ORIGINAL ARTICLE

Hospitalized Patients' Understanding of Their Plan of Care

KEVIN J. O'LEARY, MD, MS; NITA KULKARNI, MD; MATTHEW P. LANDLER, MD; JIYEON JEON, MPH; KATHERINE J. HAHN, BS; KATHERINE M. ENGLERT; AND MARK V. WILLIAMS, MD

> CONCLUSION: A substantial portion of hospitalized patients do not understand their plan of care. Patients' limited understanding of their plan of care may adversely affect their ability to provide informed consent for hospital treatments and to assume their own care after discharge.

> > O'Leary K et al. Hospitalized Patients' Understanding of their Plan of Care. Mayo Clin Proc 2010;85(1):47-52.

JAMA Internal Medicine

Quality of Discharge Practices and Patient Understanding at an Academic Medical Center

Leora L Horwitz, MD, MHSI^{1,2}, John P. Monanty, MD¹, Christine Chen, MD¹, Robert L. Fogerty, MD, MPH¹; Ursula C. Breweter, MD¹, Bandhya Kanade, MD¹, Boback Zaelan, MD¹, Grace Y. Jeng, MD¹, Hafan M. Kumholz, MD, MA^{1,2,4,4} JAMA Intern Med. 2013;173(18);1716-1722.

Results The 395 enrolled patients (66.7% of those eligible) had a mean age of 77.2 years. Although 349 patients (95.6%) reported understanding the reason they had been in the hospital, only 218 patients (59.6%) were able to accurately describe their diagnosis in postdischarge interviews. Discharge instructions

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Risks of Transitions

- Adverse drug events
- Number of meds, types of meds, number of transitions, adherence postdischarge
- Missed results from pending tests
- Documentation, communication, awarenessLack of appropriate follow-up
- Documentation, time to follow-up

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Components of an Effective Transition

- Communication between sending & receiving providers
- Medication reconciliation
- Preparation of patient & caregiver
- Communication re: contingencies
- Follow-up plan for pending tests
- Plan for follow-up appointment

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- 2005;80(6):991-4. O'Leny K et al. Capatily of Description of the Company of the C .

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ECHO-Care Transitions: Past, Present and Future

Amber Moore, MD, MPH Co-Director, ECHO-CT Hospitalist, Beth Israel Deaconess Medical Center Instructor of Medicine, Harvard Medical School

People need access to specialty care for their complex health conditions



···· There aren't enough specialists to treat everyone who needs care, especially in rural and underserved



care clinicians to

provide specialty care services. This means

The ECHO Model



Patients get the right care, in the right place, at the right time. This improves outcomes and reduces costs.



communities.

more people can get the care they need. SCHOOL OF MEDICINE



The ECHO Act

· 2016 mandate by congress stating that the secretary of health

workforce issues.

Why Transitions to Post-Acute Care?

- Adverse health outcomes are tied to poor quality transitions, including inconsistencies with medications and follow-up care
- Older adults account for the largest percentage of transfers to post-acute care facilities.
- Post-acute care providers receive little to no verbal sign-out, and rely on discharge documentation of varying quality that is not standardized.
- · Buy-in from department leadership

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Program Structure

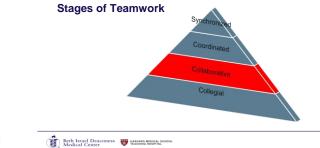
- Weekly video conferences designed to improve transitions of care from acute care to skilled nursing facilities (SNF).
- The inter-professional hospital team includes hospital medicine, geriatrics, pharmacy, social work, primary care provider, inpatient care team, medicine residents
- SNF team includes doctors, nurses, physical therapy, occupational therapy, social work
- Funding:
 - Reynolds Foundation (July 2013 June 2017)
 - Hospital funded (July 2017-Sept 2018)
 - AHRQ (October 2018-present)

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Key Objectives

- Create a collaborative multidisciplinary, team based learning community
- Provide peer support
- · Improve patient care, quality and cost outcomes

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collaborative, multidisciplinary conversation, new solutions emerge that no one provider may come

