Types of Fat



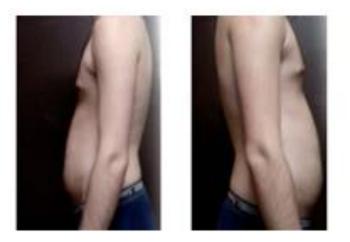


Which is Best Fat To Have? Fat and Fit – or Thin and Skinny Fat

Fat and Fit

Skinny Fat





Being Fat is not always Unhealthy



- One in three obese patients are metabolically healthy (normal blood tests) called obesity paradox.
- They have same risk of heart disease as skinny individuals.

Inaccurate Ways to Measure Visceral Obesity

Tape Measure

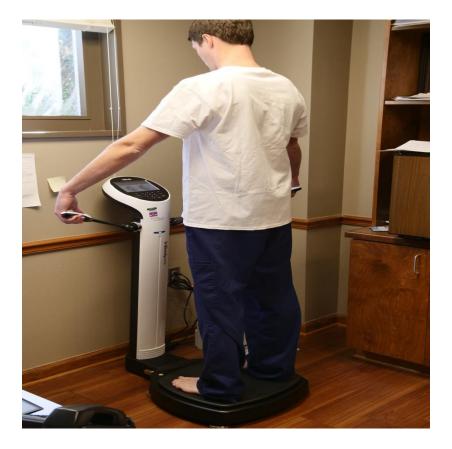


BMI (Body Mass Index)



InBody Test – Helps to Think Fat Loss, Not Weight Loss

Tells about fat, muscle and water

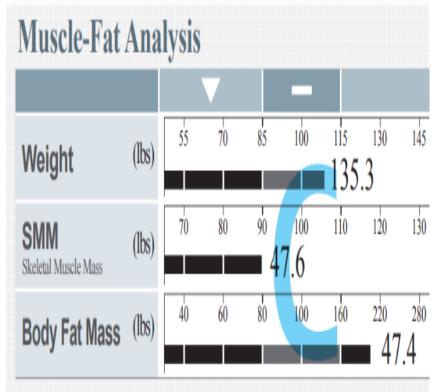


Shows true strength and weakness

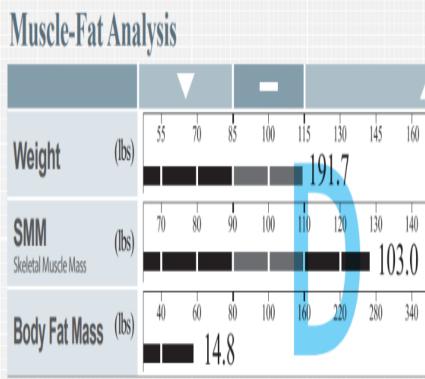


InBody Analysis

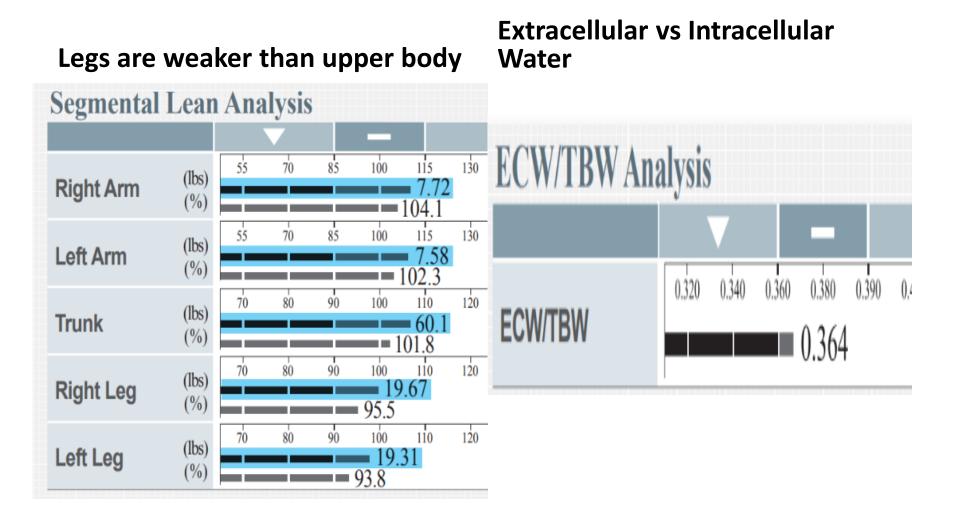
C- Shape – Need to lose fat



D – Shape – Good Health



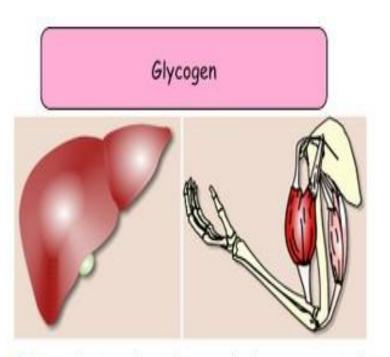
Inbody Analysis



Why is Visceral Fat so Dangerous?



