Postoperative Sleep as a Patient-Centered Outcome After Hospital Discharge – Implications for QOL and Safety

REBECCA A. ASLAKSON, MD PHD FAAHPM FCCM

Associate Professor

Division Chief – Critical Care Medicine,
Department of Anesthesiology, Perioperative & Pain Medicine
Department of Medicine, Division of Primary Care & Population Health –
Palliative Care Section
Stanford University, Stanford, CA

Stanford University

Disclosures

I have no financial disclosures to make.



- •I will not reference any unlabeled/unapproved use of a drug or product.
- •Grant support:







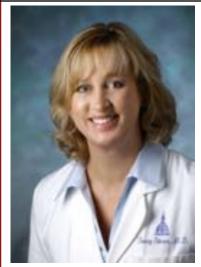












Tracey Stierer, MD Johns Hopkins School of Medicine



Oxana Palesh, PhD, MPH Stanford University Cancer Institute



Micheal Avidan, MBBCh, FCA SA Washington University School of Medicine in St. Louis

Stanford University

"Why me? I'm a critical care anesthesiologist and palliative care physician and researcher..."

"But you are an expert in patient-centered outcomes research (PCOR) and we want to know more about PCOR!"

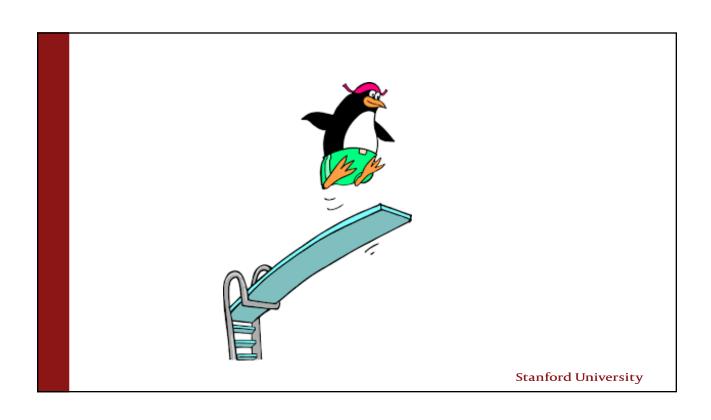


Krish Ramachandran, MD Beth Isreal Deconess Medical Center

Stanford University

Objectives

- Define patient-centered outcomes research (PCOR)
- Empower you to consider incorporating PCOR through examples from my own research portfolio





What is the Patient-Centered Outcomes Research Institute?

- Founded in 2010 through the Patient Protection and Affordable Care Act
- Goal to promote comparative effectiveness research to:

"Assist patients, clinicians, purchasers, and policy-makers in making informed health decisions by advancing the quality and relevance of evidence concerning the manner in which diseases, disorders, and other health conditions can effectively and appropriately be prevented, diagnosed, treated, monitored, and managed through research and evidence synthesis."

Selby JV, Beal AC, Frank L. JAMA 2012

Stanford University

What is patient-centered outcomes research?



Selby JV, Beal AC, Frank L. JAMA 2012 Krumholz HM, Selby JV. Ann Intern Med 2012 Fleurence R et al. Health Affairs 2013 Frank L, Basch E, Selby JV. JAMA 2014

- Research centered on decisions and outcomes important to patients and family members
- Trans-disciplinary teams are essential
- Diverse stakeholders (including patients and family members) are integrated into the team throughout all stages of research



The PCORI Perspective on Patient-Centered Outcomes Research

Lori Frank, PhD Patient-Centered Outcomes Research Institute, Washington, DC

Ethan Basch, MD Lineberger Comprehensive Cancer Center, University of North Carolina, Chapel Hill,

Joe V. Selby, MD, MPH
Patient Centered
Outcomes I centrh
Inditure W con,

The Patient-Centered Outcomes Research Institute (PCORI) was established as part of the US Patient Protection and Affordable Care Act of 2010 to fund patient-centered comparative clinical effectiveness research, extending the concept of patient-centerediness from health care delivery to health care research. In the United States, patient-centered outcomes research is new and not defined in the legislation, and the rationale is unclear to many. In this Viewpoint, we address 2 related questions: What does patient-centeredness in research mean? Why conduct patient-centered outcomes research?

