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### Identifying existing health care services that do not provide value for money

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### Background documents

- Elshaug AG\*, Bessen T\* (\* equal 1<sup>st</sup> author), Moss JR and Hiller JE. Addressing 'waste' in diagnostic imaging: Some implications of comparative effectiveness research. *Journal of the American College of Radiology*, (Accepted 17 March, 2010). 

  □ ∠ □
- Elshaug AG, Moss JR, Littlejohns P, Karnon J, Merlin TL and Hiller JE. Identifying en spings health care services that do not provide value for money. *Medical Journal of Aus Palia* 2009; 190(5): 269-273.
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- **Elshaug AG**, Watt AM, Moss JR, and Hiller JE. *Policy perspectives on the obsolescence of health technologies in Canada* [internal manuscript HTS Policy Forum discussion paper]. Ottawa: Canadian Agency for Drugs and Technologies in Health (CADTH); 2009.







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### Comparative effectiveness, comparative value

"There is substantial overuse, under use, and misuse of medical care in the United States Interventions that are of little value are commonly overused; care that is effective is commonly underused; and care that is of Spending on medical interventions continues increase without evidence that doing more results in better outcomes or better patient ratisfaction"

Wennberg as quoted in Daniels S. The leader's guide to hospital case management (2005), p. 187









### And the community is noticing

## "In the last 2 years, doctors recommended treatment you thought had little or no benefit?"

							(D
Country	Aust	Can	Ger	Neth	NZ	UK	Dr Adam eproducen ngg giver
Sample (N)	1009	3003	1407	1557	1000	1434	2500withou
							ut per
Response	17%	12%	20%	13%	15%	10%	20%
					_		0

Cathy Schoen et al. Toward higher performance... Health Affairs. 2007, 26(6); 717-734. Adapted from Exhibit 2, page. 721

Original Source: Commonwealth Fund International Health Policy Survey, 2007.



"So much is expected, by the public and by politicians. But resources are finite and choices have to be made about where and how to invest – and disinvest – to make the most out of the nation's funding for health" (NICE, 2006)

- Economic imperative (sustainability)
- Ethical imperative (quality of care)
- Best practice imperative (excellence)









### What should we call it?

### Disinvestment:

- Withdrawal (partial or complete) of resources
- From practices/procedures/pharmaceuticals /technologies/ programs that deliver no or low hea監複 + are thereby thereby <u>gain</u>
- Not efficient use of health resources
- Freeing resources for more effective, safe, cost effective and prioritised health services









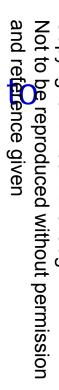
### What should we call it?

Disinvestment - lukewarm reception "dis-" infers a negative or reversing force; undo (an investment)

- Displacement + reallocation
- Reassessment for Reinvestment
- Comparative effectiveness/value
- Retrenchment
- Obsolescence









### Disinvestment # obsolescence

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### Disinvestment + opportunity cost

- Does not entail an all or nothing approach
  - can occur in degrees
- Re-focuses on the positive
  - Reallocation of funding
    - To safe + effective interventions
    - To patient groups most likely to benefit
- For health gain resulting from the better deployment of health resources







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### Disinvestment # rationing









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## Disinvestment = controversy (one person's waste...)



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### Brief history: USA



1976: Blue Cross Blue Shield Medical Necessity Project

- 76 "outmoded and useless procedures"

1978: National Center for Health Care Technology

- \$4mill budget, 20 staff
- 'multifaceted assessments'
- disbanded in 1982 opposition from interest groups (eg AMA) + Republican administration







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### Brief history: Canada



1990s: 'De-listing' activities at provincial level

- 46 procedures/tests removed
- 46 procedures/tests removed
   selection varied in specificity with no criteria interest groups pressured for items to escape permissior review/consideration
- highly variable adoption across provinces