How Does Visceral Fat Develop?



Glucose is stored as glycogen in large amounts in both the liver and skeletal muscles

- If too much glucose is in our blood stream and our glycogen stores in the liver and muscle are full, glucose will be stored as fat.
- Glucose triggers the release of insulin which stores fat.

Insulin Level – The Test your Doctor did not order

- It picks up insulin resistance early
- HBA1C and blood sugar may be normal when insulin level is elevated
- A level less than 5, means your are healthy
- Too much glucose cause a high insulin level, which produces inflammation which is the cause of most diseases (CAD, Stroke, Fatty liver, Dementia, Diabetes, Depression, Arthritis, Obesity, Sexual dysfunction and **Sleep Disorders**

Clay - Labs – Insulin level

| | LONE, CLAYTON NATH lliams, Jerry | 7 1 | ACCT AGE/S DOB: STATU |
|------------|-------------------------------------|---|--------------------------------|
| | | | сня |
| Date | MAY 2 | | |
| Time | 0937 | | |
| > TP | 7.4 | 1.1 | 10 |
| > ALB | 4.7 | 1 | |
| > GLOBULIN | 2.7 | 1000 | |
| > BILI.T | 0.7 | | |
| | < 0.1 L | the second second | |
| > ALT | 20 | | |
| > AST | 19 | - State - 1 | |
| > ALK.P | 51 | | |
| | 220 H | Contract of the | |
| > CHOL | 270 H | | |
| | 44.0 | 1. S. | |
| > NON-HDL | 226(A) H | | |
| (A) | OPTIMAL: | LESS THAN | 130 |
| | BORDERLINE HIGH | : 139-159 | |
| | HIGH: | 160-189 | |
| | VERY HIGH : | OVER 190 | |
| > LDL, CAL | 182(B) H | 1.64 | |
| (B) | OPTIMAL: | LESS THAN | 100 |
| | NEAR OPTIMAL: | 100-129 | |
| | BORDERLINE HIGH | : 130-159 | |
| | HIGH: | 160-189 | |
| | VERY HIGH: | OVER 190 | |
| > VLDL | 44 H | 1.00 | |
| > LDL/HDL | 4.14 | | |
| | 6.14(C) | | |

| Patient: MALONE | CLAYTO | ON NATHA | NIEL | #K011298 |
|-----------------|--------------------|----------|---------|---------------------------------------|
| Test | Day | Date | Time | Result |
| => INSULIN-T | 1 | MAY 2 | 0937 | 14 (a) |
| | ONE,CLA liams,J | | THANIEL | ACCT #: AGE/SX: DOB: STATUS: |
| | | | | CHEMI |
| Date Time | FEB 24 0724 | | | |
| > INSULIN | 4 | | | |

Inflammation – Acute vs Chronic

Acute inflammation with pain, redness, swelling and heat



Chronic Inflammation



Sugar, High Fructose corn syrup Fast foods, commercial baked foods, Fried foods and smoking (Oxidize LDL – Turn LDL Rancid) – Foods that Increase Inflammation

Vegetable Oils

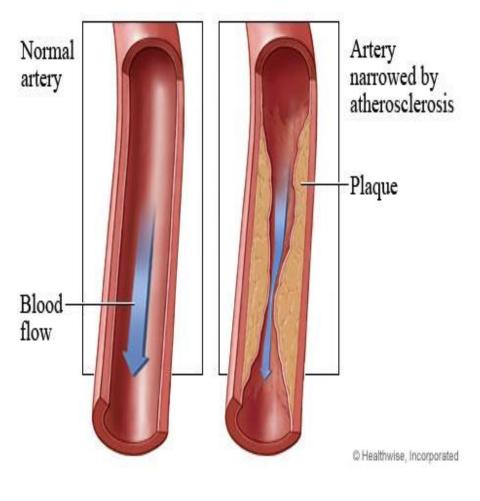


Sugar, High Fructose Corn Syrup



Inflammation, Not Cholesterol is Cause of Heart Disease (NEJM)