The essence of the PCORI definition of patientcentered outcomes research is the evaluation of questions and outcomes meaningful and important to patients and caregivers. The definition rests on the axiom that patients have unique perspectives that can change and improve the pursuit of clinical questions.

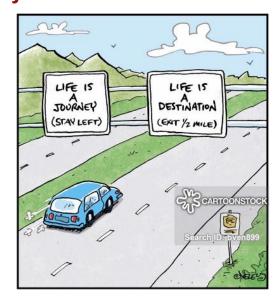
Relevant to both the definition and rationale is the hypothesis that including the perspectives of end users of the research, which include patients, physicians, and other health care stakeholders, will enhance the relof patients in research is limited but evolving and shows both positive and negative effects. Beneficial outcomes of engagement include improved relevance of study results to patients. improved research recruitment and retention rates, and improved content and construct validity of measures. Negative consequences include added financial and staff resources needed to establish and maintain engagement and a sense of work burden among patient participants. PCORI intends to contribute to this evidence through evaluation of the effects—whether positive, negative, or neutral—of engaged models of research.

Why can researchers or clinicians alone not provide the patient perspective? Experiences and training determine a person's worldview.² and patient-centeredness is at its heart a question of including the worldview of patients. Because of their training and orientation, researchers and clinicians can be at a disadvantage for representing the patient perspective. Patients—individuals whose worldview about health is centered on the experience of health care—may more ac-

Frank L, Basch E, Selby JV. JAMA 2014

Stanford University

How do you do PCOR?



What is palliative care?

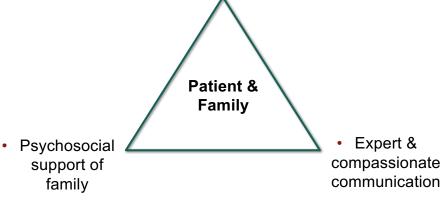
- · Specialized medical care
- For patients with serious illness and their family members
- · Goal is to improve quality of life
- Appropriate at any age and at any stage of serious illness
- · Can be provided together with curative illness

Center to Advance Palliative Care. http://www.capc.org/ Kelley AS & Morrison RS. NEJM 2015.

Stanford University

What is palliative care?

Aggressive symptom management



Center to Advance Palliative Care. http://www.capc.org/ Kelley AS & Morrison RS, NEJM 2015.

Our task from the Patient-Centered Outcomes Research Institute (PCORI):

- To develop and test a patient and familycentered advance care planning instrument for patients and families preparing for major pancreatic cancer surgery.
- Team of patients, family members, surgeons, SICU intensivists and nurses, anesthesiologists, palliative care providers, and health care quality experts.
- \$2.15 million contract: July 2013 Nov 2017



ford University

An Environmental Scan of Advance
Care Planning Decision Aids for Patients
Undergoing Major Surgery: A Study
Protocol

Rebecca A. Aslakson, Anne
L. R. Schuster, Judith Miller, Matthew
Weiss, Angelo E. Volandes & John
F. P. Bridges
The Patient-Patient-Centered
Outcomes Research
ISSN 1178-1653
Patient
DOI 10.1007/s40271-014-0046-3

Conceptual Approach Environmental scan - data sources and perspectives Verbal Written data sources data sources Professional 1. Systematic 3. Key informant perspective review interviews 2. Grey literature 4. Patient & family Lay perspective review engagement Aslakson et al, The Patient 2014 Stanford University

Promoting perioperative advance care planning: a systematic review of advance care planning decision aids



This systematic review identifies possible decision aids that promote perioperative advance care planning (ACP) and synthesizes the available evidence regarding their use. Using PubMed, EMBASE, Cochrane, SCOPUS, Web of Science, CINAHL, PsycINFO and Sociological Abstracts, researchers identified and screened articles for eligibility. Data were abstracted and risk of bias assessed for included articles. Thirty-nine of 5327 articles satisfied the eligibility criteria. Primarily completed in outpatient ambulatory populations, studies evaluated a variety of ACP decision aids. None were evaluated in a perioperative population. Fifty unique outcomes were reported with no head-to-head comparisons conducted. Findings are likely generalizable to a perioperative population and can inform development of a perioperative ACP decision aids. Future studies should compare the effectiveness of ACP decision aids.

