

2023 Forum on Aging in Rural Oregon



Strengthen Your Body: A Muscle-Building Checklist for Older Adults

Erin Fredericks, MScN **FAMILIAR Foods**



Thank you to our partners:





LEARNING OBJECTIVES



understand risk-factors for sarcopenia & special circumstances with higher-protein requirements

recognize several Nutrients of Concern for Older Adults, like Protein, B12 & B6 – and their primary dietary sources

identify the ways we counter muscle loss through nutrition & basic exercise

A PUBLIC HEALTH PILOT

and while we often

With every decade, our health needs change. And while we often feel these differences in our bodies, we were never taught how to adjust our daily routines. FAMILIAR is an online workshop dedicated to the variety of simple foods and lifestyle practices which support a healthy aging plan.

let's get

FAMILIAR teaches people how their bodies work (and evolve) --encouraging participants to take a more informed and positive role
in their own health:

come learn the hows and whys to:

IMPROVE YOUR DIGESTION
DIVERSIFY YOUR MICROBIOME
GAIN MUSCLE & BONE STRENGTH
BALANCE YOUR BLOOD SUGAR
BUILD BRAIN RESILIENCY
TEMPER INFLAMMATION
SLEEP BETTER



taught by Erin Fredericks, MScN two-hour class, six sessions small-group format, conducted live/online take home workbook recipes & resources all cooking skills welcome erin@thrivewithfamiliarfoods.com

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MOVE YOUR BODY



With every decade, our health needs change.

We may feel these differences in our bodies —
but don't always know how to adjust our daily routines.

produced in partnership with Villages NW

January 2021 – ongoing

over 225 adults 65+ have completed the six-week, twelve-hour series

monthly online meet-ups for past participants

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Food As Medicine for Independence and Longevity In Aging & Retirement

AN AGE-FRIENDLY MODEL

to help: improve older adult nutrition status, reverse sarcopenia, preserve bone health, minimize fall risk, maximize cognitive function, reduce chronic disease burden

MOBILITY:

building muscle & bone strength easing joint paint, hydration

MEDICATION:

identifying nutritional deficiencies, reducing supplement polypharmacy, (screenings)



MENTATION:

blood sugar control for brain health the MIND diet, sleep hygiene, hydration

WHAT MATTERS:

self-directed small group, capacity-enhancing

WHOLE BODY APPROACH:

FUNCTIONAL & LIFESTYLE MEDICINE, INFORMED BY CURRENT CLINICAL EVIDENCE

WHAT DOES A PRACTICAL CURRICULUM & COACHING STRATEGY FOR OLDER ADULTS LOOK LIKE?



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SARCOPENIA



clinical diagnosis - expensive, inconsistent benchmarks (MRI, CT, DXA, BIA)



increases risk of:

falls & fractures, cardiac & respiratory disease, cognitive impairment, mobility disorders, frailty, loss of independence & QoL