### Brief history: UK - 2005



- Disinvestment coined by NHS as formal poligy g
- Fourth stream of system reform: clinical was
  - underuse, overuse and misuse of services
- Disinvestment an explicit part of NICE's guideline remit to Primary Care Trusts
  - NICE 'Optimal Practice Reviews'
  - Disinvestment is optional
  - Variability of uptake across PCTs
  - New debate around the need for regulation







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### Brief history: Spain (inc Basque) - 2009



- Basque office for HTA (Osteba)
  - Guideline for Not Funding Technologies (GuNFT)

  - Guideline for Not Funding Technologies (GuNFT)

    Principally for hospital-based disinvestment initiatives

    Ibargoyen-Roteta N, et al. Scanning the horizon of obsolete technologies: possible sources for their identification. Int J Technol Assess Health Care. 2009 25(3):249-54.

    Ilician HTA Agency (avalia-t)

    PriTec web based tool available in English

    Prioritisation of technologies susceptible to post-introductions
- Galician HTA Agency (avalia-t)

  - observation and;
  - The prioritisation of potentially obsolete health technologies
  - http://www.pritectools.com/







### 2009 - A federal government agenda..



- DoHA Health Technology Assessment Review
  - Discussion paper 5 Enhanced Post Market Surveillance

REVIEW OF HEALTH TECHNOLOGY ASSESSMENT IN AUSTRALIA

The discipline of HTA could play a larger role in making recommendations around the disinvestment of health technologies including the:

- identification of ineffective technologies;
- provision of advice recommending reducing or refining the use of technologies; and  $\frac{7}{100}$
- provision of advice recommending the removal of technologies from government and insurance funding schedules altogether<sup>12</sup>.

This would allow reallocation (or reinvestment) of funding to interventions and programs that offer overall health gains more efficiently and could encourage more robust and efficient processes around all health care decision making, not just disinvestment.

12. Elshaug A, et al. MJA 2009;190(5):269-73.

Available at: http://www.health.gov.au/internet/main/publishing.nsf/Content/htareview\_discussion\_paper5

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### Brief history: Recent Australian events



### PAIN WE HAVE TO HAVE

PAIN WE HAVE TO HAVE

Health reform will hurt a lot — but there is no avoiding it

HEALTH accounts for 9 per cent of GDP, a figure that will rise to 12.4 per cent in a little over 20 years. But not all of the money is well spent now and many billions will be wasted in the future without reform. Kevin Rudd made the point in a speech last week when he referred to research that found a common treatment for fractures to the spinal cord had the same benefit as doing nothing. But imagine the howls from doctors who provide the procedure and what they would the procedure and what they

want ever more spent on treatment, the young will resent the increased costs. And the medical workforce will oppose changes to preferred work

will be a valueground. The vit who that cost with touthey cheathard and and D berra \$1.3 billion a year. This would upset supporters of the status quo, but the sooner the squealing starts the sooner the reforms will begin.



Australian

17/8/09



### Genuine support from the highest level...

"a fairer more sustainable health systemegiven cola Roxon, MP. [Australian] Federal Health Minister, 2009



### Challenges (1)

Lack of resources to build and support policy

Current assessment structures are overwhelmed with applications for new and emerging technologies and hence have limited capacity to address existing services.

(MSAC: 700 pages of documentation at recent meeting – all for new and emerging)







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### Challenges (2)

- Lack of reliable administrative mechanisms to identify and prioritize technologies/practices
- And to develop the evidence needed to underpin decisions around legacy items

- Motivation?
- Directive?
- Resources?
- Data availability and interpretation?







### Challenges (3)

- Political, clinical and social challenges of removing an established technology or practice (entrenchment)
- Resistance to change due to established clinical training and practice paradigms

  Clinical and consumer influence and preferences

  Political sensitivities, interests, and resistance

  Supplier-induced demand

- Incentive and disincentive mechanisms
- The sunk costs of human and physical capital which would thereby become obsolete









### Recent Australian events



### Senator Nick Xenophon on 20 Aug 2009:

http://www.thepunch.com.au/articles/ivf-for-the-richand-infertility-for-the-rest/desc

"Science can deliver this opportunity to thousands of Australians every year who would otherwise be left infertile. Government must not stand in the way"









### Challenges (4)

 Lack of published studies with clear evidence showing existing technologies provide little/no benefit

 Structured processes for decisionmaking with degrees of uncertainty

Accepting different levels of evidence!







