LONGEVITY







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2025 MedFit Global Virtual Conference







OBJECTIVES







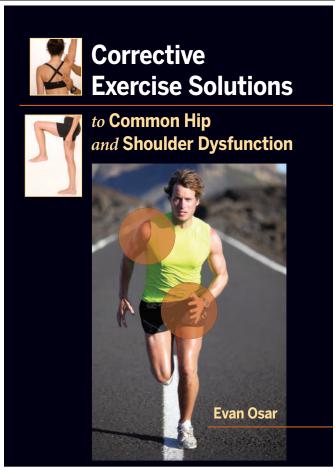
IDENTIFY 3 MODIFIABLE FACTORS TO LONGEVITY

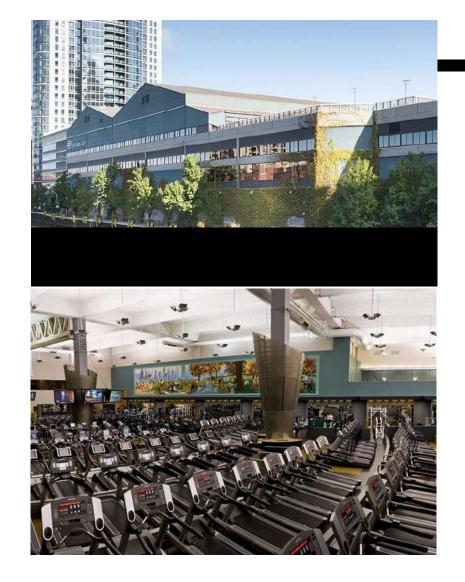
CORRECTIVE EXERCISE

INTEGRATE STRATEGIES









HOWI GOT HERE...

