

What is frailty and why it is important

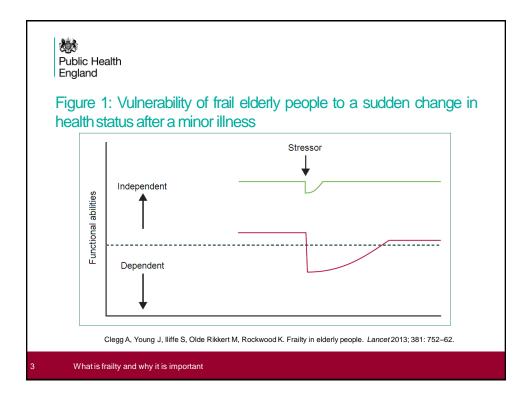
Tony Moran North West Knowledge and Intelligence Team

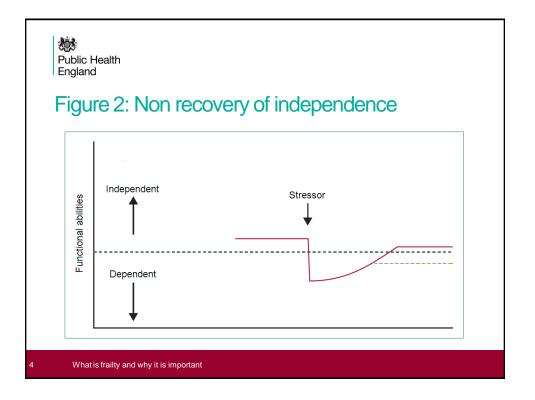
Cancer Outcomes Conference 2013

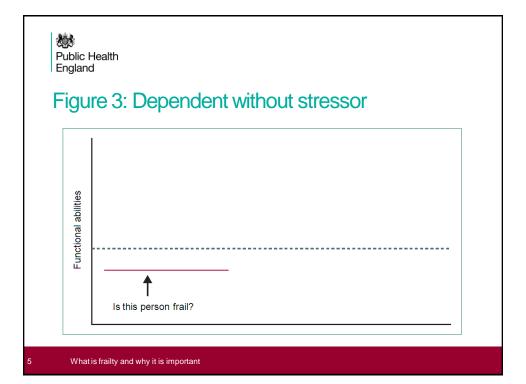


Contents

- · Definitions of frail and frailty
- · Prevalence and measurement
- Use in oncology









Inconsistency of definition of frail

"In the geriatric medicine setting, frailty is not considered to be the endpoint of the continuum of fit to completely dependent; rather it represents a state where a individual is independent but at high risk of developing disability"

Puts MTE, Hardt J, Monette J, Girre V, Springall E, Alibhai SMH. Use of Geriatric Assessment for Older Adults in the Oncology Setting: A Systematic Review. *J Natl Cancer Inst* 2012; 104:1133–1163.



Problems with definition of frailty

- Specific syndrome v general condition
- · Include more than the frail?

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Characteristics of proposed syndrome

- · Weight loss
- Exhaustion
- · Low energy expenditure
- Slow gait
- · Weak grip strength



Sarcopenia = Loss of skeletal muscle

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Mechanism of frailty

- Lifelong accumulation of cellular and molecular damage termed physiological ageing
- Leads to decrease in functional level and reserves



Prevalence of frailty

- 65 year plus living in the community
- Range: 4% 59%
- Weighted mean = 10.7%
- 65-69 = 4%; 85 plus = 26%

Collard RM, Boter H, Schoevers RA and Oude Voshaar RC. Prevalence of Frailty in Community-Dwelling Older Persons: A Systematic Review. J Am Geriatr Soc 2012; 60(8): 1487-92.

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Measure of frailty

· Many different instruments



Canadian Clinical Frailty Scale

- 70 item index including detailed physical examination
- · Strong correlation with institutionalisation and survival
- Spectrum from full independence to complete dependency
- Gold standard but not suitable for routine geriatric practice

Rockwood K, Song X, MacKnight C, Bergman H, Hogan DB, McDowell I, Mitnitski A. A global clinical measure of fitness and frailty in elderly people. *CMAJ* 2005; 173 (5): 489-95

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Other simpler tools

- Questionnaires
- Tests
- · Walking speed: good correlation with survival

Studenski S et al. Gait Speed and Survival in Older Adults. JAMA 2011; 305(1): 50-8.

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Comprehensive Geriatric Assessment (CGA)

- Standard CGA
- Good correlation with clinical frailty scale, institutionalisation and deaths within a year

Jones DM, Song X, Rockwood K. Operationalizing a Frailty Index from a Standardized Comprehensive Geriatric Assessment. *J Am Geriatr Soc* 2004; 52(11): 1929-33.

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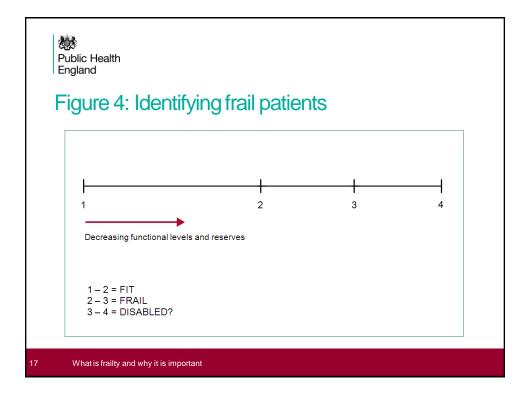
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Frailty and Cancer

- Both cancer and its treatment are major stressors
- · Important to identify frail patients

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Approaches

- · Stand-alone tool
- Part of comprehensive geriatric assessment (CGA)



Domains included in basic CGA

- Functional status
 - 。 IADL
 - 。 ADL
 - o Performance status
- Comorbidity
- · Socioeconomic issues
- Geriatric syndromes
- Polypharmacy
- Nutrition

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Usefulness in geriatric patients

- Prevent institutionalisation
- Decrease falls
- Increase subjective well being
- Only when action taken to relieve problems identified

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Usefulness in geriatric patients

- · Feasible to use in routine practice
- · Step-wise process
- Medical and social problems decreased if linked to appropriate services

Cancer Services Coming of Age 2012: DH, Age UK, Macmillan Cancer Support

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Conclusions

- Important to identify frail patients to inform treatment decisions
- Can be done as part of the CGA
- Oncology services should be linked to other services with clear referral pathways

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Recommendation 1

 Work needs to be undertaken to clarify the use of geriatric terms in oncology (and of geriatric terms in geriatrics!)

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Recommendation 2

Further research is needed to

- Assess the impact of CGA on treatment decisions and outcomes
- Agree on the questions and tests to identify frail patients
- Decide the best way of administering CGA in routine oncology practice to maximise joint decision making

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Recommendation 3

Consider widening the remit of the NCIN Comorbidity Group to cover all patient characteristics that are relevant to decisions on cancer treatment