

## TheraPilates® for the Frail Older Adult:

## Assessment

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www.therapilates.com











#### What is a Frail Older Adult?

A person who is unable to get down to the floor and back up again without assistance.

Advanced age does NOT equal frailty! It's all about FUNCTION!





## Frailty: No Standard Definition 1. Decreased reserves/capacity to tolerate minor stressors 2. Increased vulnerability to adverse health outcomes 3. Impairment in multiple physiological systems

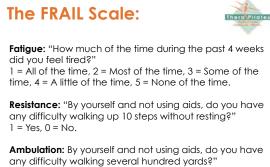
Kojima, G., et al. (2019)

#### The FRAIL Scale:



- 5 Yes/No Questions: 1. Fatique
- 2. Resistance (inability to climb stairs)
- 3. Ambulation (inability to walk a certain distance)
- 4. Illnesses (>5 comorbidities)
- 5. Loss of weight (more than 5%) Predicts mortality and incident ADL disabilities among community-dwelling older people in recent meta-analysis studies. (First validated in Western Australia 2010)

Kojima, G., et al. (2018)



1 = Yes, 0 = No.

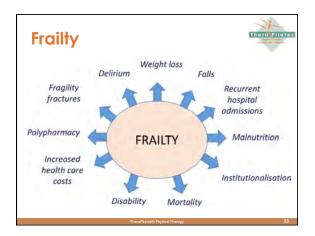
#### The FRAIL Scale:



**Illnesses:** For 11 illnesses, participants are asked, "Did a doctor ever tell you that you have [hypertension, diabetes, cancer, chronic lung disease, heart attack, congestive heart failure, angina, asthma, arthritis, stroke, and kidney disease]?" 1 = Yes, 0 = No. The total illnesses (0–11) are recoded as 0–4 = 0 and 5–11 = 1.

Loss of weight: "How much do you weigh with your clothes on but without shoes? [current weight]" "One year ago in (MO, YR), how much did you weigh without your shoes and with your clothes on? [weight 1 year ago]"







#### An Aging Population



Between 2000 and 2050, the proportion of people aged 60 years or older in the world is projected to **double** from about 11% to 22%.

Adults over **age 60** will increase from 605 million to **2 billion**!

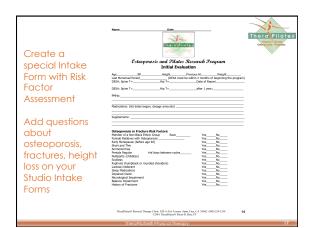
Older adults over **80 years** are expected to **quadruple** to 395 million during the same period.

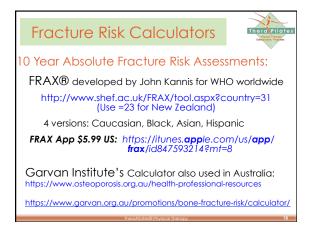
More older adults than ever before on earth!

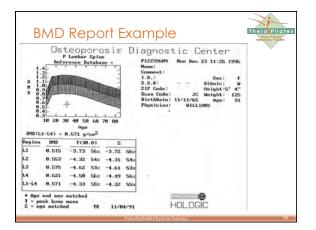
Pilates teachers are in the perfect position to motivate older adults to stay fit!

