



Creating Clinical Data Analysis Tools

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Washington D.C., July 2002



Romania - September 2000

- 400 hospitals
- No ICD10 coding
- No uniform data collection
- Mainly on paper
- Only aggregated data, no details
- No data collection standards
- Few health indicators

- little data support for decisions
- no transparency

A faint, light-colored outline map of Romania serves as a background for the slide. The map shows the country's irregular borders, including the Danube River to the north and the Black Sea to the east. The text is centered within the map's outline.

September – December 2000

- Assessment of hospitals, including IT
- Selection of 23 hospitals
- Design of a Data Collection Software
- Distributing the software to hospitals
- Training the hospitals: software & coding



January – December 2001

- First patient level clinical data collection
 - First department level cost data collection
 - Continuous support for hospitals/decision makers
 - Designing the central database
 - Grouping with HCFA 18 (DRGs)
 - Designing the analysis / reporting tool
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- providing reports to hospital managers
 - providing reports to decision makers
 - preparing DRG financing mechanism for 23 hospitals in 2002

A faint, light-colored outline of the map of Romania is visible in the background, framing the text. The outline is composed of multiple overlapping lines, creating a subtle border effect.

January – August 2002

- DRG financing mechanism for 23 hosp.
 - Continuous fine tuning the mechanism
 - Developing the analysis tool
 - In-depth analysis of clinical data for decision makers (management, financing & quality reports)
 - DRG web page
 - Publishing the health reports on Internet
 - ICD10 coding training for 400 hospitals
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- decision makers start using data
 - increases transparency of health system

The image features a large, light gray outline of the map of Romania, which serves as a background for the text. The map is centered and occupies most of the slide's area.

Major Achievements

- 1,500,000 patient records in the national database
- DRG financing mechanism for 23 hospitals
- Health planning, monitoring and quality reports for decision makers
- Transparency of the health system
- National standards for data collection
- Decision to collect patient level data at national level



Success Factors

- Continuous support for the hospitals
- Strong relationship with decision makers
- Transparent processing of data
 - never disappointing our partners



September – December 2002

- Start ICD10 coding in 400 hospitals
- Training all hospitals in patient level clinical data collection
- Creating a central DRG institution



January – December 2003

- Patient level clinical data collection
- Department level cost data collection
- Preparing patient level cost data collection

January 2004

- Start DRG financing for all hospitals

Top 10 DRGs in Romania 2001

DRG	Definition	RW	No. of cases	% of total cases
134	HYPERTENSION	0.48783	15092	2.60
373	VAGINAL DELIVERY W/O COMPLICATING DIAGNOSES	0.43582	14432	2.48
70	OTITIS MEDIA & URI AGE 0-17	0.35435	12612	2.17
381	ABORTION W D&C, ASPIRATION CURETTAGE OR HYSTEROTOMY	0.56125	12031	2.07
391	NORMAL NEWBORN	0.13439	10358	1.78
243	MEDICAL BACK PROBLEMS	0.61214	10178	1.75
317	ADMIT FOR RENAL DIALYSIS	0.54419	9374	1.61
206	DISORDERS OF LIVER EXCEPT MALIG,CIRR,ALC HEPA W/O CC	0.58354	8827	1.52
167	APPENDECTOMY W/O COMPLICATED PRINCIPAL DIAG W/O CC	0.58367	7899	1.36
294	DIABETES AGE >35	0.64274	7827	1.35