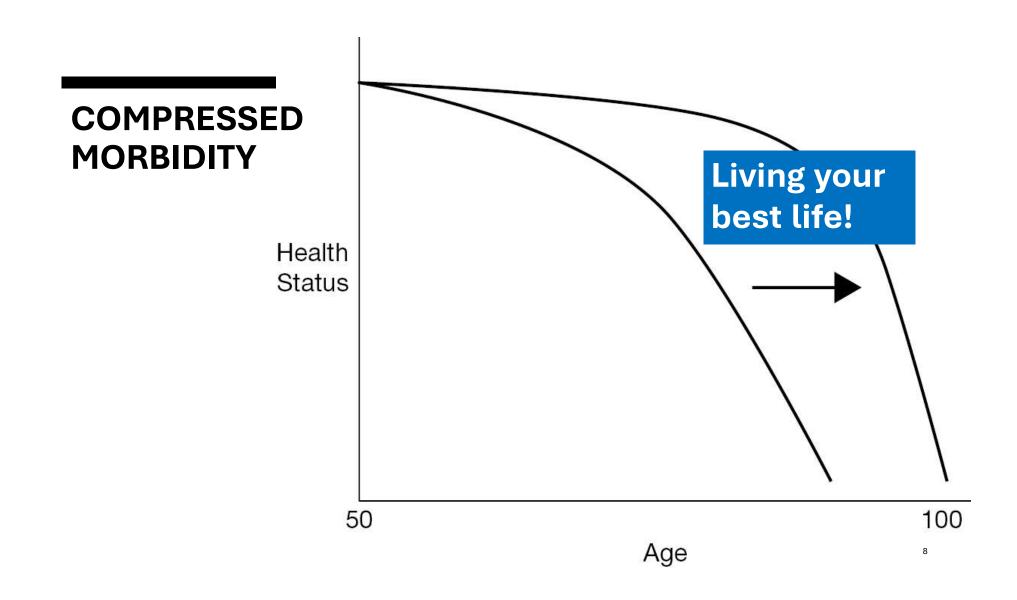


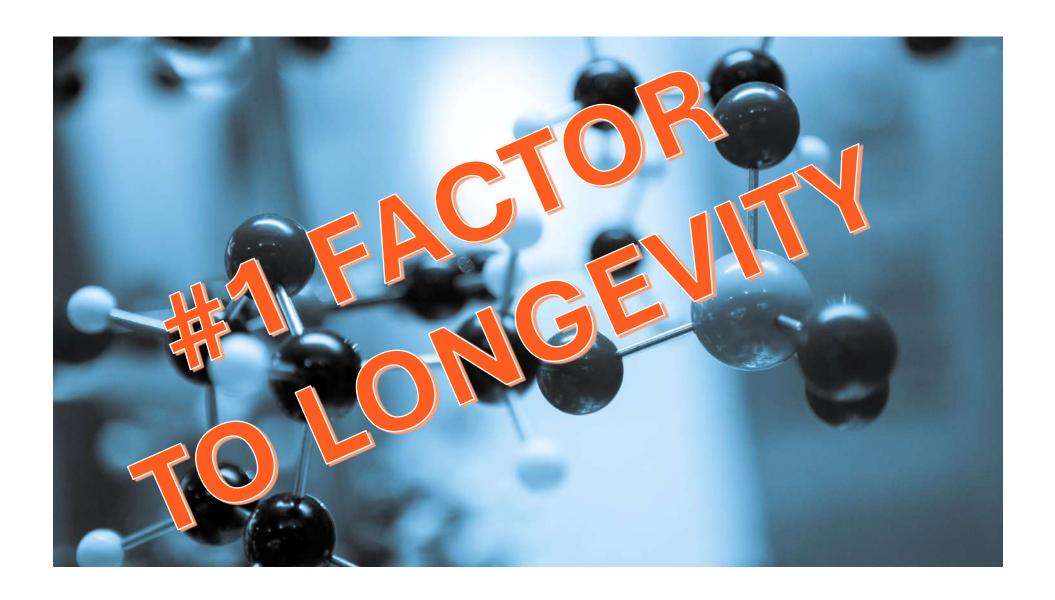
I WASN'T PREPARED TO WORK WITH THESE FOLKS...



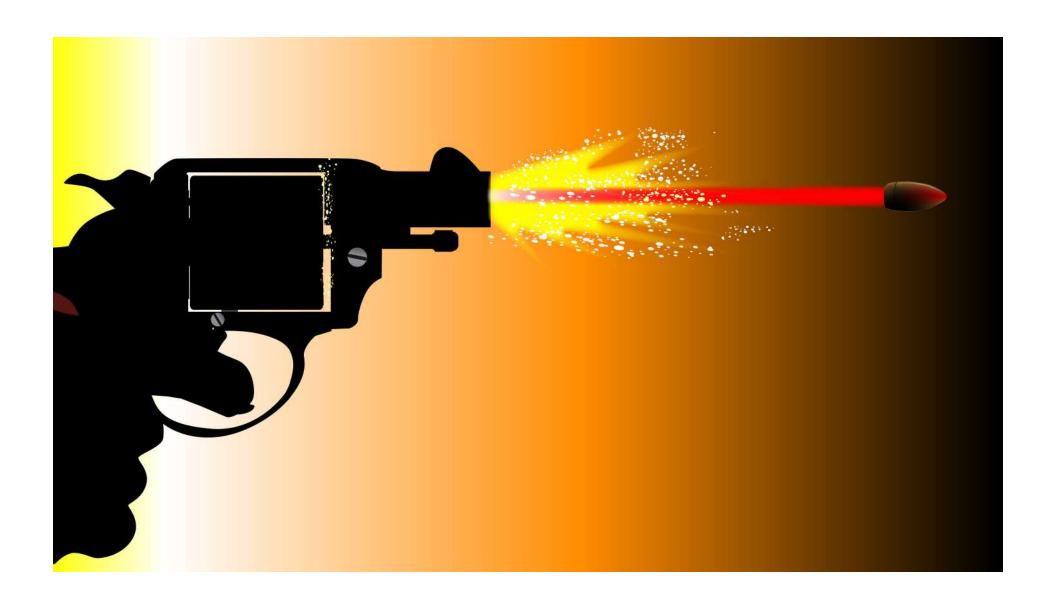












GLOBAL ISSUES



BALANCE

FALLS



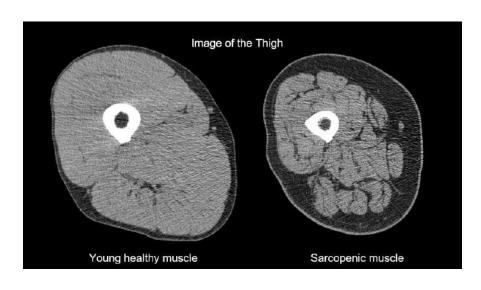
JOINTS OSTEOARTHRITIS



FUNCTIONAL CAPACITY

SARCOPENIA

SARCOPENIA



Exercise for sarcopenia in older people: A systematic review and network metaanalysis (2023)

