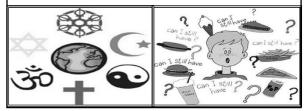
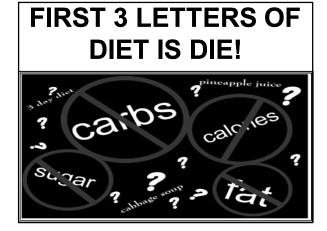
DIETS ARE LIKE RELIGIONS

Someone thinks theirs is right.

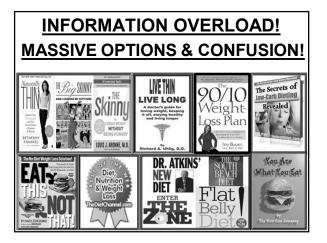
Someone wants to convert you.

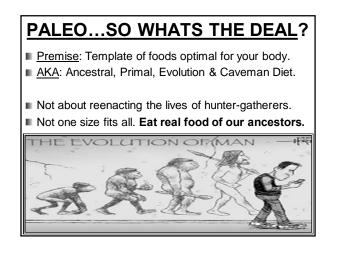
At their core, they all have some commonality.







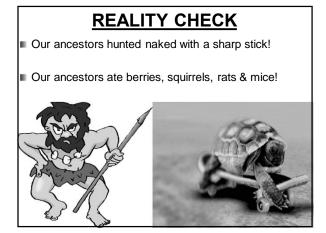


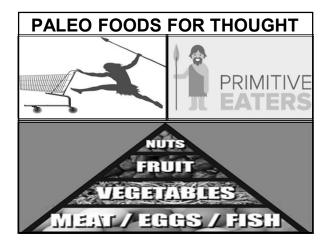


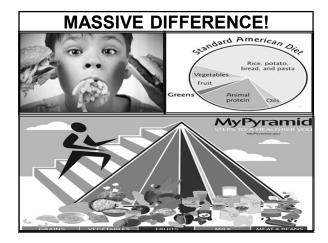
REAL FOOD OF OUR ANCESTORS?

- Could you make it yourself?
- Does it have an ingredient list?
- Can you recognize all the ingredients as food?
 Gluten, grains, soy, peanut, legumes, dairy or sugar?





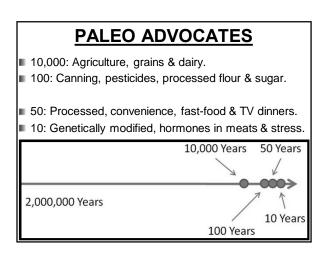


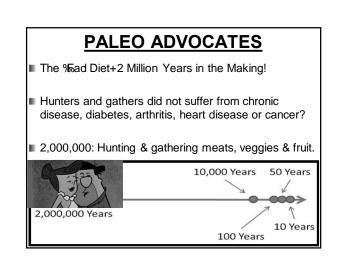


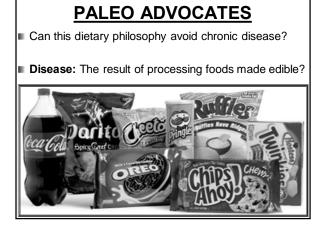
PALEO ADVOCATES

- The science of what our pre-historic ancestors ate, before the development of civilization & agriculture.
- General Dietary Premise:
- We should not eat agriculturally produced foods.
- Biologically, we have not evolved past the Paleo Era.









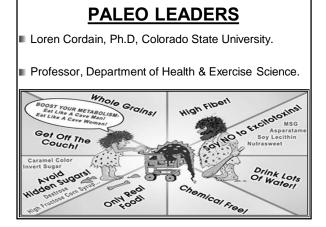
HOW IT BEGAN

■ 1975, The Stone Age Diet.

Seattle Gastroenterologist Walter Voegtlin, M.D.

Noticed similar GI tracts of carnivores & humans.
 Findings: GI issues from [↑] CHO carnivores never ate.





LOREN CORDAIN PALEO DIET

- PRIMARY: 7-14 eggs weekly.
- Lean meats, fruits, veggies, nuts & seeds.
- Eat fruits, veggies, seeds & olive oil with every meal.

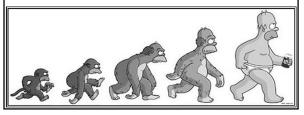
MODERATION: Coffee, alcohol, dried fruit & all nuts.





LOREN CORDAIN PALEO DIET AVOID: Dairy, grains & starchy veggies.

- Soft drinks, fruit juices, candy, honey & sugar.
- Processed meat, canned goods & condiments.
- Legumes, beans, peas, peanuts & soy products.



PALEO LEADERS Robb Wolf, CSCS, Biochemist, Chico, California. Owner of NorCal Strength & Conditioning Gym.



