SHARED DECISION MAKING AND DECISION AIDS TO BRING CER TO PATIENTS AND CLINICIANS

The Fourth National Comparative Effectiveness Summit



Michael J Barry, MD Foundation President November 5, 2012

FOUNDATION MISSION

 The mission of the Foundation is to inform and amplify the patient's voice in health care decisions





WE BELIEVE PATIENTS SHOULD BE:



Supported & encouraged to participate in their health care decisions



Fully informed with accurate, unbiased & understandable information



Respected by having their goals & concerns honored

THE FOUNDATION AND HEALTH DIALOG

- The Foundation has a licensing agreement with Health Dialog (owned by Bupa).
 - Provides royalties and contract funding to develop and maintain decision support materials.
- Strict conflict-of-interest policy.
 - Staff and Medical Editors are prohibited from financial support from the drug and device industries.

IS INFORMED CONSENT "REAL?"

- In a survey of consecutive patients scheduled for an elective coronary revascularization procedure at Yale New Haven Hospital in 1997-1998:
 - 75% believed PCI would help prevent an MI.
 - 71% believed PCI would help them live longer.



IS INFORMED CONSENT "REAL?"

- While even through the latest meta-analysis in 2009 (61 trials and 25,388 patients):
 - "Sequential innovations in catheter-based treatment for non-acute coronary artery disease showed no evidence of an effect on death or myocardial infarction when compared to medical therapy."





IS INFORMED CONSENT "REAL?"

- In a survey of consecutive patients consented for an elective coronary angiogram and possible percutaneous coronary intervention at Baystate Medical Center in 2007-2008:
 - 88% believed PCI would help prevent an MI.
 - 76% believed PCI would help them live longer.



DECISIONS STUDY

- Conducted by University of Michigan
- Nationwide random-digit dial telephone survey
- Probability sample of 2,575 English speaking
 American age 40+
- Reported a discussion of 1 of 9 medical decisions with a health care provider within the past 2 years
- Response rate of 51%





DECISIONS SURVEY: DECISIONS ADDRESSED

- Surgery
 - Back surgery
 - Knee/hip replacement
 - Cataract extraction
- Cancer screening
 - Prostate
 - Colorectal
 - Breast
- Medications
 - Hypertension
 - Hyperlipidemia
 - Depression









EPIDEMIOLOGY OF MEDICAL DECISIONS

- In the past 2 years:
 - 56% discussed starting or stopping meds for hypertension, hyperlipidemia or depression
 - 72% discussed a screening test for cancer
 - 16% discussed one of the 4 operations



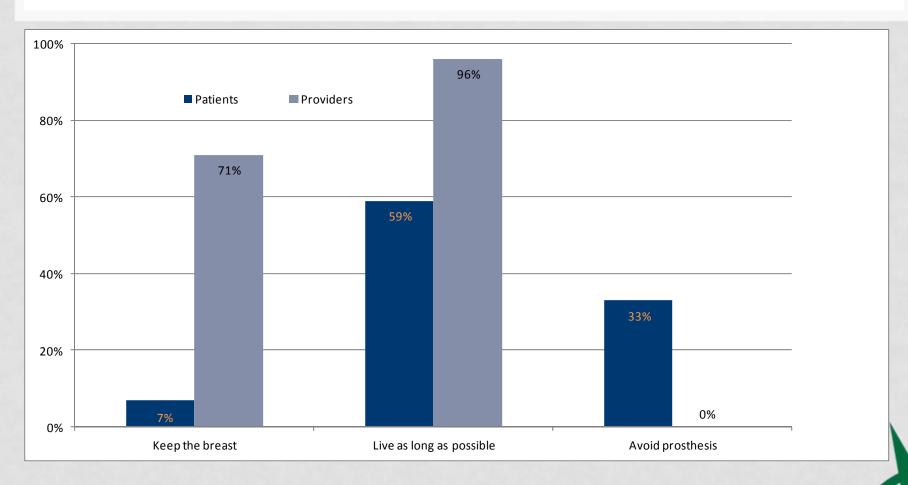
HOW MUCH DID PATIENTS KNOW?