- ~3-8% decrease in muscle mass per decade
- Incidence:
 - 60-70 yoa > 5-13%
 - 80 yoa > 11-50%

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"...adding balance training to resistance exercise was the most effective intervention for improving physical function measures."

Exercise for sarcopenia in older people (2023 J. Cachexia Sarcopenia Muscle)

POSTURE BALANCE GAIT



CENTRAL PROCESSOR



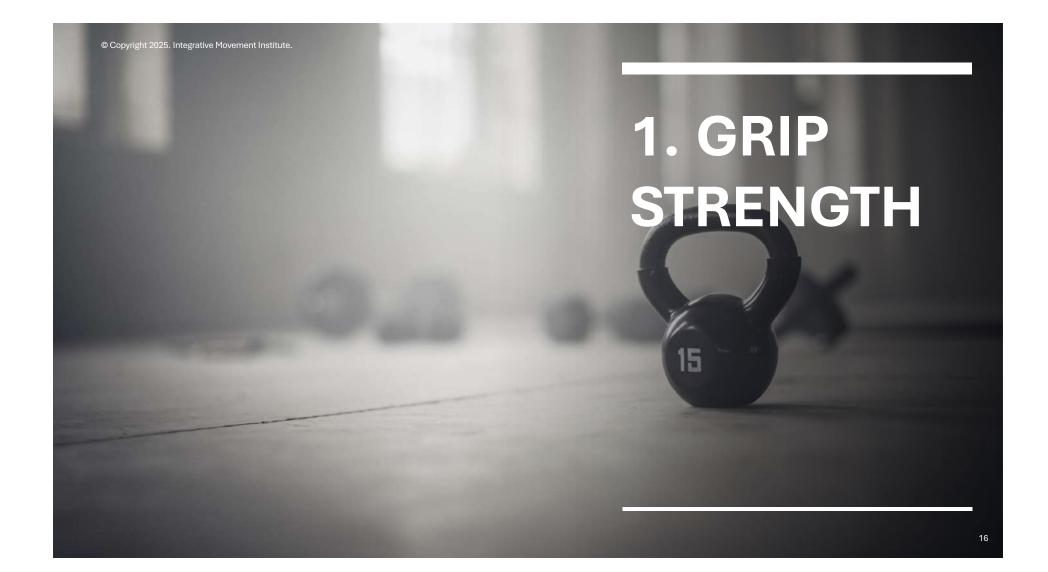
MUSCULOSKELETAL SYSTEM



BALANCE



BREATH





"...grip strength is largely consistent as an explanator of concurrent overall strength, upper limb function, bone mineral density, fractures, falls, malnutrition, cognitive impairment, depression, sleep problems, diabetes, multimorbidity, and quality of life."

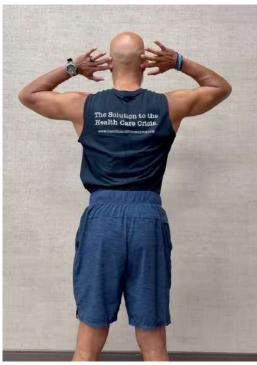
(2019. Grip Strength: An Indispensable Biomarker For Older Adults)

