Technical Forum Session 2. Looking beyond DRGs Controlling costs and quality by a regulated fee FFS system in Japan Impact of introducing DRG type payment -

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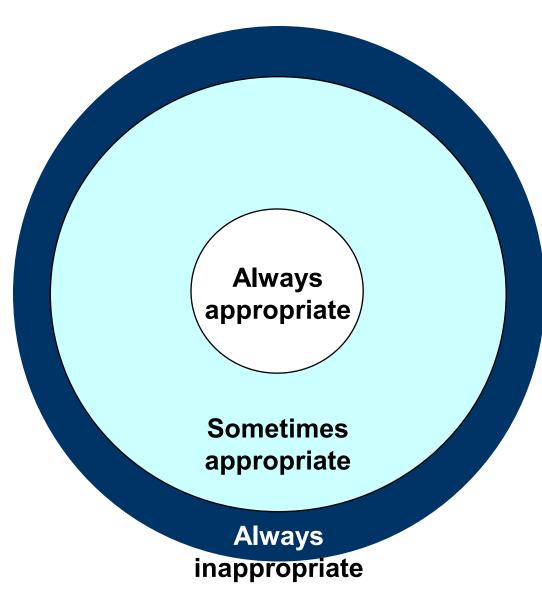
Why health policy is so difficult

- Nature of demand: Inelastic (all patients want best)
- Nature of healthcare: Egalitarian standards (poor have the same rights)
 - Rich must not only pay for the care of the poor, they must also be satisfied with the same level of quality
- Nature of supply: Flexible (physicians have professional autonomy) and no consensus on how much physicians should be paid
 - Costs on demand side = Revenue on provider side
 - Average income of physicians: Should it be twice or twenty times the average worker? Hospital's profit margin: 0% or 20%?

How much should physicians earn? No one knows→ Negotiable



What is appropriate treatment?



"Appropriate" depends on:

- 1) Each physician's training and experience etc.
- 2) Where the physician practices
- 3) How the physician is paid

Capitation: "appropriate" will decrease, nothing may be delivered

DRG: "appropriate" will decrease, upcode to a higher paid DRG group

FFS: "appropriate" will increase, but can be regulated→ Japan's case

Controlling costs and quality in Japan

Plans: Multiple

 Employmentbased plans (1,500 plans)

 Local government based plans (1,800 plans) Single payment

Fee schedule

Providers: Private sector dominated

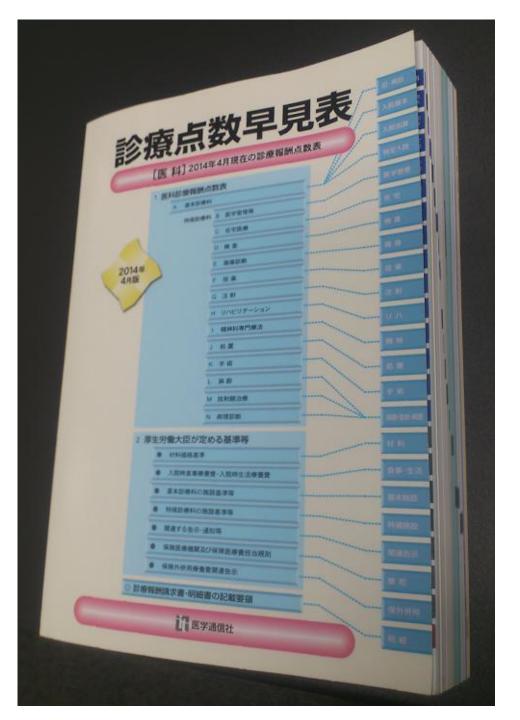
Hospitals (80%)

Physician offices (95%)

Sets price and conditions for billing

95%+ of providers' revenue comes from services with prices set by fee schedule

2,000+ pages
Sets fees &
conditions of
payment



Controlling volume & quality by setting the conditions of billing

- To bill for rehab therapy, must meet the following conditions:
 - Hospital employs 5+ PTs, rehab floor space > 160 m²
 - Patient has had stroke or injury within the last 180 days
- On-site audits by the Ministry's regional office to check whether items billed had met the conditions
 - If not met, then hospital must pay back the amount the items inappropriately billed in the past 6 to 12 months
 - If found to be systematic, hospital may loose HI license