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### **Proposed Approaches**

 Identifying and prioritizing practices/technologies for evaluation

- Expanded Horizon Scanning Model
- Explicit, a-priori, transparent, inclusive, (bu removed from vested interests







### Identifying services for 'disinvestment'



- Evidence (safety, effectiveness, C-E)
- Variation (x3: Geographic, Provider, Temporas)
- **Technology Development**
- **Interest or Controversy**
- Consultation
- **Nomination**
- **Assess New-Displace Old**
- Leakage
- Legacy Grandfathering
- Conflict

Elshaug A, et al. Medical Journal of Australia. 2009 Mar 2;190(5):269-73.

### FOR DERATE

### Identifying existing health care services that do not provide value for money

Adam G Elshaug, John R Moss, Peter Littlejohns, Jonathan Karnon, Tracy L Merlin and Janet

n Australia, one projection of total health expenditure (in 2002-03 dollars) envisages an increase from \$71.4 billion in 2002-03 to \$162.3 billion in 2032-33.1 As a proportion of total gross domestic product (GDP), this represents an increase from 9.4% in 2002–03 to 10.8% in 2032–331 — an annual growth of 0.5% above the overall economic growth rate. Coupled with this ojected increase in cost are concerns for the sustainability and quality of the Australian health care system.2 Debate continues on ssues such as hospital emergency and surgery waiting lists models of funding and care, pharmaceutical benefit subsidies, workforce shortages, Indigenous health disadvantage and the role of primary prevention — to name but a few

To address the problems, federal and state/territory jurisdictions have several options, including accepting the increase in the proportion of GDP allocated to health care expenditure, thereby constraining spending in other portfolios, such as educa cost-saving or cost-neutral agenda of resource reallocation within the existing health budget, aimed at improving the quality of care and health outcomes. In Australia, there is scope to identify ineffective interventions (relative to the cost of their subsidy by the taxpayer) and to assess the potential for reducing their use or removing them from government and insurance funding schedules. This would allow reallocation of funding to interventions and programs that offer more in terms of overall health gain and (cost-) effectiveness. As the resources available for health care are finite, this would reduce the extent of unnecessary suffering and premature death arising from the use of health technologies and practices that deliver less than the best-available value for

Here, we propose a dedicated program in Australian health policy that explicitly supports this undertaking. Internationally, the process has been referred to as "disinvestment". 5-7 although it perhaps aligns better with notions of displacement and reallocation, or reinvestment. In the United Kingdom, disinvestment has been adopted by the National Health Service — utilising the services of the National Institute for Health and Clinical Excellence (NICE) — as a formal policy entitled "optimal practice reviews". Spain, France and Canada are also considering, or have adopted similar formal policy initiatives.

These countries recognise that the strategy offers promise in the face of ageing populations, increasing chronic disease, and the ensuing strain on health care sustainability. It also appears ethical to strive for appropriate, high-quality and effective care for the populations (and taxpayers), served at a cost they can afford. Finally, this strategy aligns with one of the "top ideas" developed from the long-term health strategy stream of the Australia 2020

[to] ensure better data for evidence-based allocation of resources . . . [and to use those] data to allocate resources across the system based on hard evidence. Public funding would be added and removed on the basis of clearly demonstrated