occurs in 10-27% of adults ≥ 60*

increases hospitalization costs by 34%*

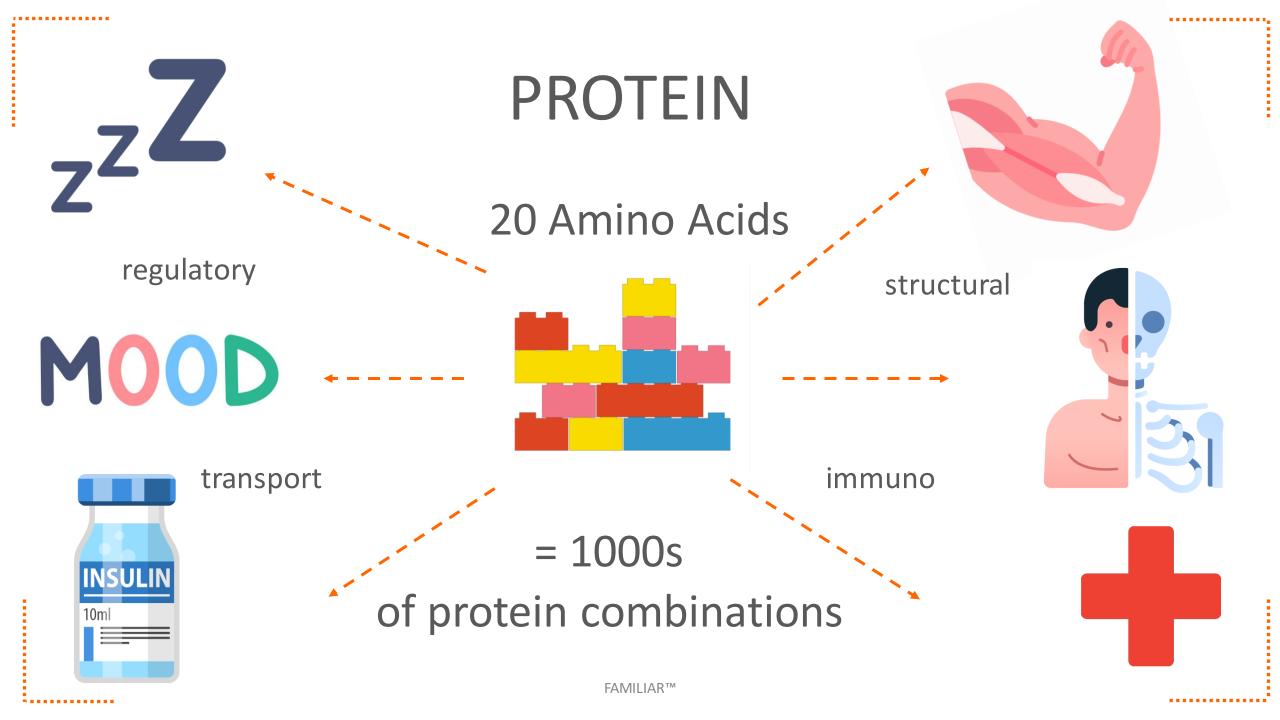
onset at 40 ---- accelerates at 60 FAMILIAR™

