## breakfast brings benefits

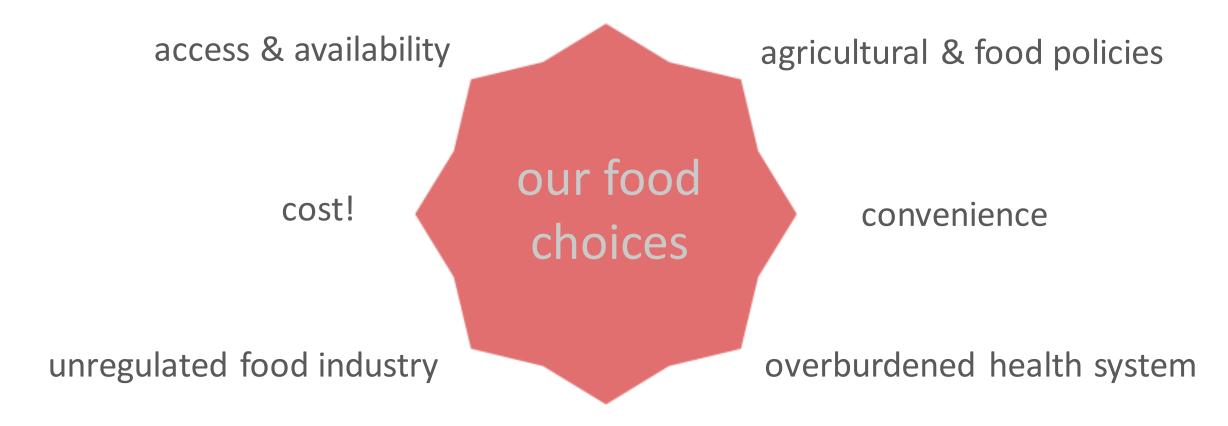
and other strategies for community health

Erin Fredericks, MSN FAMILIAR Foods



# our modern lifestyle is incompatible with health

## outdated nutritional guidance

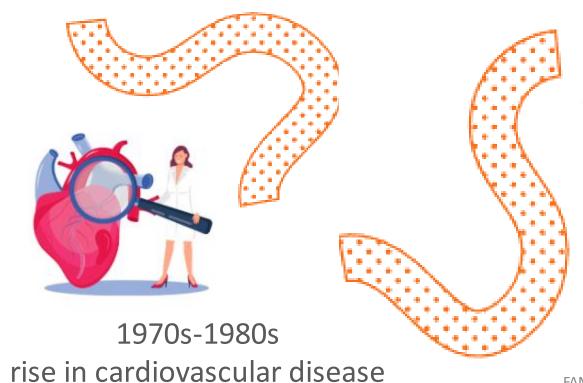


our lack of knowledge





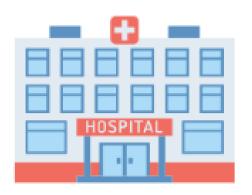
1950s shift to feed lots, food processing



1990s
vegetable oil, fat-free &
refined carbohydrates

2010s-present CVD &, inflammation, chronic disease incidence

## **SKYROCKETS**



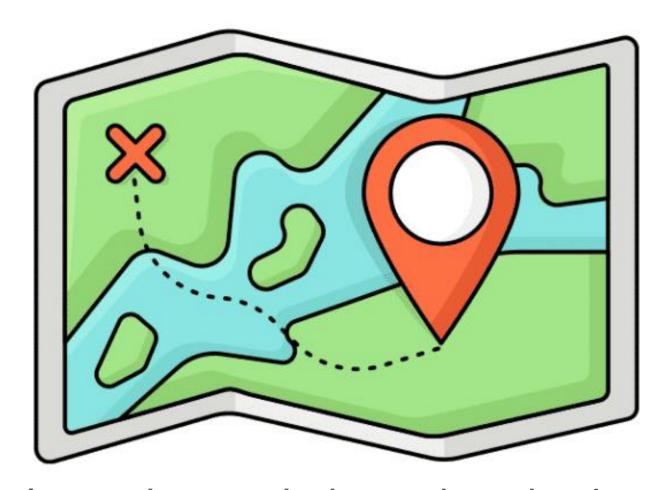
FAMILIAR™



disrupts our metabolism

destroys our microbiome

drives an inflammatory state



let's teach people how their bodies work
--- and offer easy, evidence-based ideas
for improving their own health

