


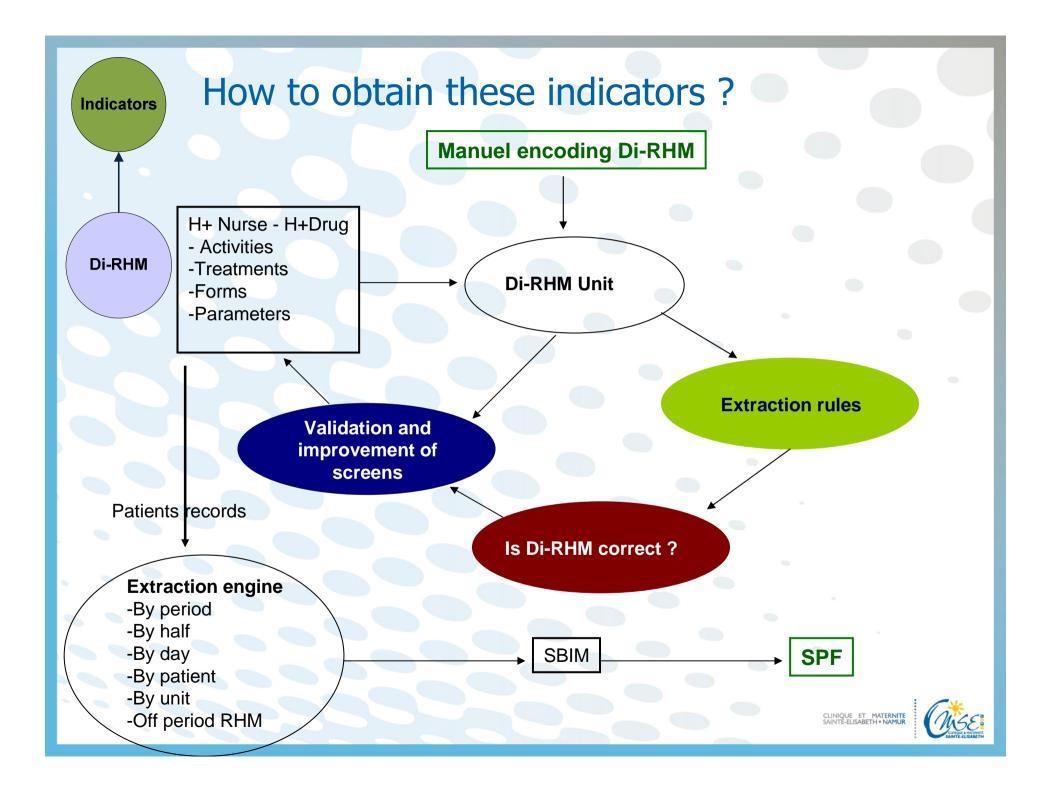
CMSE has to describe the request.



Audit

The activity is weighted following the choices of the institution An audit of the planned activity offers a glimpse of the workload per day, per week, ...







