Adapting Health Technology Assessment to Changing Health Care and Social Context Bridging research and policy decisions

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- □ HTA/CDE/TFDA
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Health Care in Taiwan

- Total health expenditure 6.62% of GDP
- National Health Insurance (NHI)
 - Introduced in 1995
 - Mandatory, single-payer social health insurance
 - Comprehensive
 - Low premium & low co-payment
 - Universal coverage(99.9%)
 - Public satisfaction(80.4%)



Second Generation NHI Act in Taiwan

- Implemented since January 1st, 2013
- HTA is officially written into law for drugs, devices, and medical services
- **Evaluation of the HTA dossier conducted in CDE, TFDA.**
- If needed, recommendation of reimbursement forwarded to Expert Meeting, then to Pharmaceutical Benefits & Reimbursement Scheme (PBRS), NHIA
- Expand public participation, relevant government agencies, experts, scholars, the insured, employers, medical providers, drug company and patients group in PBRS



PBRS





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COMMENTS

May 23, 2014, 08:00 am

Taiwan: A model in affordable health technology

By Wen-Ta Chiu, M.D., Ph.D



Taiwan realized the goal of providing universal health care coverage by launching the National Health Insurance (NHI) program in 1995. Covering 99.9 percent of the population, including prison inmates, the NHI gives patients access to care ranging from Western drugs and procedures to traditional Chinese medicine. The initiative was ahead of its time, with the World Health Assembly (WHA)—the decision-making body of the World Health Organization—passing



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Tasks of HTA office, CDE

- New drug application
 - Mostly about new chemical entity
 - HTA reports completed in 42 days
- New medical device application
 - Only for large impact applications or by requests
- Commissioned research topics
 - Cost-effectiveness analysis of certain (or multiple) products
 - BIA under reimbursement criteria change
- HTA system research
 - Worldwide HTA systems
 - Latest methodology
- Promotion/education



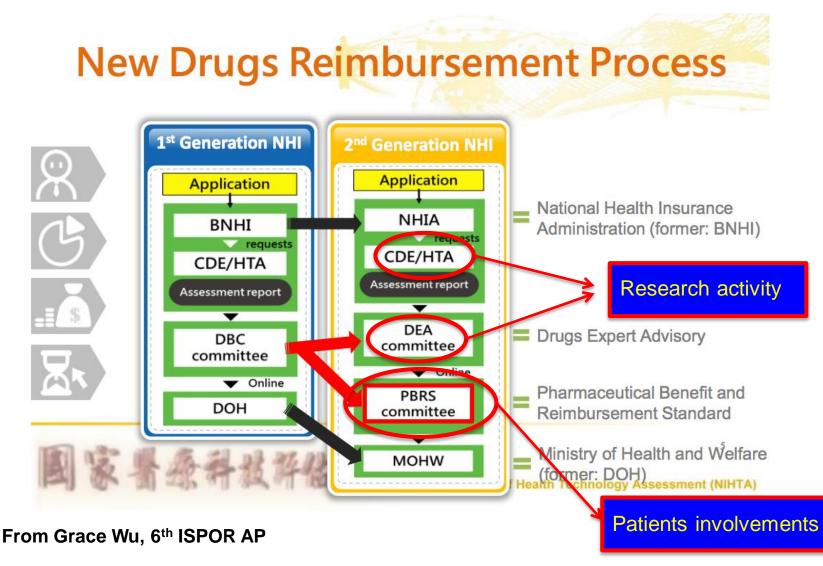
HTA Practice in Taiwan

before and after 2013

- Mainly in HTA policy establishment
- HTA agency in CDE is mostly for assessment only
- Lack of academic HTA activities
- HTA dossier provided by pharma consists of unified PE model that adapting local clinical, effectiveness, cost information and local BIA
- **D** Threshold of willingness to pay to ICER is seldom known
- Negotiated price is lack of scientific evidence
- 204 drugs, 38 breakthrough drugs, 8 medical devices evaluated (2007~2013)
- In 16 HTA cases evaluated in 2013, 8 in 2014(6/30), 3 out of 24 with economical models
- **D** Future NiHTA office to take over the HTA working group



HTA Practice in NHIA





Academic HTA Contribution

- □ NiHTA (NICE?)
- □ Academia, TaSPOR
- Bridging between research and health policy decision process
- Independent from making decision on medication and reimbursement approval
- HTA policy recommendation
- Research in various HTA methodologies
- Collaborations with HTA agency and pharma industry



Vaccine Policy Decision Making

- Licensing Vaccine in TFDA
- HTA only applies to medication to be reimbursed under NHI Act 2nd generation, (< 5 local HTA cases)
- Marketed vaccine evaluated by TFDA
- Public vaccination evaluated by ACIP, CDC
- Unclear of HTA procedures in public vaccination policy
- Academic vaccine HTA research
- Different social impact
- Different strategic approach for pricing