# let's get FAMILIAR

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 invites participants to discover how their bodies work --- and to take a more informed and positive role in their health and aging experience.

come learn the hows and whys to:

IMPROVE YOUR DIGESTION
STRENGTHEN YOUR MUSCLES & BONES
PROTECT YOUR BRAIN & HEART
CALM INFLAMMATION,
SUPPORT YOUR DETOX ORGANS
MOVE MORE, SLEEP BETTER

small-group format active learning environment take-home worksheets recipes & resources





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.

aging in place family caregivers

\*Food As Medicine for Independence & Longevity In Aging & Retirement











.......

















#### Nutrition Foot

Nutrition Fa	icts
Amount Per Serving Calorina 250 Calorina 9	on fai 1
% De	ily Value
Total Fut 4%	45
Seturated Fat 1.5%	49
Trans Fat	
Chalesterol 50mg	285
Sedium 150mg	15%
Total Carbohydrate 103	35
Dietary Fiber 5g	
Summer Str.	

## Vitamin A 15 • Vitamin C 3% Calcium 2% • Iron 2%

"Percent Daily Values are based on a 2,000 caloris diel Your daily values may be higher or lower depending on your salorie needs.





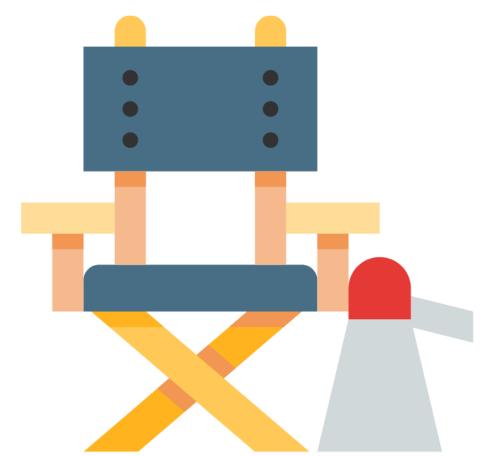




\*......



metabolic dysfunction



# metabolic control

improves brain, heart & immune health

reduces risk for:
diabetes & obesity
auto-immune, cancer, depression
Alzheimer's, Parkinson's
and other nervous system dysfunction

\*diseases of older age appearing earlier in life\*

# sarcopenia



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

\*estimated 20% of the general population\*

increases:
length of stay
hospital costs by 34% (OA) and 59% (MA)

