Can patients be satisfied to death? What was Joshua J. Fenton thinking?

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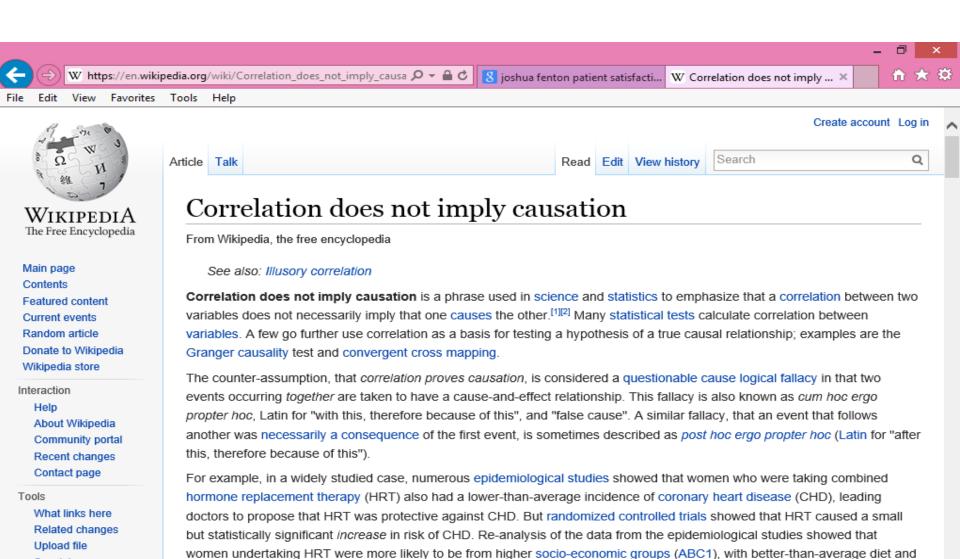
UCLA Center for Maximizing Outcomes

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One should always be alert to the possibility of spurious associations, especially when results are implausible.



exercise regimens. The use of HRT and decreased incidence of coronary heart disease were coincident effects of a common

cause (i.e. the benefits associated with a higher socioeconomic status), rather than cause and effect, as had been supposed. [3]

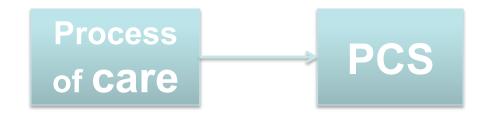
Special pages

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Page information

Is Receiving Better Technical Quality of Care Bad for Health?

Change in SF-12 PCS regressed on process of care aggregate



Hypothesized positive effect, but regression coefficient was NOT SIGNIFICANT

unstandardized beta = -1.41, p = .188

Kahn et al. (2007), Health Services Research, Article of Year

Use of and Importance of Patient Experience Surveys has Grown...

CAHPS Hospital Survey (HCAHPS) data accounted for 30% of hospitals' Total Performance Score in Value-Based Purchasing Program in FY2014