STRENGTHEN YOUR BODY: THE HOWS & WHYS TO REBUILDING MUSCLE AS WE AGE

how muscle changes over time + what we can do about it

why protein is so important + how much we should eat

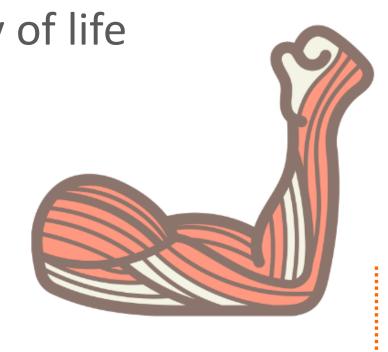




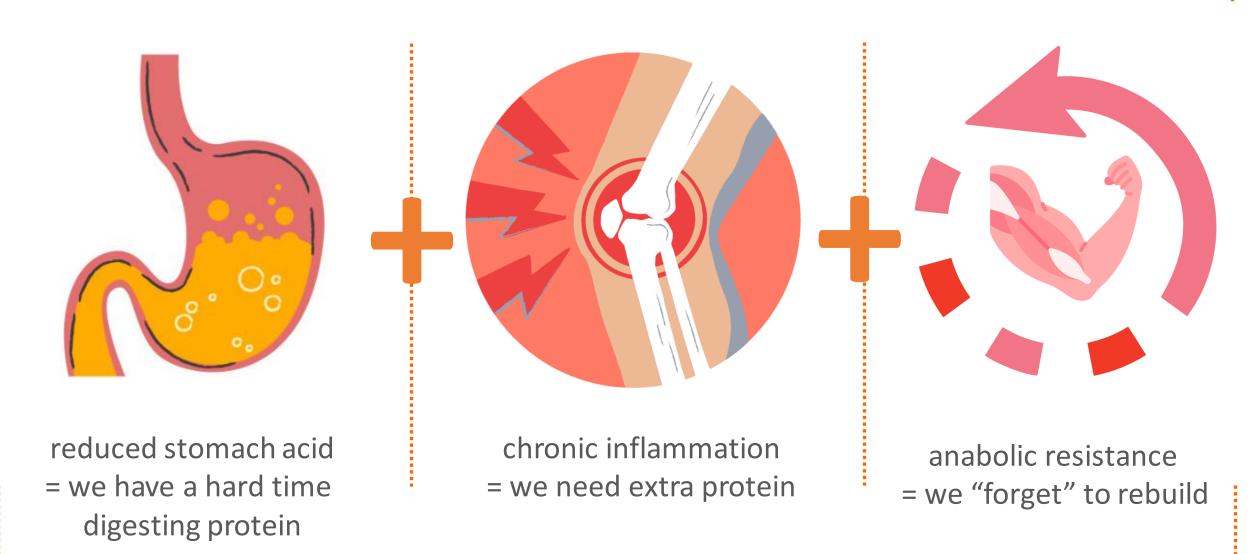
sarcopenia

loss of muscle mass & strength





our protein needs increase as we get older





(including 3 g Leucine)

at every meal, 3x day total > 90 g daily

BREAKFAST LUNCH DINNER



AMONG POST-MENOPAUSAL WOMEN

higher protein intake better physical function & slower rates of functional decline lower BMI, higher upper & lower extremity strength

HIGH PROTEIN BREAKFASTS (vs high protein dinners) improve muscle volume & grip strength



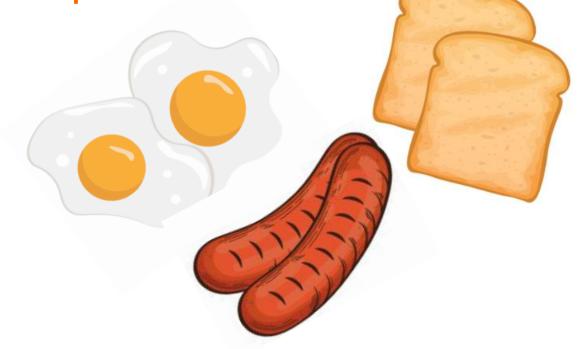
breakfast of champions?





Cheerios = 12 g protein, 3 fiber All-Bran = 15 g protein, 16 g fiber = 1.7 g BCAAs

too little protein, possibly low fiber HIGH SUGAR (25 g)



= 26 g protein, 4 g fiber =3.5 g BCAAs

good protein, low fiber HIGH FAT (27 g)

LOW-FAT COTTAGE CHEESE WITH CEREAL, NUTS, SEEDS & FRUIT

cottage cheese = double the protein of milk with low sugar



= 19 g





5 g protein*

= 24 g





= 30 g protein(3 g BCAAs)9 g fiber

swap in cottage cheese

1/2 cup 14 g protein*



SWAPS TO CONSIDER



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sausage links 5 g protein, 17 g fat .8 g BCAAS



ground turkey 16 g protein, 6 g fat 2.7 g BCAAS



tempeh 11 g protein, 3 g fat 5 g fiber



baked beans 8 g protein, 1 g fa 9 g fiber



eggs 13 g protein, 9 g fat ~2.6 g BCAAs



tofu 15 g protein, 7.5 g fat ~2.6 g BCAAs

bean soup for breakfast!









bone broth - 1.5 cups wild rice - 1/2 cup lentils - 1/2 cup 23 g protein, 0 g fiber 9 g protein, 8 g fiber 4 g protein, 3 g fiber 3 g protein, 4 g fiber 4 g protein, 0 g fiber

swiss chard - 1 cup yogurt - 1/4 cup

43 g protein, 15 g fiber

HUEVOS RANCHEROS





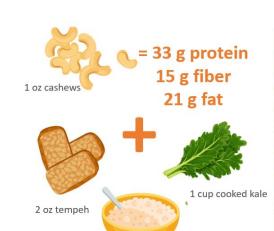
½ cup black beans 8 g protein

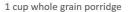


4 g BCAAs 14 g fiber



1 ounce cheese 7 g protein + 1.3 g BCAAs







½ cup berries

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2 slices whole grain toast

½ cup cucumber

if you supplement....