onset at 40 ---- accelerates at 60



# sleep

changes our eating behavior

alters metabolic rate

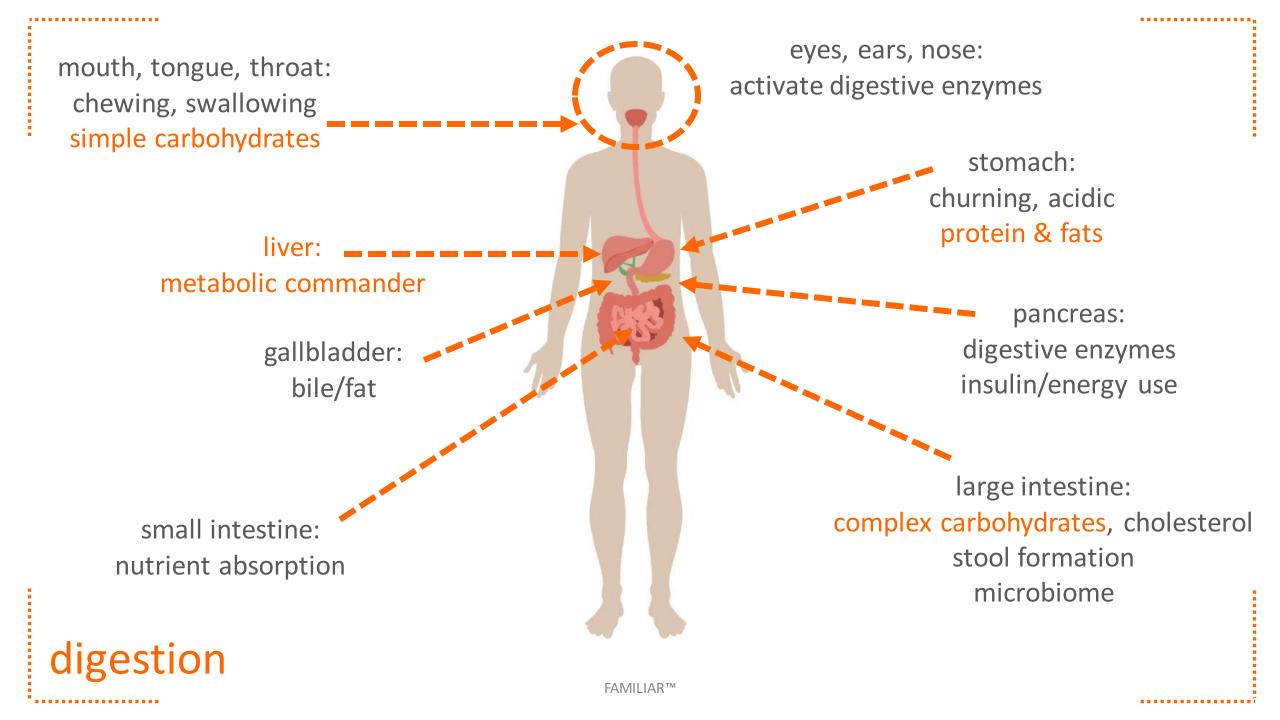
influences food choice

affects our risk of obesity (and neurological disease!!!)