- Cholesterol that build up on artery walls is oxidized, which damages the cholesterol cells.
- Your immune system may mistake the oxidized Cholesterol for bacteria. This causes your immune system to fight it off, which can lead to inflammation in vessels.
- This clean up process forms plaque to protect you from harm. Over time this plaque can rupture and form a blood clot which completely obstructs blood flow and heart attack will occur.
- Guidelines in 2015 Restrict Cholesterol to 300 mg a day. Last guideline in 2015, cholesterol does not cause heart disease and no restriction on cholesterol



Other Food That Increase Inflammation

- Refined carbs, starchy carbs spike insulin level and lay down visceral fat
- Refined flour and breads will spike insulin levels
- Grains can be contaminated with Gluten which creates inflammation.
- Breakfast cereals can spike insulin (Cheerios, 9 grams of sugar, 22 carbs per serving)
- Dairy can cause inflammation by casein and lactose intolerance
- Fruit juices



Foods That Cause Inflammation

- Sugar, HFCS
- Refined grains breakfast cereals, white bread, pasta, white rice.
- Bad Fats refined vegetable oils, shortening, hydrogenated fats, fried foods
- Corn feed meat and poultry

- Farmed fish
- Processed foods like potato chips, crackers, frozen meals, processed meat and instant noodles
 - White flour products
 - MSG
 - Casein in dairy products
 - Aspartame, neurological
 - Alcohol Can increase insulin

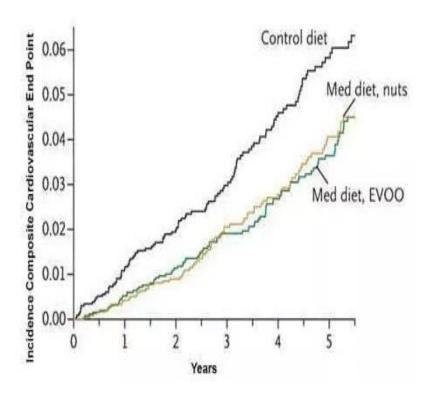
Best Anti-Inflammatory Diet – Mediterranean (High Fat Diet)

- High fat diet with increased intake of saturated fat (Olive oil and nuts)
- Lot of fruits and vegetables
- Meats (fish, chicken, turkey and eggs. Red meat rarely
- American diet (SAD) is low fat diet with low intake of saturated fat

- SAD use more breads, pasta, rice and potatoes than Mediterranean diet.
- Consumption of fruits and vegetable s is less than Mediterranean diet
- Nuts and Olive oil are not eaten frequently in the SAD diet

Heart Attack, Stroke, Death – Reduced by 30%

Predimed Study



Study stopped early due to deaths with American diet.



Best Carbs – Low Glycemic - Green Leafy Vegetables and Fibrous Carbs – Do Not Spike Insulin and are noninflammatory

Green Leafy Vegetable

- Kale, Spinach, Turnip Greens, Collard Greens
 Arugula, Cabbage, Beet Greens, Watercress,
 Romaine Lettuce, Swiss
 Chard, Bok Choy,
- They are packed with vitamins, minerals, fiber and antioxidants and are low in calories
- Eat as much as you want

Fibrous Vegetables

 Bell Peppers, Broccoli, Asparagus, Mushrooms, Zucchini, Cauliflower, Green Beans, Cucumbers, Brussels Sprouts, Celery, Tomatoes, Onions, Eggplant

Starchy Carbs – Eat in Moderation Higher Insulin Response

Starchy Vegetables

- Beans (kidney, navy, pinto, black, cannellini)
- Butternut squash
- Chickpeas
- Corn
- Lentils
- Parsnips
- Peas
- Potatoes
- Sweet potatoes
- Taro
- Yams

- Starchy Carbs pack 3-4 times more carbs per serving.
- Diabetics have to limit their intake of starchy carbs.
- Most of starchy vegetable are low to moderate GI except for potatoes.

