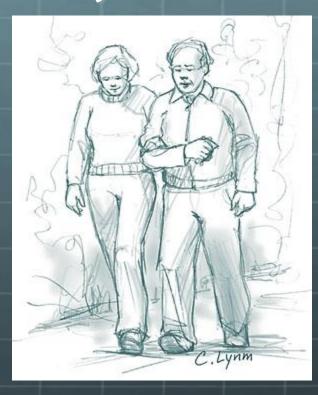


Objectives

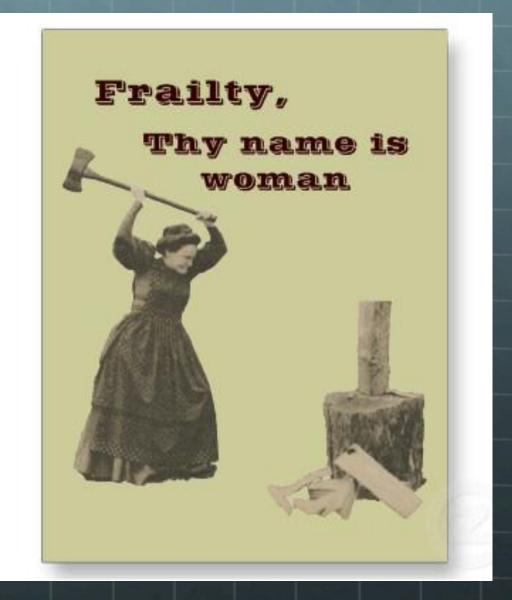


- Define the term "frailty"
- Identify patients who meet the criteria for frailty
- Identify interventions for the frail patient

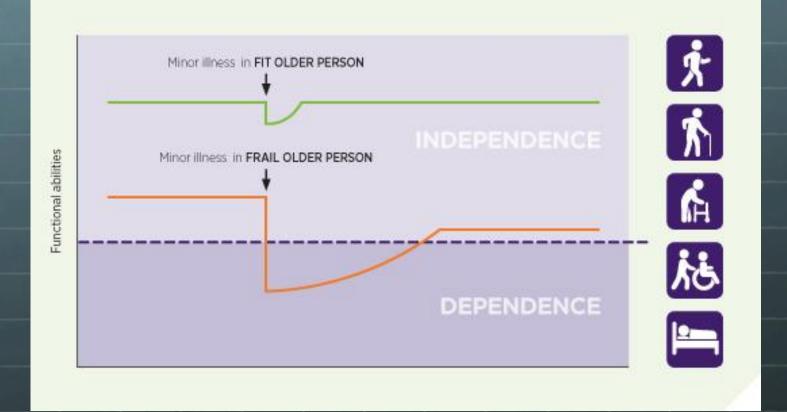
Why Is This New?

But I have heard this expression for a LONG time?

- This is a field of study that is rapidly expanding in:
 - Publications
 - Definitions
 - Screening Tools
 - Biological Understanding
 - Clinical Utility

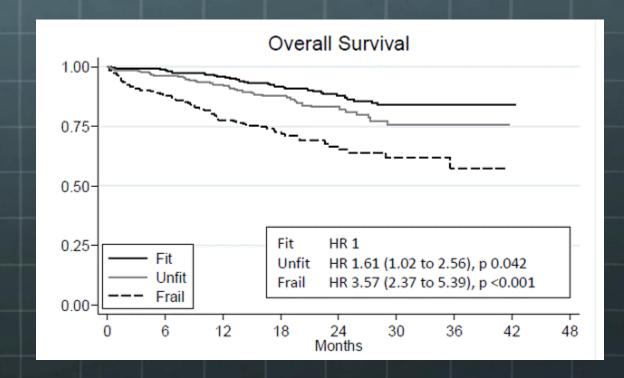


Why Frailty Matters



Incidence

- Just think about the size of the always increasing aging population...
- 3-7% of 65-75 year olds
- 20% of those >80 years old
- 33% of those >90%



Why Frailty Matters

- Up to 15% of community dwelling older adults
- A higher percentage of residents of assisted living communities
- Prevalence increases with age
- All will likely meet criteria if live long enough

POOR OUTCOMES!

- ✓ Increase incidence of falls
- ✓ Worsening mobility
- ✓ Social withdrawal
- ✓ Worsening ADL disability
- ✓ Delirium
- ✓ Increase hospitalizations
- ✓ Cognitive decline
- ✓ Death







Bathing



Dressing



Transferring



Toileting



Walking or moving around

What is frailty?