choose whey protein OR a pea & rice blend (vegan) look for leucine (3 g) or BCAAs (4-5 g)

swish it around your mouth, then swallow watch out for too much sugar limit added ingredients like gums, flavorings, thickeners (collagen peptides aren't the same thing) no more than one serving/day

other sarcopenic risk factors:

hormonal changes inadequate nutrition age limited physical activity



essential bone, immune, hormonal & cardiovascular health

limited access from sun or diet



talk to your doctor: D3 (+ K2) supplementation

get your levels tested: don't guess your supplement dose



FAMILIAR™

vitamin B6



vital for a healthy cardiovascular & nervous system counters inflammation

deficiencies will impact our brain & mobility

AT 50+, YOUR BODY NEEDS MORE!

don't supplement without talking to your doctor



best sources: animal protein, starchy vegetables, beans & whole grains

FAMILIAR™

vitamin B12



vital for liver detoxification,
DNA repair, red blood cell production, nerve function

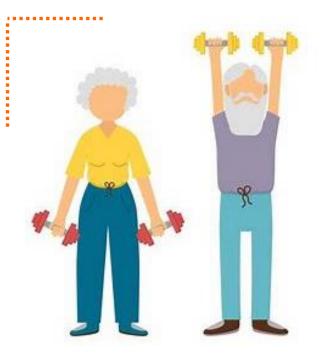
very common deficiency: Absorption changes with age, side effect of medication

ask your doctor to check your levels; consider a sublingual supplement or shot

best food sources:
exclusive to animal protein
(though may not be readily absorbable
as we get older)



FAMILIAR



MOVEMENT IS A GAME-CHANGER

SIGNIFICANT & MEANINGFUL muscle gains with high-protein + strength training combo

DO SOMETHING DAILY

strength training 2-4x weekly (total body)
housework, sitting/standing exercises, stairs, lifting groceries
flexibility & balance practice – tai chi, qigong
avoid sitting more than 7 hrs./day (doesn't have to be consecutive!)





LET'S GET FAMILIAR

bring back food as community

bring forward food as culture



UP NEXT: MEASUREMENT

new diagnostic guidelines, such as TUG, gait and grip strength + quality of life

seeking community partners

UPCOMING PROGRAM EXTENSIONS

Family Caregiver Program (virtual) - debuting July 2023 with Oregon Care Partners - adaptable for community health care workers & in-home caregivers

Independent Living/Assisted Living Model (in-person) - est. Fall 2023 -90-minute nutrition & workout combo program with on-site fitness trainer

Expanded 12-Week Program – (virtual or in-person) est. Fall 2023 - 90-minute, 12-week with enhanced exercise modules & action planning

APPENDIX - A PUBLIC HEALTH PILOT

PROGRAM OBJECTIVES



- •increase consumption of unprocessed foods, especially leafy vegetables, fruits, legumes, whole grains, nuts, lean protein, while reducing consumption of added sugars, saturated fats and sodium
- •improve nutritional literacy, including understanding food labels, portion size
- •promote revised RDIs for older adults, and bring awareness to nutrients of concern, like B12, B6, Vitamin D
- •enhance menu planning skills, with emphasis on high-protein, high-fiber, nutrient-dense choices
- •encourage healthy lifestyle behaviors, especially exercise, sleep, mindfulness, sunshine
- •promote community health improvements and social inclusion through interactive, small-group, person-centric model
- •provide an accessible (virtual) learning environment which promotes health and capacity-enhancing behaviors through weekly goal setting & action planning

FAMILIAR aligns with principles established by the Action Plan for an Age-Friendly Portland (2013), most especially: helping to improve older adult wellness and preventative health care, and to encourage social participation and life-long learning opportunities. FAMILIAR recognizes the diversity of our older adult population, respects personal decision-making and honors participants' individual contributions.

