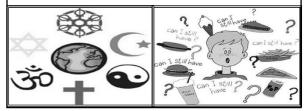
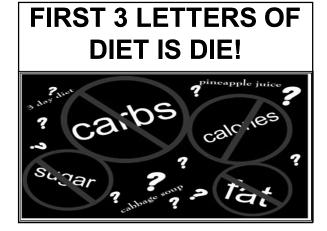
#### **DIETS ARE LIKE RELIGIONS**

Someone thinks theirs is right.

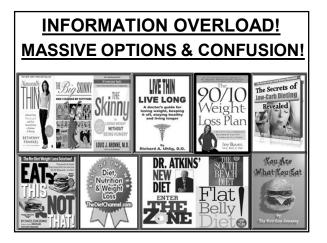
Someone wants to convert you.

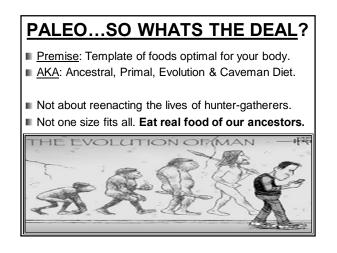
At their core, they all have some commonality.







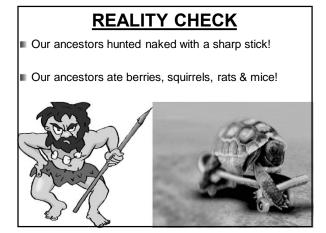


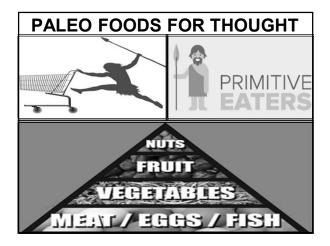


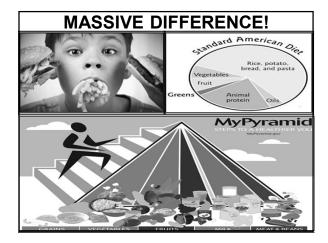
#### **REAL FOOD OF OUR ANCESTORS**?

- 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?





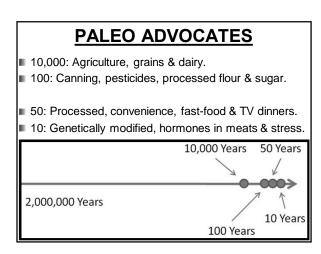


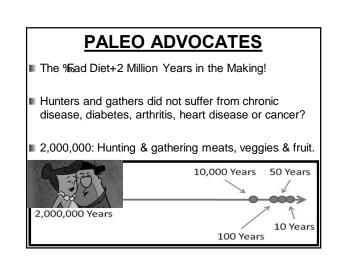


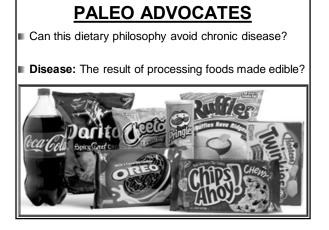
#### PALEO ADVOCATES

- 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.









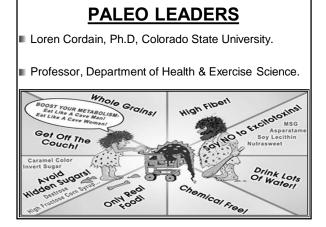
#### **HOW IT BEGAN**

■ 1975, The Stone Age Diet.

Seattle Gastroenterologist Walter Voegtlin, M.D.

Noticed similar GI tracts of carnivores & humans.
 Findings: GI issues from <sup>↑</sup> 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.

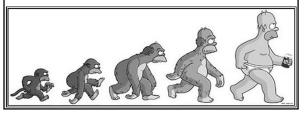
MODERATION: Coffee, alcohol, dried fruit & all nuts.





### 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.

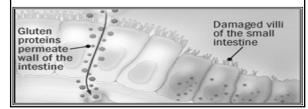
■ <u>AVOID</u>: Dairy, cereal, grain, legumes, soda, fruit juice, ↑ salt foods, candy, honey, sugar & sweets.



#### **AUTHORS COMMONALITIES**

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

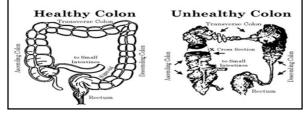
Shift CHO sources to things that are not gut irritating.
 No grains, legumes dairy & processed vegetable oils.