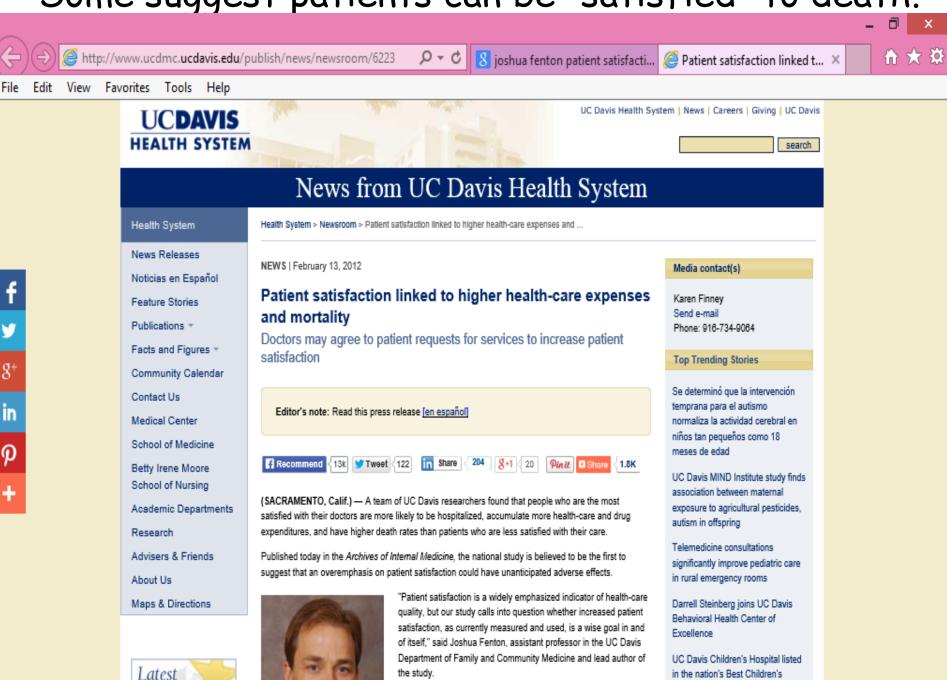
...so has misinformation about them

Some Suggest that Consumers Lack Expertise Needed to Evaluate Care Quality

 Patients are the best source of information on communication, office staff courtesy and respect, access to care, and other issues covered by CAHPS surveys

 CAHPS complements technical quality measures

Some suggest patients can be "satisfied" to death.

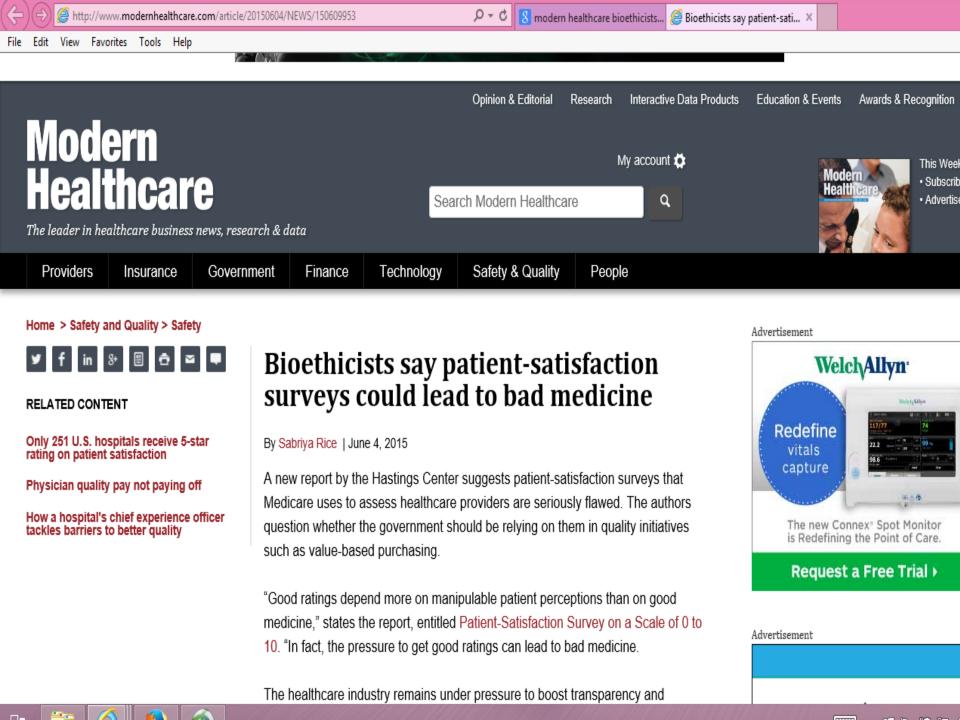


the study.

in the nation's Best Children's

Fenton et al. (2012) JAMA Internal Medicine

- Medical Expenditure Panel Survey
 - Nationally representative survey of U.S. civilian noninstitutionalized population. Panel followed over 2 calendar years with 5 rounds of interviews.
- CAHPS survey
 - 4 communication scale items
 - 0-10 global rating of health care
- Results interpreted as indicating that acceding to patient demands results in expensive and dangerous treatment.



Hastings Center Report

 Dr. Stuart Younger, Professor of Bioethics and Psychiatry at the Case Western Reserve University.

 Pressure to get good ratings can lead to bad medicine.

Five Concerns with Fenton et al.