- A person must exhibit 3 out of 5 of the following:
 - **low physical activity**
 - Muscle weakness (decreased hand grips)
 - Slowed performance
 - Fatigue or poor endurance
 - Unintentional weight loss



TABLE 2. Criteria for Characterizing the Frail Elderly Person

1. Clinical criteria Multiple comorbidities

Polymedication

Frequent hospitalizations

Repeat falls

Sensory deficit

Urinary incontinence

2. Functional criteria Dependency in the basic activities

of daily life

Dependency in the instrumental

activities of daily life

3. Socioeconomic criteria Lives alone

Recently widowed

Institutionalization

Age >80 y

Low economic status

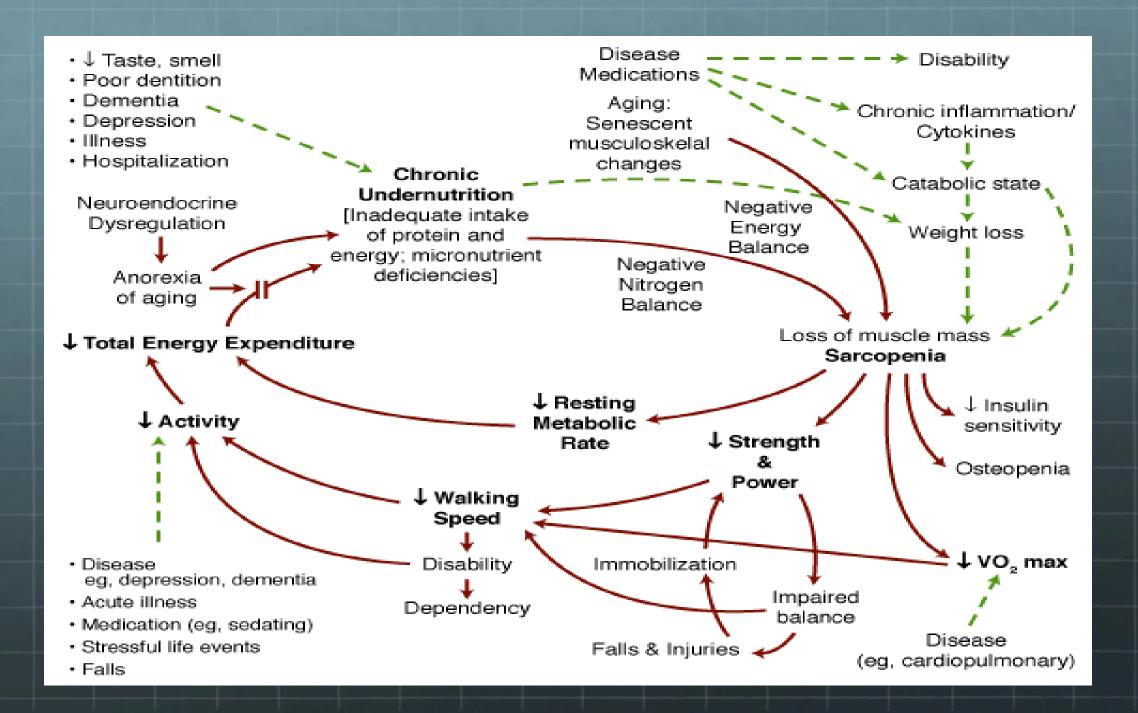
4. Cognitive-affective criteria Depression

Cognitive deterioration

Adapted from Martínez Martín et al25.

The Downward Spiral...

- More likely to become disabled, hospitalized, and have more health problems
- Susceptible to infection
 - Simple infections may even result in death
- Loss of muscle mass
- Inability to prepare meals increases malnutrition



SARCOPENIA

- Skeletal muscle loss
- Poor muscle quality

PHYSICAL FUNCTION IMPAIRMENT

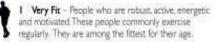
- Weak muscle strength
- Slow gait speed
- Poor balance

FRAILTY

- Deficits accumulation
- Fatigue
- Sedentary behaviour
- Weight loss
- Cognitive impairment
- Social isolation

Frailty Tools- Which One?

Clinical Frailty Scale*



 Well - People who have no active disease symptoms but are less fit than category 1. Often, they exercise or are very active occasionally, e.g. seasonally.

 Managing Well – People whose medical problems are well controlled, but are not regularly active beyond routine walking.

4. Vulnerable – While not dependent on others for daily help, often symptoms limit activities. A common complant is being "slowed up", and/or being tired during the day.

5 Mildly Frail – These people often have more evident slowing, and need help in high order IADLs (finances, transportation, heavy housework, medications). Typically, mild finalty progressively impairs shopping and walking outside alone, meal preparation and housework.

6 Moderately Frail – People need help with all outside activities and with keeping house inside, they often have problems with stairs and need help with bathing and might need minimal assistance (cuing, standby) with dressing.



7 Severely Frail – Completely dependent for personal care, from whatever cause (physical or cognitive). Even so, they seem stable and not at high risk of dying (within – 6 months).

 Very Severely Frail – Completely dependent, approaching the end of life. Typically, they could not recover even from a minor illness.



