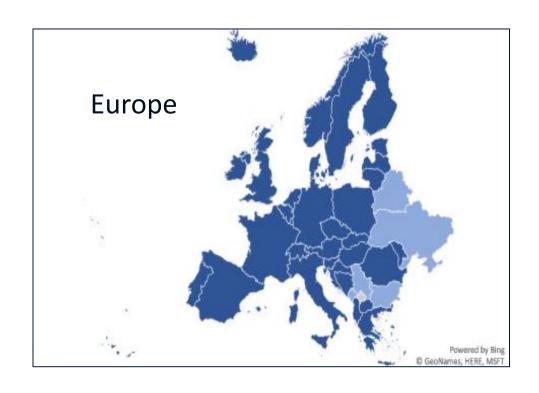


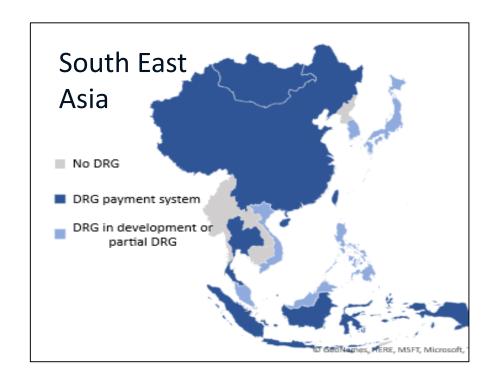


## Developing a Strategic Phase-in for DRGs: What is the Global Experience?

Caryn Bredenkamp Lead Economist and Program Leader for Human Development in Eastern Europe

# DRGs are widely used as a payment mechanism for hospital inpatient care





DRGs are also used in the Russian Federation, Australia, New Zealand, US Medicare system and some US states...



### Lessons learned from nine countries' transitions to DRGs



United States (U.S.) Medicare

Australia

Germany

Estonia

Thailand

Kyrgyz Republic

Croatia

China (Beijing)

**Russian Federation** 

Bredenkamp, Bales and Kahur. 2020. Transition to DRG Payment for Health: Lessons from Case Studies



## Transition to DRG Payments for Health – Lessons Learned

- 1. Be clear about the purpose
- 2. Early on, establish a DRG unit (or at least a team) to drive DRG development
- 3. Adopting a grouper, rather than building a new one, makes good sense
- 4. Hospital charge data, where available, could be used as cost weight proxies initially
- 5. A hard budget ceiling is needed to prevent cost escalation
- 6. Phasing in DRGs is needed to learn, adjust, and manage financial risk and political opposition
- All stakeholders (especially hospitals) should be involved early on; transparency in all processes and decisions is essential
- 8. A DRG system requires continuous maintenance; DRG transition is never truly complete.



## Be clear about your purpose – and communicate it

Efficiency, cost containment and sustainability, transparency and fairness in resource allocation, information

#### Fee-for-service systems

U.S., Estonia, Beijing, Russian Federation...

- Reduce over-servicing
- Reduce ALOS

=> DRGs without global budgets (and faced continued challenges with cost containment)

#### Budget-based systems

Most European countries, Australia, Thailand....

- Admit more cases
- Treat more complex cases

=> DRGs with global budgets

Case-based payment systems may also want to progress to DRGs (with global budgets): increased efficiency and fairness in financing, greater transparency, performance monitoring and benchmarking.



## Early on, establish a DRG unit – or at least a team – to drive the transition

- Australia: Australian Casemix Development Program well-resourced, well-supported, collaborative
- Estonia: Team within the Estonian Health Insurance Fund.
- Beijing: Beijing DRG Project Team, plus DRG Technical Review Committee to review grouping and relative weights.

#### Eventually, institutions that can maintain the DRG grouper are also needed.

Not necessarily located within a national ministry of health or a health insurance fund

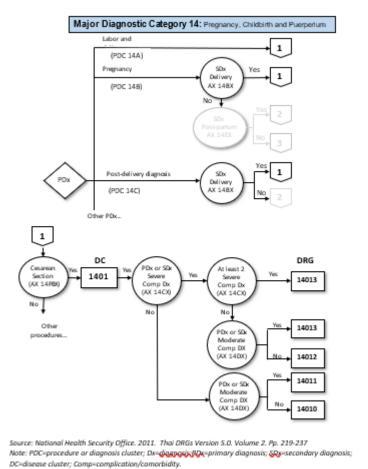




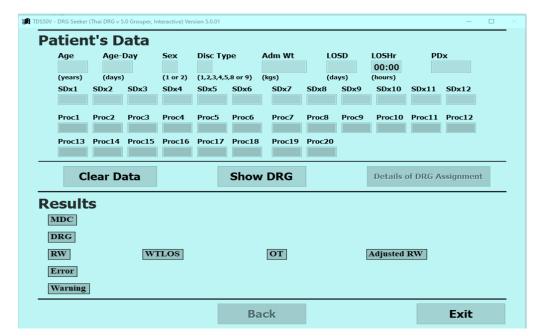




## Grouper is at the heart of a DRG classification (and payment) system



A grouper (using software/program) assigns treatment cases to a DRG, using data on hospital discharges including on major diagnosis, other diagnoses, medical procedures, patient characteristics, length of stay, etc.