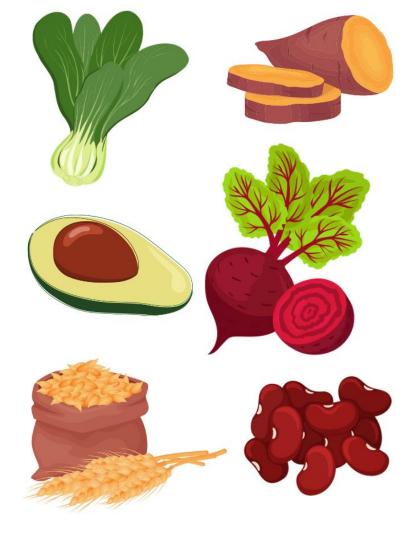


WHY WE
GO BIG WITH BREAKFAST







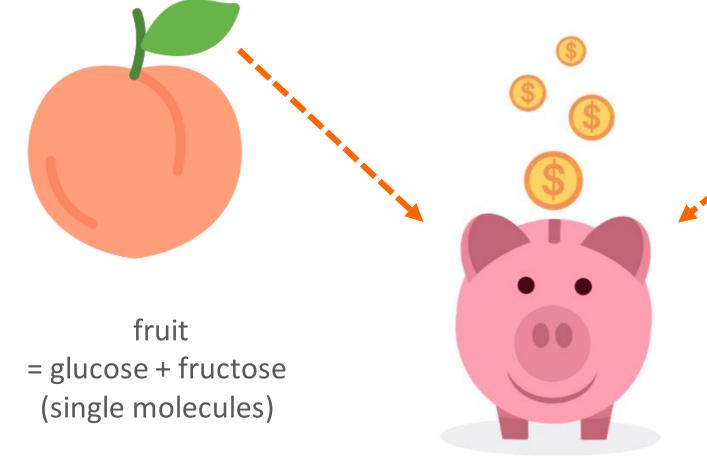




simple carbs

complex carbs

**REFINED** carbs



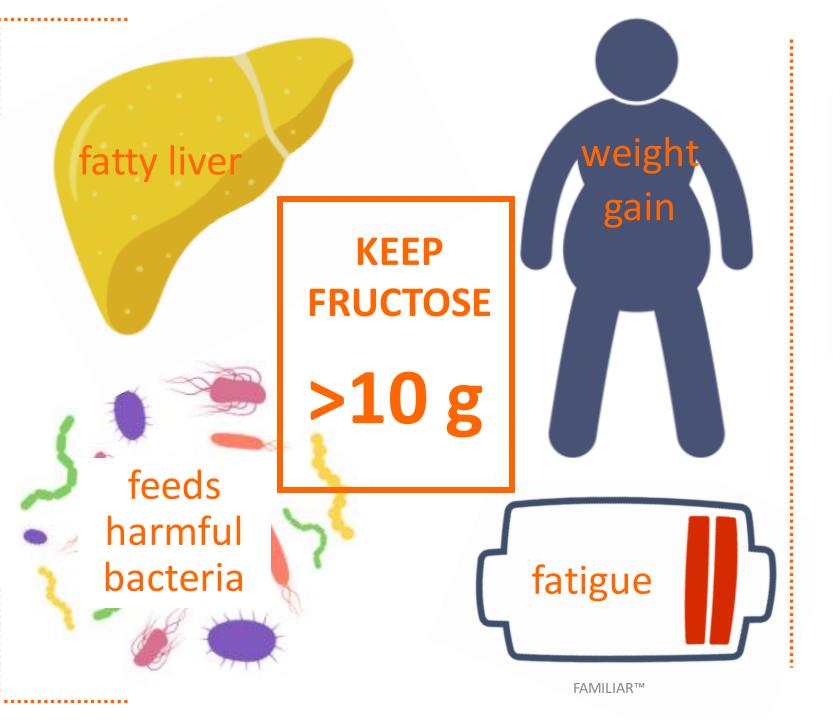
Sugar

sucrose = glucose + fructose (two molecules joined)

fructose

+ fiber
+ vitamins/minerals
+ phytonutrients

+ water

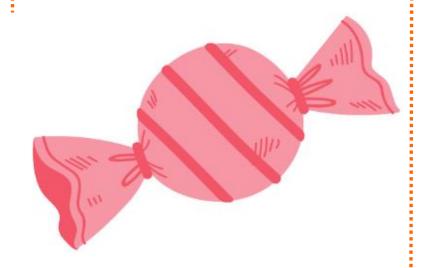




100% orange
juice, with pulp
8 oz bottle
= 23 g of sugar



high-fructose corn syrup 20 oz bottle = 55 g of sugar



2 sugar molecules\*

**immediate** 



2 sugar molecules\* + fiber

slower



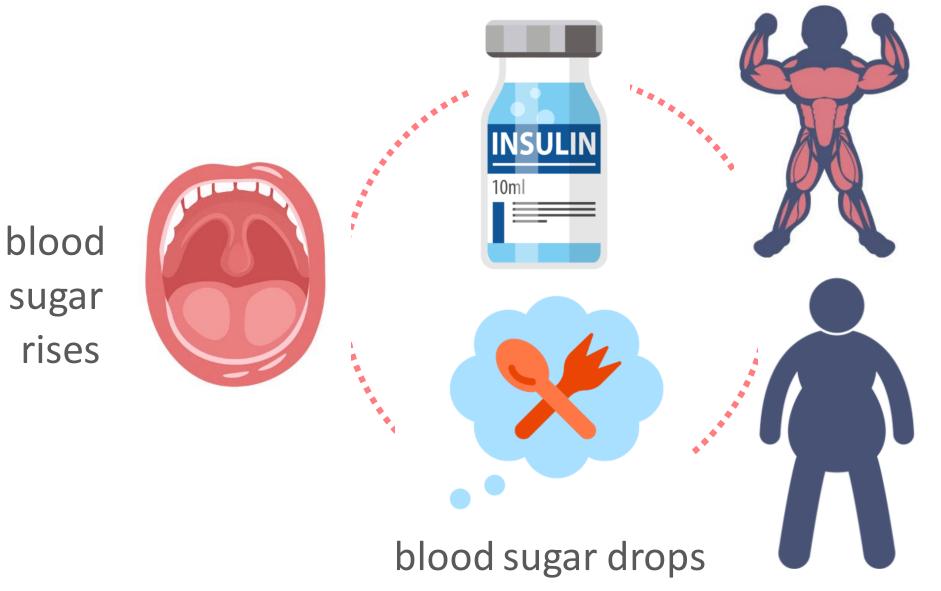
2 sugar molecules\* + fiber + protein + fat