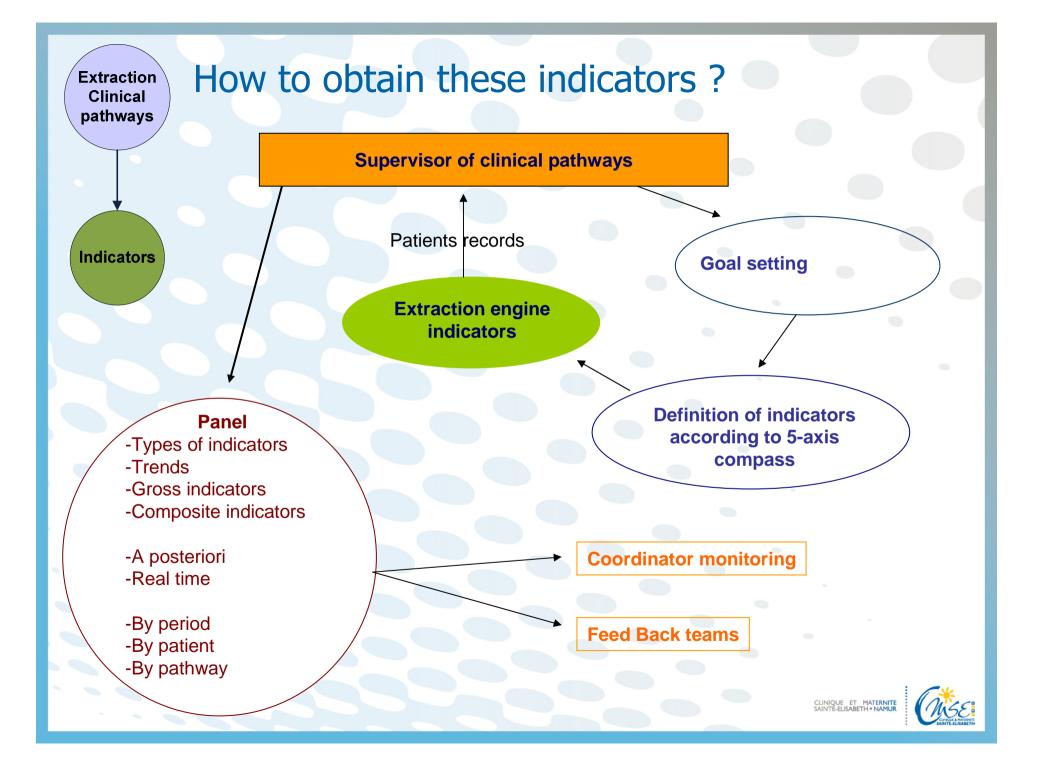
Statistic Docmodel:

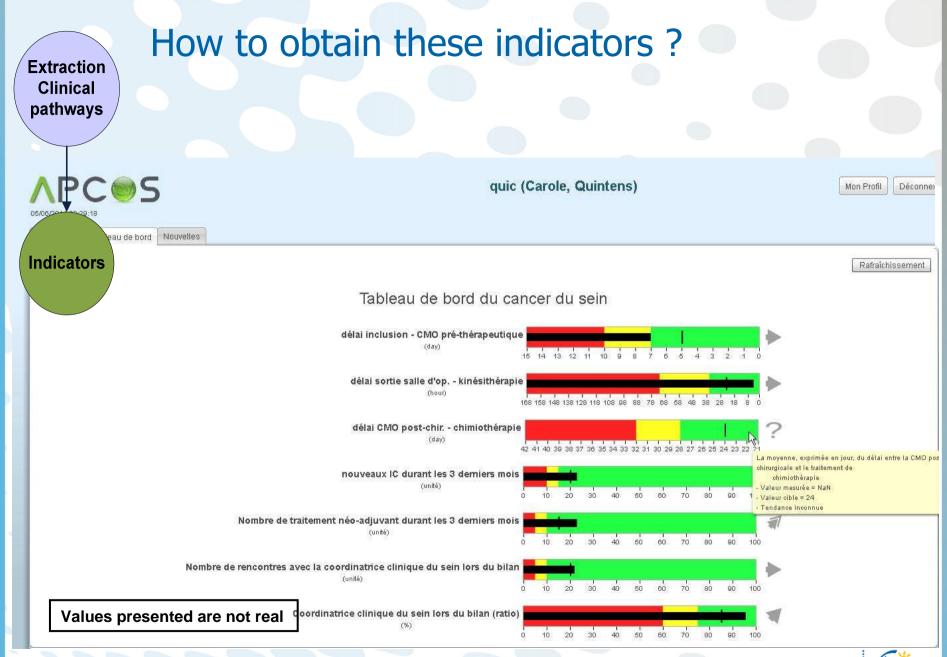
- generates reports on the extraction of Di-RHM