ROBB WOLF PALEO SOLUTION

- OILS: Virgin olive & coconut.
- GRUB: Various meats, fruits, veggies & nuts.
- NUTS: Macadamia, almond, pecan & walnuts.

Ribeye, ribs, pork chops, & <u>extra fat bacon</u> are ok.
 ↑ local, organic, grass-fed, wild-caught meats & fish.



ROBB WOLF PALEO SOLUTION

BIG emphasis on grass-fed & no nitrates.

Nitrates: Widely used in preserving meats.

Comes in a freezer or in a box, probably a no no!



ROBB WOLF PALEO SOLUTION

DRINK: H2O, coffee & tea.

■ **<u>MODERATE STARCH</u>**: Squash, yam & sweet potato.

■ <u>AVOID</u>: Dairy, cereal, grain, legumes, soda, fruit juice, ↑ salt foods, candy, honey, sugar & sweets.



AUTHORS COMMONALITIES

If you can kill it or forage itõ Bon Appétit!
 Premiseõ Gluten products cause inflammation!

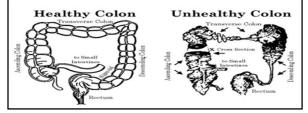
Shift CHO sources to things that are not gut irritating.
 No grains, legumes dairy & processed vegetable oils.



<u>GLUTEN</u>

Protein in most grains, wheat, barley, rye & oats.
 Very hard to digest & can ↓ intestinal absorption.

Can ↑ leaky gutõ incomplete digested compounds.
Should stay in your gut (pooh!) enter your bloodstream.



AUTOIMMUNITY & LEAKY GUT		
Disease	Tissue/Organ	
Autism	Nerve/Brain	
Arthritis	Joints	
Rosacea	Skin	
Psoriasis	Skin	
Hashimotos	Thyroid	
Celiac Disease	Gut	
Ulcerative Colitis	Gut	

AUTHORS COMMONALITIES

- No serious PITA morals.
- Fattier cuts like bacon & ribs.
- Moderate to ↑ high animal protein.

Variety of poultry, seafood, red meats & eggs.
 Wild or grass-fedõ "all natural & no hormones"



NATURAL LABELS

FDA & USDA "natural+loosely defined:

Leaves lots of room for things to sneak in.

No added color, artificial flavor or synthetic substance.



HORMONE FREE LABELS

- No hormone beef label must say:
- Sufficient documentation provided to the agency+

No hormone pork or poultry label must say:

‰ederal regulations prohibit the use of hormones+

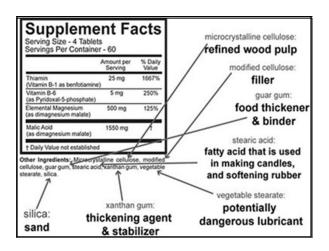
Going to spend more \$\$...Make sure it's worth it.

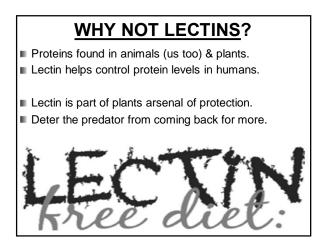
Ts "natural" meat free from growth hormones?

OTHER LOOSE LABELS

- Organic: Access to outdoors.
- Fed organic, no antibiotics or hormones.
- Free Range Poultry: Access to outdoors.
- No antibiotics red meat & poultry:
- Documentation of animals raised without antibiotics.







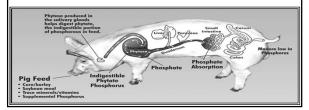
WHY NOT LECTINS?

- 1 f in seeds, grains, legumes, soy & nuts.
- Ingested can cause intestinal & gut irritation.
- Plant lectins irritate the digestive system so you dond digest its seeds.
- Seeds are needed for reproduction & survival.



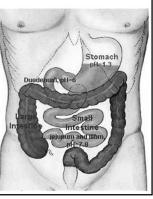
NO PHYTIC ACID & PHYTATES

- Anti-nutrient in plant-based foods.
- Fruits & vegetables have almost none.
- Grains & legumes have ↑ phytic acid content.
 We dong have phytase enzyme to break it down.



NO PHYTIC ACID & PHYTATES

- Binds to minerals
 ↓ absorption.
- Cal, mag, iron & zinc deficiency.
- Deficiency leads to ↑ PMS, fatigue & muscle cramps.