slowest

carbohydrate absorption

\* glucose + fructose

### insulin released



glucose+ proteindelivered tomuscles...or to fatstorage









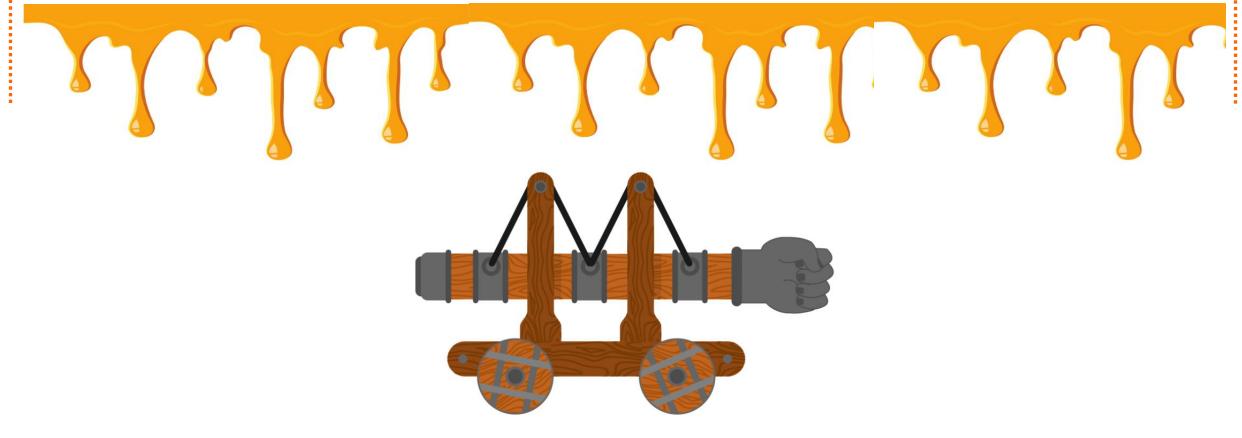
refined carbohydrates with little protein or fiber











what's insulin resistance?



.......

## in practice: blood sugar basics



low-fat, vegetarian diets improve diabetes & CVD

meal order matters – veggies first! protein.... and then starchier sides









cook your grains & tubers, let cool, THEN eat.

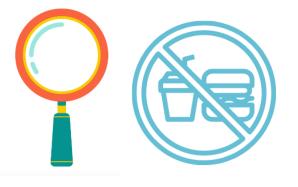


sipping vinegar before a meal?





