

*September 2023*

# PROTEIN

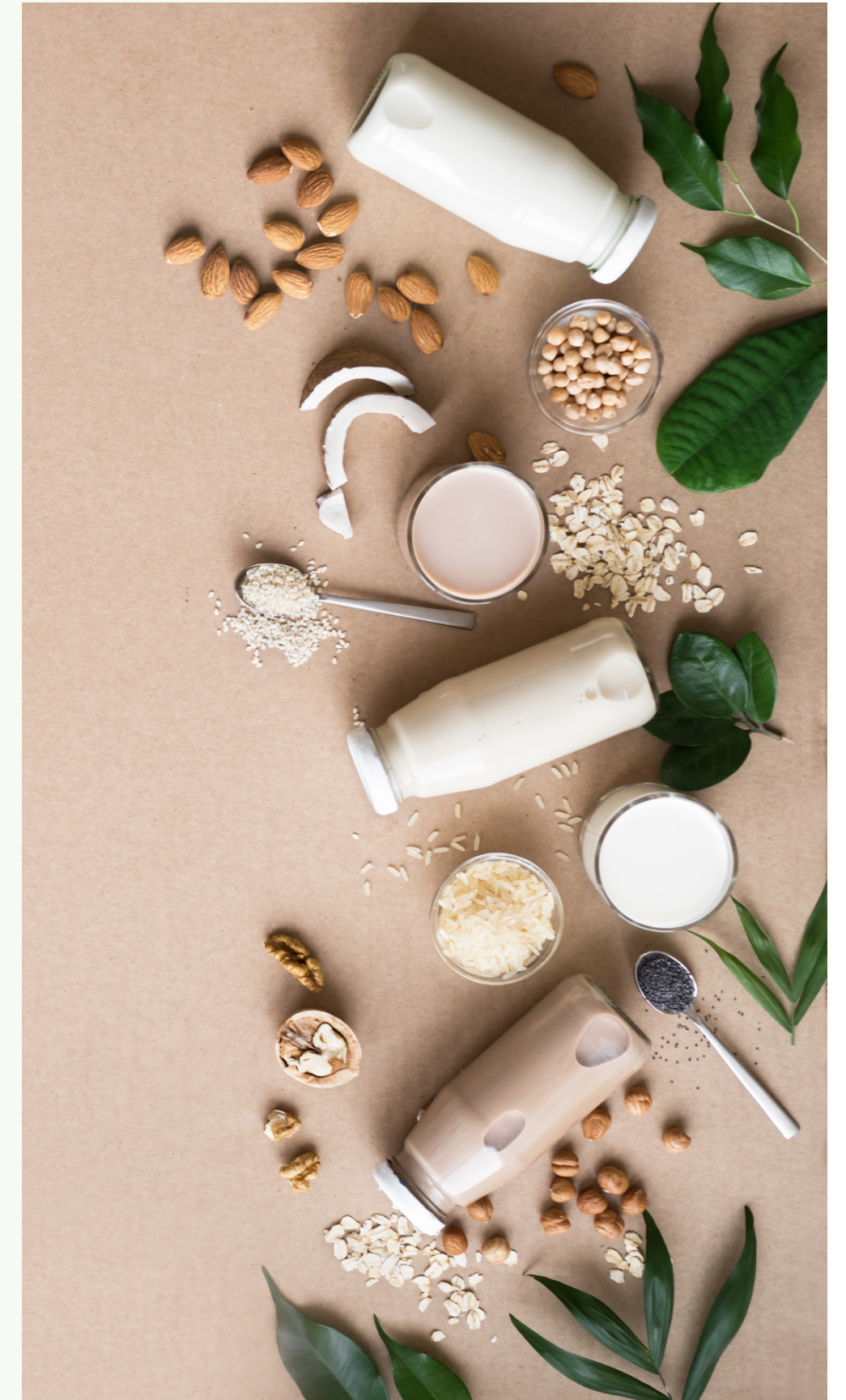
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# Today's Objectives

- (1) To review protein's role in our health.
- (2) To provide individuals with an understanding of why excessive protein intake could potentially be harmful to our health.
- (3) To help identify our estimated individual protein needs.
- (4) To provide tips for meal planning to meet protein (and other nutrients) needs.