Keywords: advance care planning * decision-making * decision support techniques * patient-centered care * perioperative care

Aslakson et al, J Comparative Eff Research 2015

Rebecca A Aslakson*,
Anne LR Schuster*, Jessica
Reardon*, Thomas Lynch*,
Catalina Suarez-Cuervo*,
Judith A Miller*, Rita
Moldovan*, Fabian Johnston*,
Blair Anton*, Matthew Weiss*
& John FP Bridges*
Department of Anotherology & Orical
Care Unabline, The John Hopeline
Hoppital Estimore, Mo 21287, USA
Department of Houth Holey &
Management, The John Hopeline
Bloomberg School of Public Houth
Ballmore, MD 22105, UJA
The John Booken Editore house

Stanford University

Websites

- American Cancer Society
- American Geriatrics Society
- The American Academy of Hospice and Palliative Medicine
- The Center to Advance Palliative Care
- The National Palliative Care Research Center
- National Institute of Health-National Institute for Aging
- The Coalition to Transform Advanced Care
- The Informed Medical Decisions Foundation
- The Center for Shared Decision Making

- The International Patient Decision Aids Standards
- · National Quality Forum
- Family Caregiver Alliance, Gerontological Society of America
- Medline Plus (NIH)
- · National Cancer Institute
- American Association of Retired Persons
- National Hospice and Palliative Care Organization
- Heart Failure Society of America
- Agency for Healthcare Research and Ouality
- Mayo Clinic
- Pancreatic Cancer Action Network
- · American Society of Clinical Oncology

Grey Literature search

Newspaper articles

>400 articles, didn't yield much

Ongoing studies

 Found many of the researchers from the systematic review

PhD dissertations and abstracts

Unpublished – not much of interest

YouTube - "advance care planning"

LOTS!

Stanford University

Schuster et al. BMC Palliative Care 2014, 13:32 http://www.biomedcentral.com/1472-684X/13/32



RESEARCH ARTICLE

Open Access

Creating an advance-care-planning decision aid for high-risk surgery: a qualitative study