- 1. Associations may be due to unmeasured variables (e.g., severity of illness).
 - Sicker patients may need more information
 - Clinicians may spend more time with them.
- 2. Estimated effect was implausibly large, suggesting good patient experience is more dangerous than having major chronic conditions.
- 3. Only amenable deaths can be prevented by health care.
 - Prognosis for those with end-stage pancreatic cancer is not modifiable by the type of care they receive.
 - -10 of the 1,287 deaths in the study were amenable to health care.

Five Concerns with Fenton et al.

- 4. Patient experiences with care vary over time.
 - Used CAHPS data at MEPS round 2 to predict mortality 3 months to 6 years later.
 - > half of deaths occurred more than 2 years after this.
 - Among those with best (quartile 4) experiences at baseline,
 half had worse experiences 1 year later

5. Only looked at 5-item CAHPS aggregate

Reanalysis of Fenton et al. by Xu et al. (2014)

- Same data used by Fenton et al.
 - 2000-2005 Medical Expenditure Panel Survey data
 - National Health Interview Survey
 - National Death Index
- Same statistical analysis
 - Cox proportional hazards models with mortality as the dependent variable and patient experience measures as independent variables
- But, unlike Fenton et al.
 - Separated non-amenable and amenable deaths
 - Considered timing of patient experience and death
 - Looked at individual items to better understand the patient experience with mortality association

Patient Experiences and Mortality: Non-Amenable vs. Amenable Deaths

Patient Care Experience	Non-Amenable Mortality		Amenable Mortality	
	Hazard Ratio	p-value	Hazard Ratio	p-value
Quartile 1 (reference)	(1.00)		(1.00)	
Quartile 2	1.07	0.56	1.27	0.25
Quartile 3	0.96	0.70	1.28	0.25
Quartile 4 (most positive)	1.26	0.03	1.23	0.32
Overall p-value for patient care experience quartiles		0.03		0.59

Adjusted for age, gender, race/ethnicity, education, income, metropolitan statistical area, census region, access to usual source of care, insurance coverage, smoking status, number of chronic conditions, self-rated overall health, SF-12 PCS/MCS, number of drug prescriptions, medical care expenditures, number of office visits, any ER visits, any inpatient admissions, and survey panel.

Patient Experiences and Mortality: Consistency of Experiences Over Time

Patient Care Experience (baseline: 1 year later)	All-Cause Mortality	
	Hazard Ratio	p-value
Quartile 1 : Quartile 1 (reference)	(1.00)	
Quartile 2 : Quartile 2	0.89	0.42
Quartile 3 : Quartile 3	1.13	0.57
Quartile 4 : Quartile 4	1.09	0.54
Different quartiles at baseline and 1 year later	0.88	0.35

Patient Experiences and Mortality: Significant for Only One Measure

Patient Care Experience Items	All-Cause Mortality		
	Hazard Ratio	p-value	
Rating of healthcare 9-10 vs 0-8	1.10	0.15	
Listen carefully to you [†]	0.98	0.76	
Show respect for what you had to say t	1.05	0.44	
Explain things in a way that is easy to understand [†]	1.09	0.17	
Spend enough time with you †	1.17	0.03	

^{† &}quot;Always" versus "Never"/"Sometimes"/"Usually"

Conclusions

- Rather than patient demands producing expensive and dangerous treatment, the data are consistent with other studies that indicate more intensive care at the end-of-of life in the U.S. (Elliott et al., 2013, <u>JAGS</u>).
- Patient experience surveys assess important dimensions of care for which patients are the best or only source of information
- Improving patient experience does not lead to inappropriate and inefficient care or result in trade-offs with high-quality clinical care

Relevant Readings

Price, R. A. Elliott, M.N., et al. (2015). Should health care providers be accountable for patients' care experiences? <u>JGIM</u>, <u>30</u>, 253-256.

Price, R. A., Elliott, M. N., et al. (2014). Examining the role of patient experience surveys in measuring health care quality. <u>Medical Care Research and Review</u>, 71, 522-554.

Xu, X., Buta, E. et al. (2014 epub). Methodological considerations when studying the association between patient-reported care experiences and mortality. <u>Health Services Res</u>.

Thank you.

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Powerpoint file at:

http://gim.med.ucla.edu/FacultyPages/Hays/