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Multidisciplinary, Bidirectional, Problem-solving Communication Flow



An Optimized Team

telational Coordination
hared Goals
hared Knowledge
Mutual Respect
Communication: Frequen
Communication: Accurate
Communication: Timely
Communication: Problem

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ECHO - CT Educational Impact

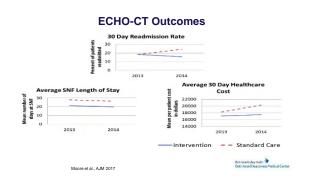
- Hundreds of residents have participated in an ECHO-CT clinic
- Residents and hospitalists demonstrated an improvement in knowledge about transitions and also showed significant improvements in skill
- SNF staff self reported improved knowledge

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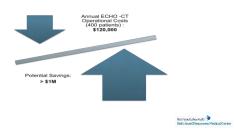
ECHO-CT Outcomes

- 30 Day Mortality Rates
- 30 Day Readmission Rates
- Total cost of health care during 30 day period post discharge
- Length of Stay in Post-Acute Care
 Facility

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= Always			-B			
i = About half the time = Seldom = Never	stemy	Visually	About half	Seldom	Never	
. Starts session on time						
 Ensures that all participants introduce themselves and identifies who will be leading the conf when resident is present 					Γ	
 Reminds participants to maintain confidentiality and use the ECHO ID when discussing patients (if needed) 						
 Summarizes patient case presentation in 2 to 3 sentences. 						
 Allows SNF clinicians time to discuss patients current state 						

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
The outcomes of ECHO-CT conferences are worth the time commitment.					
Having a multidisplinary team participate in the conferences					

participate in the conferences makes them more effective.		
My feedback on the BIDMC discharge process is welcomed.		
My feedback on the ECHO-CT program is welcomed.		

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Logistics for ECHO-CT Session

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Pre-Session Weekly Process

- Each site has designated a point person who will be completing the pre-session activities
- Pre-Session Activities include: confirming patients to be discussed that week and sending BI intake forms and medication lists for each patient
- The process for preparing for a session begins two days before the session.
 B Boston Sites Your Session is on Thursday so the preparations start on
 - Tuesday
 Bl Needham Sites Your session is on Wednesday so the preparations start start on Monday
- Note about Attendance: It is very important that facilities attend every week (unless they don't have any patients that week). If someone is going to be unable to facilitate the session or any of the pre-session activities, please let Lauren know ASAP.



Google Meet

- Through a BAA with Google, BIDMC can in a safe and HIPPA compliant way, use Google Meet for these conferences.
- Each week the same login information will be used. This information has already been sent to your sites.
- We encourage the use of video conferencing because it promotes a more engaging and collaborative environment. However, there is a phone call in number as back-up.
- We do have cameras and microphones available if your site needs one.
- IT support available as needed

DEMO: meet.google.com/pqr-ijtn-euo (US) +1 724-542-5258 PIN: 353 672 415#

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Conference Structure



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Structure of Patient Discussion

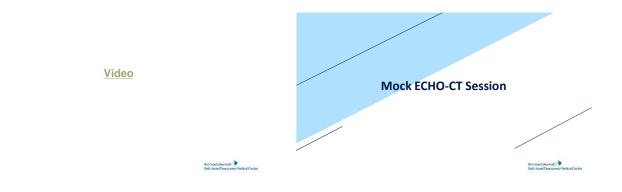
- 1) Hospitalist facilitator gives case summary
- 2) SNF gives overview of current condition and raises questions/concerns
- 3) Case discussion
- 4) Discharge Plan
- 5) Areas for Improvement

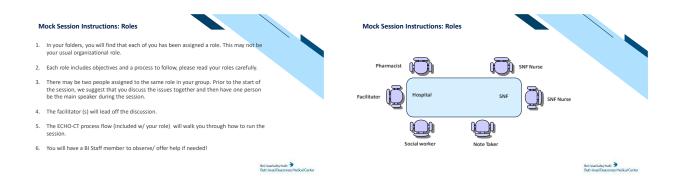
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Disease Specific Checklists



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Mock Session Instructions: The Case & Objectives

- In each of your folders, you will find case details. The case details include:

 Overview of patient's hospital stay (overview, acute issues, transitional issues).
 - issues)
 - Follow up appointments
 Medication lists

2. This case involves a lot of the typical issues that we see during the ECHO-CT sessions. Your objective is to identify as many of the issues as you can.