Prerequisite for control: Prohibit balance billing, regulate extra billing

- If a hospital is found to have balanced bill, or to have extra billed for service not allowed, it must pay back the <u>entire</u> amount that had been billed to the insurers and the patients
 - Hospitals must give patients a detailed breakdown of the services delivered and the copayment amount of each
- Extra billing is in principle restricted to the below:
 - Extra-charge beds with better amenity etc.
 - New procedures being tested for efficacy and safety
 - Hospital must be approved before it can test new procedure
 - Hospital must submit data
 - If proved effective, then listed in the fee schedule

Revisions of the Fee Schedule

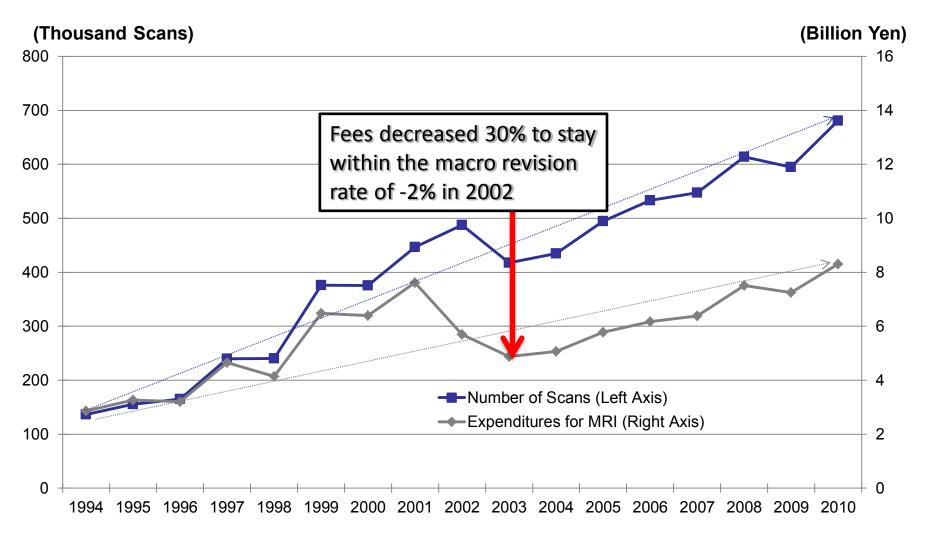
Revised every two years: 3 Steps

- •1st Step: Setting the macro revision rate
 - Next year's expenditures = (Last year's expenditures) X (macro revision rate + increases due to non-price factor α)
 - α: Shifts to more expensive services due to advances in technology (CT→MRI),
 + increases in volume due to aging etc.
 - α: Rate for past 3 years (2-3%/year) used
 - Macro revision rate effectively sets the global budget
- 2nd Step: Revise drug prices
 - Based on market survey (explained later) and volume of new drugs sold
- •3rd Step: Revise the fee & billing conditions of each item
 - Σ (fee adjusted↑↓) x (conditions tightened or loosened) =
 Global budget (as set by the macro revision rate)

Examples of item-by item revisions

- Volume of each item from the national claims data
- Item-by-item revisions negotiated for 2010 revision
 - Repeat consultation fee in clinics: 710 Yen→ 690 Yen
 - Impact: Volume 63,478,641@▲ 20 Yen = ▲ 126,957,282 Yen
 - Arthroplasty fee: 265,000 Yen → 398,500 Yen
 - Impact: Volume 486 @ △135,500 Yen = △ 64,881,000 Yen
- Cumulative effect made equal to the macro revision rate, as has been set by the prime minister
 - Heated negotiations between the Ministry and provider organizations in revising each fee and condition
 - Cost increases must be balanced with cost decreases

Impact of MRI scan fee reductions on costs



Source: Ministry of Health, Labour and Welfare (MHLW) "Survey of Medical Care Activities in Public Health Insurance"

How drug prices are decreased ⇒Drug price survey and competition

Fee schedule sets the price of a product at \$10 per tablet



Health Ministry survey of wholesalers shows the volume & price of product X as:

10,000 tablets sold @ \$9:50 (\$0.5 profit to providers)

10,000 tablets sold @ \$9:00 (\$1.0 profit to providers)

10,000 tablets sold @ \$8:50 (\$1.5 profit to providers)

Volume weighted average market price for one tablet was \$9.00

Revised fee schedule price for one tablet is \$9.18

2% margin allowed

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Starting price for the next round of negotiations by providers and wholesalers on the purchasing price

