



Global Review of Pay for Performance and Financing Systems

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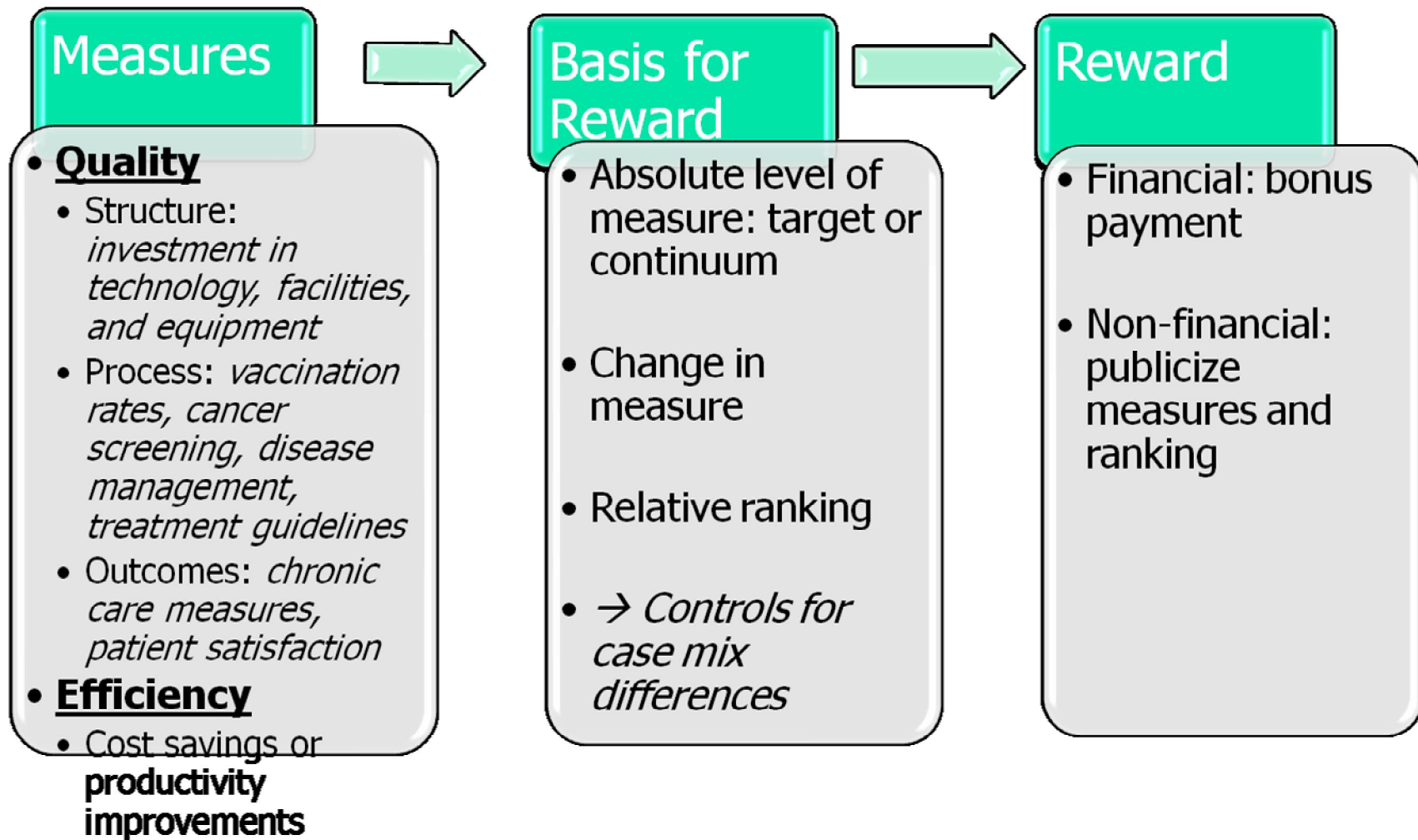
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The First Pay for Performance Program: Emperor Qin Shi Huang's



