Patient level data collection – does it show a new reality?

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Romania – 3 years ago

- 400 hospitals, 23 mil. inhabitants
- "per day" reimbursement system
- OLD coding system
 - Diagnosis Romanian adapted ICD-10 with 999 codes only for main diagnosis
 - Procedures Romanian adapted ICPM with 1117 codes
- NO data collection standards
- PAPER-based hospital level aggregated data collection
- FEW health indicators

Romania – 2004

- Electronic patient level clinical data collection from all 400 hospitals
- Standard hospital Minimum Basic Data Set
- ICD10 coding system for diagnosis
- HCFA18 DRG grouping
- Case-mix financing for 185 acute care hospitals from January 2004
- Neutral hospital base rate with an 85%-15% blending rate with the national rate
- Clinical and financial validation rules for submitted cases

Question

How does the hospital system looks like now in comparison with 3 years ago?

Number of discharges per year

2000	2004	Reasons
5.5 milion discharges	4.5 milion discharges	New definition of "a case"

Main causes of admission

2000 - Top 10 "MDCs"

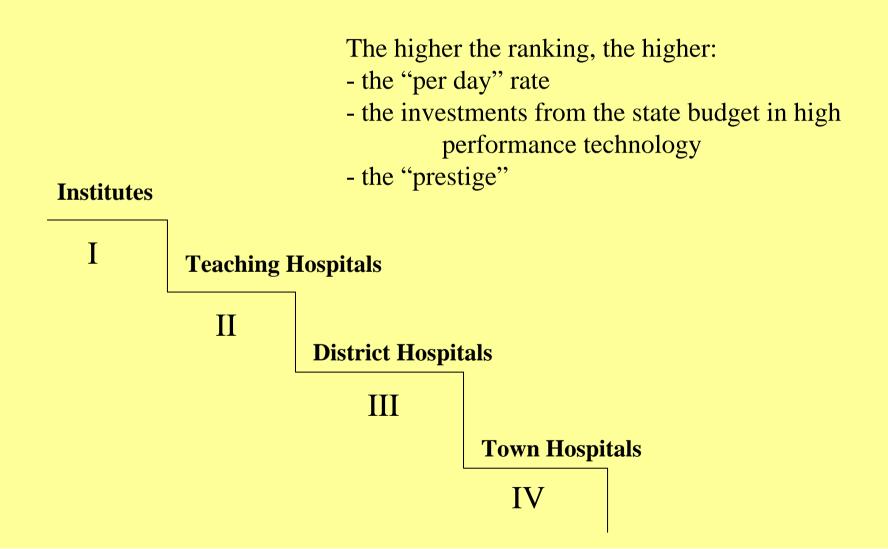
- 1. Cardivascular diseases
- 2. Respiratory diseases Etc.

2004 – Top 10 DRGs

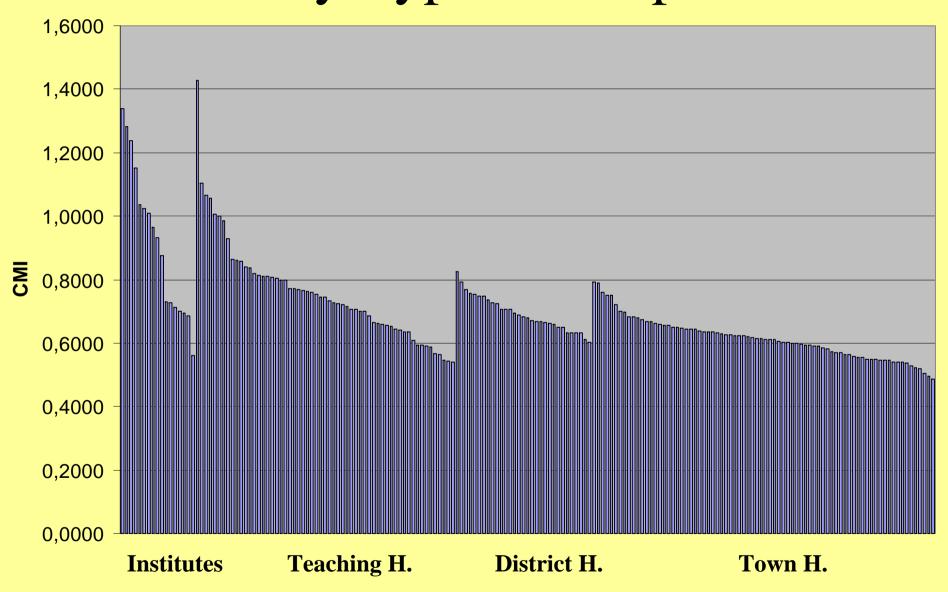
- 1.Upper respiratory infections and otitis media, age 0-17
- 2. Arterial hipertension
- 3. Medical back problems