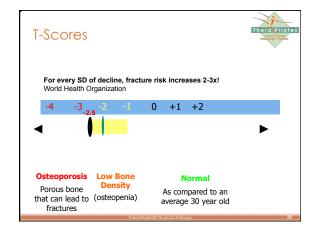


www.NOF.org









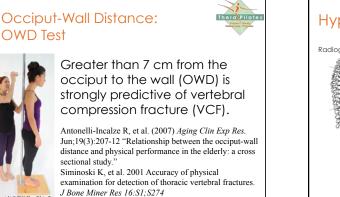


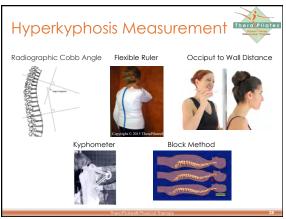




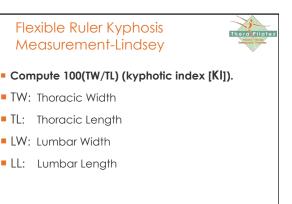


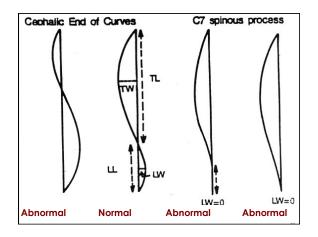




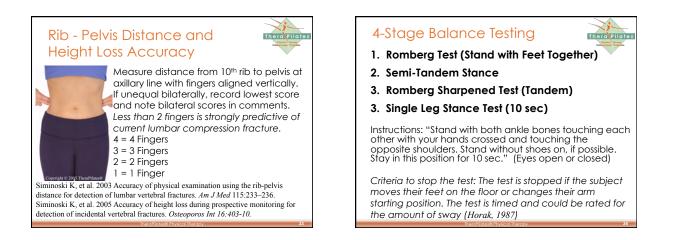


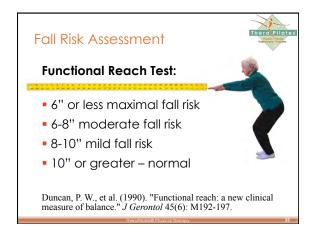














#### Fall Risk Assessment: TUG

#### Timed "Get up and go" test

Subject walks 10 feet, turn around, walk back and sit down

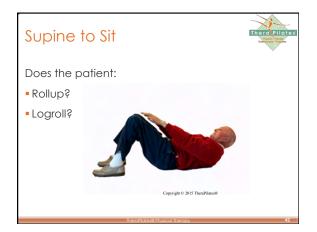
- > 30 sec = Maximal Fall Risk
- 20-30 sec = Moderate Fall Risk
- 10-20 sec = Minimal fall risk



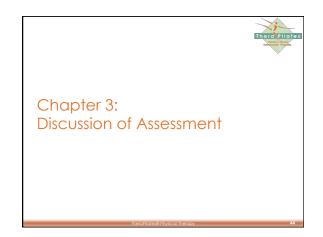


Thera Pilates







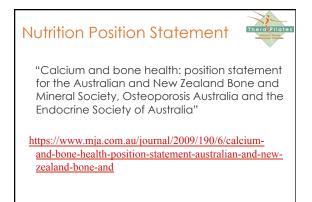


#### Discussion of Assessment

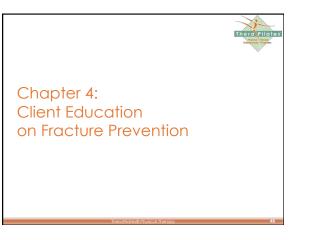


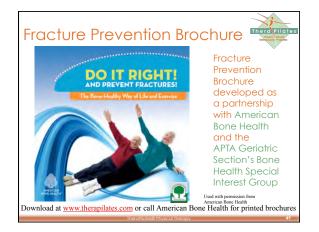
Discuss findings with Client in positive language: BMD Report

- Fracture Risk Assessment
- "Basic" Nutrition (Protein, Ca+, Mg most important)
   Physical findings and highlight most important considerations
- Discuss Fracture Prevention
- Discuss Intervention: PT, Pilates Private, Small Group, Large Group

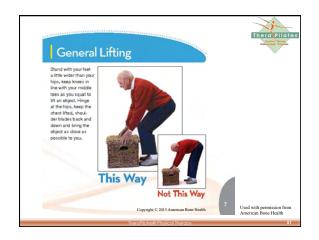


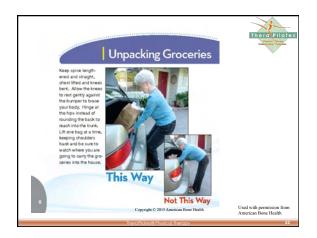
# ters of care ters of care ters of care moves from highest skill at highest cost to lowest skill or teacher student ratio (1:1 or 10:1) at lowest cost.