Dr. Terry Wahls – Reversing MS Increased Intake of Leafy Greens

Smoothie Recipe

- 3 cups of kale or spinach
- 1 cup of almond milk
- 1 tablespoon lime or lemon juice
- ¹/₂ cup frozen mixed berries
- 1 stick of Stevia
- 2 tablespoons ground flax seeds
- I tablespoon o f MCT oil

In Wheelchair in 2007 and with new diet a complete recovery



Take Action – Get a Oil Change – Swap Vegetable Oils for Good Fats

Avoid Refined Vegetable Oils

- Soybean oil, Corn oil, Safflower oil, Canola oil and Peanut oil
- Refined cooking oils are made by intensive mechanical and chemical processes that extract the oil from the seeds. The refining process also utilizes chemical solvents and high temperatures.
- This process removes the natural vitamins and minerals from the seeds and creates a product that has been shown to become rancid and oxidize easily, causing free radical formation

Use Good Fats

- Extra Virgin Olive Oil
- Extra Virgin Coconut Oil
- MCT Oil
- Butter Grass Fed Cows
- Avocados
- Nuts
- Seeds
- The Above Fats are antiinflammatory and are antioxidants

Protein

Protein

- Fatty oily fish that contain Omega-3 fatty acids which are anti-inflammatory (Salmon, Herring, Anchovies, Sardines and Trout).
- Seafood such as lobster, shrimp, scallops
- Eggs Free Range

Protein

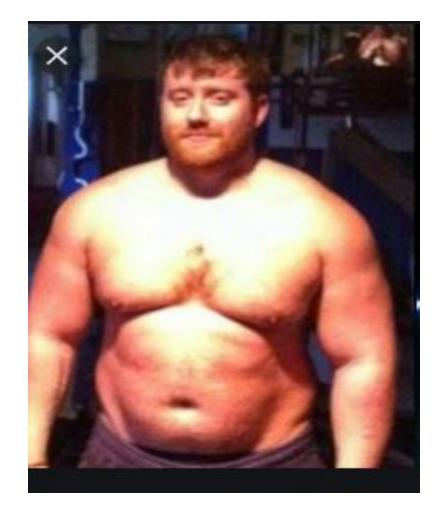
- Organic Chicken
- Grass –feed beef and lamb
- Wild deer, turkey, elk and buffalo
- Steaks should be once a week and the size of the palm of your hand.
- Processed meats (hotdogs, bacon, bologna and luncheon meats) have small risk of cancer of 0.6% (absolute risk)

Keto Diet With All Protein

 If you consume too much protein then this can be converted into glucose by a process called

'gluconeogenesis'.

• Eat a lot of leafy green vegetable s with protein.



Why Does Most Exercises Fail to Lose Weight or Remove Visceral Obesity?

Sprint 8

- Most do not activate fat burning hormones (Growth Hormone and Testosterone).
- Sprint 8 resulted in 27% reduction in body fat and naturally increased GH,Test.
- Sprint 8 Lowered insulin resistance better than Metformin

Sprint 8

- Sprint 8 burns 25-30% more calories than low intensity exercise.
- Sprint 8 has a afterburn effect and will burn calories even after you complete the exercise

High Intensity Exercise Can be Rewarding





Summary

- Obtain a fasting insulin level. If your level is > 5, you have carbohydrate intolerance and need a high fat-low carb diet like the Mediterranean diet.
- You must avoid sugar, refined carbs, fruit juices, refined cereals, dairy if lactose intolerant, and artificial sweeteners.
- Small quantities of starchy carbs like beans and potatoes
- Small quantities of mixed berries (1/2 cup)
- Unlimited amounts of green leafy vegetable and fibrous vegetables
- Grass-fed butter and occasional yogurt with no added sugar
- Small quantities of gluten-free grains (brown rice, quinoa)
- Plenty of good fats (extra virgin coconut oil, extra virgin olive oil, MCT oil and avocados)
- Moderate amount of nuts and seeds (almonds, walnuts, pecan, macadamia nuts, pumpkin seed, sesame seeds and chia seeds)

- Seafood low in mercury (Anchovies, Herring, Mackerel, Sardines, Squid (calamari), Tilapia, Trout (freshwater), Wild salmon (canned) and fresh.
- Shellfish including clams, oysters, mussels, shrimp, scallops, and crab.
- Grass-fed beef, bison, lamb and organic poultry.
- Organic eggs
- Organic turkey and sausage
- Red Meat (4-6 ounces) once a week
- Rarely processed meats (hot dog, canned meats, salami, bacon, sausage)
- Minimal gluten in form of whole grains (steel cut oats), whole kernel rye bread)
- Occasional treats of real sugar, maple syrup and honey