Di-RHM

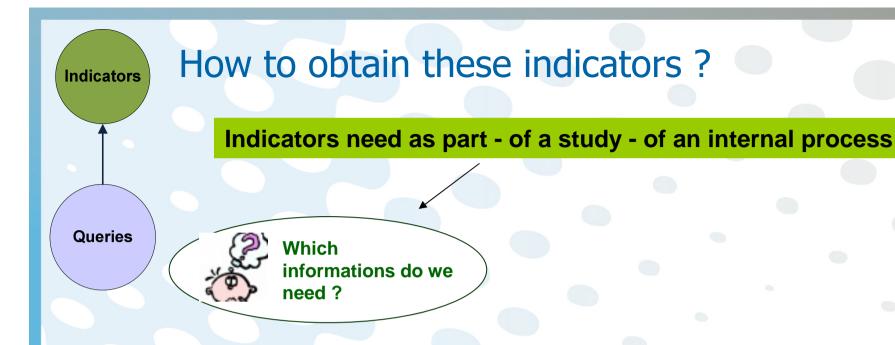
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		29						3116			3116			
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			Magazara							140114	B600	18	18	
18 059016			Détail		159	234	140	49	43		B100			











Application on pain: how do we measure the pain feeling at the CMSE

- Number of survey activities related to administered analgesic drugs
- Use of the verbal scale of pain (N=?)





Indicators need as part - of a study - of an internal process

Queries



Application on pain : how do we measure the pain feeling at the CMSE

- Number of survey activities related to administered analgesic drugs
- Use of the verbal scale of pain (N=?)

- Nutrition

- Pilot Project Teams Nutritional SPF Groupe 1
- Institutional follow-up

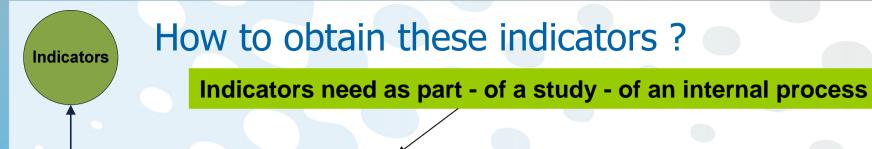
- Bedsores

- Currently conducting a query to demand

- Education in Diabetes

- Conducting a query to demand
- Baby-friendly hospital institution
 - Conducting a query to demand





Queries

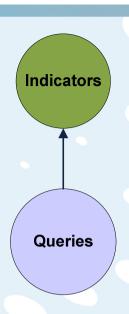


Definition of indicators accurately

- Used data
- Any mathematical function
- Query : automatic or not
- Extraction date

- Activity with the code140043 and the state
 administered » in all hospital records :
 - from 1 to March 31,2008
 - from 1 to March 31,2009
 - from 1 to March 31,2010
 - from 1 to March 31,2011
- Given number of "simple verbal scale" in the display code 303333 code 301492, and if a value is validated in the dictionary
- On the number of activities whose condition is
 administered » in all hospital records
 - from 1 to March 31,2010
 - from 1 to March 31,2011





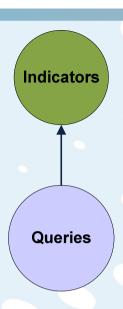
Structuration
Codification
Archiving of informations

- Average use of the verbal scale by patient or patient category
- Relationship between a value of the verbal scale and specific actions
- Analysis of the pain management by pathology
- Analysis of the evolution stage of bedsores

- ...



How to obtain these indicators **Indicators** Indicators need as part - of a study - of an internal process Which Queries informations do we need? Results sent to applicants **Definition of indicators accurately:** - Used data - Any mathematical function - Query: automatic or not - Extraction date Treatment of flat files by the management unit Query sent to the informatic service **Query performed on the database** CLINIQUE ET MATERNITE SAINTE-ELISABETH = NAMUR



Indicators need as part - of a study - of an internal process

Comparable indicators between hospitals:

Total prevalence of bedsores.

Prevalence of bedsores emerged during hospitalization.

Prevalence of bedsores emerged in certain care units.