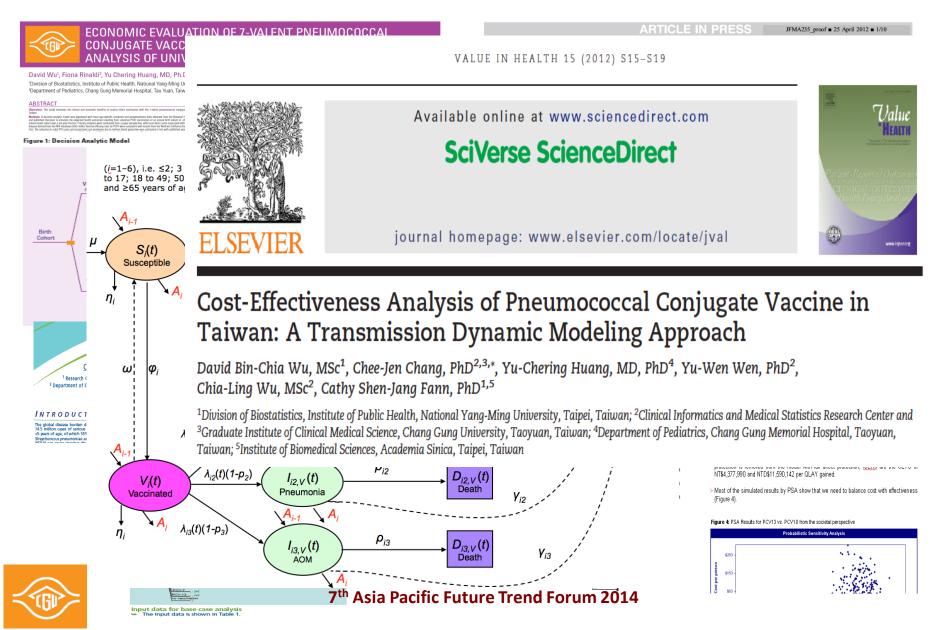


CEA Study of PCV

- Streptococcus pneumonia (SP) has caused invasive pneumococcal diseases IPD and non-IPD (pneumonia, leading to high morbidity and mortality in infants and the elderly worldwide and also in Taiwan
- Three Pneumococcal Conjugate Vaccine (PCV7, PHiD-CV, and PCV13) have been developed, marketed, and seek for public vaccination in Taiwan
- CDC limited budgets, needs a HTA-like assessment to make decision
- Threshold of willingness to pay is unclear, PCV and other vaccination policy is subject to total available budgets and unit price of vaccine



Research of PCV CEA Studies



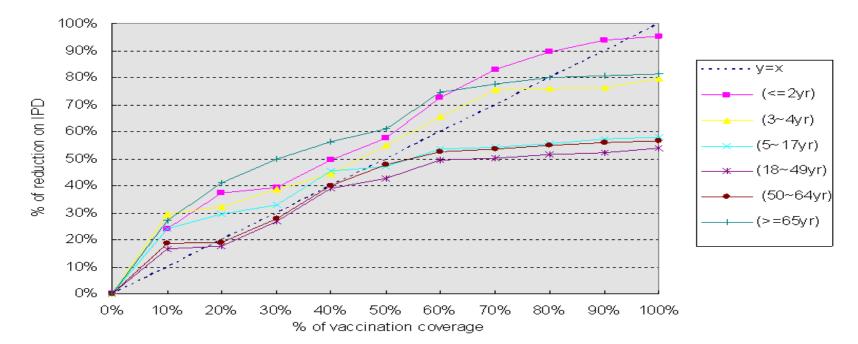
CEA is just part of HTA

- Assessments and appraisals within CDC
- ICER threshold, still three times of GDP per capita?
- Unit price? the most sensitivity factor in sensitivity analysis
- **U** Which outcome drives the price?
- Priority setting for public vaccination



Researches in Model Outcomes

- % reduction on IPD vs. % vaccination coverage



Other Researches are still on going

- Total LY saved by % coverage
- Total direct cost by % coverage and unit price
- Total LY saved by PCV in children and by PPV(PCV) in elderly
- etc.,



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Key Takeaways

- HTA is definitely a process involving different research specialties
- Health care policy establishment involves clinical, public health, medication, device, care treatment, insurance, and economics BUT policy making is politically sensitive
- Research can only bridge part of the gap
- In PBRS, care giver, recipient and policy maker need to have mutual understanding in a greater common ground



Next Steps

Nihta

- More HTA educations and trainings within academic centers and to health authority
- Collaborations among academia with CDE HTA group
- Budget impact issues
- Patients involvements in exercising HTA



Thanks for your attentions!

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