- Clinical experts identified 4-5 facts a person should know, for example, common side effects of medications or surgery
- Respondents were asked the knowledge questions related to their decision
- For 8 out of 10 decisions, fewer than half of respondents could get more than one knowledge question right



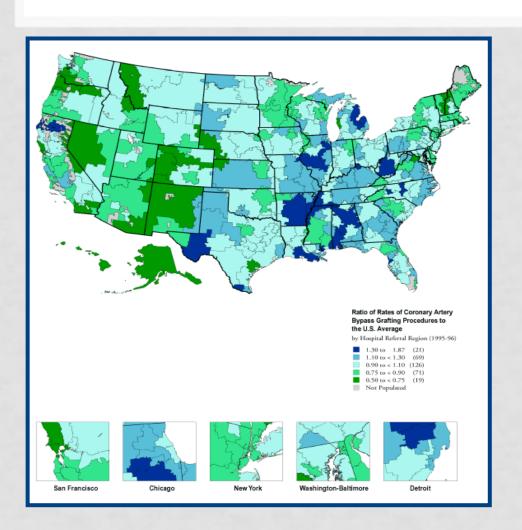


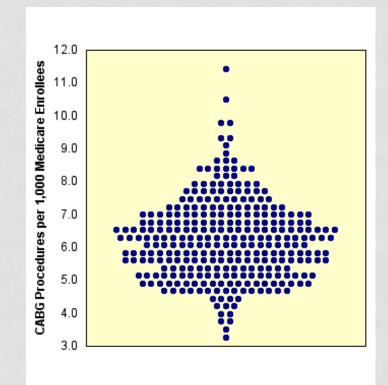
"DIAGNOSIS" OF PATIENT PREFERENCES





U.S. CORONARY BYPASS RATES







FORCES SUSTAINING UNWANTED PRACTICE VARIATION

Patients:

Making Decisions in the Face of Avoidable Ignorance

Clinicians:

Less than optimal "Diagnosis" of Patients' Preferences

Poor Decision Quality
Unwanted Practice Variation



WHAT IS GOOD MEDICAL CARE?

- It is not just about doing things <u>right</u>
- It is also about doing the *right thing*
- <u>Proven effective care:</u> For some medical problems, there is one best way to proceed
- Preference-sensitive care: For many and perhaps most medical problems, there is more than one reasonable option

SHARED DECISION MAKING MODEL

Key characteristics:

- At least two participants (clinician & patient) are involved
- Both parties share information
- Both parties take steps to build a consensus about the preferred treatment
- An agreement is reached on the treatment to implement





PATIENT DECISION AIDS CAN HELP!

- Tools designed to help people participate in decision-making
- Provide information on the options
- Help patients clarify and communicate the values they associate with different features of the options



- A key part of the SDM process is a sharing of information on the options for testing or treatment and their outcomes
- CER has the potential to supply that information in a systematic, unbiased way
- So SDM supported by pDAs can be seen as a promising way of disseminating CER to improve decision making in day-to-day health care

- Interactive pDAs allow tailoring of presentation to the individual to the extent depth of CER data allows
- Linkage to clinical data in EMRs will facilitate this tailoring
- Process of developing pDAs may be an excellent way of helping prioritize data needs from CER

- U.S. PIVOT RCT of RP vs. Observation, localized cancer (N=731)
- ~50% of PCa Stage T1c
- Reduced overall mortality from 49.9% in the OBS group to 47.0% in the RP group at 10 years (P=NS, NNT=34)
- Reduced PCa specific mortality from 8.4% in the OBS group to 5.8% in RP group at 10 years (P=NS, NNT=38)

- Patient characteristics (age, race, comorbidity) did not modify the effect of treatment
- But tumor characteristics did!
 - PSA≤10 (N=479) overall mortality increased from 43.6% with OBS to 46.2% with RP (P=NS, NNH=38)
 - PSA>10 (N=251) overall mortality decreased from 61.6% with OBS to 48.4% with RP (P=0.02, NNT=8)