The patient:

Ine patient: 77 male who presents to the ED on 3/13/2019 with report of a fall. Notes he slipped down on the ground for 30 minutes until he got help getting up. He attempted to stretch out his arms to break his fall, but did hit the front of his head. While in the hospital he was found to have urosepsis and acute kidney injury. He was discharged to a SNF on 3/22/2019.



Mock Session Instructions: Schedule

11:05-11:15: read case details, if there are two people in one role you should discuss the case and decide what issues you want to address and which of you will play the role during the mock session

11:15-11:30: Mock case

 $\textbf{11:30-11:40:} \ \text{debrief in small group with note-taker commenting on what they observed}$

11:40-11:50: reconvene as a large group to share lessons

11:50-12:00: wrap up and next steps

Mock Session Instructions: Tips & Tricks

- When reading over the case, note the things that may be most important to your specific role.
 Just like in real life, the hospital side and the SNF side have been given
- Just like in real life, the hospital side and the SNF side have been given different types of information.
- Follow along with the ECHO-CT process flow document.

Group #	Location	BI Team Helper
Team 1	Grand Canyon Room	Amber
Team 2	Main Room	Lew
Team 3	Haleakala Room	Lauren
Team 4	Main Room	Anita

Mock Session Issues:



- Discharge summary is unclear as to what antibiotic patient should be taking (states patient should be discharged on Ceftriaxone but patient is actually discharged on Cipro)
- Appears that antibiotic was stopped prematurely as discharge summary states to continue through 3/27 however SNF team reports that it was stopped on 3/23 – discussion of appropriateness of stopping early, consideration of blood cultures to confirm resolution given that antibiotics were stopped several days before the conference occurred
- 3. Might recommend discontinuing Metformin due to creatinine level
- 4. Patient has urology appointment on 4/2, SNF unaware
- The inpatient team's assessment of the cause of the fall and work-up is not clearly outlined in the dc summary—may have been missed workup.
- 6. Discussion of need to restart Hydrochlorothiazide 25mg, titrate BP meds given borderline low BP
- Discussion of anticipated discharge date, barriers to discharge, discharge location (potentially cannot return to assisted living due to blindness, falls, dementia)

Mock Session Debrief

- 1. How did your teams address discrepancies in the care plan?
- 2. How did your team facilitate respect and teamwork?



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Wrap-up & Next Steps

- The program officially begins next week!
- Needham Sites: Your first session will be on Wednesday April 3rd
- Boston Sites: your first session will be on Thursday, April 4th
- All of the logistics information covered today has been sent to your sites.
- If you have any lingering questions, need IT support or other information please see Lauren after.





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Please Fax to ****

ECHO Care Transitions Intake Form

Date of Presentation:

ECHO Patient ID#:

Skilled Nursing Facility:

SNF Presenter Name:

1) What issues/concerns do you have about the transition from *hospital* to your facility? Please describe below.

□None

□ Medication related (specify):

□Treatment related (specify):

 \Box Other (specify):

- 2) Do you have any medical or treatment-related concerns that have occurred since you admitted the patient that you would like to discuss? Please describe below.
- 3) Is there an anticipated Discharge Date?
 Yes In No If Yes, When?
- 4) What concerns do you have for this patient as they transition from your facility back to home? Please describe below.

CASE DETAILS TEMPLATE

Time	ECHO ID	MRN	ECF Location	Admit Date	Disch Date	Admitting Diagnosis	РСР	BIDMC Attending

Overview:

Click here to enter text.

Acute Issues:

Click here to enter text.

Chronic Issues:

Click here to enter text.

Transitional Issues:

Click here to enter text.

Follow Up:

Click here to enter text.

