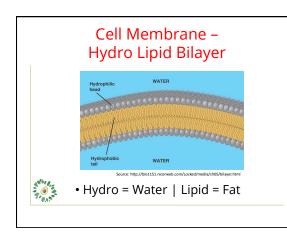
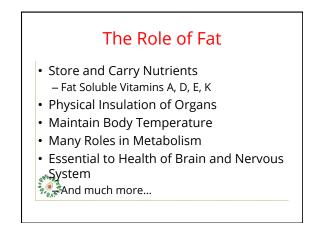


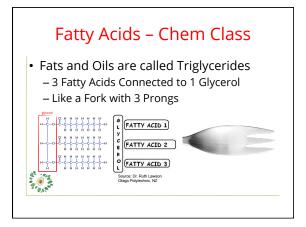
Fat Facts

- Brain is 60% Fat
- Cell Membranes Contain Fat
- Transport Nutrients In and Waste OutAll Cells Need Fat for
- Growth, Maintenance and Repair
- Fats are Solid, Oils are Liquid
- Fats and Oils are Lipids
- Fats Do Not Dissolve in Water

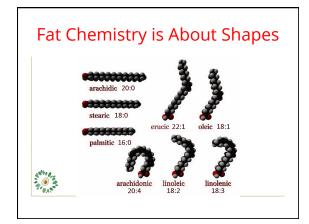
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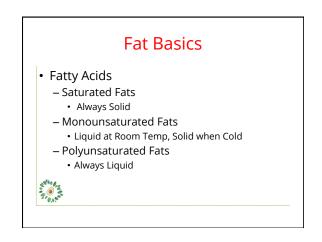












Role Of Saturated Fats

- Provide Energy
- Building Blocks for Hormones
- Slow Absorption of Food

 Go longer between meals with balanced blood sugar
- Carriers of Fat Soluble Vitamins – Vitamin A, D, E, K
- Help Conversion of Beta Carotene to Vit A

Fat Sizes- S, M or L?

- Fatty Acid Molecule is shaped liked a Caterpillar and come in 3 sizes

 Short 4-6 C – Ex. Butter (butyric acid)
 - Medium 8-12 C Ex. Coconut oil and Palm Oil
 - Long 14-24 C Ex. Meat, Cocoa Butter, Dairy
- Different Size = Different Job in the Body

Short Chain Fatty Acids

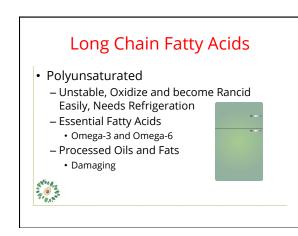
- Always Solid and Saturated
- Easy to digest, don't need bile
- beneficial if liver or digestive disorders
- Provide Quick Energy
- Feed Friendly Bacteria in Colon
- Anti-Microbial
- Ex. Butter Fat from Cows and Goats

Medium Chain Fatty Acids

- Solid at Room Temp
- Anti-Microbial
- Inhibit growth of Yeasts like Candida
- Not Stored in the Body as Fat
- Boost Metabolism
- Create Heat (thermogenesis)
- · Boost Immunity
- Help Maximize Benefit of Essential Fats
- Ex. Coconut Oil and Palm Oil

Long Chain Fatty Acids

- Saturated
 - Transported across gut lining in a Lipoprotein
 - Need to be part of a Balanced Diet
 - Ex. Beef, Lamb, Cocoa Butter, Dairy
- Monounsaturated
- Heart Healthy - Anti-Oxidant Properties
- Ex. Olive Oil



Essential Fatty Acids

- Cannot be Made in the Body – Must Come from Food or Supplements
- Omega-3 anti-inflammatory
- Omega-6 pro-inflammatory
- We need both, all inflammation is not bad

Essential Fatty Acids

- Ratio of Omega 6:Omega 3 Essential For Good Health
- Goal is 1:2.5 1:1
- Traditional Diets
 - Traditional Eskimo Diet 1:2.5
 - Traditional Japanese Diet 3:1
 - Traditional European Diet 6:1
- Regular North American Diet 20:1 40:1

Essential Fatty Acids

- Less Omega-3 More Omega-6 recent decades
- Grains are High in Omega-6
- Livestock from Grass Fed To Grain Fed with Industrial Farming
 - Meat, Chicken and Eggs less Omega-3 and more Omega-6