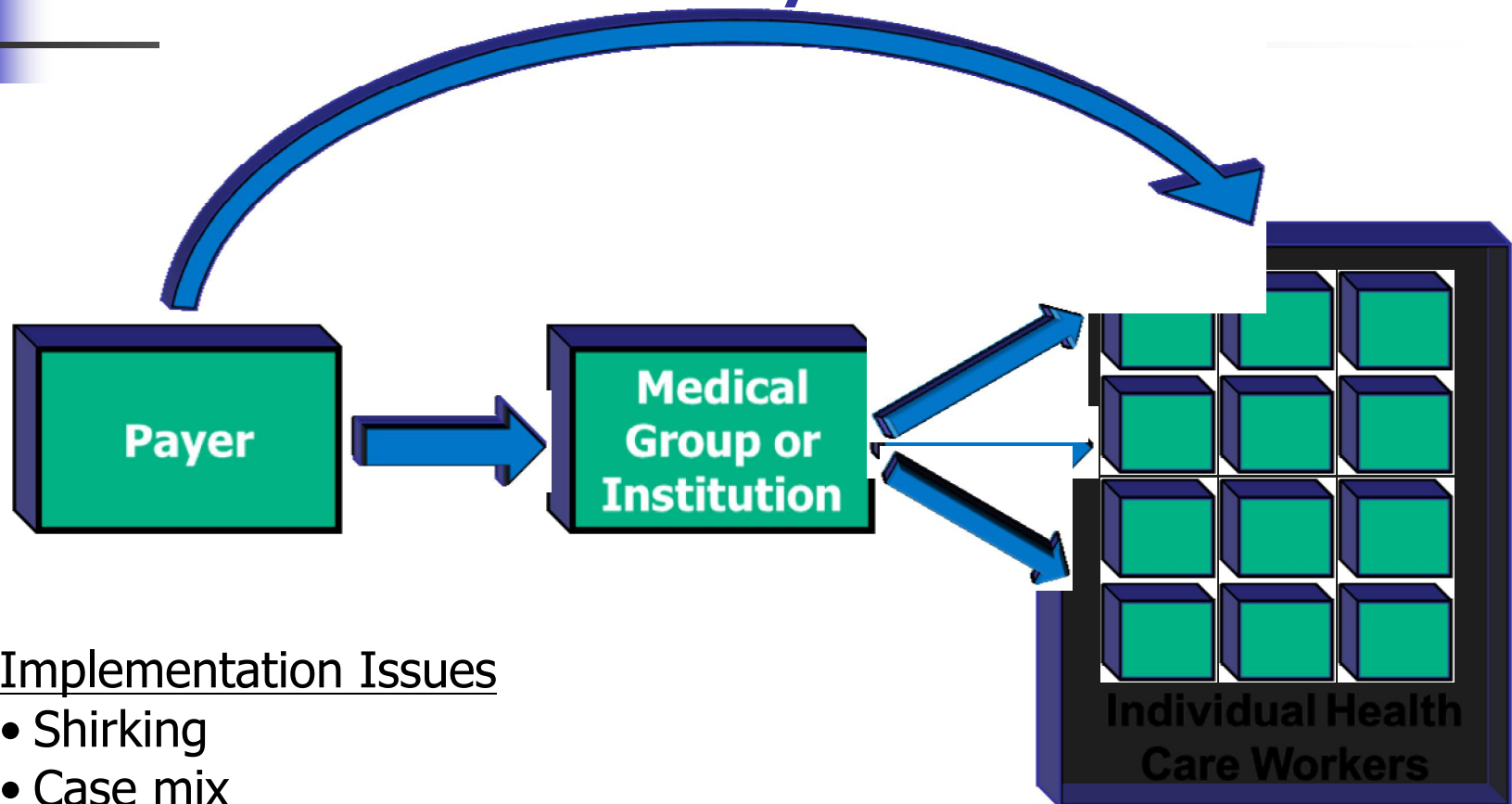
Emperor of Qin Dynasty
(259 BCE – 210 BCE)

Framework of P4P Programs



Source: Adopted from Scheffler RM: *Is There a Doctor in the House? Market Signals and Tomorrow's Supply of Doctors*, Stanford University Press, 2008.

P4P Reward Payment Models



Implementation Issues

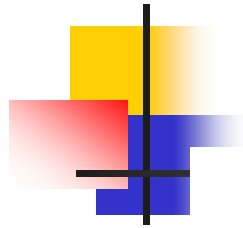
- Shirking
- Case mix
- Medical groups and institutions have multiple payers

Source: Adopted from Scheffler RM: *Is There a Doctor in the House? Market Signals and Tomorrow's Supply of Doctors*, Stanford University Press, 2008.