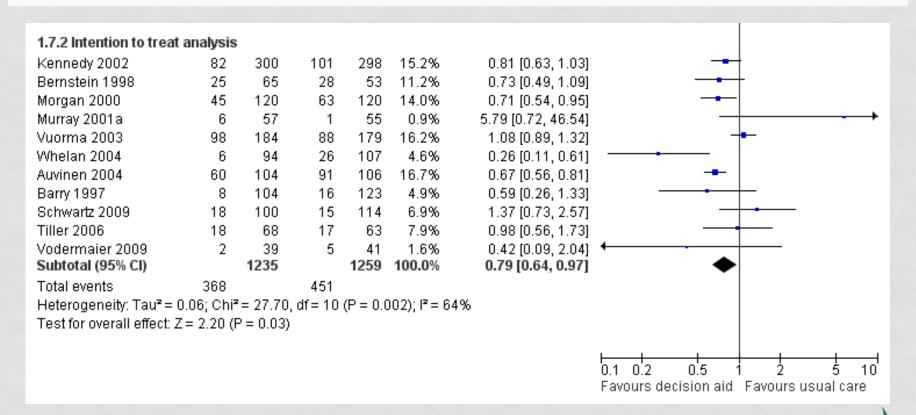
COCHRANE REVIEW OF DECISION AIDS

- In 86 trials in 6 countries of 34 different decisions, use has led to:
 - Greater knowledge
 - More accurate risk perceptions
 - Lower decision conflict
 - Greater participation in decision-making
 - Fewer people remaining undecided



THE COCHRANE COLLABORATION®

CHOICE OF ELECTIVE SURGERY



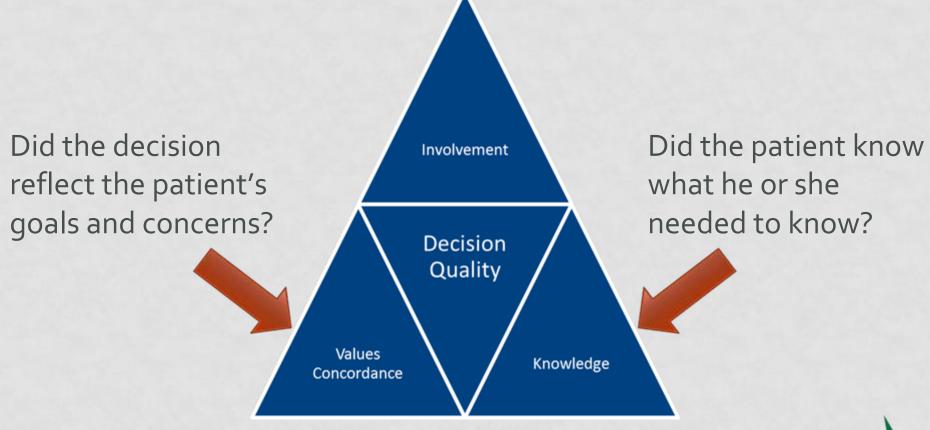
HOW DO WE KNOW IF WE'VE HELPED PATIENTS MAKE A GOOD DECISION?







Did the patient know a decision was being made?
Was the patient told the pros and cons of the treatment options?
Did the provider elicit the patient's preferences?





SDM: IMPLEMENTATION NEEDS

- Patients interested in being informed and activated
- Practical protocols for routine use of decision support tools
- Health care systems with incentives for good "decision quality" rather than simply "more is better"
- Clinicians and hospitals receptive to patient participation