Greens & Cold Water Fish High in Omega-3

Processed Oils

- Made from Rape See (Canola), Soy, Sunflower, Corn, Peanut, Cotton Seed etc.
 - Often GMO and Grown with Pesticides
- Used Extensively in Baking and Cooking in Restaurants and Homes
- Linked to Increased Coronary Heart
 Sease

Processed Oils

- Seed, Peanut, Soy, Corn Oils 1920's Industrialized
 - Remove nutrients like Vitamin E, Carotene, Lecithin, Omega-3 since not shelf stable
 - Deodorized
 - Goal: Tasteless and Shelf Stable
- Eliminate from Diet

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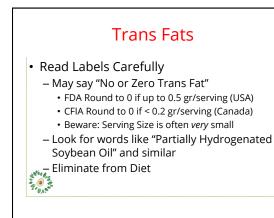
Trans Fat

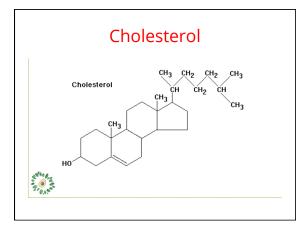
- Hydrogenation Convert a Seed Oil in to a Solid Fat and Results in Trans Fat
 - Chemical Process with Metal Residue
 - Fat Molecule is a Shape the Body does Not Recognize, No Nutritional Value
- Shelf Stable
 - Found in the "Middle Aisles"
- Interfere with Essential Fats



Trans Fats

- · Health Risks with Trans Fats cont'd
 - Free Radical Damage
 - Coronary Heart Disease Main Culprit with Sugar
 - Type 2 Diabetes and Obesity
 - Cancer
 - Mental Health Issues
 - Inflammation
 - Autoimmunity
- Hormone Synthesis
 - 🔹 And more...



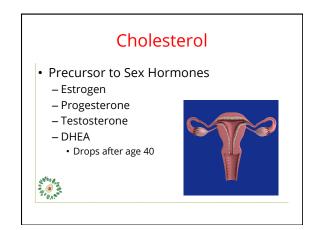




Cholesterol

- Alcohol that Behaves like a Fat
- No Calories (not a macro-nutrient)
- Waterproof
- Mother's Milk
 - High in Cholesterol and Saturated Fat
 - Cholesterol Rich Food Needed for Growth & Development of Brain and Nervous System

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Cholesterol

- Precursor to Adrenal Corticosteroids
 - Regulate Kidney Function
 - Prepare for Fight or Flight (sympathetic response)
 - Supports the Use of Vitamin D
 - Bone Health, Immunity, Nervous System
 - Ingredient of Bile
 - Breakdown of Dietary Fat
 - Absorption of Fat Soluble Vitamins (A, D, E, K)

Cholesterol

- Brain Health
 - Function of Serotonin Receptors
 - Cholesterol is half the dry weight of the Cerebral Cortex
- Intestinal Wall Health
 Prevent and Heal Leaky Gut
- Heal and Protect Injured Areas
- Skin, Cells, Arteries, Lungs

Cholesterol

- Because <u>Cholesterol</u> is so <u>Important</u>, our bodies can make it from Protein, Carbs and Fats.
- Cells and Liver makes Cholesterol as needed
- Only Half of the Cholesterol from the Diet is Absorbed
- Dietary Cholesterol only found in Maimal Products

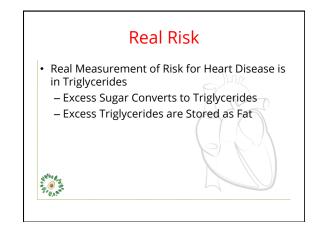
- Cholesterol

 So what Raises [Dense LDL] Cholesterol?
 Diet High in Refined Carbohydrates (sugar) and Trans Fat
 High Caloric Intake
 - Lack of Fiber in Diet
 - Lack of EFA's in Diet

– Stress

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Saturated vs. Trans Fat

- Saturated Fats has been part of our Diet for Millennia vs. man-made Trans Fats
- Often Lumped Together as "Unhealthy Fats"
 - Trans Fat
 - Saturated Fat
 - Cholesterol (not really a fat)
- Why did Saturated Fats and Cholesterol get
 wouch a Bad Rap?