breakfast is essential! move after eating



< 25 g sugar/daily

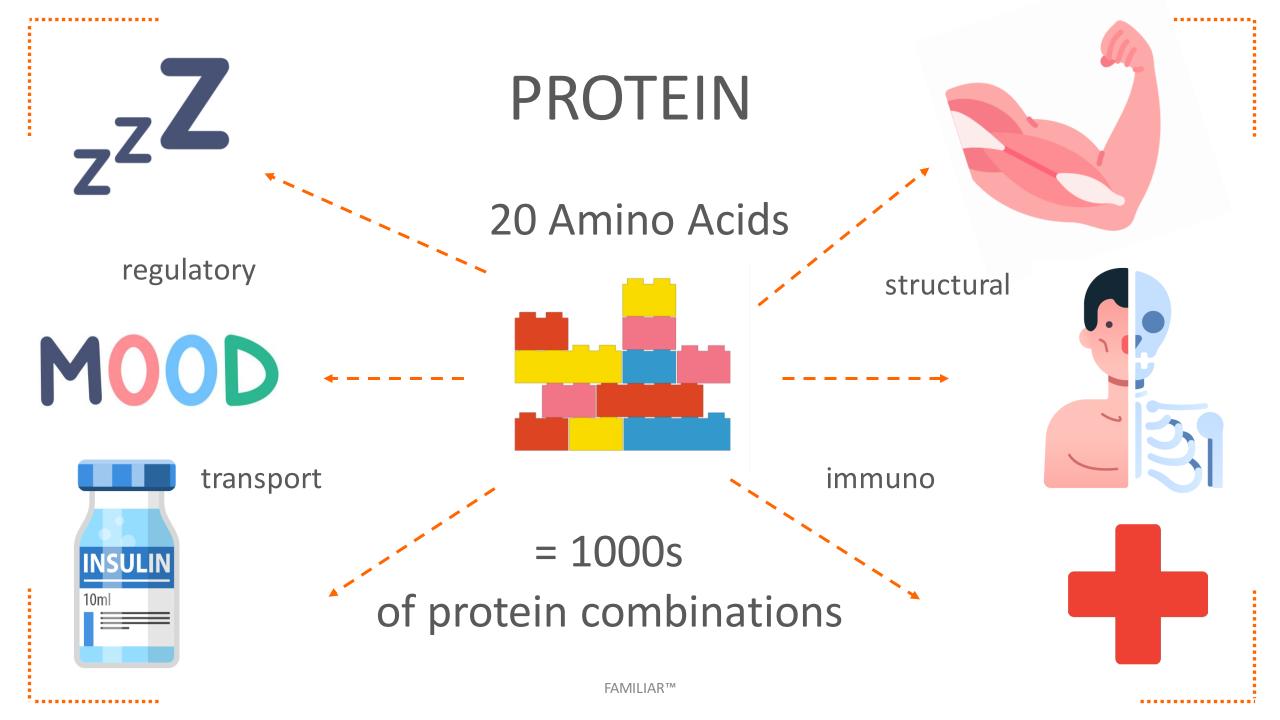
< 1 sweetened drink/week



bitter, tannic foods support blood-sugar regulating bacteria



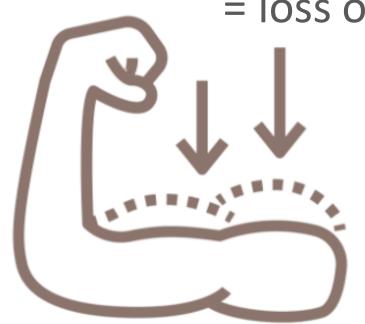




## sarcopenia

loss of muscle mass & strength

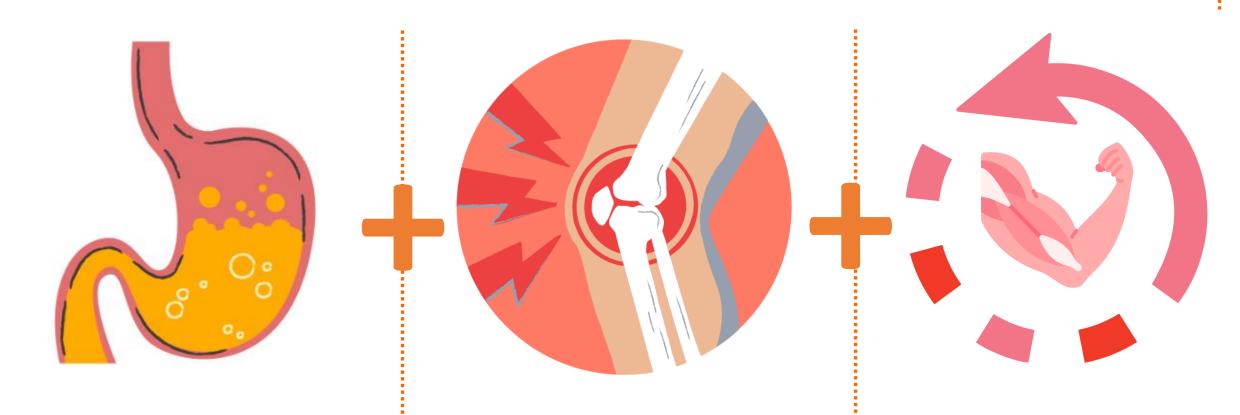
= loss of independence & quality of life



IT'S REVERSIBLE!



## we've underestimated our protein needs



reduced stomach acid= we have a hard timedigesting protein

chronic inflammation = we need extra protein anabolic resistance
 = we "forget"
 to rebuild

# 30 g protein

........



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

## BREAKFAST LUNCH DINNER



.......

## eating breakfast.....

improves blood sugar control, reduces evening snacking

changes our cholesterol particle size, improves our CV profile

## and among post-menopausal women?

higher protein intake =
improved muscle function (and slowed rate of decline)
greater upper & lower extremity strength
lowered BMI, improved osteopenia & osteoporosis

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

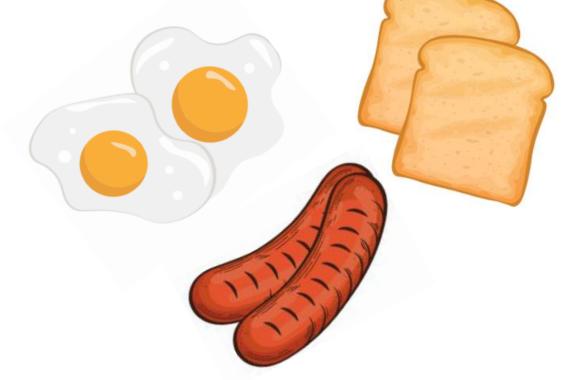
## breakfast of champions?