Anne LR Schuster¹, Rebecca A Aslakson² and John FP Bridges^{1*}





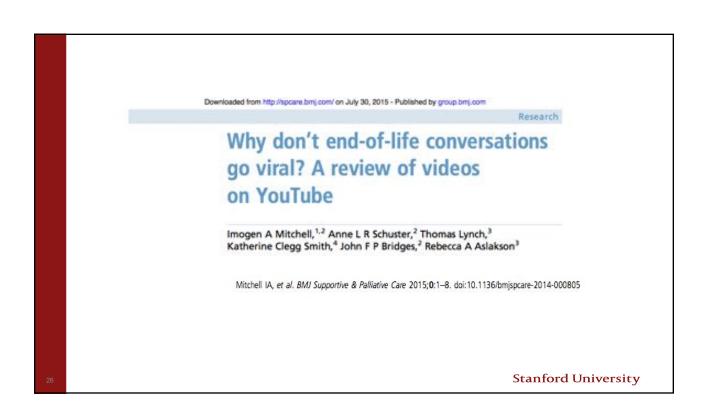
Stakeholder Summit – Findings

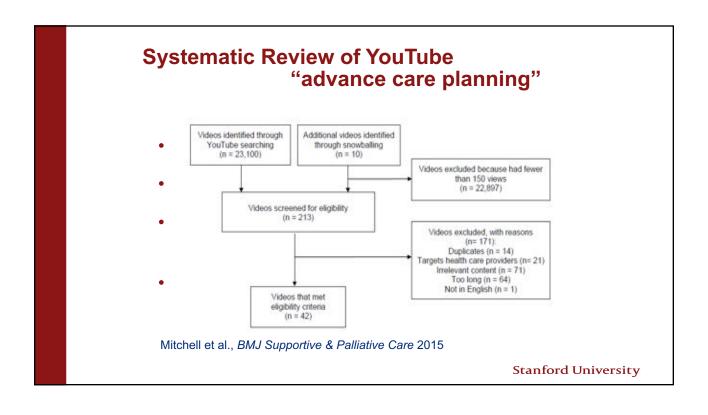
Content

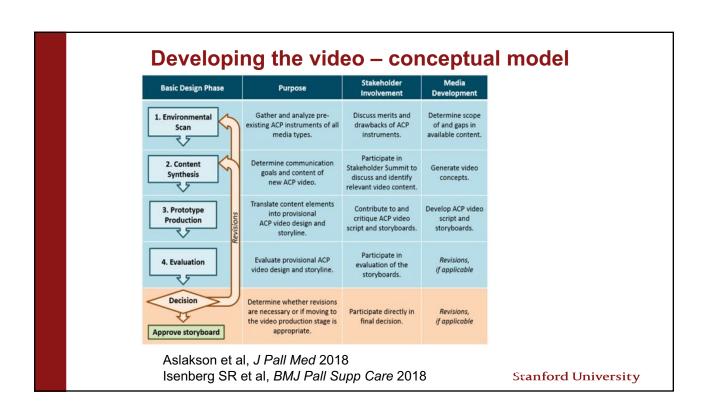
- Vignettes real stories
- Less "death/dying" more about "how you want to live"
- Specific to surgical population

Style

- Upbeat
- Involving younger and older subjects
- Involving multiple ethnicities







Scene 3: The Pre-Operative Waiting Area



Family member: I couldn't have known what to expect. Oh my goodn preoperative area had so much activity...like a medical Grand Central 5 and nurses going this way and that and us not sure of who would com. There was a nurse from the preoperative area, a person to start my hu anesthesia doctor, and the nurse from the OR.

SCRIPT

Narrator: Anytime you have surgery, there will be times when you are under anesthesia or are too sick to be able to communicate. For many, those times are brief and an elimited to the time when you are having the actual surgery. However, for some, those times can last days to even weeks. We cannot predict exactly who will or will not get very sick after major surgery.

Aslakson et al, J Pall Med 2018 Isenberg SR et al, BMJ Pall Supp Care 2018 Scene 8: Having a Conversation with **Family and Friends**

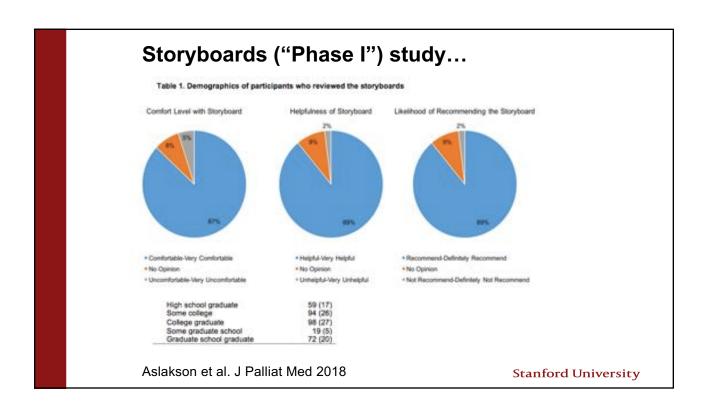


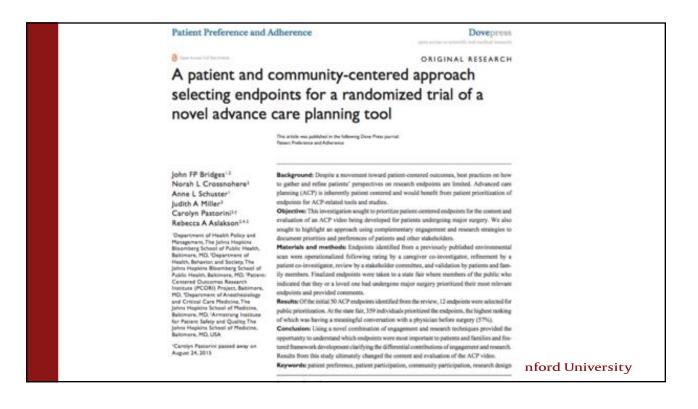
You can prepare for any situation through some simple steps with your family and those closest to you. You can designate the friend or family who would makes decisions for you if you cannot speak for yourself.

