DRG implementation in Croatia

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Institutional responsibilities

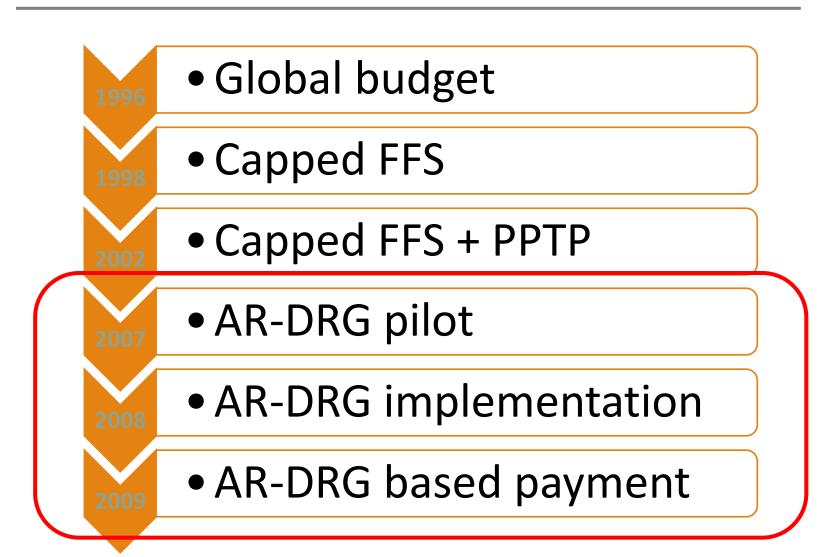
Ministry of Health

- develop and implement reform policies to support the introduction of the new performance based hospital payment model;
- support the rationalisation of the hospital network to improve system efficiency; and
- support the introduction of care pathways to promote quality and system efficiency;

Health Insurance Fund

- acting as purchasers of inpatient care from hospitals;
- technical ownership of the DRG system;
- undertake costing studies and the refinement of DRG cost-weights;
- development and phasing-in of the hospital outputs based payment system;
- support revision to the hospital financial reporting and accounting system to facilitate the costing of outputs; and
- measuring hospital performance and managing risk.

History of the hospital payment reforms in Croatia



AR-DRG pilot

Training in DRG coding

2005

2006-2007

2008

January 1, 2009

Technical preparation

4 Pilot hospitals

All acute care hospitals

DRG payment

- Translation of the AR-DRG;
- Development of the DRG grouper software;
- Development of the training materials; and
- Development of the DRG data dictionary.



All hospitals continued to account for their budgets according to the old two-tiered FFS and PPTP schedule, but were also obliged to keep track of cases according to the new DRG schedule.



Additional DRGs

DRG code	DRG Description	Relative Weight
A11Z	Multiorgan explantation with tissue explantation	4,60
A12Z	Multiorgan explantation	4,36
A13Z	Single organ explantation	4,48
A14Z	Cornea/eye explantation	0,23

DRG costing

Sample DRG Relative Weights

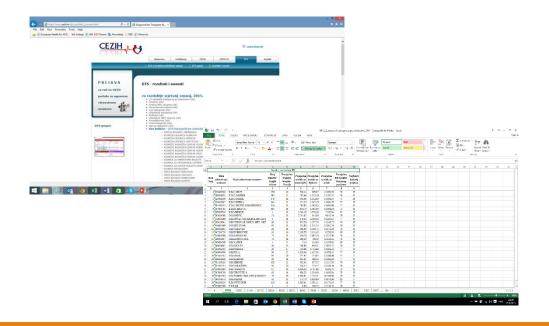
DRG Description	Relative Weight	
DKG Description	Australia	Croatia
HYPERTENSION W/O CC	0,62	0,44
HEART FAILURE W CC	1,10	1,09
HEART FAILURE W/O CC	0,82	0,77
VAGINAL DELIVERY W CC	0,55	0,87
VAGINAL DELIVERY W/O CC	0,50	0,48
LIVER TRANSPLANT W MCC	24,89	30,75