Ancel Keys – 7 Nation Study

- 1950's Lipid Hypothesis
- Cholesterol containing foods -> high blood cholesterol -> atherosclerosis a.k.a. hardening of the arteries -> coronary heart disease
- All above links have been disproven
- Learn more here

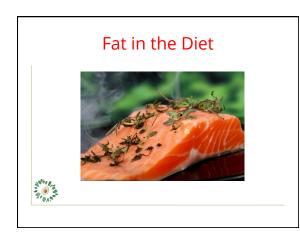
Big Pharma & Big Food

- 1 in 4 Americans are candidates for Cholesterol Lowering Drugs like Lipitor

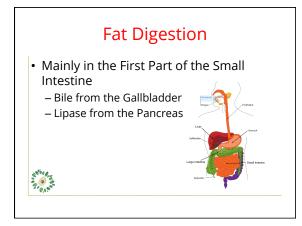
 Treatment level has been lowered
- Packaged Foods made with Hydrogenated and/or Processed Oils are Shelf Stable and Cheap to Make

Healthy Fat Habits

- Eliminate Clear Oils and Trans Fat (real zero)
- Avoid Processed Food
- Get Omega-3 EFA's from Food or Supplements
- Avoid Seed Oils to keep Omega-6 balanced
- Leafy Greens, Nuts, Seeds, Sardines, Wild Cold Water Fish
- **Ea**t High Quality Real Foods









Cooking Fat - Smoke Point

 Heat beyond Smoke Point Transforms a Healthy Fat like Olive Oil in to Unhealthy Fat

- Start over if fat or oil begins to smoke!





Fats to Include

- Avocado Oil Dark Glass Bottle

 Use for cooking, roasting and baking
 Neutral flavour
- Duck Fat
- Use for cooking, roasting and baking
- Ghee Clarified Butter Organic (if tolerated) – Use for cooking and roasting
- Butter Organic (if tolerated)
- Use for cooking, roasting and baking

Healthy Fat in Foods

Avocado

3.0

- Nut & Seeds
- Cold Water Fish (wild)
 Sardines in water



- Grass Fed BeefGame/Wild Meat
- 📲 Eggs, Pastured and Organic



Fats to Avoid

- Clear Seed Oils (Canola, Sunflower etc.)
- Margarine or other Solid or Spreadable Fat made from Seed, Corn or Soy Oil
- Partially Hydrogenated Oils
- Read Labels and be Cautious with – Baked Goods (Breads, Crackers, Cakes etc.)





Chemicals in Our Environment

- Perfluorooctanoic Acid (PFOA) Linked To – Hyperactivity
 - Hormone Disruptor/ Reproductive Toxin
 - Thyroid Disorders

Found In



- Non-Stick Cookware
 Stainguard Treatments & Spot Cleaning Products
- Microwave Popcorn Bags
- Food Package Lining
- House Dust





Chemicals in Our Environment

- Parabens Linked To
 - Breast CancerSkin Damage/Cancer
 - DNA Damage
- Found In
- Personal Care Products
- Cosmetics
- Cosmetics – Sunscreens
- Lotions

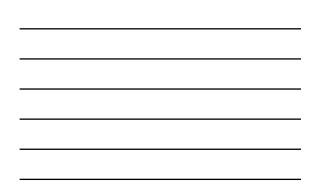


Chemicals in Our Environment

• Switch To Safe Personal Care Products



Home Environment Kitchen - Food Storage Avoid plastic (or store only dry food in plastic) Store in glass or stainless steel Cooking Avoid Non-Stick cookware, especially if scratched Use Stainless Steel, Cast Iron, Enameled Cast Iron



Home Environment

- Cleaning Products
 - Avoid anti-bacterial and chemical cleaners
 - Use home-made or safe cleaning products
- Dust can be contaminated with toxins like pesticides and flame retardants
 – Wet dust with microfiber cloth

– Vacuum with HEPA filter

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Home Environment – Personal Care

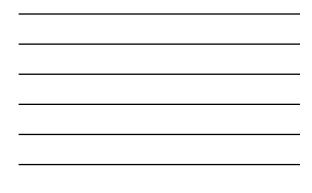
 Shampoo – Contain Harsh Chemicals – Phthalates - Hormone Disrupting – Parabens - Suspected Carcinogen

– Absorbed thorough Skin

- "Natural" and "Organic" Unregulated in Personal Care
- Better choices are easier to find
 Read Labels













The greatest wealth is.. HEALTH.