- reproduce the duality resource Health systems can be improved appreciably b more efficient and accountable, and enhancing care, without necessarily requiring additional
- Australia, like other nations, cannot escape making difficult health care choices in the context of resource scarcity of the challenge of delivering quality care, informed by best available evidence, to an ageing population with my comorbidities.
- An opportunity exists for a cost-saving or cost-neut of reallocation of resources within the existing health through reducing the use of existing health care interesting that offer little or no benefit relative to the cost of their rule subsidy. This would allow reallocation of funding towards subsidy. This would allow reallocation of funding to interventions that are more cost-effective, maximising health
- Criteria based on those developed for health technology assessment (HTA) might facilitate the systematic and transparent identification of existing, potentially ineliative practices on which to prioritise candidates for assessment to their cost-effectiveness
- The process could be jointly funded by all relevant 🗸 stakeholders but centrally administered, with HTA groups resourced to undertake identification and assessr liaise with clinicians, consumers and funding stakeholder

### Potentially ineffective health care practices

A policy of identifying and assessing ineffective or non-cos effective practices, reducing their existing use (and redirectin those resources) undoubtedly represents an option for improvin sustainability and quality in health care. However, Australia has poor track record in achieving this, particularly outside the area of pharmaceutical assessment.5-7 A significant challenge is the need or, and requisite development of, a fair and systematic method to identify practices for which assessment is appropriate, based on a agreed framework.7 Failure to undertake this in a systematic and transparent manner has the potential to entrench stakeholde resistance. Mechanisms already exist to identify interventions that can be demonstrated to be harmful or ineffective before they ar adopted in Australia. As well as enhancing and extending thes mechanisms to consider interventions in current use, a further ste would be to identify interventions that, although safe and effective are not sufficiently cost-effective to warrant widespread use in

Box 1 lists examples from a 2008 report from the Institute of Medicine in the United States of widely adopted health interventions now deemed "ineffective or harmful", 10 although arguably the list focuses on those that are harmful. Additional items are shown in Box 2 where the concern is less about safety and more about clinical and

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### Point of *Prioritisation*

- Cost (per procedure or volume)
- Impact (health; liberation; equity)
- Cost-effective alternative
- Burden (high/low)
- Evidence (sufficient to offer utility; growing consensus)
- Pay for Evidence
- Futility
- Precedent



### Method for today's case studies:



- Evidence (safety, effectiveness, C-E)
- Variation (x3: Geographic, Provider, Tempo
- Technology Development
- Interest or Controversy
- Consultation
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To address the problems, federal and state/territory jurisdictions have several options, including accepting the increase in the proportion of GDP allocated to health care expenditure, thereby constraining spending in other portfolios, such as educa tion and defence. However, we propose that potential exists for a cost-saving or cost-neutral agenda of resource reallocation within the existing health budget, aimed at improving the quality of care and health outcomes. In Australia, there is scope to identify ineffective interventions (relative to the cost of their subsidy by the taxpayer) and to assess the potential for reducing their use or removing them from government and insurance funding schedules. This would allow reallocation of funding to interventions and programs that offer more in terms of overall health gain and (cost-) effectiveness. As the resources available for health care are finite, this would reduce the extent of unnecessary suffering and premature death arising from the use of health technologies and practices that deliver less than the best-available value for

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### ABSTRACT

- ealth care services value for money athan Kamon, Tracy L Merlin and Janet E Hills ABSTRACT

