



 MA in Dance / Movement Therapy, NYU

 Certified Personal Trainer, National Academy of Sports Medicine (NASM)

 Certified Brain Health Trainer, Functional Aging Institute

 Corrective Exercise Specialist (NASM)

 and

 training...

 Sleep, Stress, and Recovery Coach (in process)

 Precision Nutrition, Level 1

 High School Science Teacher (Physics and Chemistry)

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Before we begin...

- 1. Scientific consensus about nutrition is constantly shifting and evolving.
- 2. Our bodies respond quite differently to different foods.
- 3. Food habits are deeply ingrained.
- 4. The most important thing is to have a healthy relationship to food.
- 5. Nutrition is just part of the picture. Exercise, sleep, emotional health, all interact with and affect all these systems.



The avg. human body is composed of about 37 trillion cells. About a billion biochemical reactions occur in our cells every

About 330 billion cells are replaced daily, equivalent to about 1 percent of all our cells. In 80 to 100 days, 30 trillion will have replenished — the equivalent of a new you.

A pro-inflammatory meal can cause C-reactive protein levels to rise significantly within 24-48 hours.

We can change our biology by changing what we eat, with beneficial effects showing up in days and weeks, not months and years.

second.

My food beliefs		
What I believe	Why I believe it	Actually
We need more protein as we age.	Peter Attia, Kelly Starrett, idea that we don't process protein as well as we age	Science doesn't bear this out; multiple negative effects of too much protein
Saturated fats are "good" fats (i.e., butter).	Blowback on margarine; fats are high-energy;	Saturated fats are likely my highest source of dietary cholesterol.
White meat (chicken) is better than red meat.	Years of hearing this.	In some ways it is, but in others it's not.
Eggs are good for me (source of protein and choline).	Nutrition workshop at Kripalu in 2018.	Eggs are high in cholesterol, and choline has been linked to increased risk of aggressive prostate cancer.
It doesn't really matter what I eat as long as it's generally healthy, and I exercise.	Peter Attia and others	It does!

Eating to prevent disease

- Heart disease (#1 cause of mortality in US)
- Lung disease
- Cancer (digestive, blood, breast, prostate)
- Brain disease (stroke, Alzheimer's)
- Infections

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• Diabetes (metabolic syndrome)

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• High blood pressure

- Liver diseases
- Kidney disease
- Suicidal depression
- Parkinson's

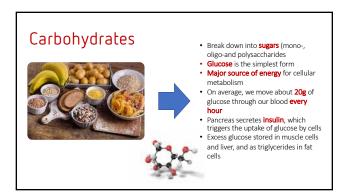


The basic elements of food

- Macronutrients
 Carbohydrates

- Phytonutrients and Myconutrients

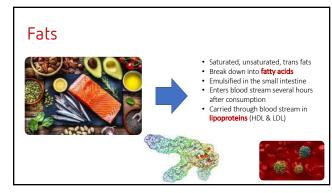
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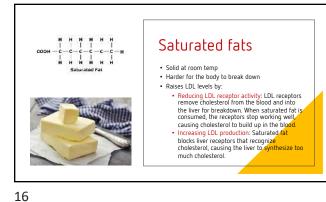




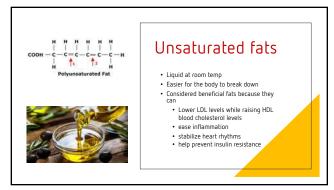


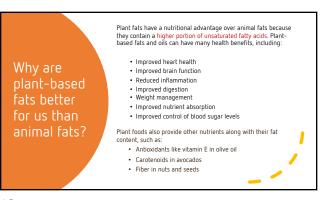


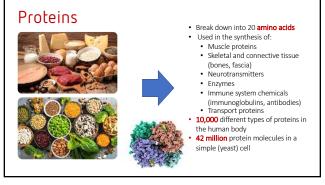


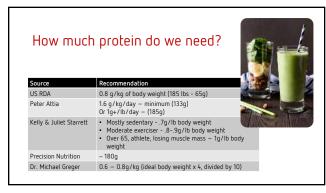












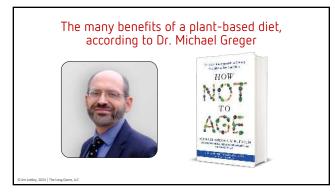




Phytonutrients & Myconutrients

Antioxidants
Influence hormonal function
Help with DNA repair
Fight bacteria, viruses, other bacteria

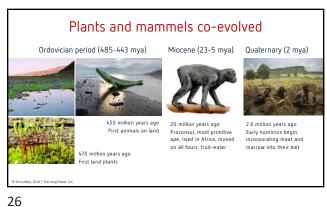
Lower inflammation
 Lower blood clotting and coagulation
 Inhibit fat synthesis and storage
 Over 10,000 known





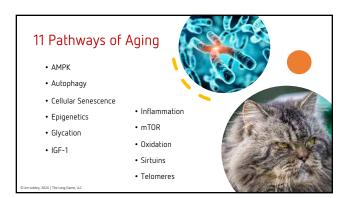


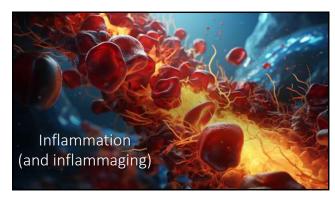












Inflammation and inflammaging

What is it?