Facilitator Scorecard

Please rate the following statements below on today's session(s):						
1 = Always				a		
2 = Usually				th		
3 = About half the time				lalf		
4 = Seldom	No No	sys	lly	uth	Б	J.
5 = Never	Yes/No	Always	Usually	About half the time	Seldom	Never
1. Starts session on time	<u> </u>	1		t t	0,	~
 Ensures that all participants introduce themselves and identifies who will be leading the conf when resident is 						
present						
3. Reminds participants to maintain confidentiality and use the ECHO ID when discussing patients (if needed)						
4. Summarizes patient case presentation in 2 to 3 sentences.						
5. Allows SNF clinicians time to discuss patients current state						
6. Encourages participation by asking open ended questions						
7. The facilitator engages all group members i.e. pharmacy, social work etc.						
8. Ensures that words like " consider" or "recommend" are used when providing recommendations						
9. The facilitator keeps the session on track by managing time, providing coaching or guidance as needed						
10. Facilitator gently redirects when the conversation is off topic or over time.						
11. Requests feedback from participants at the SNF (both transition feedback and ECHO feedback)						
12. Manages SNF time slot transitions or multiple people on the line (time goes over, PCP calls in)						
13. Instructs and coaches residents/trainees on ECHO-CT process (if applicable)						
14. Creates supporting learning environment by engaging and listening to peers						
15. Uses downtime to teach general principles related to clinical care or transitions of care						
16. Ends on time						
17. Completes any necessary patient follow up that came out of session						
18. Completes any necessary study documentation (clinical issues, AEs, primary diagnoses)						
19. Completes patient notes in OMR						

Comments:

SNF Satisfaction Survey

1. I am allotted sufficient time to present my patient(s) during an ECHO-CT conference

Strongly Agree
Agree
Disagree
Strongly Disagree

2. Participating in the ECHO-CT Session does not disrupt the flow of my day.

Strongly Agree
Agree
Disagree
Strongly Disagree

3. There is a clear process for discussing patients during the ECHO-CT conference.

Strongly Agree
Agree
Disagree
Strongly Disagree

4. There is a clear process for patient follow up after ECHO-CT conferences.

Strongly Agree
Agree
Disagree
Strongly Disagree

5. The outcomes of ECHO-CT conferences are worth the time investment.

Strongly Agree
Agree
Disagree
Strongly Disagree

6. Having a multidisciplinary team participate in the conferences makes them more effective.

Strongly Agree
Agree
Disagree
Strongly Disagree

7. Once the project is over, I would participate in the ECHO-CT conferences again.

Strongly Agree
Agree
Disagree
Strongly Disagree

8. ECHO-CT conferences offer me added value over resources I already have access to.

Strongly Agree
Agree
Disagree
Strongly Disagree

9. Listening in on other facilities ECHO-CT cases is a useful learning tool

Strongly Agree
Agree
Disagree
Strongly Disagree

10. ECHO-CT conferences are an effective way to address communication gaps in the transition of the care process

Strongly Agree
Agree
Disagree
Strongly Disagree

11. At ECHO-CT conferences I learn information that I can apply to my general clinical practice.

Strongly Agree
Agree
Disagree
Strongly Disagree

12. My facility has incorporated advice from ECHO-CT conferences into treatment plans for patients

Strongly Agree
Agree
Disagree
Strongly Disagree

13. ECHO-CT conferences have helped me to provide better patient care.

Strongly Agree
Agree
Disagree
Strongly Disagree

14. My feedback on the hospital discharge process is welcomed.

Strongly Agree
Agree
Disagree
Strongly Disagree

15. I feel supported by the ECHO-CT team in my clinical practice.

Strongly Agree
Agree
Disagree
Strongly Disagree

16. Having access to clinicians from the hospital is important to me

Strongly Agree
Agree
Disagree
Strongly Disagree

17. Problems with connecting to the hospital team during the ECHO-CT conferences significantly reduce the conference's impact