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

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

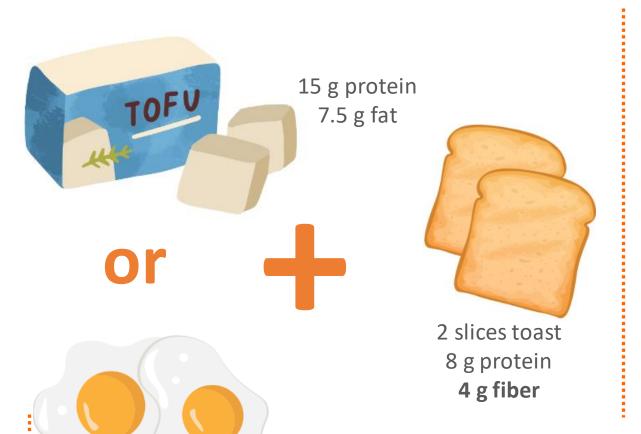


= 26 g protein, 4 g fiber

good protein, low fiber HIGH FAT (27 g)

## classic scramble with toast & savory sides

high protein, lower fat



...................

13 g protein, 9 g fat





homemade turkey sausage 16 g protein, 6 g fat 2.7 g BCAAs



tempeh 11 g protein, 3 g fat **5 g fiber** 



beans 8 g protein, 1 g fat 9 g fiber



FAMILIAR™





vegan whole grains

high protein, high fiber



= 29 g protein (hemp & pumpkin) 16 g fiber

35 g fat







1/4 cup hummus 1/2 cup cucumber

2 T peanut butter 1/2 cup berries

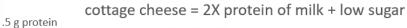
2 slices whole grain toast

FAMILIAR™

FAMILIAR™

#### low-fat cottage cheese with cereal, nuts, seeds & fruit

FAMILIAR\*\*





= 19 g



6 g protein\*



milk and cereal 12 g protein



5 g protein\*

= 24 g

7 g protein

milk



14 g protein\*

= 30 g\* 3 g BCAAs

9 g fiber

FAMILIAR™

#### bean soup for breakfast?



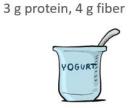
lentils - .5 cup 9 g protein, 8 g fiber

wild rice - .33 cup

2.5 g protein, 2 g fiber



bone broth - 1.5 cups



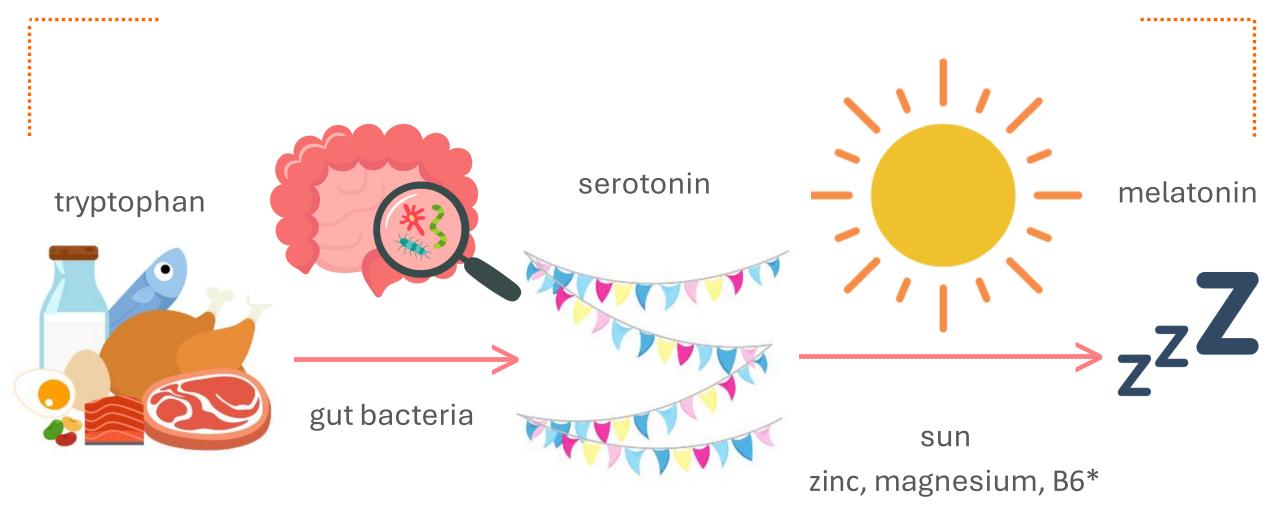
collard greens - 1 cup

42 g protein, 14 g fiber

23 g protein, 0 g fiber

yogurt - .25 cup 4 g protein, 0 g fiber

FAMILIAR\*\*



making melatonin



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get outside to reset the clock. even when it's cloudy.

