





Why is Clinical Nutrition SO Undervalued?

- Numerous challenges to providing optimal nutrition to individual patients in our health care system.
- Partly due to devaluation or de-prioritization of nutrition issues relative to other clinical problems our patients face.
- As a consequence:
 - malnutrition continues to go unassessed,
 - significant underfeeding continues in institutionalized care, and
 - patients experience the attendant negative consequences of nutritional insufficiency

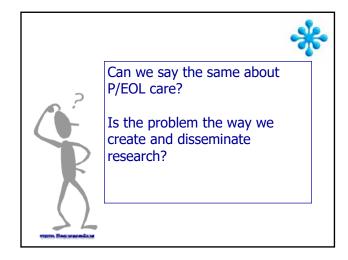
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Why is Clinical Nutrition SO Undervalued?



- Large part of the problem due to <u>weak or absent</u> <u>evidentiary basis</u> that informs our clinical practice guidelines.
- Evidence for this assertion comes from a review of recent clinical practice guidelines and the nature of the evidence informing these guidelines that reveals few strong clinical recommendations and numerous small, low-moderate quality single center randomized trials.

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Possible Solutions?



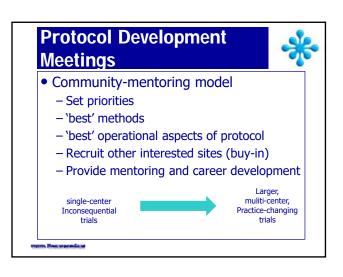
- Formation of Research networks to foster the growth or large scale projects
- Creation of volunteer-driven, registry-based RCTs
- Engagement of patients and families as our partners

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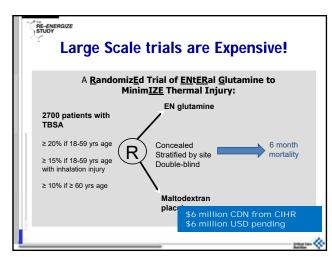


Protocol Development Meetings • Multi-disciplinary • Face-to-face, round table, open discussion about research protocols • Stand alone meetings or in conjunction with society meetings • Mix of funding strategies - industry support, meetings grants or self-

funding







But even RCTs have their limitations!



- Very costly
- Fail to show a 'signal' of benefit
- Limited generalizability

The Randomized Registry Trial — The Next Disruptive Technology in Clinical Research?

Michael S. Lauer, M.D., and Ralph B. D'Agostino, Sr., Ph.D.

- Clinical registries are established tools for auditing clinical standards and benchmarking QI initiatives
- Data from clinical registries can be used to formulate hypothesis
- With appropriate methods, make causal inferences (albeit weaker inference)
- Results more generalizable

Thrombus Aspiration in ST-Elevation myocardial infarction in Scandinavia (TASTE trial). A multicenter, prospective, randomized, controlled clinical registry trial based on the Swedish angiography and angioplasty registry (SCAAR) platform. Study design and rationale

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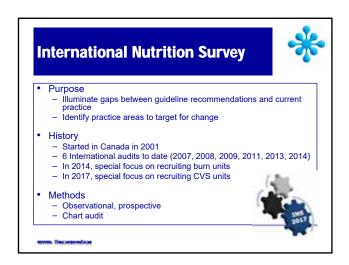
- Used existing national cardiac registries
- Randomized patients undergoing angioplasty to manual thrombus aspiration or usual care.
- Over 7000 patients were efficiently recruited from the registry to evaluate the study question and aside from the randomized intervention, the trial imposed no other study procedures and all data were collected by existing registries supported by funds from national or other hospital sources.

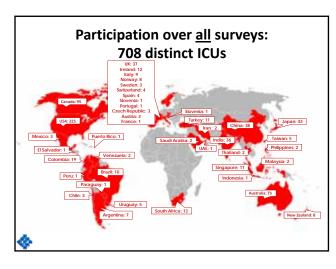
Registry-based Randomized Clinical Trials (RRCT): A possible solution?