# Protein

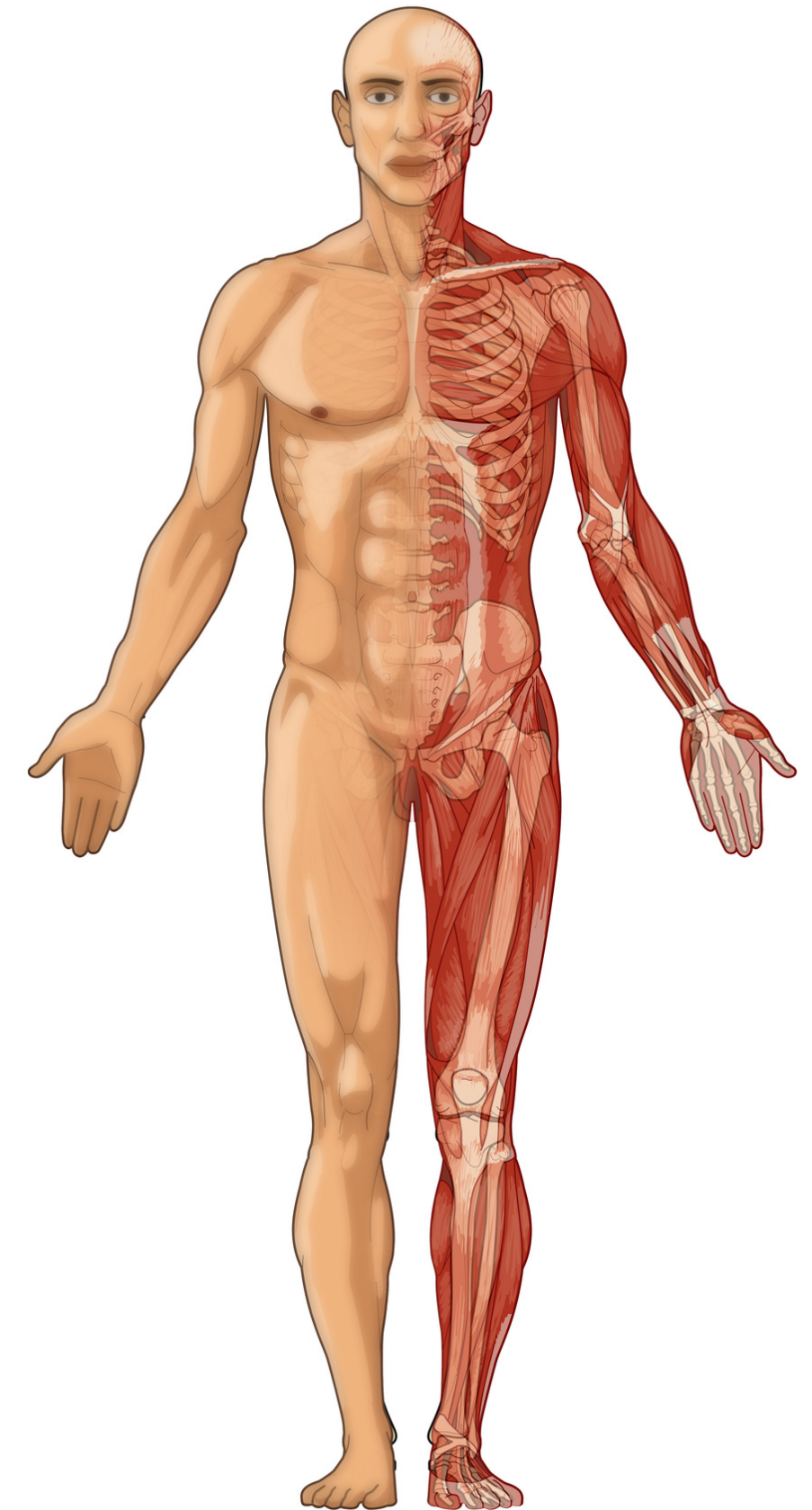
Required for building, maintenance and repair of tissues within our body.





# Protein & Human Health

- Component of muscle and bone
  - Essential for the body's structure & movement
- But also...
  - Protect health (i.e. antibodies)
  - Aid in reactions (i.e. enzymes)
  - Coordinate activities (i.e. hormones)
  - Work as carriers (i.e. oxygen)
  - Cell maintenance & replacement
  - Building new cells (especially infancy, childhood, pregnancy)





***Protein, Protein, Protein.***



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*It's necessary, but...*



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*It's necessary, but...*

We consume 70% more protein than needed, every day.



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We consume 70% more protein than needed, every day.

Only 3% of Americans don't get enough protein.  
Only 3% of Americans meet fiber recommendations.

# Bone Health & High Protein

High protein diets (particularly high in animal products) increases calcium losses through the urine.

Include calcium-rich plant-foods such as: dark leafy greens, vegetables, beans, nuts and seeds.





# Cancer & Protein

Recent studies suggest that lower protein diets may reduce the risk of cancer development.

Per a 2014 study, adults between 50 and 65 years old, who followed a diet high in protein were four times as likely to die from cancer compared to those consuming lower amounts of protein.

These subjects also had a 75 percent greater mortality risk overall.