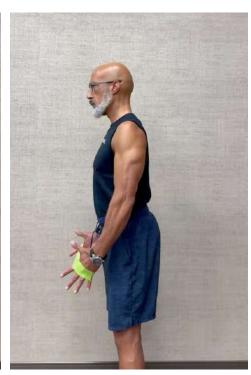


OSTEOARTHRITIS

POSTURE, WRIST, & HAND







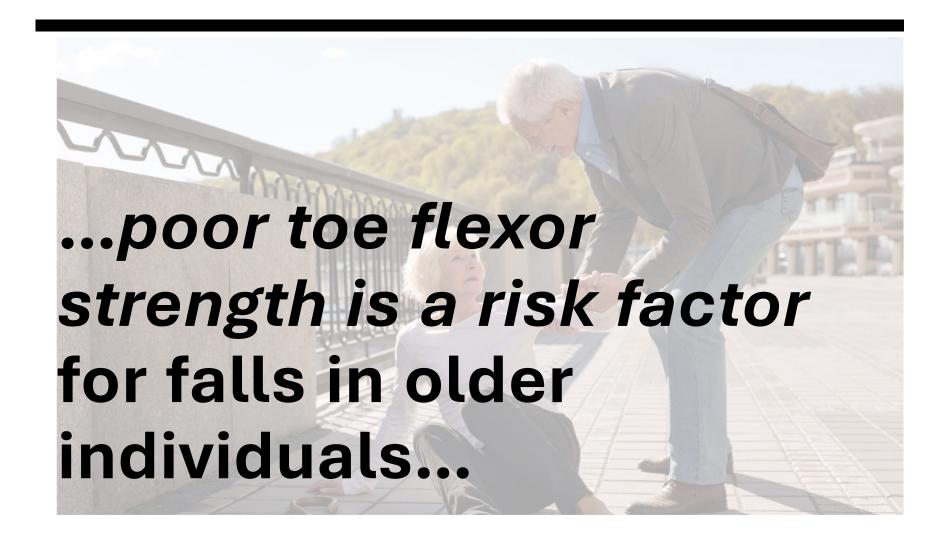
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2. FOOT STRENGTH

 Age-related reduction in toe flexor strength was earlier and greater than handgrip strength...

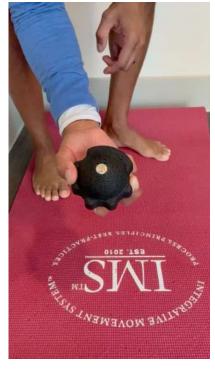
(2017. Journal of Foot and Ankle Research)



FOCUS ON YOUR FEET



- Roll your feet
- Spread your toes
- Train the foot tripod





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3. WALKING SPEED

Walking speed is the 6th Vital Sign. (2009. White paper: "walking speed: the sixth vital sign". J Geriatric Phys. Ther.)

LONGEVITY & WALKING SPEED

•"...walking speed may be more suitable than hand grip strength in women." Walking Speed Is
Better Than Hand
Grip Strength as an
Indicator of Early
Decline in Physical
Function with Age
in Japanese Women
Over 65 (2022)

NON-FALLERS vs. FALLERS

- Non-fallers
 - increased arm swing and thoracic rotation as trunk speed increased
- Fallers
 - have a more rigid and less variable gait pattern

Old adult fallers
display reduced
flexibility of arm and
trunk movements
when challenged
with different
walking speeds
(2017 Gait &
Posture)

LOW BACK PAIN vs. NO LBP

- Pelvis and thorax rotation needs to coordinate to produce a smooth coordinated gait pattern.
- Those with LBP demonstrate difficulty coordinating thorax and pelvis rotation.

Smith JA, Stabbert H,
Bagwell JJ, Teng HL,
Wade V, Lee SP. Do
people with low back pain
walk differently? A
systematic review and
meta-analysis.

(2022 J Sport Health Sci)

INCREASE WALKING SPEED



Align and control > neutral posture & breathing



Train hip and thoracic rotation



Integrate resistance, speed, & power



THE IMS PRINCIPLES



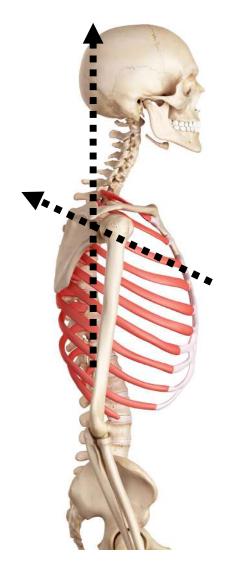




Breath

Control

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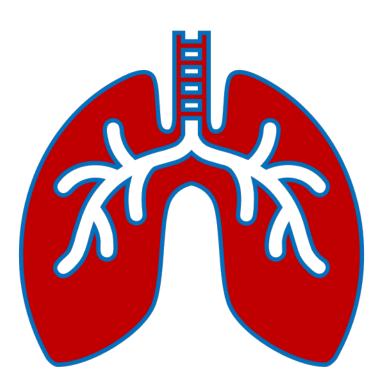