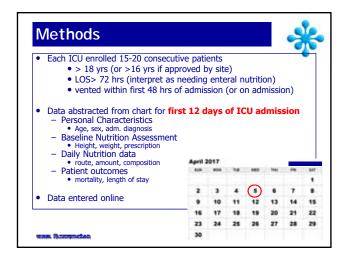


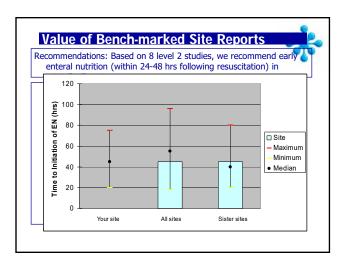
 Recent experience with large scale, multicenter, observational studies conducted by volunteers in hundreds of ICUs around the world opens the possibility of using the same International Nutrition Survey infrastructure to support large scale, randomized trials.

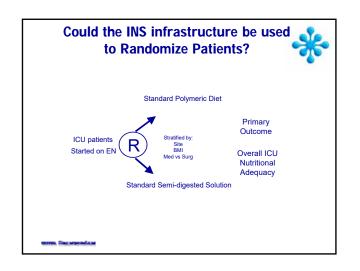
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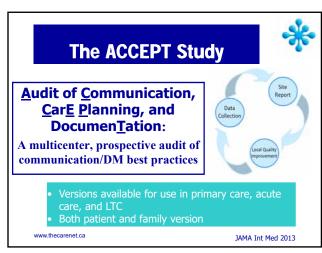




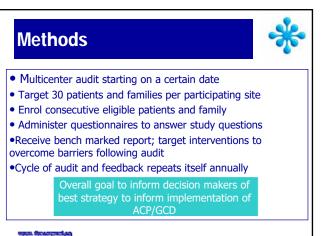




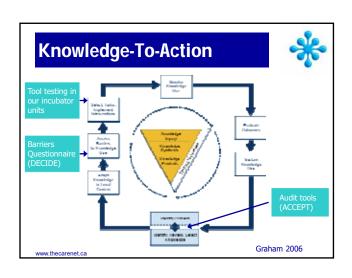




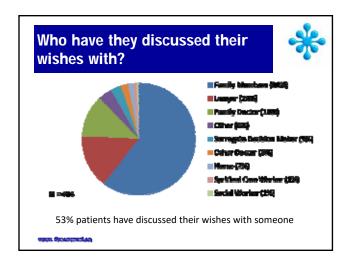




Over past 3 years, from 16 acute care hospitals in Canada, 808 patients and 631 family members participated. From 24 primary care settings Starting long-term care settings



Audit of Communication, CarE Planning, and DocumenTation (ACCEPT) in Primary Care 41% of patients have heard about ACP 69% patients thought about what kinds of medical treatments they would want, or not want, if they were to get very sick and be in a hospital



Audit of Communication, CarE Planning, and DocumenTation (ACCEPT) in Primary Care



- 35% of patients said they have written down their wishes
- 51% of patients said they have named someone, in writing, to be their SDM

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Based on level of ACP engagement amongst lay public and primary care....

Are patients adequately prepared for 'in the moment' decision-making when they get sick?

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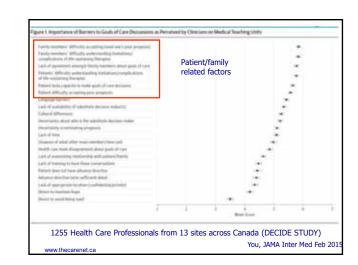
Failure to Engage Hospitalized Elderly Patients and Their Families



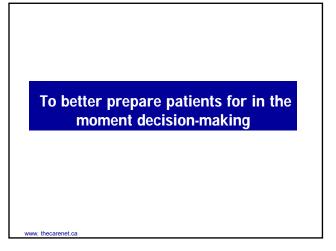
- Multicenter (16) ACCEPT survey of 283 older, seriously ill patients/families on hospital wards
- Majority had thought of EOL wishes and could express preference for treatment at EOL
- Less than 1/3 had spoken to health care professional
- Fewer than 20% acknowledged a prognostic disclosure
- Expressed preferences and documents 'goals of care' only agreed 1/3 time