#### <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+

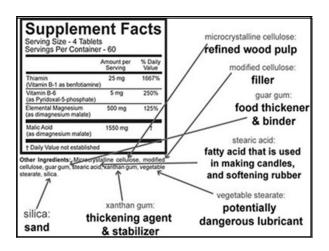
Going to spend more \$\$...Make sure it's worth it.

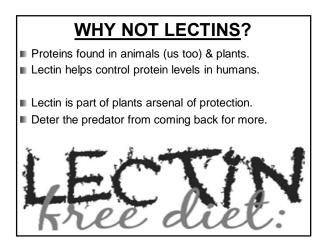
## Ts "natural" meat free from growth hormones?

#### **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.







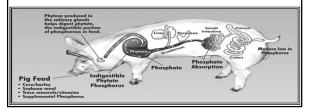
#### WHY NOT LECTINS?

- 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.



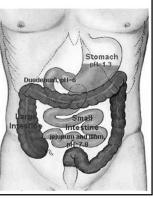
#### **NO PHYTIC ACID & PHYTATES**

- 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.

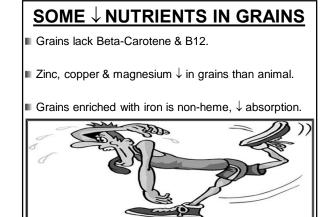


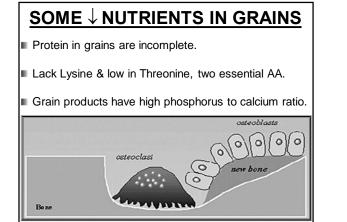
#### SOAKING

- 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
<ul> <li>Corn 370</li> <li>Bran muffin 500</li> </ul>		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

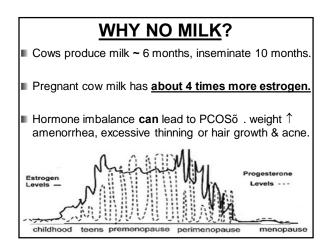




#### WHY NO MILK?

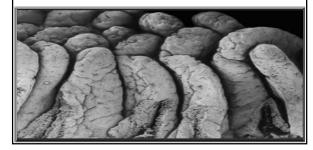
- Milk was not on the Stone Age Menu!
- IGF (insulin-like growth factor) is in milk.
- Name implies, promote growthõ of baby cows.
   ↑ blood concentration of IGF can promote acne.



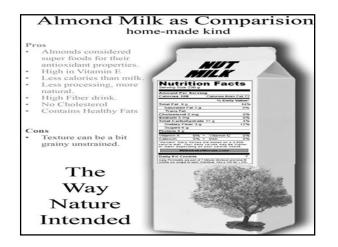


#### **SMALL INTESTINE**

- 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.







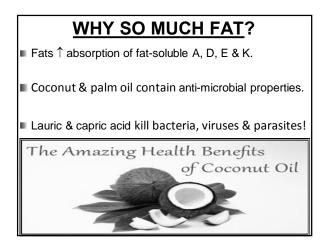
#### PALEO & DAIRY

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.



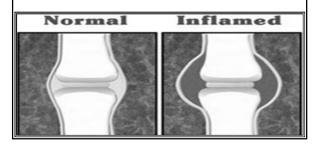


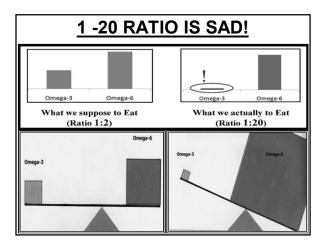
$\uparrow$ OMEGA 3 & $\downarrow$ OMEGA 6			
Oil	Omega-6 Content	Omega-3 Content	
Safflower	75%	0%	
Sunflower	65%	0%	
Corn	54%	0%	
Cottonseed	50%	0%	
Sesame	42%	0%	
Peanut	32%	0%	
Soybean	51%	7%	
Canola	20%	9%	
Walnut	52%	10%	
Flaxseed	14%	57%	
Fish*	0%	100%	

#### $\uparrow$ OMEGA 3 & $\downarrow$ OMEGA 6

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

(Cardiovascular, arthritis & autoimmune diseases)



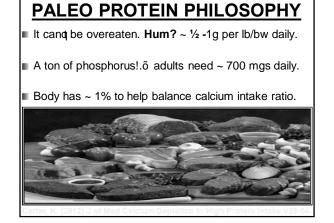


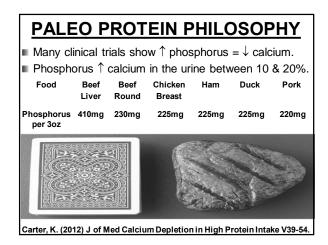
#### A MISUNDERSTOOD FRIEND?