ALIGNMENT

Lengthen

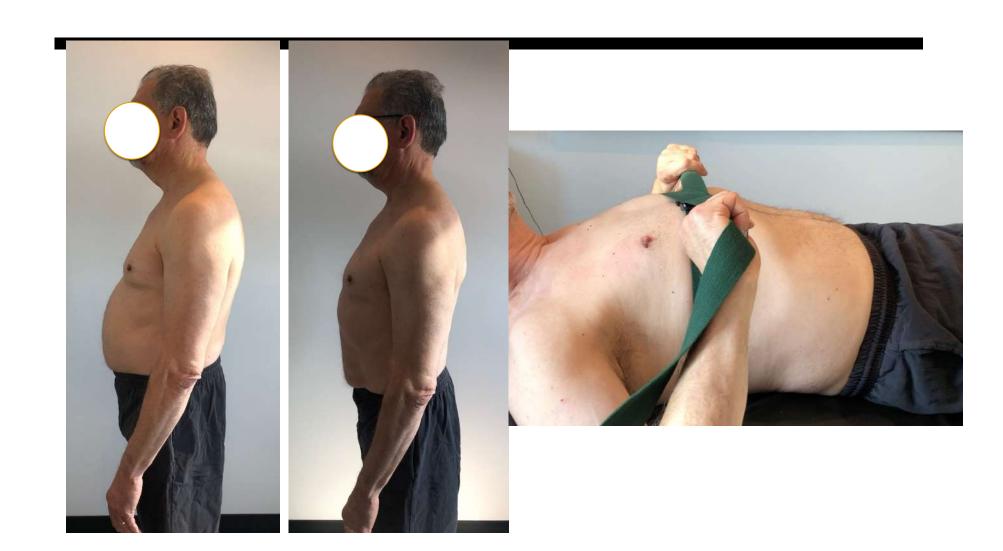
Suspend

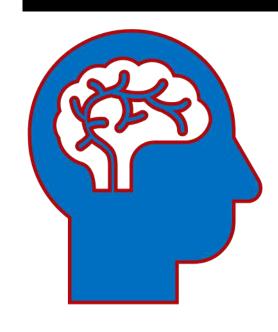
Create space (ribs)



The weaker one's lung volume was at baseline, the significantly higher was their future risk of diabetes, asthma, and all-cause mortality.

(2021. Association between lung function and future risks of diabetes, asthma, myocardial infarction, hypertension and all-cause mortality)





JOURNAL OF AMERICAN HEART ASSOCIATION (2021)

- Breathing
 - √5 sets of 6 breaths
 - √ 6 days a week
 - √6 weeks

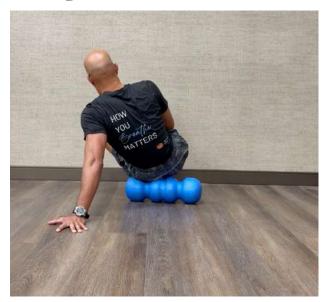
CORRECTIVE EXERCISE: Optimizing Breathing & Stabilization







CORRECTIVE EXERCISE: Myofascial release & Mobility

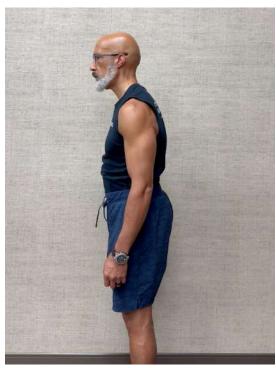




EST. 2010

CORRECTIVE EXERCISE:

Postural Control, Breathing & Rotation







EST. 2010 EST. 2010

INTEGRATION - Rotation





EST. 2010 EST. 2010

INTEGRATION - Walk, Speed, & Power







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CONCLUSION

- Focus on habits
- Train grip, toe strength,
 and walking speed
- Educate and empower!

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