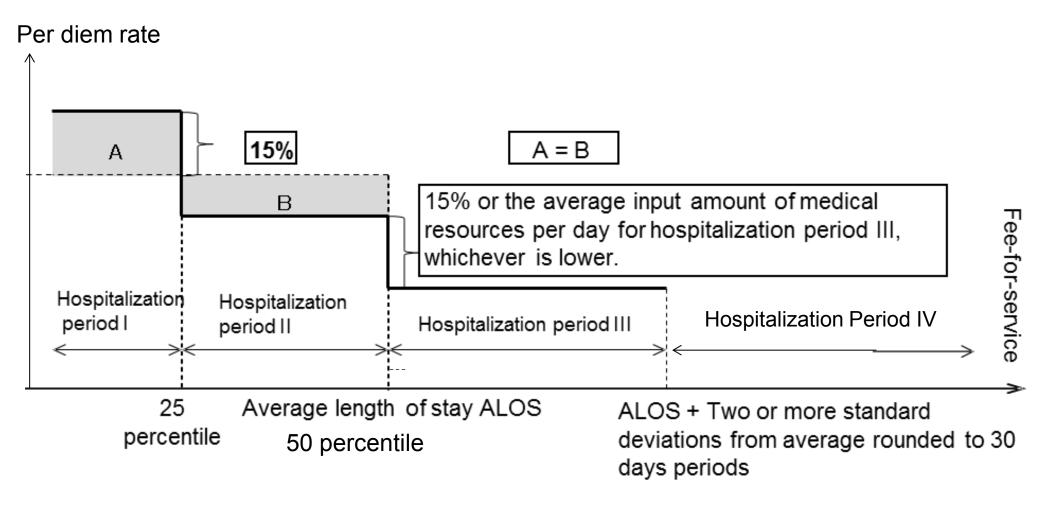
Health Ministry Council meeting: Composed of members from payers, providers and academia



DRG type payment introduced in 2003

- Why: Payers <u>believed</u> that FFS was inflationary, despite relative success in containing costs
- Providers opposed and so the following was decided:
 - Develop Japanese form of inclusive payment for acute inpatient care: Diagnosis Procedure Combination (DPC)
 - Payment is per day (diem), not for each admission
 - Rate declines as hospital stay extends (four hospitalization periods)
 - Only drugs, lab tests, imaging included; surgeries, anesthesia, rehab, devices (artificial joints) etc. are fee for service (FFS)
 - Hospital specific adjustment factor to make up the differences in payment between FFS and DRG
 - Initially, only for the 82 university main hospitals

Declining per diem rate as length of stay increases: 4 periods



Payment to the hospital

- Hospital revenue: (∑ Per diem rate X No. of days in each period) X adjustment factor X conversion factor
- Adjustment factor: Guarantees the same amount of revenue as under FFS
 - Under FFS \$1 million, DPC \$0.8 million, factor: 1.25
 - Gradually phased out from 2012 (cease in April, 2018)
- Conversion factors: Based on policy goals
 - Shorter average lengths of stay adjusted for case-mix
 - Compensate emergency care (not able to conduct diagnostic tests before admission) etc.

What happened after DPC introduction

- Hospitals opting for DPC increased dramatically: from 82 (2003) to 1,667 (2016): nearly all acute hospitals
- In addition to guaranteeing the same amount of revenue for inpatient care with the adjustment factor, revenue was increased by transferring procedures to outpatient care
 - CT, MRI performed before discharge → after discharge
- Services and length of stays became more standardized
 - No more antibiotic drip infusion every day while hospitalized
 - Clinical pathways became popular
- Database of hospital's DPC composition, length of stay etc.
 - Can be used for regional planning, marketing by hospitals

Summary

- Japan has contained healthcare costs despite feefor-service payment by imposing a global budget, and regulating not only the fees, but also the volume by setting the conditions of payment
- Maintained equity and quality by paying the same amount for the same service, and by restricting extra-billing and prohibiting balance billing
- Forced public sector hospitals to compare their performance with the private sector
- No magic bullet solutions in healthcare: Develop infrastructure and maintain constant vigilance

Data overview of Japan (OECD, 2015)

Population	127.3 million
GDP	5.16 trillion USD
Total health expenditure per GDP	10.9%
Total health expenditure per capita	4,436 USD
Public expenditure of THE	84%
Life expectancy at birth	83.9 years
Physicians per capita (1,000)	2.4
Nurses per capita (1,000)	11.0
Hospital beds (1,000)	13.2

For more information

See freely downloadable report:
 http://documents.worldbank.org/curated/en/2014
 /09/20278271/universal-health-coverage-inclusive-sustainable-development-lessons-japan