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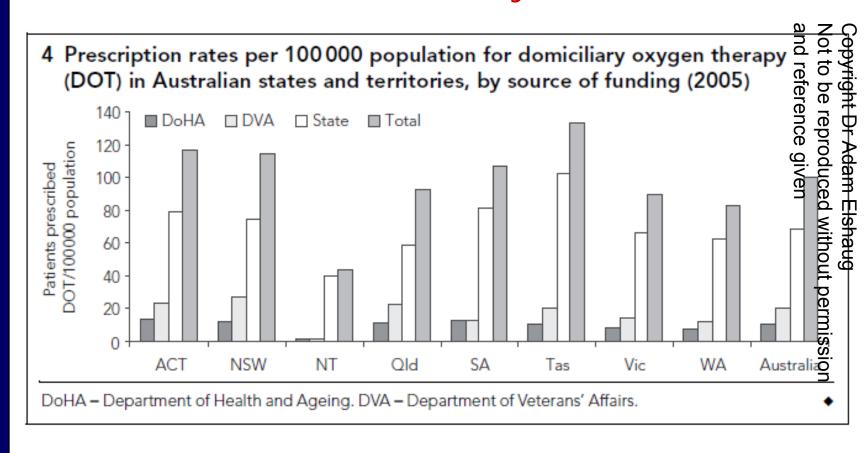
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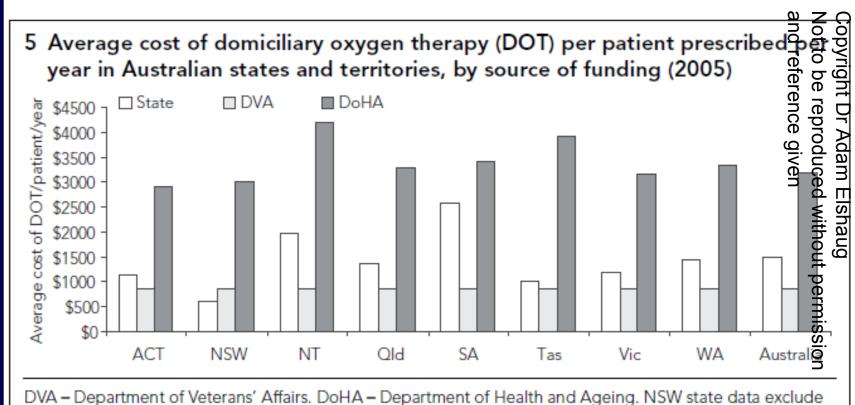
### Domiciliary oxygen therapy prescription rates VARIATION by state



Source: Serginson JG et al. Med J Aust 2009: 191(10); 549-553



## Domiciliary oxygen therapy by state VARIATION (\$ per patient)



DVA – Department of Veterans' Affairs. DoHA – Department of Health and Ageing. NSW state data exclude capital equipment purchases and administrative costs.

Source: Serginson JG et al. *Med J Aust* 2009: 191(10); 549-553



### Surgery for OSA: **VARIATION BY STATE**

Uvulopalatopharyngoplasty (UPPP) – scalpel/laser (41 agent)
 Medicare services in 2008: 1,296 (\$585,792.00)

Item 41786, services per 100,000 population by state (2008)

		Total services per						
NSW	VIC	QLD	SA	WA	TAS	ACT	NT	100,000 population
4	6	5	9	11	7	13	6	6

Source: https://www.medicareaustralia.gov.au/statistics/mbs\_item.shtml









### Osteotomies of Mandible and/or Maxilla

MA: 1,035; MMA: 456 (\$1,635,613.00)

### VARIATION BY STATE

	2342-52375, services per 100,000 population  State									fer
	NSW	VIC	QLD	SA	WA	TAS	ACT	NT	Total	eference
2342	1	0	0	0	0	0	4	0	1	
2345	0	0	0	0	0	0	1	0	0	given
2348	1	1	0	0	0	0	1	0	1	
2351	1	4	0	1	1	5	1	0	2	
2354	0	2	0	0	2	0	0	0	1	
2357	1	3	0	0	2	0	2	1	1	
2360	0	0	0	0	0	0	0	0	0	
2363	0	2	0	1	0	1	0	1	1	
2366	0	0	0	0	0	0	0	0	0	
2369	0	2	0	0	0	1	0	0	1	
2372	0	0	0	0	0	0	0	0	0	
2375	1	0	0	0	3	0	4	0	1	4.2