Example: Thai DRG grouping algorithm for C-section

Example: Thai DRG grouper interactive software



## Most countries adopt (and later adapt) an existing grouper

- Build: U.S. Medicare (pioneer) HCFA-DRG; Russian Federation
- Adopt: Most countries adopted their groupers
  - => Australia adopted HCFA-DRG, then built AN-DRG and then AR-DRG
  - => Germany adopted AR-DRG, then built its own
  - => Thailand adopted HCFA-DRG, then AR-DRG, then built Thai-DRG
  - => Beijing B-DRG follows logic of AR-DRG
  - => Kyrgyz Republic adopted HCFA-DRG
  - => Estonia adopted NordDRG (which was based on HCFA-DRG)
- Which grouper to adopt? Adoption requires that similar primary diagnosis and procedure coding systems be in place in both countries



## DRG phase-in strategy that manages financial risk and allows adjustment

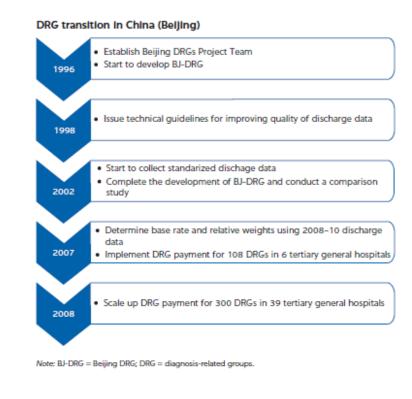
#### **Budget neutral phase**

- Report using DRGs, but not yet paid by DRGs => simulate hypothetical revenues
- Piloting operational issues

#### **DRG** scale-up phase

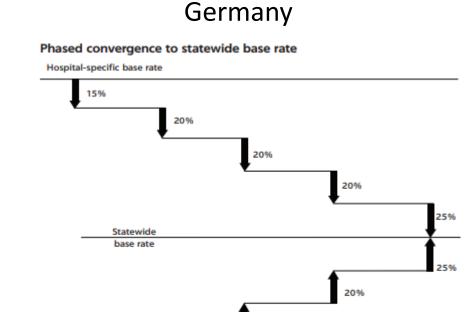
- By geography (Russian Federation, Croatia, Kyrgyz Republic)
- By hospital type (Beijing)
- Partial DRGs (Beijing)
- Other Estonia, Germany







# Germany and Estonia implemented DRGs simultaneously country-wide while still managing the financial risk of providers



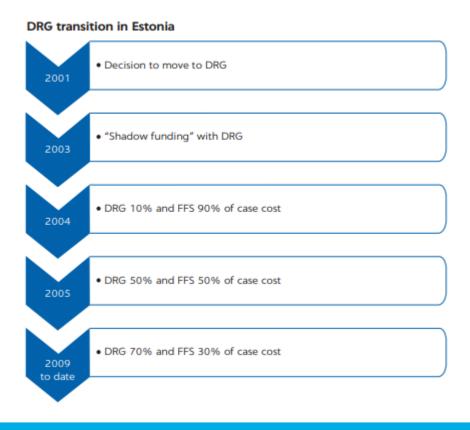
20%

2008

2009

2007

#### Estonia





15%

Hospital-specific base rate

2006

2005

#### All successful DRG transitions takes time

#### **Technical design**

- Classification: coding systems (diagnosis, procedure), grouper,
- Costing: RW, global budget and base rates, adjustment factors

#### Capacity—building

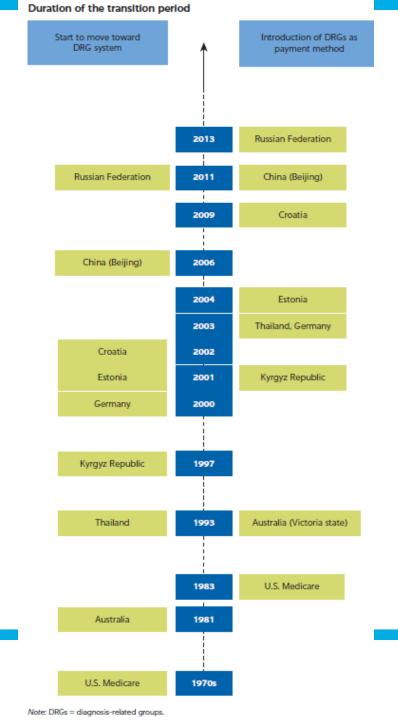
- Coding quality
- Costing
- Information systems
- Monitoring....

#### **Phasing-in DRGs**

- Simulations
- Piloting
- Gradually increasing share of payment that is paid by DRG
- Monitoring and evaluation

#### **Stakeholder engagement**









## Thank you