Etc.

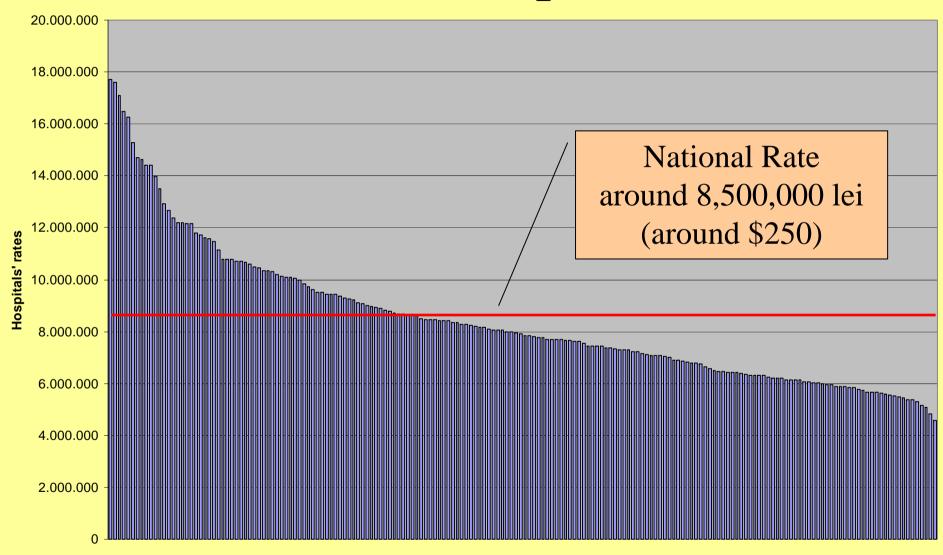
Ranking of the Hospitals in 2000 (...but still in place in 2004)