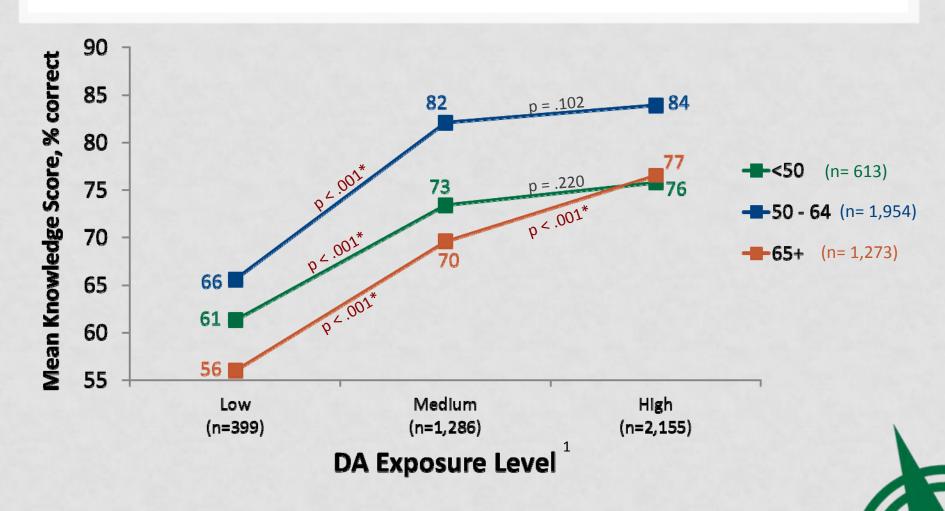


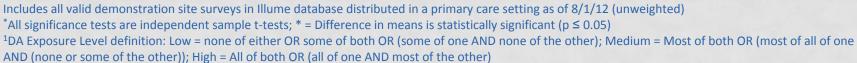
FOUNDATION DEMONSTRATION SITES

Demonstration Sites	Primary Care	Specialty Care
Massachusetts General Hospital	X	
University of North Carolina	X	
MaineHealth	X	
Mercy Clinics Inc.	X	
Stillwater Medical Group	X	
Oregon Rural Practice-based Research Network	X	
Palo Alto Medical Research Foundation	X	
Peace Health	X	
PA FQHCs	X	
Dartmouth-Hitchcock Medical Center	X	X
Group Health Cooperative	X	X
University of Washington	X	X
Allegheny General Hospital – Breast Cancer		X
University of California San Francisco – Breast Cancer		X

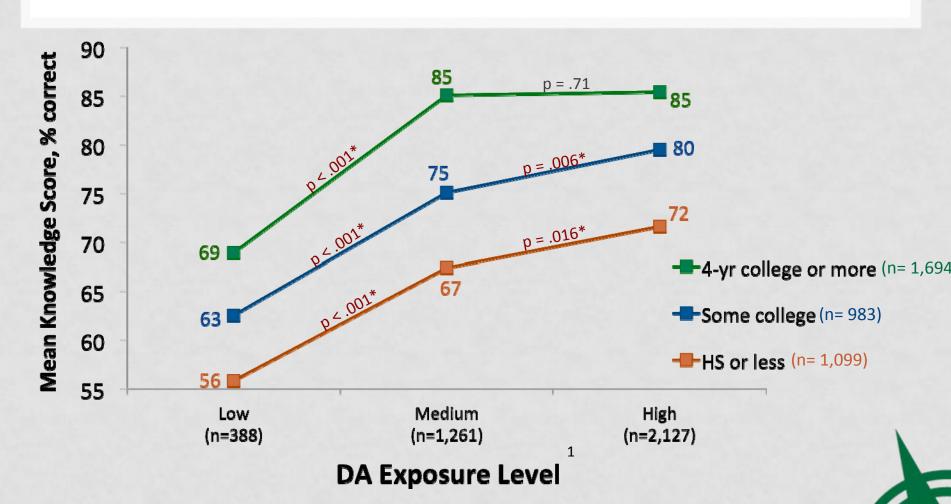
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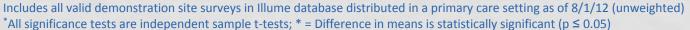
KNOWLEDGE SCORES BY DA EXPOSURE LEVEL: AGE GROUP