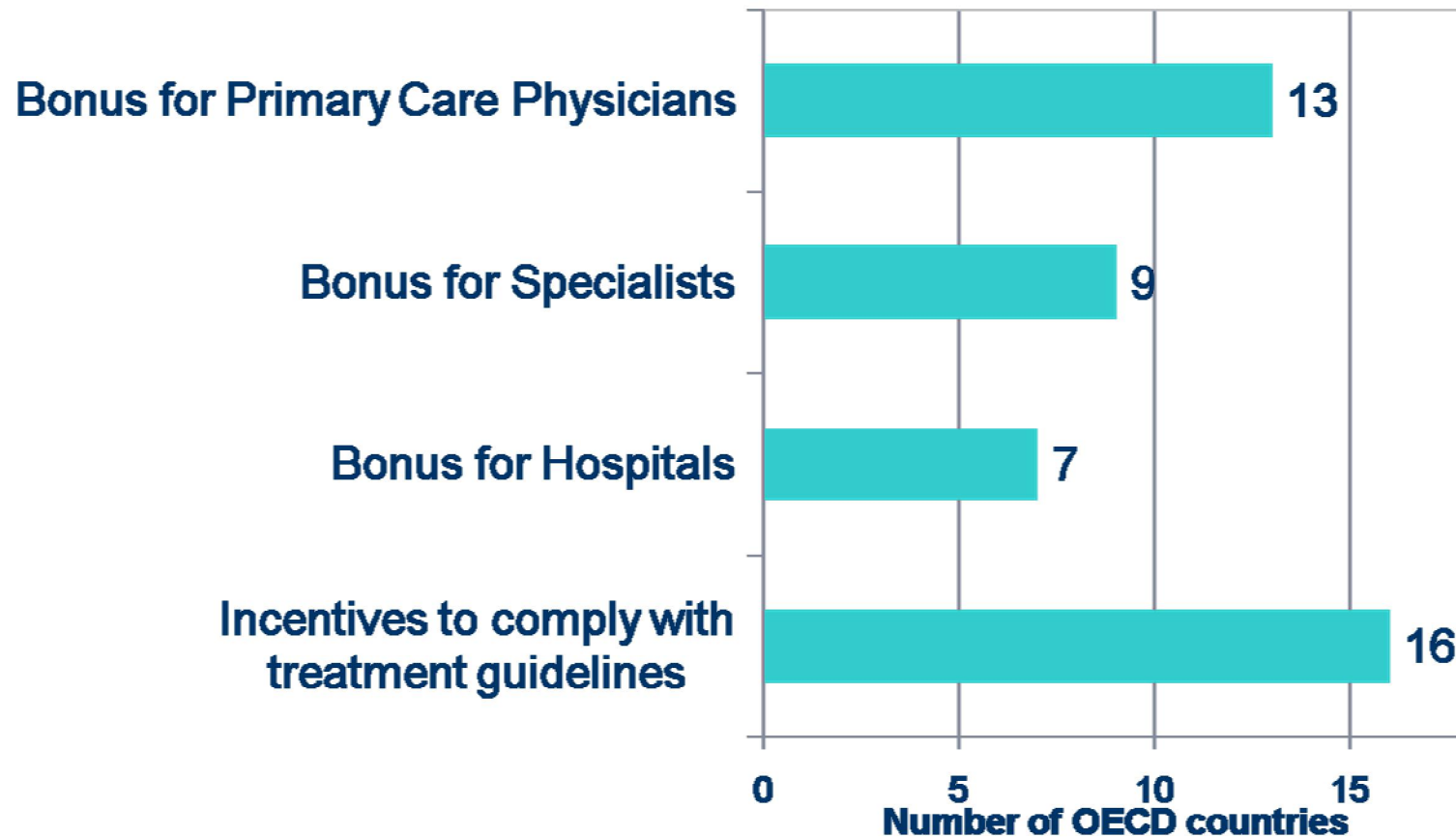
OECD Survey on Health System Characteristics 2008-2009



- All OECD countries, except the United States replied to the survey
- Questions related to P4P
 - Whether country had bonus payments for primary care physicians, specialists, and hospitals
 - Proportion who earn bonuses and size of bonus
 - Types of measures: preventative care, chronic disease, patient satisfaction, clinical outcomes

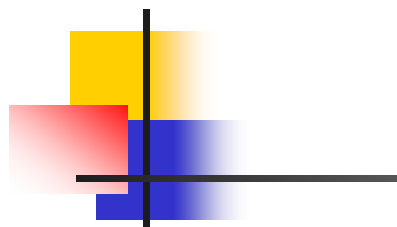


OECD P4P Survey Results



Source: OECD Survey on Health System Characteristics 2008-2009 (including the United States). Data for Sweden not available.