APPENDIX - CURRENT SIX WEEK SYLLABUS

the mind-body connection: improving digestion & diversifying the microbiome





protect your brain & heart: finding blood sugar balance

what heals (& what harms): quieting chronic inflammation

elimination organs: supporting gallbladder, liver & kidneys

getting physical: lifestyle techniques to improve sleep & stress

APPENDIX – TAKE HOME RESOURCES

Participants receive a 60-page printable workbook with lecture notes, nutritional charts, menu ideas, self-assessments and goal-setting suggestions. Dozens of recipes, videos and other external resources expand each weekly chapter into practical, at-home terms.

STEP 2: GO FIBER-FORWARD

Fiber is a well-known digestive health aid, and a fundamental food source for our gut bacteria. Fiber-rich foods provide the fertile, prebiotic landscape for our bacteria's survival — yet these can be elusive in our diets, as fiber is found exclusively in plant foods. Eating beans, ideally 2 - servings a day, will make a measurable dent in your daily requirements. Layering in a variety of fruits and vegetables, whole grains and nuts will close the gap. Consider how and where you might include more fiber-rich plant foods in your day — with some gradual changes and a little attention, you can readily meet your daily fiber goal (and will start feeding positive charges in your body).

> Women 21 grams Men 30 grams *Institute of Medicine

Recommended (Minimum) Fiber Intake at 50+ Years of Age*

TAKE ACTION:

This week, think about adding 5-10 extra grams into your day. Review the enclosed chart for ideas. You'll want to be moderate here, increasing your consumption over several weeks; this minimizes your physical discomfort as your body acclimates to its higher fiber intake. And please remember to drink plenty of water – it's a necessary component of fiber digestion and will help to prevent constipation.





vital nutrients from the impact of heat. This is an unnecessary step if you're





BEING BONE-FRIENDLY

Calcium is the most prevalent minoral in our bodies; we store nearly all in our bones and teeth, while the remainder circulates through our blood, vitally aiding muscle contraction, nerve signaling, hormone secretion, blood pressure regulation and blood clotting. Our bodies will release calcium from our bones when our calcium blood (seels get too low - putting our bone health (and our overall health!) at risk when we don't consume enough in our clief. Calcium's supplementation may contribute to cardiovascular plaque to-mation, so is not recommended.

Calcium can be found in deiry products, like plain yogunt and cheese (harder cheeses especially) — but try not to rely on deiry to meet your calcium needs. Introduce more corked cruciferous* regetables to your diet - this family of vegetables delivers the most highly absorbable form of calcium to the body. Cooked bok chos, broccoli, kale and collard greens are important foods to keep in regular rotation. Other motiviority calcium sources to include; white beans, almonds, tahini, flax seed, this seed, sardines (with bones)





APPENDIX - TESTIMONIALS

This class was the most valuable and informative class I have taken in years. I strongly recommend it to any person interested in improving their health. – Chris

I highly recommend this class. Very clearly presented, highly approachable, and a great way to kick-start good eating habits – Helen

As a retired RN and someone interested in health for most of my life, I found this class to have much to offer, and would highly recommend it. The positivity, the accessibility and the great presentation visuals

--- teaching adults, especially us older ones, is an art. Recipes are fantastic. - Phyllis

I feel a dramatic difference in my well-being --- and a comfort I haven't felt for awhile. - Margaret

Thank you for this marvelous class on food health! I have learned so much and plan to incorporate many of these ideas into my daily diet. I so appreciate this gift! - Sue

I am grateful to be able to participate and love the sense of community. – Janet

This is a valuable resource, and every class is so motivating. I've set some new health goals and keep the handouts on my fridge for daily reference. - Diana



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Thank you!

Erin Fredericks, MScN erin@thrivewithfamiliarfoods.com



Part of the CareOregon Family