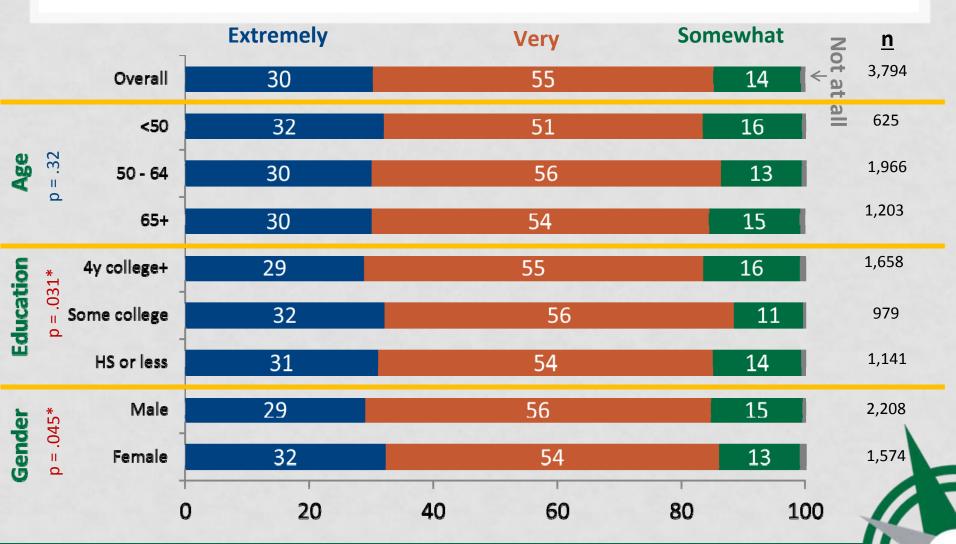
KNOWLEDGE SCORES BY DA EXPOSURE LEVEL: EDUCATION LEVEL





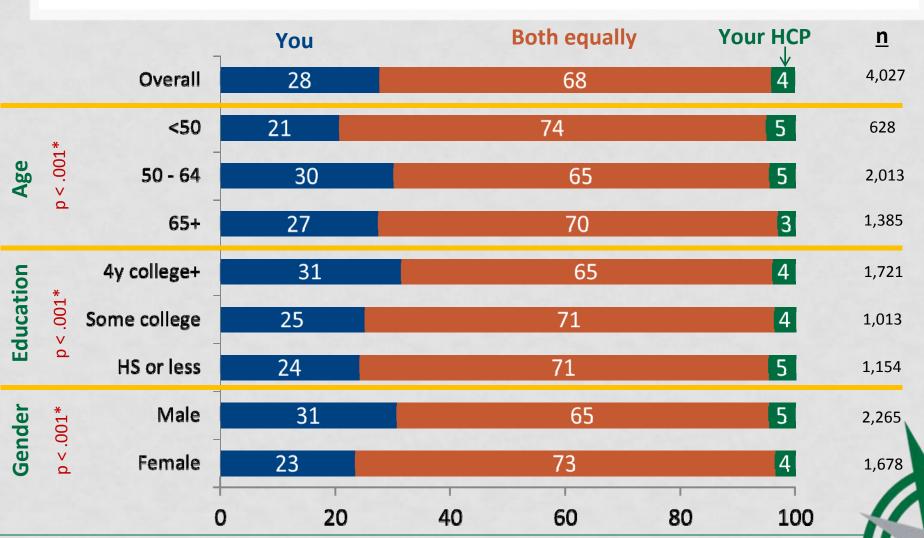
¹DA Exposure Level definition: Low = none of either OR some of both OR (some of one AND none of the other); Medium = Most of both OR (most of all of one AND (none or some of the other)); High = All of both OR (all of one AND most of the other)