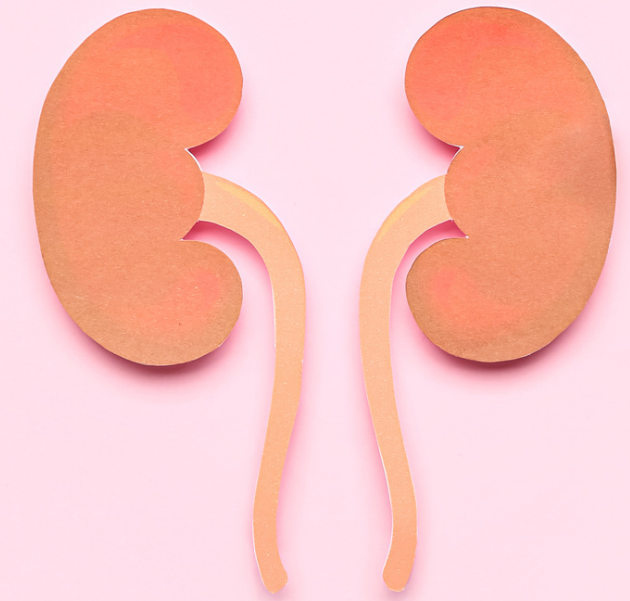




# High Protein & Kidneys

When protein is consumed, nitrogen is released into the bloodstream or is digested and metabolized. Nitrogen must be detoxified by the kidneys.

**Long-term, high protein consumption increases an individual's risk for reduced kidney function.**





# Saturated Fat & MS

Higher intake of saturated fat (such as found within meat, milk, butter, and eggs) is associated with a higher prevalence of MS.

Perhaps related to cholesterol concentrations and conversion of fatty acids to EPA & DHA.





# Protein Recommendations

per kg of body weight

- Healthy Adult - 0.8 g
- Older, Healthy Adult - 1.0 - 1.2 g
- Pregnancy
  - 1st Trimester - 0.8 g
  - 2nd & 3rd Trimester - 1.1 g
- Cancer & Chronic Disease - 1.0 - 1.5 g
- Menopause - 1.2 g/kg