Source: https://www.medicareaustralia.gov.au/statistics/mbs\_item.shtml





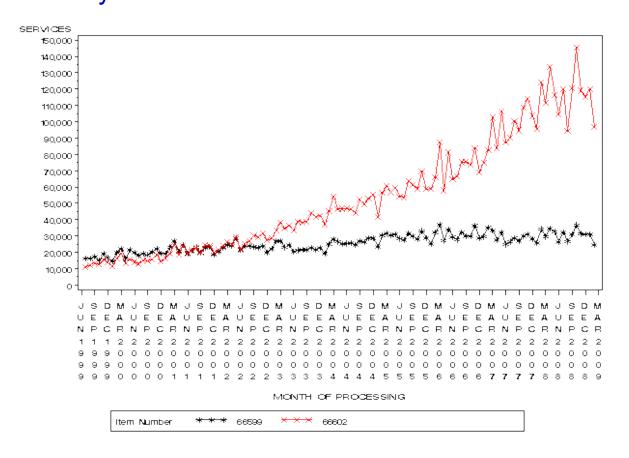






### Vitamin B<sub>12</sub> & folate testing

## MBS Service provision 10 year trend in service



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### Arthroscopy of the knee for osteoarthritis: EVIDENCE (1)

Year	Organization	Main conclusions
2004	AHTA	Therapeutic knee arthroscopy of the generally offered no significant advantage compared to blinded with placebo treatment in terms of pain, mobility and quality of life
2007	Blue Cross Blue Shield	"the best available evidence does not clearly demonstrate clinical benefit" Uncertainty regarding clinical benefit can be resolved only by rigorous, multicenter RCTs

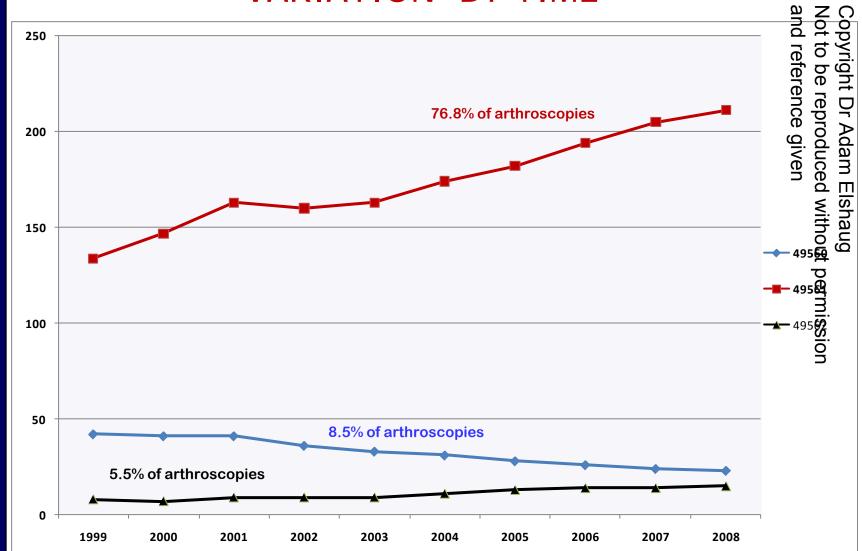


### Arthroscopy of the knee for osteoarthritis: EVIDENCE (2)

Year	Organization	Main conclusions	Not to
2008	Cochrane Collaboration	No evidence to support the beneficial effect of arthroscopic debridement for osteoarthritis of the knee.	of to be reproduced without
2008	UK – NICE National Institute Clinical Excellence	"Referral for arthroscopic lavage and debridement should <b>not</b> be offered as part of treatment for osteoarthritis, unless the person has knee osteoarthritis with a cleahistory of mechanical locking."	t permission