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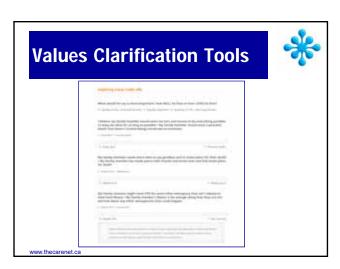
Heyland JAMA Int Med 2013



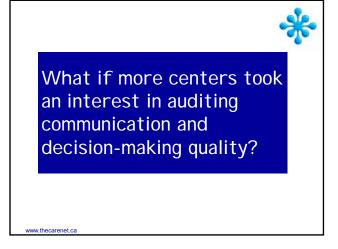


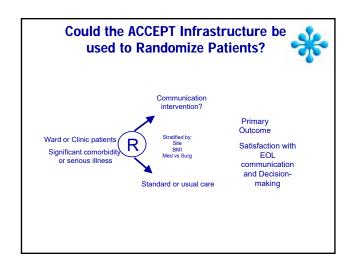




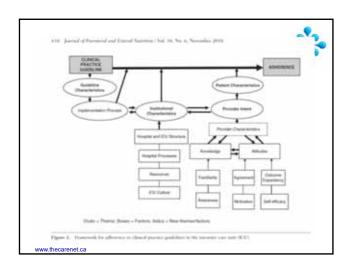


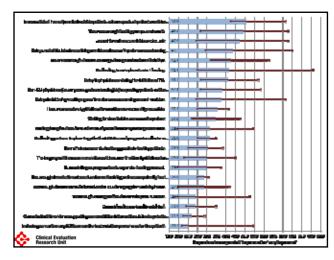












A Quotable Quote



"With critical illness, nutrition is often one of the last things on the minds of the health care team...."

Nurse in OPTICS study

How do we change the culture and make nutrition a higher priority? Airway, Breathing, Circulation, D(Digestion), E(Early EN)

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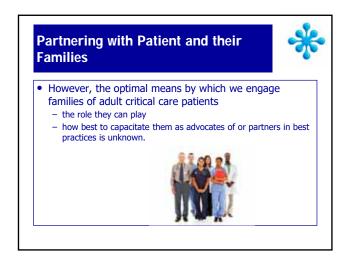
Partnering with Patient and their Families



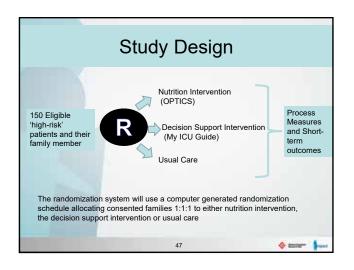
- Partnering with families members of critically ill patients has been shown to
 - decrease patient anxiety, confusion and agitation,
 - reduce cardiovascular complications,
 - decrease length of stay in the ICU,
 - $\,-\,$ make the patient feel more secure and
 - increase patient satisfaction.
- Reduces family stress
- Overall, it is thought to promote quality and safety in the ICU.

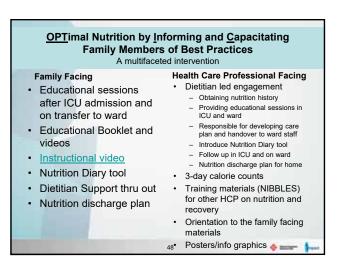
















Example of output from MY ICU Guide that would go onto medical record

First RCT of Family-engagement strategy in adult critical care We propose to transform the experience of older patients with life-threatening illness and their families with a novel family capacitation strategy. We plan to create the evidentiary basis for a family-partnered care pathway that will improve outcomes for both these patients and their family members.

Conclusions (1)



- Poor evidentiary basis for clinical interventions at EOL
- Limitations of large-scale RCTs need to drive us to develop alternative solutions for some research questions
- RRCT is a possible solution
- Can the ACCEPT 'registry' be adapted to generate high(er) level evidence that broadly applicable?
- Creation of clinical research networks has the potential to accelerate and support large-scale innovative trials

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Conclusions (2)



- Devaluation/Deprioritization of P/EOL care results in inadequate care at EOL
- Engaging patients and families in our efforts will transform the valuation of P/EOL and impact on outcomes

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