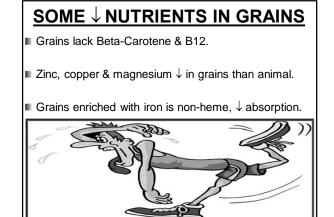


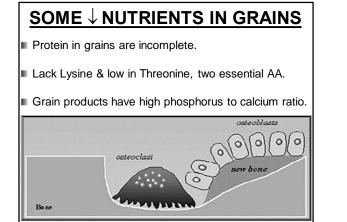
SOAKING

- Soaking ↑ AA availability.
- <u>Neutralizes</u> phytic acid, ↑ absorption.
- ↑ Cal, Mag, Iron & Zinc. ↑ vitamin A, B, & C uptake.



	PER 100 G	RAMS
White flour 300	Nut	Phytate
 Corn 370 Bran muffin 500 		mg/100 g
Lentils 780	Walnut	982
Oatmeal 940	Almond	1138
Oat Flakes 1200	Peanut: roasted	952
	Peanut: ungerminated	821
Avocado 18	Peanut: germinated	610
Broccoli 16	Hazelnuts	648
Collard Greens 15	Brazil nuts	1719
Strawberries12	Coconut	357

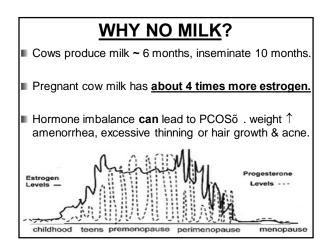




WHY NO MILK?

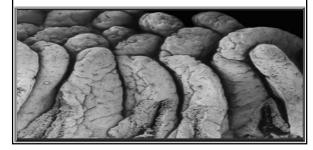
- Milk was not on the Stone Age Menu!
- IGF (insulin-like growth factor) is in milk.
- Name implies, promote growthõ of baby cows.
 ↑ blood concentration of IGF can promote acne.



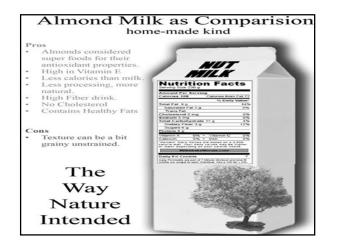


SMALL INTESTINE

- 1. <u>90%</u> of absorption takes place here.
- 2. About 22 feet long X 1 inch in diameter.
- 3. <u>Villi</u>: tongue-shaped projections, help absorption.







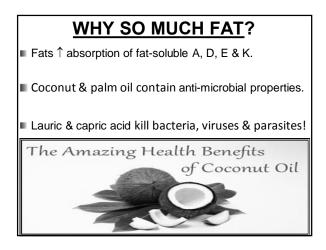
PALEO & DAIRY

The bottom lineõ avoid all dairy on Paleo.

Milk, butter, cream, yogurt, ice cream & cheese.

Humans are the only specie to drink milk after infancy.



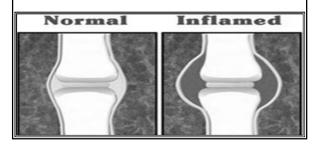


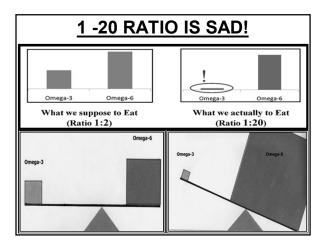
\uparrow OMEGA 3 & \downarrow OMEGA 6			
Oil	Omega-6 Content	Omega-3 Content	
Safflower	75%	0%	
Sunflower	65%	0%	
Corn	54%	0%	
Cottonseed	50%	0%	
Sesame	42%	0%	
Peanut	32%	0%	
Soybean	51%	7%	
Canola	20%	9%	
Walnut	52%	10%	
Flaxseed	14%	57%	
Fish*	0%	100%	

\uparrow OMEGA 3 & \downarrow OMEGA 6

↑ omega-6 content associated with inflammation.
 Inflammation is the root cause of chronic diseases.

(Cardiovascular, arthritis & autoimmune diseases)



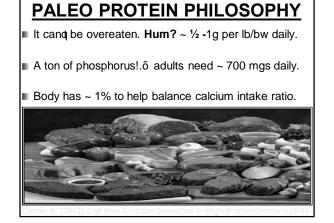


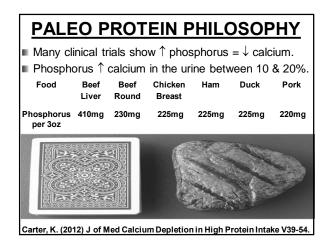
A MISUNDERSTOOD FRIEND?