Strongly Agree
Agree
Disagree
Strongly Disagree
Sciongry Disagree

18. I feel comfortable presenting cases in video-conferencing format.

Strongly Agree
Agree
Disagree
Strongly Disagree

19. The video conference format adds value over other forms of communication (phone call, email etc.)

Strongly Agree
Agree
Disagree
Strongly Disagree
Strongly Disagree

20. ECHO-CT conferences are collaborative.

Strongly Agree
Agree
Disagree
Strongly Disagree

21. I feel that my input is valued in ECHO-CT conferences.

Strongly Agree
Agree
Disagree
Strongly Disagree

22. The number of patients discussed during the conference is ... (Sliding Scale Question)

Too Few

Correct Amount

Too Many

- 23. Do you feel like the appropriate providers are attending the conference? (Yes/No Question)
- 24. If not, what type of providers should attend? (Comment Box/Open Ended)
- 25. What is the greatest benefit of ECHO-CT conferences? (Comment Box/Open ended)
- 26. What is the greatest drawback of ECHO-CT conferences? (Comment Box/Open Ended)
- 27. How could the conferences be improved?

Frailty and Transition of Care for Hospitalized Older Adults

ECHO-CT Webinar

Dae Kim, MD, MPH, ScD

Assistant Professor of Medicine, Harvard Medical School Marcus Institute for Aging Research, Hebrew SeniorLife Division of Gerontology, Dept of Medicine, BIDMC Division of Pharmacoepidemiology, Dept of Medicine, BWH dkim2@bidmc.harvard.edu

Disclosures and funding

! Research grants:

- " NIA R01AG056368, R01AG062713, R21AG060227
- " Paul B. Beeson Clinical Scientist Development Award in Aging (K08AG051187)
- " KL2 Harvard Catalyst MeRIT Award (NIH 1KL2 TR001100-01)
- " Boston Older American Independence Center Pilot Award (NIA P30 AG031679)
- " Boston Roybal Center Pilot Award (NIA P30 AG048785)
- ! I have no financial relationships with a commercial entity producing healthcare-related products and/or services.

Goals and objectives

After participating in this activity, you will be able to

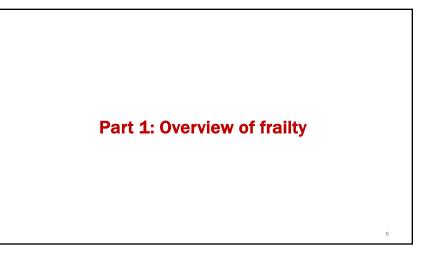
- ! Define frailty using commonly used frailty definitions
- ! Perform a brief screening test of frailty
- ! Interpret the results of comprehensive geriatric assessment-based frailty index
- ! Develop a transition-of-care plan for medically complex older adults based on frailty assessment

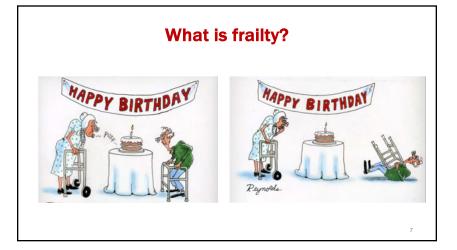
94-yo man with fall and fracture

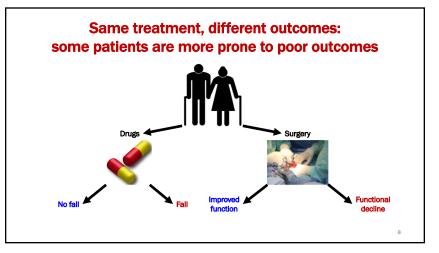
- ! Fall, resulting in 4 rib fractures (concern for flail chest) and vertebral fracture
- ! PMH: AF on warfarin, COPD, hypothyroidism, PE, BPH, HTN, HFpEF, CAD, anemia, valvular heart disease (s/p mitraclip)
- ! Hospital course: ICU admission for respiratory monitoring
 - " Pain control: APAP, hydromorphone PRN, oxycodone PRN
 - " Tachycardia (due to AF), fatigue
- ! Prior to admission: lives with wife at home; use a rollator; ADLs independent; IADLs help with housekeeping
- ! Inpatient functional change: impaired safety awareness, requires assistance with functional mobility
- ! Discharged to rehab on hospital day 4