OECD P4P Country-Level Survey Results (continued)



| Bonus payments to: | Country Name |
|---------------------------------|--|
| Primary care physicians (PCP) | Australia, Hungary, Italy, New-Zealand, Portugal |
| Hospitals | Luxembourg |
| PCP and specialists | Czech Rep., Poland, Spain |
| Specialists and hospitals | Slovak Rep. |
| PCP, specialists, and hospitals | Belgium, Japan, Turkey, UK, USA |

Source: OECD Survey on Health System Characteristics 2008-2009 (including the United States). Data for Sweden not available.



OECD Survey Findings

- Pay for performance programs reported in 19 OECD countries
- Number of countries that had bonuses for:
 - Primary care physicians (15)
 - Specialists (10)
 - Hospitals (7)
- Most bonuses are for quality of care targets such as:
 - Preventive care
 - Management of chronic diseases



Goal of Provider Pay for Performance

- Principal-agent problem and asymmetric information
 - Principal (payer) hires agent (provider); they have different objectives
 - Provider has more information about health production function than payer
- P4P's goal is to better align provider's objective with payer's
 - Provider's information advantage
 - Provider is risk averse



Incentives are design to change mix of services and inputs

- Health care service mix
 - Chronic disease management to avoid inpatient stays
- Input mix used to produce those services
 - Health workforce mix



Six Factors to Assess Provider P4P's Effect on Health

- 1. Health-increasing substitution (+)
 - Incentives' goal is for new mix of services and inputs to increase health
- 2. Health-decreasing substitution (-)
 - Incentives can be perverse, where providers substitute away from unrewarded, yet important, dimensions because they are unobserved or unmeasurable



Six Factors to Assess Provider P4P's Effect on Health (cont.)

- 3. Provider surplus extraction (e.g., increased provider effort) (+)
 - Provide incentives to increase workers' effort, where increased effort could be for output (LICs) or quality (HICs)
 - Example
 - Before P4P: \$100,000 salary with effort e_1
 - After P4P:
 - \$90,000 salary plus bonus \$0 to \$20,000, with expected value of \$10,000 with effort e_2 , where $e_2 > e_1$
 - Impacts
 - Some workers will quit
 - Remaining workers willing to expend effort e_2



Six Factors to Assess Provider P4P's Effect on Health (cont.)

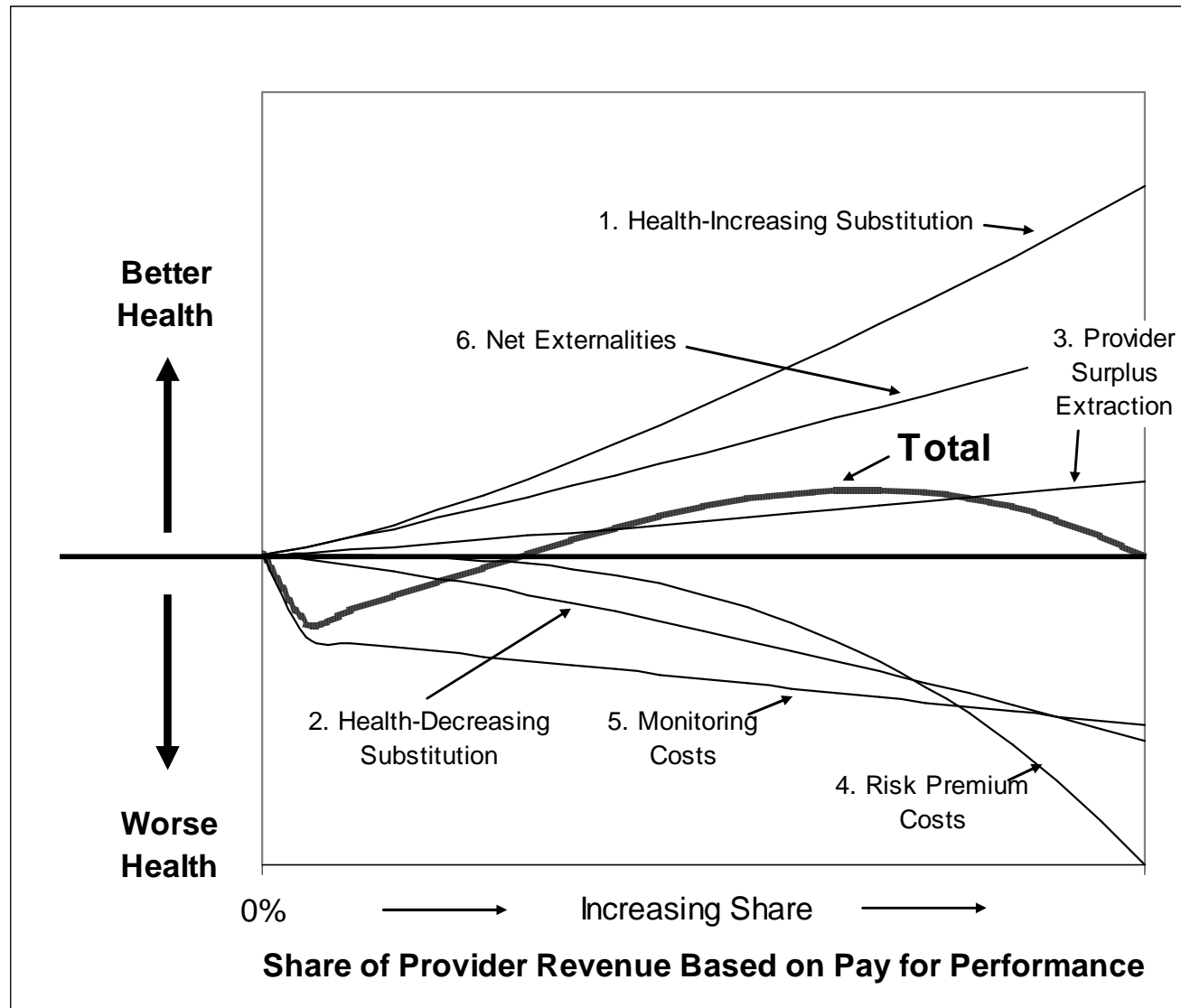
- 4. Risk premium costs (-)
 - Need to compensate provider for taking on risk, i.e., for being rewarded for factors beyond its control
 - Risk premium costs decrease health, because less budget available for health care services