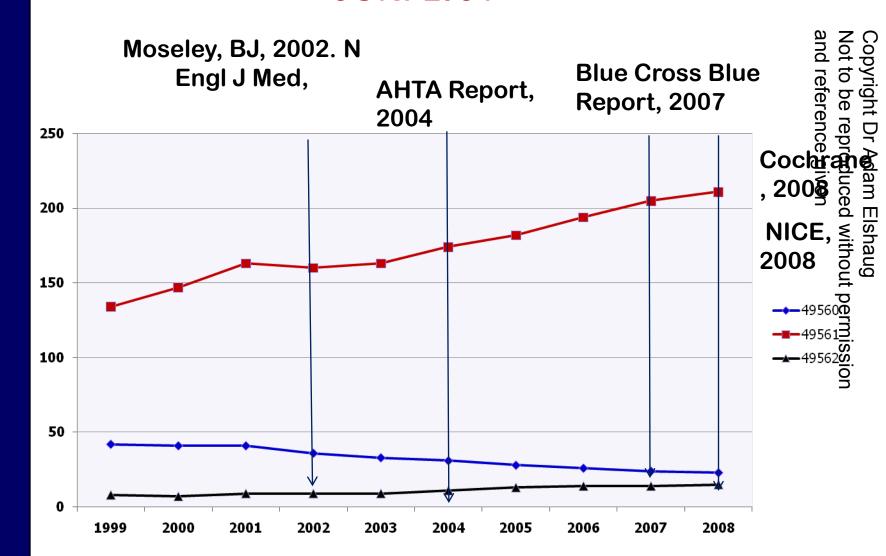


## Three most common arthroscopies (Australia): services per 100,000 pop (1999 – 2008) VARIATION BY TIME





## International research, recommendations + Australian practice (1999 – 2008) CONFLICT





### 35 candidates identified, and growing

- Ear grommets for otitis media
- Arthroscopic for osteoarthritis of the knee
- Tension-free repair for asymptomatic inguing hernia
- Exercise ECG for angina
- Blood tests for liver function
- Ultrasound-guided shoulder injections
- Thrombolytic therapy in acute stroke



### Developing New Approaches to Assessment

- Existing HTA processes are highly applicab
- Re-evaluation requires novel approaches
- Embrace wider range of methodologies
  - Broader levels of evidence
  - Explicit factoring of ethical/social issues etc







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### Models under consideration internationally

- Guidelines
- Reimbursement only for guideline adherence
- Remove from funding schedules
- Tighten or restrict indications
- Reduce fee~ technological development





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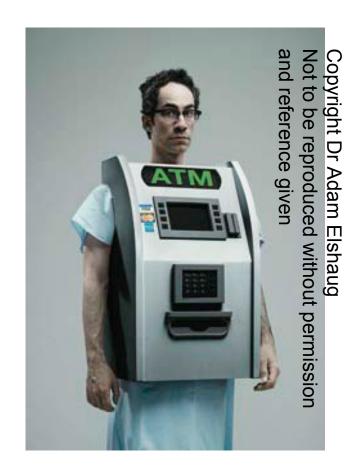


### Models under consideration internationally

- Partial reimbursement
- Risk-sharing / practitioner reimburses payer
- Restrict providers to 'centres of excellence'
- Compulsory review
- Sunset clauses / timelimited funding (CWED)
- Concurrent specification (1 in 1 out)













### Possible Approaches and Implementation Considerations:

- Element 1: High-level decision and commitment to make this activity an explicit,
- formal and resourced policy agenda.

  Element 2: Development of a regulatory framework for disinvestment decision-making that is transparent and removed from vested interests (parallel to those in place for new and Element 2: Development of a regulatory emerging technologies).









### Possible Approaches and **Implementation Considerations:**

- Element 3: Consider either:
  - Additional resources and capacity for existing committees to consider existing items in parallel
  - new/emerging

     The establishment of new, parallel committee/s consider existing items

    Element 4: Regulatory support for:

     Removing, or

     Reducing reimbursement. or
- Element 4: Regulatory support for:

  - Reducing reimbursement, or
  - Restricting use of a comparator technology if a new/existing item has better E/C-E







## Possible Approaches and Implementation Considerations:

 Element 5: The process for selecting candidates for assessment should follow a protocol with pre-specified, transparent selection criteria

Element 6: Debate among all relevant

decision-making stakeholders as to which
mechanisms/models, or combinations thereofy
are most appropriate within a given jurisdiction









### Possible Approaches and Implementation Considerations:

- Element 7: Dedicated stream of funding capacity building in research and policy development –

  New and transparent methods to dove-tail development
  - development –

    New and transparent methods to dove-tail with existing HTA capacity

    Stakeholder consultations

    A working development and implementations

    - plan, and policy reform







http://users.skynet.be/J.Beever/pave.ht

### Thank you

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