89-yo woman with pneumonia and AF

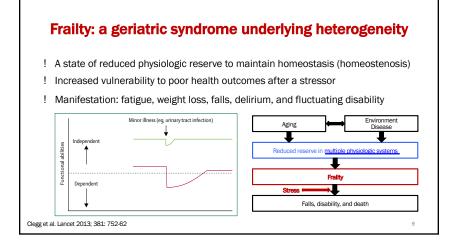
- ! Fell at home, unable to get up; pneumonia and new-onset AF with RVR
- PMH: depression, weight loss (>10 lbs), osteoporosis, incontinence, syncope, recurrent falls, macular degeneration
- ! Hospital course: IV antibiotics, metoprolol and apixaban for AF, straight cath PRN for urinary retention, delirium
- ! Prior to admission: live alone independently (ADL/IADL)
- ! Inpatient functional change: loss in endurance, mobility, and self-care ability
- ! Discharge to rehab on hospital day 12







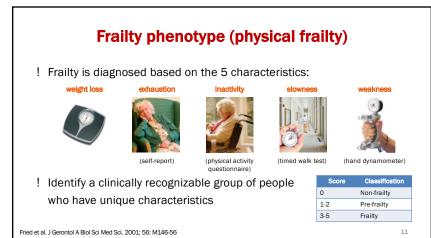
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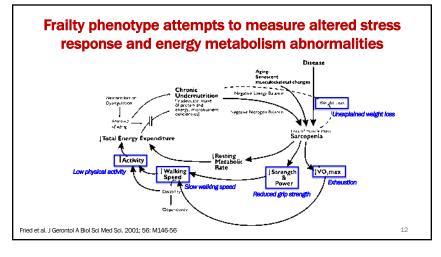


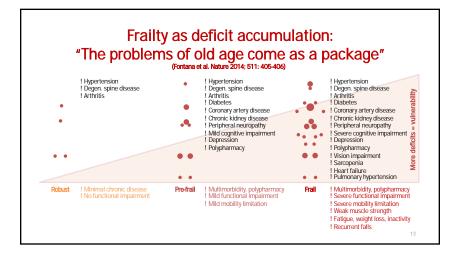
Frailty prevalence and outcomes

- ! Frailty affects one in every 10 community-dwelling older adults and one in every 2 nursing home residents.
- ! Frailty prevalence is higher with advancing age and in women.
- ! Frailty is a risk factor for adverse health outcomes, independently of demographic characteristics and comorbidities.
 - " Falls
 - " Worsening disability
 - " Hospitalization
 - " Long-term care institutionalization
 - " Mortality

Collard et al. J Am Geriatr Soc. 2012;60:1487-1492, Kojima. J Am Med Dir Assoc. 2015; 16: 940-945, Clegg et al. Lancet. 2013;381:752-762







Deficit-accumulation frailty index (FI)

! Frailty can be quantified as deficit accumulation.

! Proportion of deficits (range: 0 to 1): $FI = \frac{n \text{ of health deficits present}}{n \text{ of health deficits considered}}$

Score

0.15-0.24

0.25-0.34

0.35-0.44

0.45-0.54

10.55

< 0.15

Classification

Moderate frailty

Advanced frailty

14

Severe frailty

Non-frailty

Pre-frailty

Mild frailty

" Need ! 30 deficit items

- Deficits should be age-associated and acquired (e.g., symptoms, diagnoses, functional limitations, physical examination, diagnostic test abnormalities)
- " The overall burden is important; less emphasis on specific items

" Increasing popularity for implementation in EHR

Rockwood et al. Sci World J 2001; 1: 323-36, Rockwood et al. Clin Geriatr Med 2011; 27: 17–26

Submaximal limit of a frailty index (typically ~0.7) indicates "very few people can survive with more than 70% deficits."

Frailty phenotype vs deficit-accumulation FI

! Correlation between the two measures: 0.65