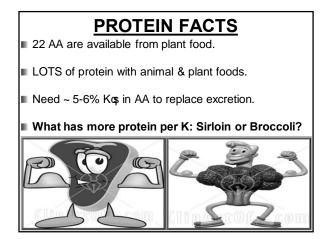
#### LARD

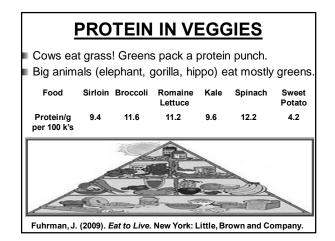
- 47% monounsatured,  $\uparrow$  HDL &  $\downarrow$  LDL.
- 40% is saturated BUT 1/3 is stearic acid that ↑ HDL.
- Stearic acid has no effect on LDL (neutral).
- Paleo advocatesõ 1/3 of the fat in lard improve lipids?

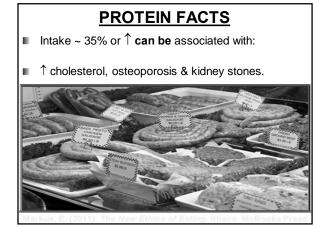


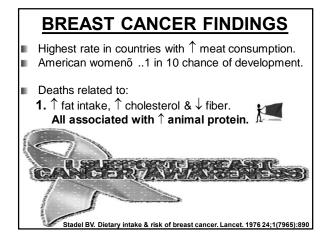


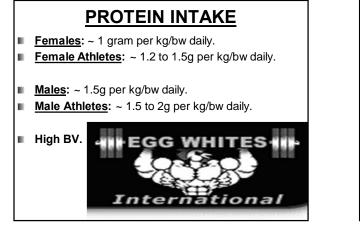


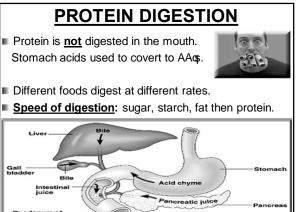


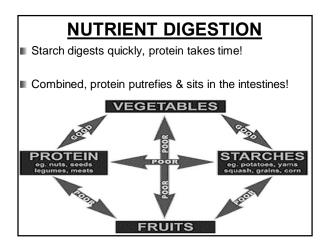












#### USE SEA NOT IODIZED...HUM?

- 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.

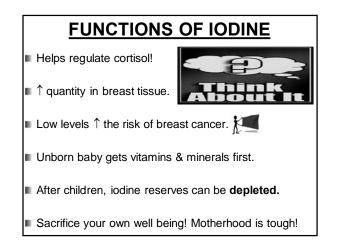
- Norepinephrine secreted by nerve endings.
- Fluctuating hormones can alter thyroid function!
- T3 & T4 levels determine proper thyroid function.

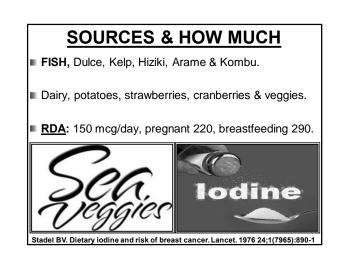
 $\text{T4}\rightarrow\text{4-12mcg/dl}$ ■ T3 → 2-4mcg/dl

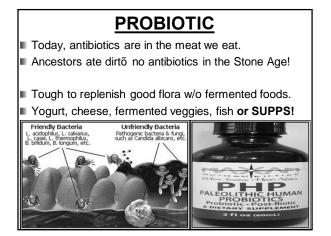
#### TRIODO-THYRONINE & THYROXINE

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









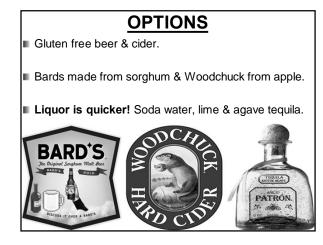
#### ALCOHOL PALEO STYLE

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.	