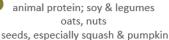
high-protein breakfast with: colorful & fiber-rich plant carbohydrates dark leafy greens, nuts, seeds lower fat preferred

stay hydrated. move your body.



FAMILIAR\*\*

#### **TRYPTOPHAN**





beef, shellfish, pumpkin seeds, lentils

salmon, chicken, tofu, pork, beef sweet potatoes, winter squash, potatoes bananas, avocados

#### MAGNESIUM

dark leafy greens, especially spinach seeds, especially squash & pumpkin legumes, especially lima, chickpea & kidney tuna, mackerel almonds, cashews, brazil nuts dark chocolate, bananas

quinoa and brown rice



stewe

tofu scrar.

yogurt with almonds, pepitas, banana, pistachios & oat granola

savory oatmeal with roasted squash, greens, seasoned lentils, avocado

> overnight oats with nuts & seeds, and cottage cheese

bean soup with bone broth, greens & grains

veggie hash with grilled chicken and harissa cashew dressing



mackerel with veggie-rich potato salad



#### in practice: a sleep supportive model

melatonin patterns,

address your stress

FAMILIAR™

morning sunlight aligns the circadian clock & boosts melatonin production



listen to your body.



adjust your bedtime, 8pm might be a new normal



resistance exercise extends & improves sleep



protein breakfast

make

melatonin

with a high



sugar, sodium & light disrupt sleep patterns. turn off the tv!





self-care routines and other nightly rituals, physical touch is relaxing.

FAMILIAR\*\*

### sodium



even small sodium reductions make significant differences in our heart attack & stroke risk







VS.

omega-6

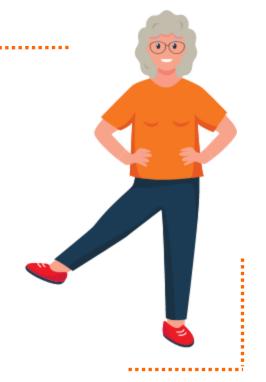


#### **MOVEMENT IS A GAME-CHANGER**

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!)







bringing back food as community

bringing forward food as culture



...................



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### **UP NEXT: MEASUREMENT**

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

seeking community partners

#### APPENDIX - CURRENT SIX WEEK SYLLABUS

gut feelings: improving digestion & expanding your microbiome

strengthen your body: (re)building muscle & bone

blood sugar basics: essentials for your brain & heart



calm inflammation: what harms & what heals

waste management: detoxifying the body

put it all together: move more, sleep better

### APPENDIX – TAKE HOME RESOURCES

Participants receive a 80+-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

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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

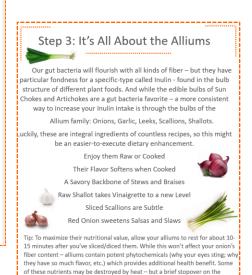
Recommended (Minimum) Fiber Intake at 50+ Years of Age\*

#### 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 occlimates 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.

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cutting board leaves time for a protective enzyme to go to work, saving some

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



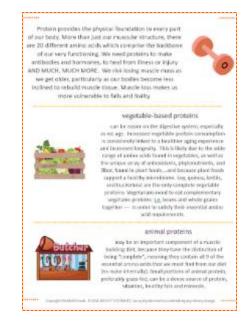


#### BEING BONE-FRIENDLY

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 collerd 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)





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#### APPENDIX – 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 - 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

In all the classes I've taken since the pandemic, started, this is by far the BEST! As a retired teacher, I am aware of all the educational nuances that make up a great class. This hits the mark on all of them. - Emma

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 Partners!**











Advantage Dental From DentaQuest

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Building healthier communities together

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