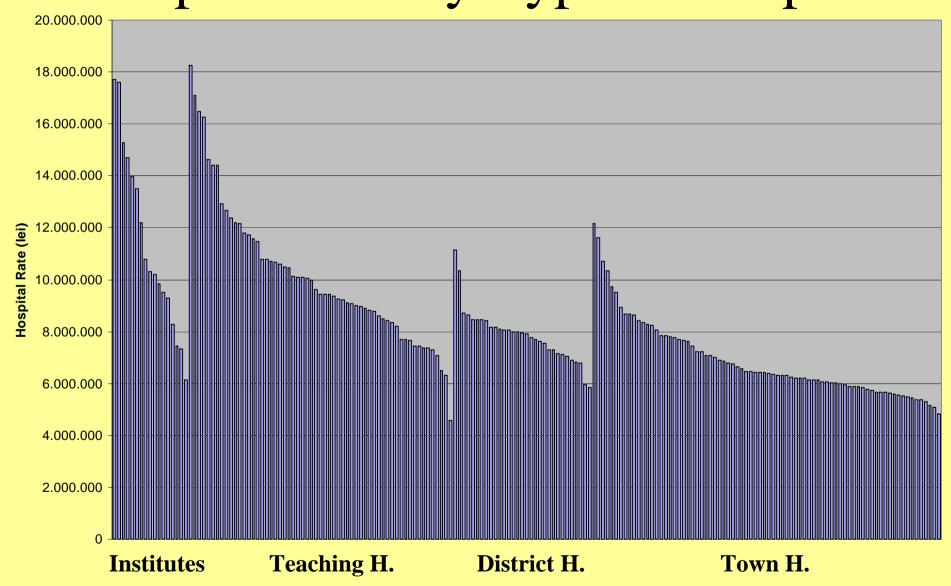
CMI by Type of Hospitals



Variation of Hospitals' rate



Hospital Rate by Type of Hospital



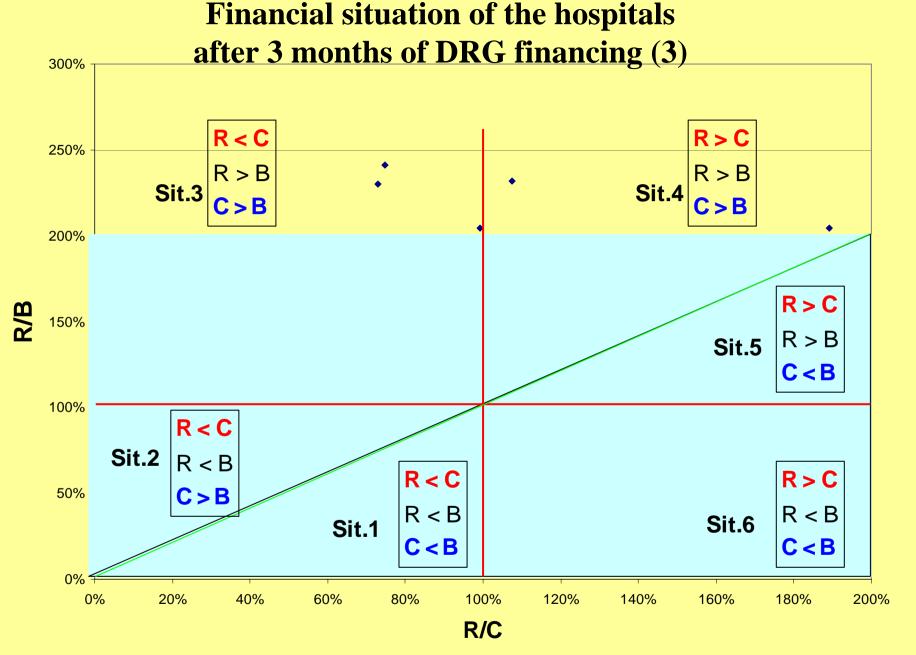
Financial situation of the hospitals after 3 months of DRG financing (1)

- From January 2004, 185 acute care hospitals started to be reimbursed by DRG mechanism
- The hospital rates were calculated as neutral base rate (based on the historical **BUDGET** in 2003 "**B**" in the next slide) with an 85%-15% blending rate with the national rate
- At the beginning of the year, the hospitals negotiated and CONTRACTed with the National Insurance Fund a prospective budget for the year of 2004 "C" in the next slide
- After 3 months of DRG financing, we made a simulation of the financial situation of the hospitals, based on the hospital REVENUE for services provided in this time frame "R" in the next slide

Financial situation of the hospitals after 3 months of DRG financing (2)

• Contract 2004 <> Budget 2003

• REVENUE 2004 <> CONTRACT 2004



B = BUDGET 2003, C = CONTRACT 2004, R = prediction of REVENUE for 2004

Conclusions

- The hospital system looks different after introducing the patient level clinical data collection
- The new facts reveled require a new methodology of the decision making process
- As for to the hospital system, we need to:
 - re-think the roles and ranking of the hospitals and the patient flow
 - refine the hospital contracting and reimbursement system, by refining the incentives-disincentives system