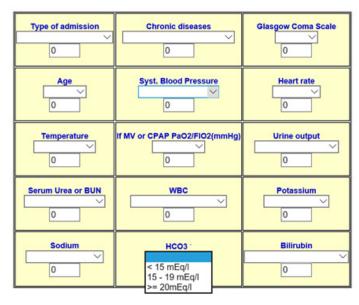
O60C Vaginal delivery without OR procedures, without CC

Hospital	Discharges		Average cost
A	506 D	S: _{4,89}	5.780,65
В	42595	,864, k n	4.559,10
С	639	4,07	3.562,74

Additional activities

- ✓ Controlling hospital admissions by Appropriateness Evaluation Protocol (AEP);
- ✓ Controlling intensive care complexity by
- ✓ Simplified Acute Physiology Score (SAPS II);
- ✓ Feedback to the providers.





Variable amount (15%)

Fixed amount – Overhead (85%)

KPI + QI (5%)

DRG based payment (10%)

QI

ADDITIONAL PAYMENTS:

Transplantations,
Interventional cardiology,
Interventional neurology,
Very expensive drugs.

KPI

Average lenght of stay

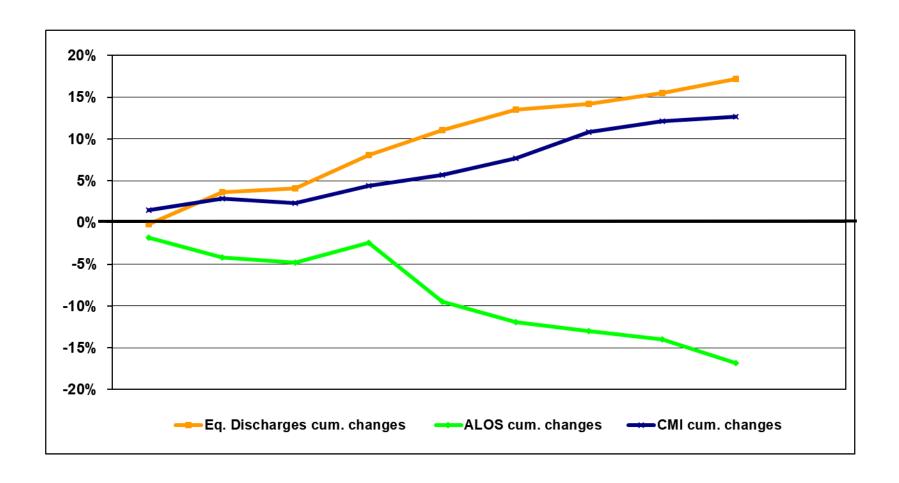
Number of outpatient visits per doctor

Inpatient mortality rate

% of day cases

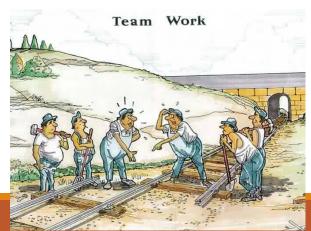
% of inpatients treated by "reserve antibiotics"

ResultsCroatia 2002 – 2016.



Lessons Learned

- ✓ Be clear about what case-mix can and cannot do;
- ✓ To address potential unintended consequences implement DRG systems in a step-wise manner;
- ✓ Stakeholder involvement, specifically with respect to policy/decision-making and ongoing work;
- ✓ Select pilot hospitals with specific attention on their ability to comply with project requirements, timelines, etc;
- ✓ Have meaningful and ongoing collaboration with hospitals;
- ✓ Implementing a monitoring/audit mechanism right away is important;
- ✓ Knowledge transfer is critical for sustainability;
- ✓ Accurate coding and costing is critical; and
- ✓ Coordinate, communicate, and educate.



THE FUTURE DEPENDS UPON THE DECISIONS MADE TODAY

"Will we look into the eyes of our children and confess that we had the opportunity, but lacked the courage?"



Thank you!

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