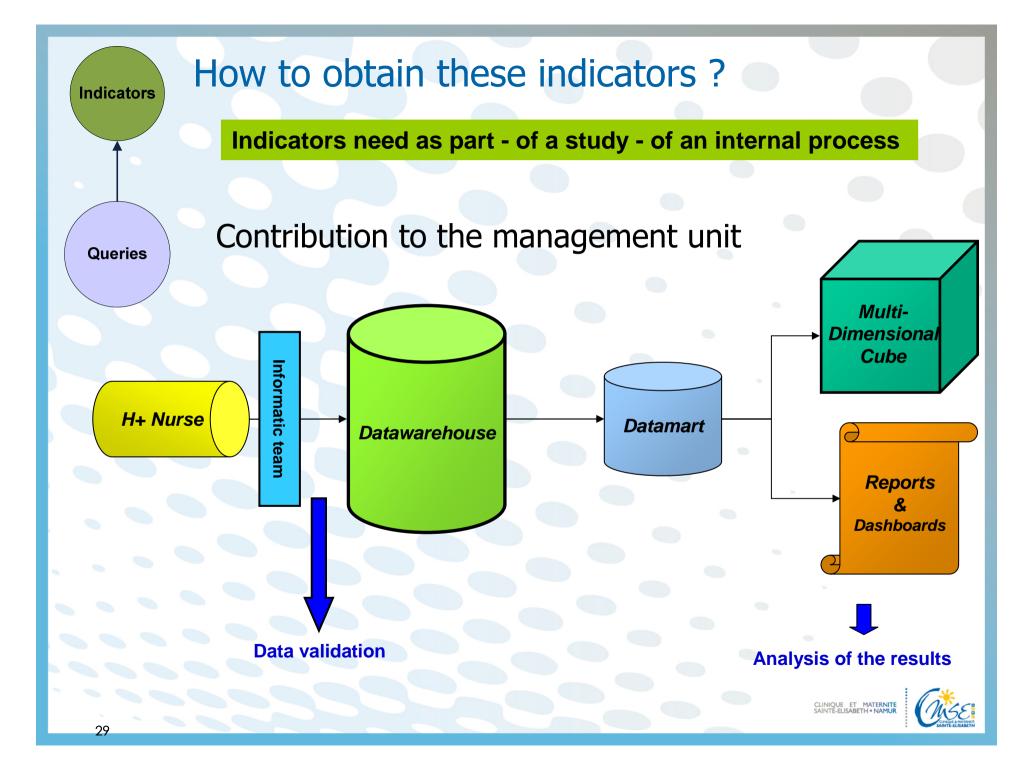
Total incidence of bedsores on admission.

Total emergence of bedsores during hospitalization.

Emergence of bedsores according to their location during hospitalization.

Number of patients at risk, continuously (24h/24h) receive adequate preventive measures.