IMPORTANCE RATINGS BY DEMOGRAPHIC GROUP

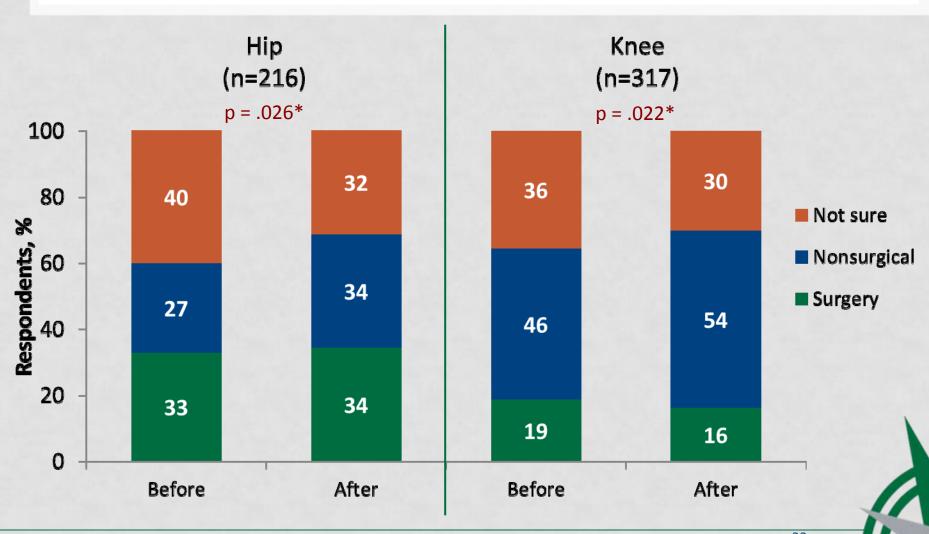


ncludes all valid demonstration site surveys in Illume database distributed in a primary care setting as of 8/1/12 (unweighted) (Statistically significant (p ≤ 0.05) (Chi square test)

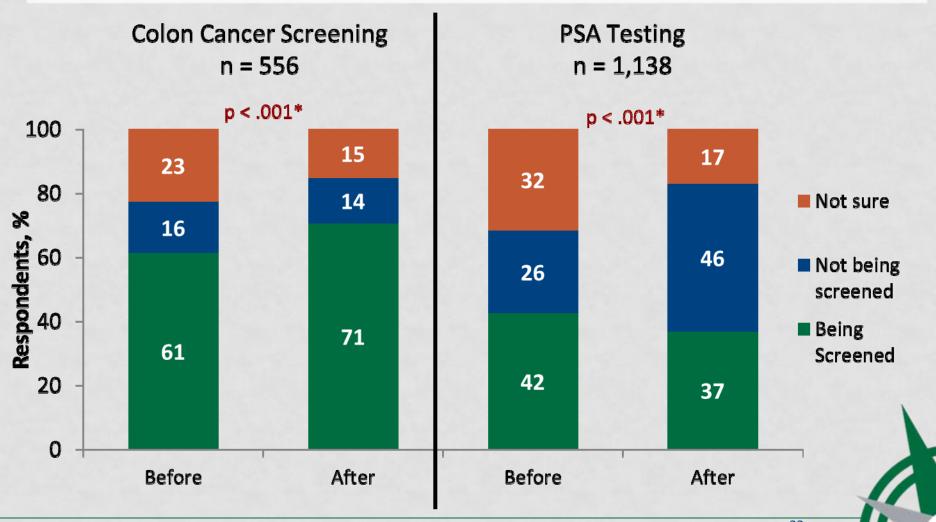
DECISION ROLE PREFERENCES BY DEMOGRAPHIC GROUP



PATIENT LEANINGS BEFORE AND AFTER DA: JOINT REPLACEMENT SURGERY



PATIENT LEANINGS BEFORE AND AFTER DA: SCREENING



HIP AND KNEE DECISION AIDS AT GROUP HEALTH

- Introduced pDAs for hip/knee arthroplasty candidates in 2009
- Reached 28% of eligible knee (N=3510) and 41% of hip patients (N=820)
- Over 6 months:
 - 38% fewer knee replacements
 - 26% fewer hip replacements
 - 12-21% lower costs







THANK YOU!

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