_____ University









The video

- Collaboration with Angelo Volandes
- Filmed 16 interviews with patients, family members, surgeons, surgical nurses, and anesthesia providers
- Interviews reviewed at stakeholder summit
- Broadened inclusion criteria to <u>any</u> type of major cancer surgery
- Editing took ten months
 - 14 different version of video
 - Reviewed by 70 different stakeholders

Isenberg SR et al, BMJ Pall Supp Care 2018

JOURNAL OF PALLIATIVE MEDICINE Volume 22, Number 7, 2019 © Mary Ann Liebert, Inc. DOI: 10.1089/jpm.2018.0209

Integrating Advance Care Planning Videos into Surgical Oncologic Care: A Randomized Clinical Trial

Rebecca A. Aslakson, MD, PhD, I^{1,3} Sarina R. Isenberg, MA, PhD, I^{3,4} Norah L. Crossnohere, MHS, ² Alison M. Conca-Cheng, BS, ³ Madeleine Moore, BS, ⁵ Akshay Bhamidipati, ⁵ Silvia Mora, BS, ⁵ Judith Miler, AlD, CDT, LEED, AP, ⁶ Sarabdeep Singh, PhD, ⁶ Sandra M. Swoboda, RN, MS, ⁷ Imothy M. Pawlik, MD, MH, PhD, ⁸ Matthew Weiss, MD, ⁷ Angelo Volandes, MPH, MD, ⁸ Thomas J. Smith, MD, ¹⁰ John F.P. Bridges, MEc, PhD, ⁸ and Debra L. Roter, MPH, DrPH, ⁹

Abstract

Background: Preoperative advance care planning (ACP) may benefit patients undergoing major surgery.

Objective: To evaluate feasibility, safety, and early effectiveness of video-based ACP in a surgical population.

Design: Randomized controlled trial with two study arms.

Setting: Single, academic, inner-city tertiary care hospital.

Subjects: Patients undergoing major cancer surgery were recruited from nine surgical clinics. Of 106 consecutive potential participants, 103 were eligible and 92 enrolled.

Interventions: In the intervention arm, patients viewed an ACP video developed by patients, surgeons, palliative care clinicians, and other stakeholders. In the control arm, patients viewed an informational video about the hospital's surgical program.

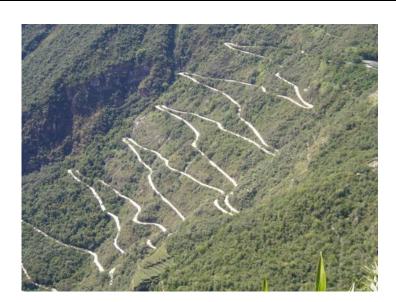
Measurements: Primary Outcomes—ACP content and patient-centeredness in patient-surgeon preoperative conversation. Secondary outcomes—ACP content and patient-enteredness of care; patient and surgeon satisfaction; video helpfulness; and medical decision maker designation.

Results: Nine-ty-two patients (target enrollment: 90) were enrolled. The ACP video was successfully integrated with no harm noted. Patient-centeredness was unchanged (incidence rate ratio [IRR] = 1.06, confidence interval [0.87–1.31, pp. 0-455), although there were more ACP discussions in the intervention arm (2.98 intervention xide).

10% control, p=0.18). While slightly underpowered, study results did not signal that further enrollment would have yielded statistical significance. There were no differences in secondary outcomes other than the intervention video was more helpful (p=0.007).

Conclusions: The ACP video was successfully integrated into surgical care without harm and was thought to be helpful, although video content did not significantly change the ACP content or patient-surgeon communication. Future studies could increase the ACP dose through modifying video content and/or who presents ACP. Trial Registration: clinicalitrials, soy Identifier NCT02488991.

Stanford University







Conclusions

- PCOR involves:
 - > Intense engagement with all stakeholders
 - > Transdisciplinary research teams
 - > Balancing diverse voices with different priorities and perspectives
- PCOR enables:
 - > Novel approaches to complicated clinical scenarios
 - Interventions with "baked in" patient and stakeholder priorities and perspectives

Stanford University



Any ?' s: Rebecca Aslakson, MD PhD aslakson@stanford.edu

Stanford University

4(