- Acute vs. Chronic
 Chronic inflammation, also called metabolic inflammation, is systemic, persistent, and
 nonspecific; and appears to perpetuate disease
 The aging and inflammation paradox

How is it measured?

Blood test: C-reactive protein (CRP)
 Ideal levels: < 1 mg/L

Pro-inflammatory foods

- Generally, components of animal products and processed foods
- Saturated and trans fat (top 5 sources of saturated fats in US: cheese, desserts, chicken dishes, pork, burgers); also, sodium (salt)
 Endotoxins: sloughed off of bacteria, pass through and damage the intestinal lining

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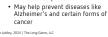
Anti-inflammatory

- Turmeric highest anti-inflammatory food in the DII
- Ginger (powder) Used to treat rheumatoid and osteoarthritis
- Garlic (powder)
- Cloves, rosemary, dill, cinnamon (Ceylon), cocoa
- Spices containing significant amts of salicylic acid (aspirin):
 - Cumin (#1), dried basil, chili powder, coriander, dried oregano, paprika, turmeric



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Mediterranean Health benefits Diet: Whole, minimally-processed ingredients Complex carbs Ample protein Live longer Less heart disease • Promotes healthy blood sugar levels Improves cognitive function Improved body mass index Healthy fats Lots of fiber Lower cholesterol Lower blood pressure Lots of EVOO Not a lot of sugar



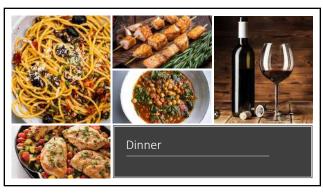


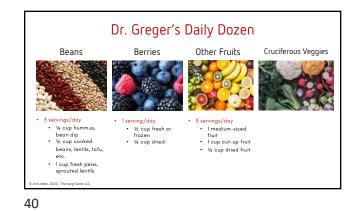
- Not a lot of meat







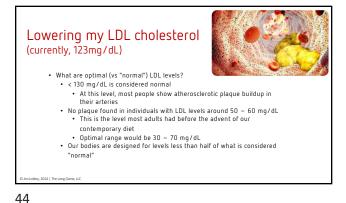


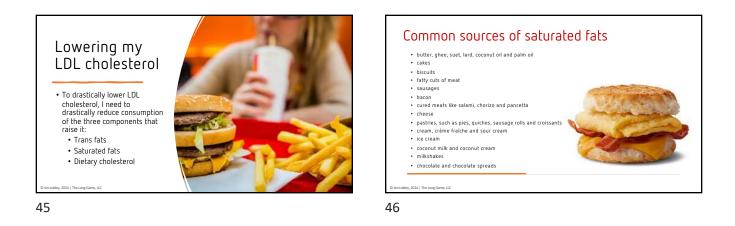


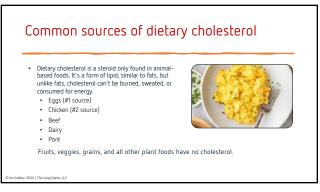








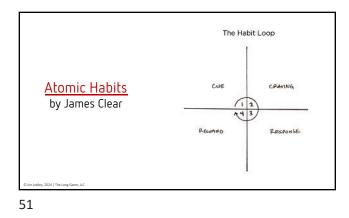


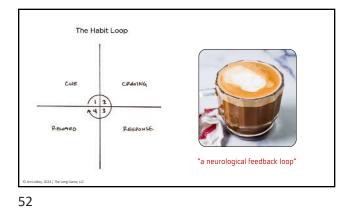






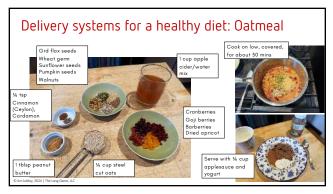




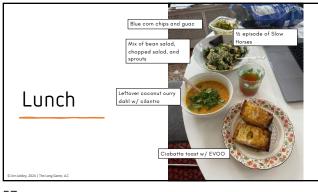








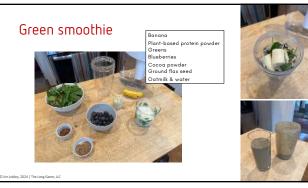






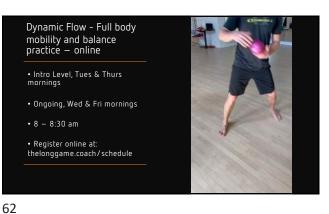












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- Or log on to the website

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