Comparative Effectiveness Research and Cost Effectiveness

Yes, that says Costs

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Disclosure – Employment Bias

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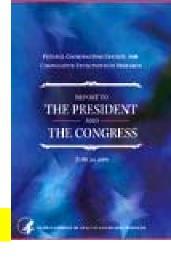




Top 10 Reasons to Consider Costs

- On Comparative Effectiveness Research speaking here is like singing to the choir.
- The Top 10 reasons to consider <u>costs</u>:

10. The Federal Coordinating Council Says So

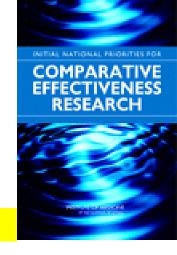


The prioritization criteria for scientifically meritorious research and investments are:

- Potential impact (based on prevalence of condition, burden of disease, variability in outcomes, <u>costs</u>, potential for increased patient benefit or decreased harm)
- etc...



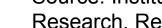
9. The Institute of Medicine Says So



IOM Priority Topics Mention Cost in 9 of 100 Cases:

- Localized prostate cancer
- Dementia
- Accountable care systems
- Renal replacement therapies

- Type 2 diabetes
- Multiple sclerosis
- Periodontal disease
- Intractable epilepsy
- Palliative care



Source: Institute of Medicine, <u>Initial National Priorities for Comparative Effectiveness</u> Research, Report Brief, June 2009, p. 4-8.

8. Less Than 0.1% Isn't Enough

- The U.S. spends less than 0.1% of the \$2 trillion annual health care expenditures on effectiveness research, and a much smaller amount on comparative effectiveness research.
- Comparative effectiveness refers to the evaluation of the relative (clinical) effectiveness, safety, and cost ...

Source: American College of Physicians. Improved Availability of Comparative Effectiveness Information: An Essential Feature for a High Quality and Efficient United States Health Care System. Philadelphia; 2008: Position Paper, p.2..



7. We Can Talk About Rationing

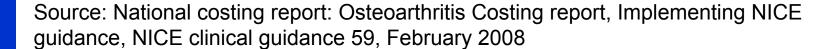
ObamaCare Is All About Rationing

- The president has emphasized the importance of limiting services to "health care that works."
- Comparative effectiveness could become the vehicle for deciding whether each method of treatment provides enough of an improvement in health care to justify its cost.



Some Like NICE: Osteoarthritis

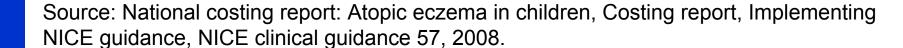
Description	Annual £000s
Topical NSAIDs	8,452
Proton pump inhibitors	10,445
Invasive treatment for knee osteoarthritis	-23,614
Oral NSAIDs	-2,536
Net annual cost/savings (-)	-7,253





Some Still Like NICE: Atopic Eczema

Description	Annual £000s
Emollients	24,501
Topical calcineurin inhibitors	1,370
Indications for referral	1,744
Reduced topical corticosteroids / topical antibiotics	-6,097
Net annual cost/savings (–)	21,518





Some Don't Like NICE: Kidney Cancer

Agent	Years	QALYs	£/QALY
Bevacizumab	0.34	0.27	171,301
Sorafenib	0.30	0.23	102,498
Temsirolimus	0.45	0.24	94,385
Sunitinib	0.53	0.44	71,462



Source: Bevacizumab, sorafenib, sunitinib and temsirolimus for renal cell carcinoma: A systematic review and economic evaluation. JT Coon et al., May 2, 2008. p.154,165.

Controversy, Thy Name is QALY

 Both the traditional medical measures and the patient's perspective can be considered surrogate measures; whereas survival time or quality-adjusted life-year (QALY) can be considered the ultimate measure of the effectiveness of a treatment.

Source: Marilyn Dix Smith RPh, PhD, Founder & Executive Director, International Society for Pharmacoeconomics & Outcomes Research. Statement Before the IOM's Committee on Comparative Effectiveness Research Priorities, March 20, 2009.



6. Insurers Say So

 Better understanding of the strength of the evidence, the benefits, risks and <u>costs</u> associated with each treatment and how therapies compare to each other will result in safer, higher quality care.



Maybe Not All Insurers

- First, focus research on high impact areas.
- Second, consider cost only when the comparative effectiveness research shows that two alternatives are clinically equivalent.

Source: Douglas R. Hadley, MD, Medícal Officer, CIGNA, Director, Coverage Policy Unit. Statement Before the IOM's Committee on Comparative Effectiveness Research Priorities, March 20, 2009.



5. Its in the Definition of Comparative Effectiveness

 Comparative effectiveness research examines the relative cost and efficacy of medical procedures in one hospital or region of the country contrasted with another hospital or region, in the hopes of forcing down costs in the more expensive areas.

Really?



4. Doctors Say So

 Recommends both comparative clinical and cost-effectiveness data to insure the most effective and efficient use of limited health care resources.

Source: American College of Physicians,. Information on cost-effectiveness: An essential product of a national comparative effectiveness program. <u>Annals of Internal Medicine</u>, 148 (12), June 2008.



Maybe Not All Doctors

 Comparative effectiveness reseach that starts with a cost containment goal will not lead to studies that answer these questions and will likely result in misapplication of findings in order to achieve cost-cutting objectives.



3. Technology Companies Say No

 The research pursued should be clinical effectiveness research, <u>not cost</u> <u>effectiveness</u>.



2. Cost Decisions Are Difficult

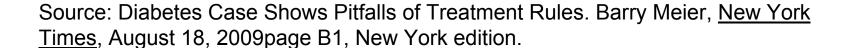
- How do you compare two molecules that perform differently depending on a patient's personal genetic make-up?
- Comparative Research often leads to a "onesize-fits-all" approach to treatment.
- The concept behind comparative effectiveness research is good, but the tools aren't.



Diabetes Case Shows Pitfalls of Treatment Rules

 "This was a case in which the advocates of a disease got caught up in their disease rather than the interests of patients," said Dr. Hayward, a diabetes expert at the University of Michigan who had opposed the benchmark.







Do it once, Then Do it again

 The comparative effectiveness, safety, patient utility, provider proficiency, and costs associated with interventions often evolve in practice, calling for a CER capacity to monitor, reframe, and revisit certain priority topics.

Source: Clifford Goodman, PhD, Senior Vice President, Lewin Group. Statement Before the IOM's Committee on Comparative Effectiveness Research Priorities, March 20, 2009.



And the #1 Reason to Consider Costs



 An opportunity for economists to talk about something other than unemployment and inflation