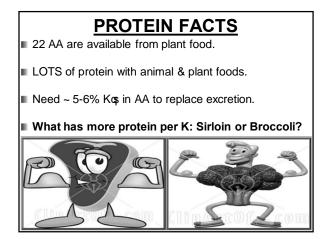
LARD

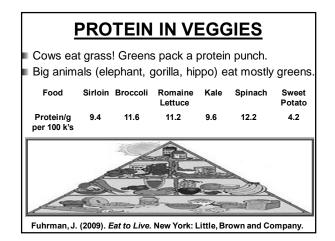
- 47% monounsatured, \uparrow HDL & \downarrow LDL.
- 40% is saturated BUT 1/3 is stearic acid that ↑ HDL.
- Stearic acid has no effect on LDL (neutral).
- Paleo advocatesõ 1/3 of the fat in lard improve lipids?

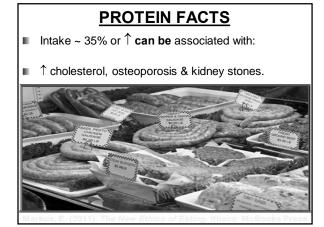


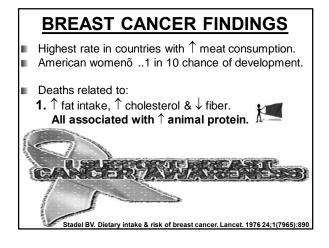


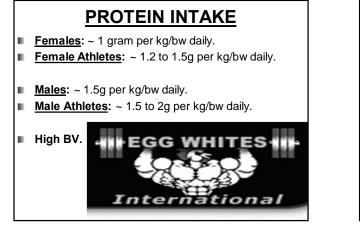


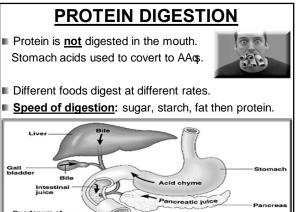


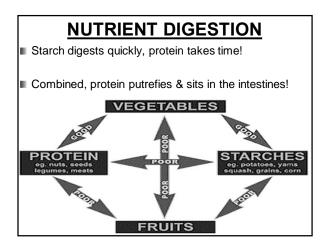












USE SEA NOT IODIZED...HUM?

- Sea salt used in cosmetics.
- Made from evaporated seawater.
- Iodized salt adds iodide (a form of iodine).
- Iodine deficiency can lead to thyroid issues.



ESTROGEN & THYROID LEVELS ■ Estrogen ↑ fat storage during puberty & pregnancy. Other hormones 1 fat storage. Glucagon - secreted by the pancreas. Epinephrine - secreted by the adrenal gland.

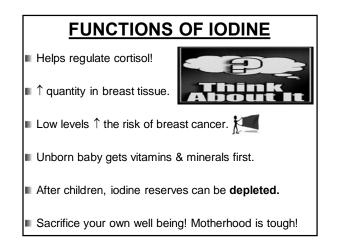
- Norepinephrine secreted by nerve endings.
- Fluctuating hormones can alter thyroid function!
- T3 & T4 levels determine proper thyroid function.

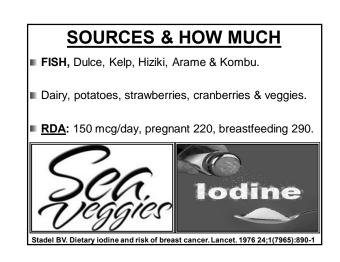
 $\text{T4}\rightarrow\text{4-12mcg/dl}$ ■ T3 → 2-4mcg/dl

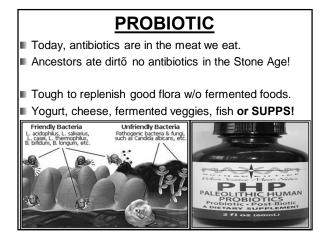
TRIODO-THYRONINE & THYROXINE

- AA tyrosine based hormones.
- **lodine required** to produce T3 & T4.
- T3 & T4 helps control CHO, fat & protein metabolism!









ALCOHOL PALEO STYLE

Be honest. For some, it hard to give up the booze.

■ IT¢ BEEN HELPING US HAVE SEX FOR DECADES!

Following the Paleo Diet has become much easier with the news that the earliest known winery was in a cave.

ORGANIC WINE IS GLUTEN FREE



<u>2012 l</u>	JS News & World Report	
Credentials	1975 Stone Age Diet+by Walter Voegtlin Ph.D. Currently Loren Cordain, Robb Wolf & others.	
Claims	Human genetics are un-changed since current agriculture. Ideal for human health & well-being.	
Calories	No count, & could be \downarrow calcium. Not suitable for vegans or vegetarians.	
Sustainability	50-65% lean meat hunted or grass fed & 35- 45% from plant food. <u>Caution</u> : Store foods could have growth hormone, antibiotics, pesticides, heavy metals & fatty acids from grain fattening.	
Weight loss	Varies on Koş intake.	
Research	2012 US News & World Report ranked it lowest of 20 diets evaluated based on factors including health, weight-loss and ease to follow.	