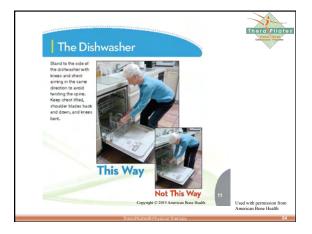




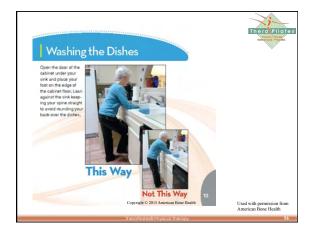








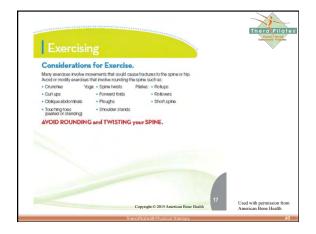


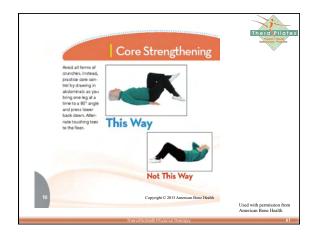


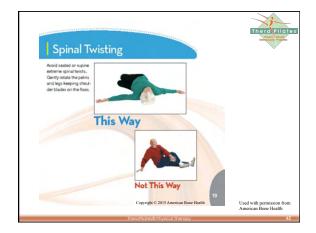




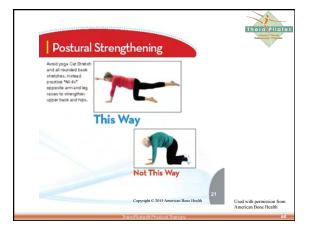


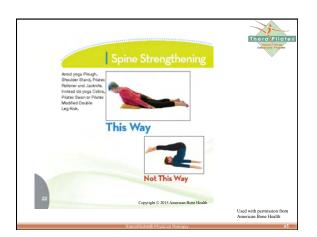


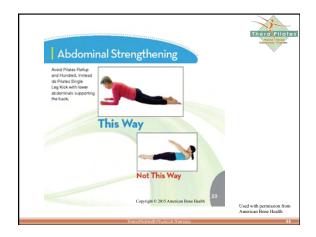


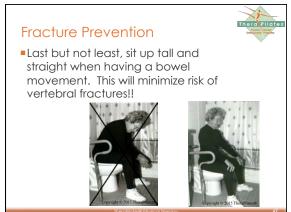










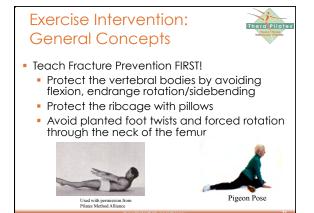














### Pilates for Frail Older Adults



- The exercises should be focused on:
- Balance
- Leg Strength
- Hip Extension
- Thoracic Extension
- \*As few seated exercises as possible!



First!

#### Bone Safe Exercise Priorities



- 1. Protect from fracture!
- 2. Practice optimal spine posture
- 3. Learn to get down to quadruped and up from floor in optimal spine posture
- 4. Hinge at the hip when bending
- 5. Avoid flexion, end range side bending and rotation
- 6. Incorporate skills into your lifestyle
- 7. Practice single leg balance everyday
- 8. Breathe with good rib movement Copyright© 2008 TheraPlates®













#### Part II:

TheraPilates for the Frail Older Adult: Mat Class for Balance and Fall Prevention

Thera Pilates

Today at 1:30 – 3:30



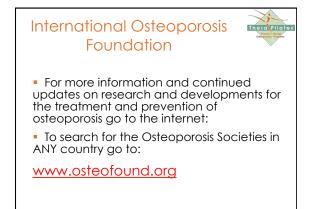
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Thera Pilates

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An Evidence-based exercise program developed by Professor Belinda Beck, based on findings from the LIFTMOR Trials at Griffith University.

https://onero.academy/osteoporosis-exercises/



#### Australia & New Zealand Bone & Mineral Society

ANZBMS is a professional medical / scientific society established in 1988 to bring together clinical and experimental scientists and physicians actively involved in the study of bone and mineral metabolism in Australia and New Zealand. https://www.anzbms.org.au/