Six Factors to Assess Provider P4P's Effect on Health (cont.)

- 5. Monitoring costs (-)
 - Monitoring costs decrease health, because less budget available for health care services
- 6. Net externalities (+ or -)
 - Positive or negative effects on health, beyond the explicit P4P measures
 - Positive – better governance and information systems
 - Negative – workers become less team-oriented

Six Factors to Assess Provider P4P's Effect on Health





California Pay for Performance Program

- Overview

- Eight commercial HMO health plans, covering 11.5 million enrollees, and approximately 230 physician groups with 35,000 physicians
- 68 measures in five domains: clinical quality, patient experience, information technology-enabled systemness, coordinated diabetes care, and resource use and efficiency (gain sharing)

- Key Factors to Assess

- Health-increasing substitution: likely low because bonuses represented 2% of physician groups' revenues (1)
- High monitoring costs (5)



United Kingdom Quality and Outcomes Framework

- Overview
 - 134 indicators in four domains: clinical, organizational, patient experience, and additional services
- Key Factors to Assess
 - Increase in provider effort was low, because targets set too low (3)
 - Paid too much for moderate risk exposure (4)
 - High monitoring costs (5)



New Zealand Primary Health Organization (PHO) Performance Programme

- Overview

- Incentives paid to Primary Health Organization
- Maximum bonus adds only \$8.24 to capitated payment
- 10 performance indicators, including cardiovascular disease screening and diabetes follow-up

- Key Factors to Assess

- Health-increasing substitution and increase in provider effort both low, because bonuses were too low and they did not reach workers (1, 3)
- Net externalities may be large because of better governance and data systems, as a result of P4P (6)



Zambian Health Results Based Financing

- Overview

- Pilot began in 2009
- Fee for service payments to increase utilization (e.g., antenatal care visits, institutional deliveries by skilled birth attendant, immunizations)
- FFS payments adjusted based on quality measures
- FFS payments up to 20% of facility's routine funding
 - Facility may allocate up to 30% of its FFS payment to worker salary bonuses

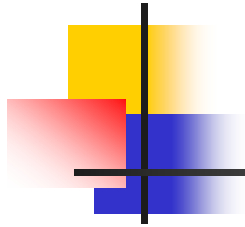
- Key Factors to Assess

- Expect provider surplus extraction/increase in provider effort, similar to Rwanda (3)
- Risk premium costs may be moderate to high (4)



Conclusion

- The 6 factors that we identified can be used to better design P4P programs
- P4P programs are growing rapidly in the OECD countries
- Well designed impact evaluations of P4P in the OECD are lacking



THANK YOU VERY MUCH!

QUESTIONS?