# Calculating Protein Needs: An Estimation

Weight in pounds / 2.2 = Weight in kg

Weight in kg x Protein Estimation =  
Grams of Protein/Day

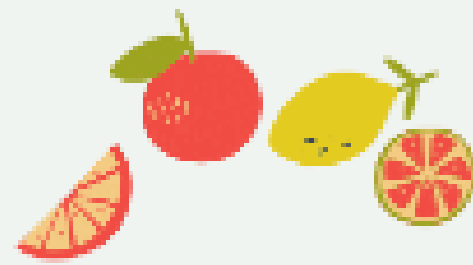
140 lb / 2.2 = 63.6 g protein per day

Healthy Adult - 0.8 g

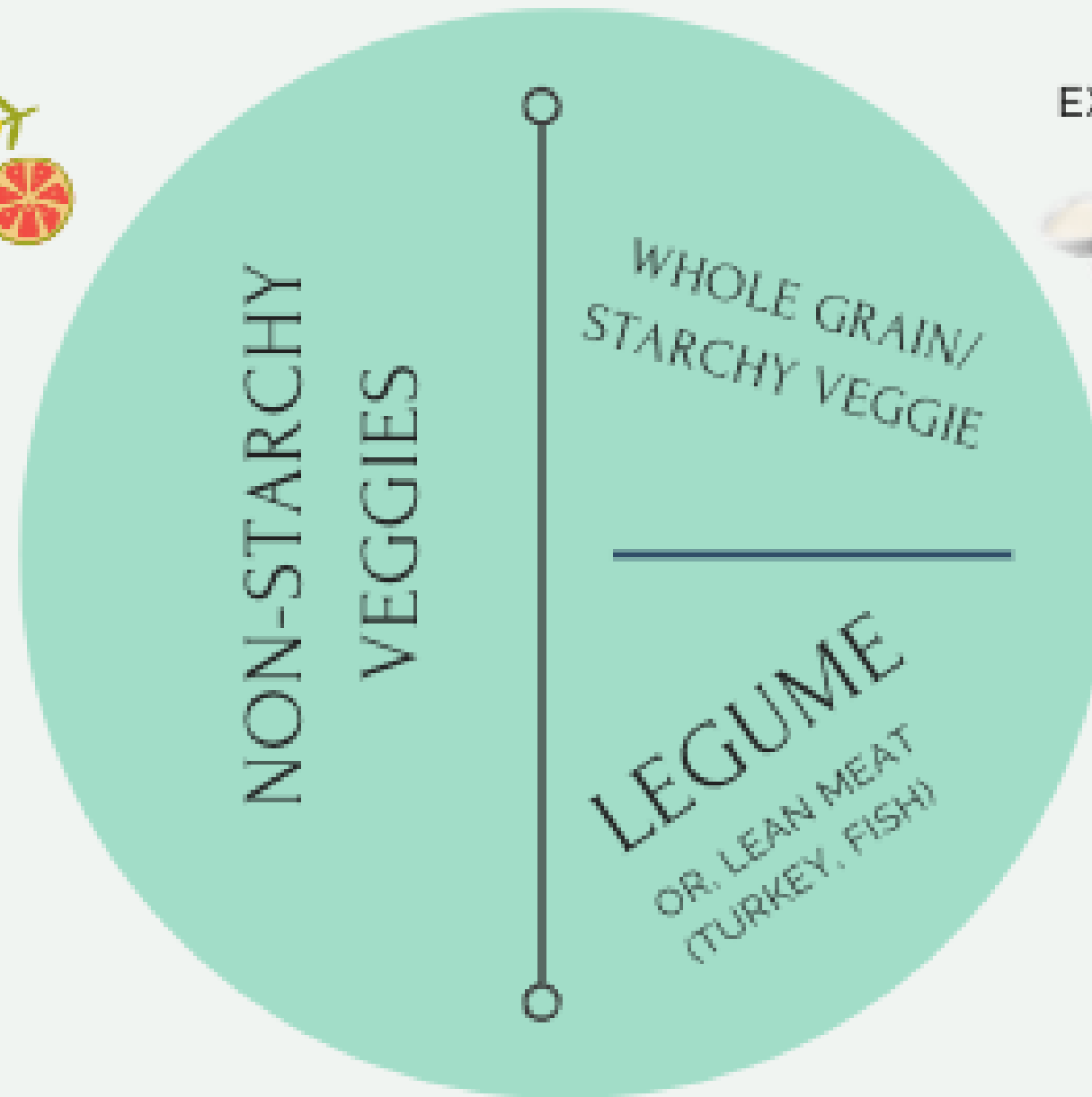
Older, Healthy Adult - 1.0 - 1.2 g

Cancer & Chronic Disease - 1.0 - 1.5 g

Menopause - 1.2 g/kg



**FRUIT**



**EXTRAS - FATS**



**NON-STARACHY VEGGIES**

- Dark, leafy greens
- Broccoli
- Cauliflower
- Brussel sprouts
- Cabbage
- Carrots
- Green beans
- Summer squash

**LEGUMES**

- Black Beans
- Tofu
- Tempeh
- Edamame
- Kidney Beans
- Lentils
- Navy Beans
- Chickpeas

**WHOLE GRAIN/  
STARACHY VEGGIE**

- Brown Rice
- Quinoa
- Barley
- Farro
- Sweet Potato
- Any Potato
- Butternut Squash
- Acorn Squash

# Sample Day - 98 g

180 lb woman in menopause

## **Breakfast: PB Oats with Berries**

½ cup (dry) rolled oats - 5 grams protein  
1 cup unsweetened soy milk - 7 grams protein  
1 tablespoon ground flaxseed - 1.5 grams protein  
1 tablespoon chia seeds - 2 grams protein  
1 tablespoon peanut butter - 8 grams protein  
½ cup fresh berries - 0.5 grams protein

(24 grams protein)

## **Snack:**

½ cup roasted, crispy chickpeas - 7 grams protein





# Sample Day - 98 g

## 180 lb woman in menopause



### ***Lunch: Salad with Vegan Ranch & Black Beans + Toast***

1 cup spinach - 1 gram protein

1 cup romaine lettuce - 0.5 grams protein

½ cup black beans - 7.5 grams protein

½ cup cooked quinoa - 4 grams protein

¼ avocado - 1 gram protein

½ cup mixed non-starchy vegetables - 2 grams protein

1 tablespoon hemp hearts/seeds - 3 grams protein

1 tablespoon nutritional yeast - 4 grams protein

1 serving Nora Cook's Vegan Ranch Dressing (Cashew Based) - 5 grams protein

1 slice, Angelic Bakehouse sprouted bread - 5 grams protein

1 small apple - 0.5 grams protein

(33.5 grams protein)

# Sample Day - 98 g

180 lb woman in menopause

## **Snack:**

1 ounce almonds - 6 grams protein

1 tablespoon Hu dark chocolate baking gems - 1 gram protein

## **Dinner: Grain Bowl with Mixed Roasted Veggies**

1 cup cooked brown rice - 5 grams protein

1 cup roasted broccoli & cauliflower - 2 grams protein

½ cup tofu, firm - 12.6 grams protein

1 servings Nora Cooks Vegan Queso Blanco - 4 grams protein

1 serving Vegan Parm - 2 grams protein

1 peach - 1 gram protein

(26.6 grams protein)







# Today's Key Takeaways



## THINGS TO WORK ON

- We *need* protein, but not as much as you might think.
- Estimating your individual needs may be helpful.
- Aim to make most of your protein be sources from plants (vs. animal). If animal source, aim for low in cholesterol and saturated fat.







*Thank You*

Q&A OPPORTUNITY

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