Terminally III - Approaching the end of life. This
category applies to people with a life expectancy
 6 months, who are not otherwise evidently frail.

Scoring frailty in people with dementia

The degree of finity corresponds to the degree of dementia. Common symptoms in mild dementia include forgetting the details of a recent event, though still remembering the event itself, repeating the same question/story and social withdrawal.

In moderate dementia, recent memory is very impaired, even though they seemingly can remember their past life events well. They can do personal care with prompting.

In severe demenda, they cannot do personal care without help.

- * 1. Conwhan Study on Health & Aging Revised 2008.
- K. Rudwood et al. A global stress measure of Rives and fisity in elderly people. ICHAI 2005;175:485-495.

6 2007-2005 Venous (L.A. Fights venerals, Europhis Photo inc. Hosephis, Outhouse Linkerphis Helder, Caralle Permosoni granical to racy for recent it and individual pre-poles only.





No consensus on how to best measure it!!!

Goals for Frailty Interventions

- lmprove quality of life
- Prevent worsening of chronic diseases
- Reduce risk for adverse or catastrophic outcomes
- Risk assessment to guide therapeutic options and goal setting

Treating Frailty

- Individualized (determine goals & priorities of care)
- Coordinate services- TEAM based care for inpatients and outpatients
- Treating underlying disease process
- Medication management (BEERS list)
- PT/OT EXERCISE

- Nutrition
- Pain management
- Fall prevention
- Environmental assessment
- Encourage socialization
- Palliative Care approaches sometimes less is better.....

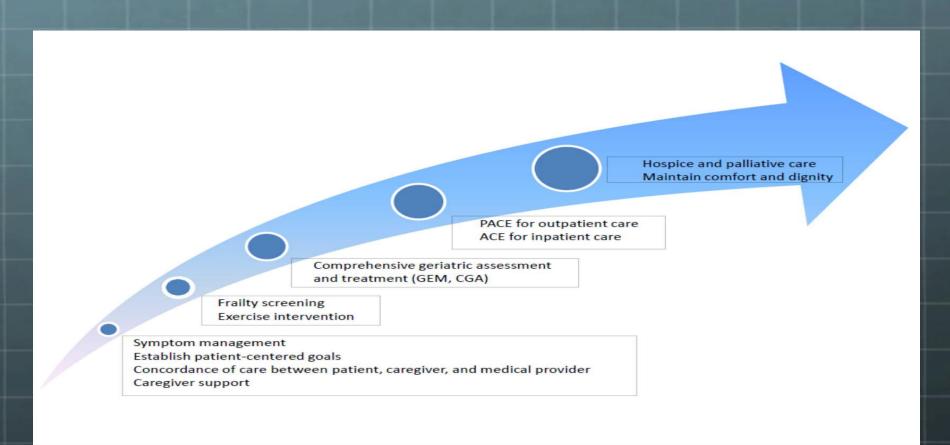
Prevention

- Manage comorbidities DM, CHF, HTN, PVD
- Daily exercise
- Keep the mind active (i.e. crossword puzzles, reading, socializing)
- Treat depression
- Seek treatment of medical and psychiatric problems
- Healthy diet



Interventions

Ko FC. Clin Geriatr Med 2011 Feb;27(1):89-100.



On-Line Resources

http://www.frailty.net



Frailty.net is an international educational resource that aims to help geriatricians, primary care physicians and other health care professionals involved in the care of older persons implement frailty into clinical practice.

Questions?



YOU'RE DELISCRATLY PUTTING YOURSELF AT RISK OF ILL HEALTH BY BEING OVER 65..."

References

- Torpy, J.M. Lynm, C., & Glass, R.M. (2006). Frailty in older adults. Jama, 296, 18.
- 6 Ko, F.C. (2011); Clinical Geriatrics in Medicine; 27(1):89-100
- © Clegg A, Young J, Iliffe S, Rikkert MO, Rockwood K. Frailty in elderly people. Lancet 2013;381:752-62.
- Ferrucci L, Gwen Windham B, Fried LP. Frailty in older persons. Genus 2005;LXI:39-53.
- Fried LP, Tangen CM, Walston J, et al. Frailty in older adults: evidence for a phenotype. J Gerontol A Biol Sci Med Sci 2001;56:M146-56.
- Morley JE, Vellas B, Abellan van Kan G, et al. Frailty consensus: a call to action. J Am Med Dir Assoc 2013;14:392-7.
- Santos-Eggimann B, Cuenoud P, Spagnoli J, Junod J. Prevalence of frailty in middle-aged and older community-dwelling Europeans living in 10 countries. J Gerontol A Biol Sci Med Sci 2009;64:675-81.
- Subra J, Gillette-Guyonnet S, Cesari M, Oustric S, Vellas B. The integration of frailty into clinical practice: preliminary results from the Gérontopôle. J Nutr Health Aging 2012;16:714-20.