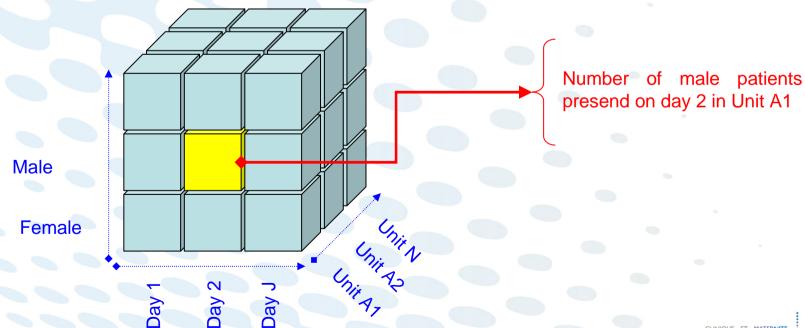


Indicators need as part - of a study - of an internal process

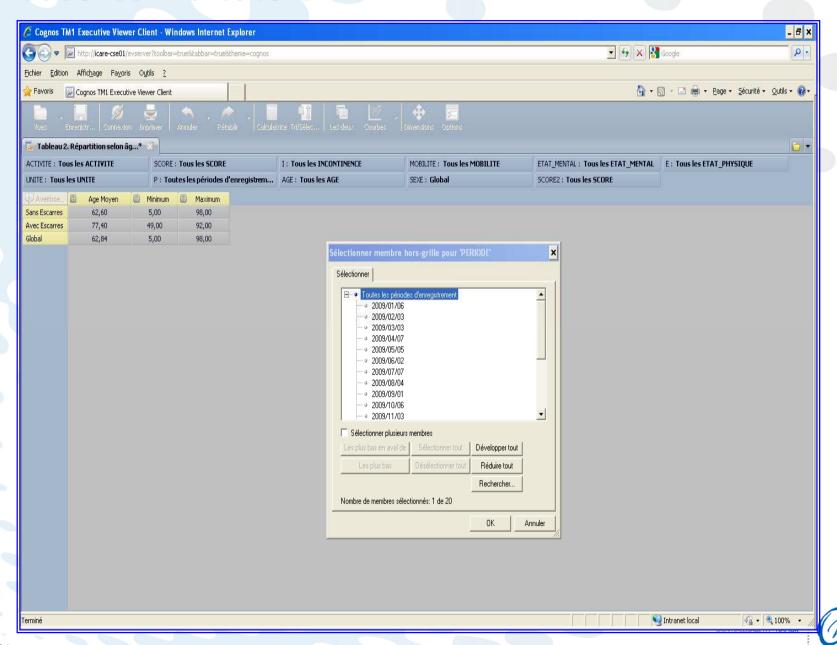
Queries

What's a multidimensional cube?

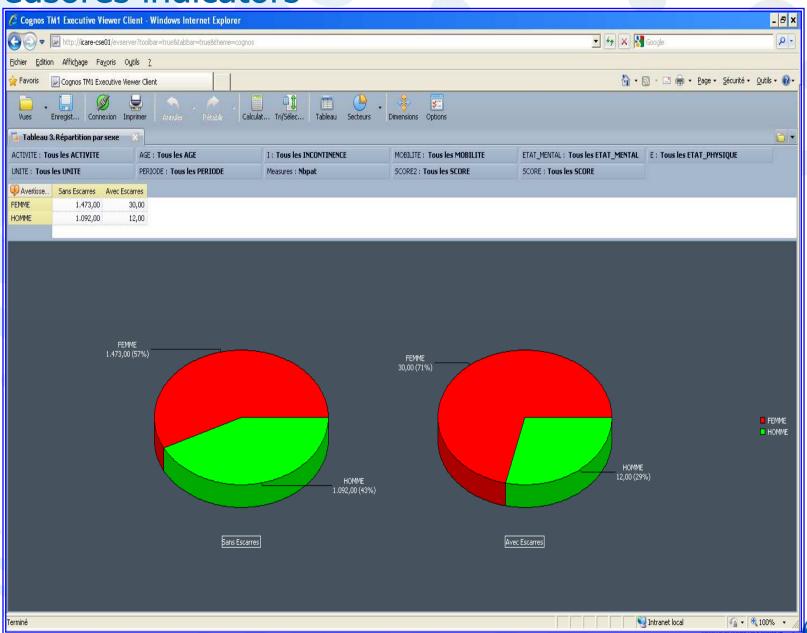
A multi-dimensional cube is used to analyze numerical *indicators* (number of patients, number of bedsores, etc.) in a context described by the intersection of several dimensions of analysis (time, care units, sex, etc.).



Bedsores indicators



Bedsores indicators



Remarks

Benefits of the extraction systems of indicators

- Structures data / Common language
 (ex: definition of hypotension arterial)
- Systematization
- Saving time and resources
- Centralization of data
- Data sharing
- Data linking
- Data linking clinical data with human resources (number of persons present, qualifications of the persons present in the unit ...)
- Comparison with the costs per stay



Remarks

Difficulties

- Path of extraction : stakeholders (IT, management unit)
- Query formulation: what do we wish ?
- Adaptation of the structure of the data
- Choice of appropriate indicators.



Conclusions

- Production of indicators and quality management are inseparable
- Excess is harmful : « Cave » too many indicators
- Control by a procedure extracting indicators
- Skill for ever: Training at different levels of the institution (indicators, query formulation ...)
- Institutional structuring of a multidisciplinary management unit (organizing the data warehouse, making the information readable ...)
- Choosing data structures (within acceptable limits)
- Create TBE for all institutional levels





Dank u voor uw aandacht!

Merci de votre attention.



