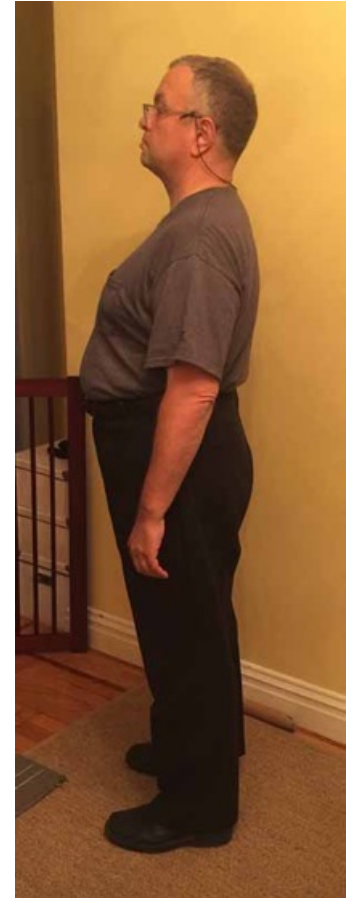


Almost everyone is on a diet – but most people fail to lose weight long term.
According to the data of American **National Weight Control Registry**, the probability of losing 30+ lbs and keeping it off for just 1 year **is less than 1 in 10,000**.

For 15 years I was failing too. I tried different approaches. Finally I started to succeed.
I slowly lost more than 60 lbs - I am definitely in “1 in 10,000” category mentioned above.
This presentation describes what really works (and what doesn't).
And how to be healthy and live longer (like people in “Blue Zones” – later in this presentation).



268 lbs in 2010



208 lbs in 2017

Marathoner and sweet water

Should a marathon runner add sugars into water in the middle of the race to get more energy?

No, No, No !!!

The drink will not contain enough energy and will not be metabolized fast enough.

But the sugar in it will be interpreted by the body as a signal to shut down the process of getting energy from internal sources (fat).

The marathoner **will feel more tired** and can crash.





Vicious Circle

You feel tired / hungry

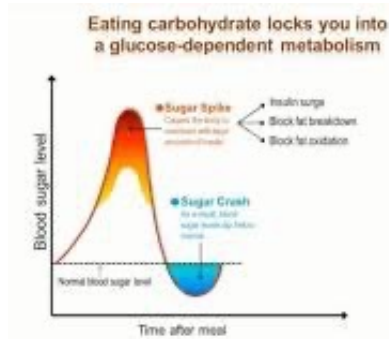


You eat “modern” food (something sweet, bread, burger, etc.), it causes strong spike of sugars in your blood, you feel better

Pancreas releases insulin to send signal to all cells to absorb sugar from blood.



Big insulin level causes decreasing of sugar levels to normal – and then below (over-regulation)



What to eat when you tired, nervous, hungry?

Do not eat to get energy from food when you feel tired.

Instead do something to give your body time to switch gears to start using your internal energy.

Like marathoner.

Drink water (or salt water ?), walk, breathe, wait 15 min.

Do not eat because you are tired.

Do not snack for energy.

Eat on schedule:

- three times a days works for most people.

Even better use intermitting fasting:

- Eat 2 times a day within 6-h window

- skip food completely on Monday, Wednesday, Friday,



Lion is sleepy
after eating



Lion alert and
focused when
hungry

You need to avoid spikes of insulin, because they cause sugar level to go below normal and cause “Vicious Circle”.

So avoid:

- sweet foods or drinks
- big meals
- highly-processed foods
- animal products
- combinations of processed carbs with animal products

- Here's a summary of the video: The Glucose Expert: The Only Proven Way To Lose Weight Fast! Calorie Counting Is A Load of BS! - Dr. Robert Lustig - <https://www.youtube.com/watch?v=4DWKf5RqU-s>
- High sugar intake increases the risk of diabetes, mental health issues, cognitive decline, and even early death. Sugar is addictive and pervasive in processed foods
- Pleasure is short-lived and dopamine-driven, while happiness is long-lasting and serotonin-driven. Seeking excessive pleasure can lead to addiction and reduce overall happiness
- Fructose in high doses is toxic and metabolized similarly to alcohol
- Added sugars are hidden in most processed foods, leading to consumption levels far exceeding the recommended limits
- Studies demonstrate the negative effects of sugar on children's behavior and metabolic health
- Consuming one sugar-sweetened beverage a day significantly increases the risk of diabetes
- Different types of sugars have varying effects on the body's metabolism and mitochondrial function
- Managing insulin levels, rather than just counting calories, is crucial for weight loss
- Practical Advice: Eat "real food" - foods that come from the ground or animals that ate from the ground - to avoid hidden sugars and maintain metabolic health
- The food industry is accused of deceptive advertising and mislabeling
- Environmental Obesogens - chemicals that can cause weight gain by affecting fat cell development
- Fiber's Importance: Fiber is essential for feeding the gut microbiome
- Personal Responsibility vs. Societal Factors: The addictive nature of sugar and the pervasive presence of unhealthy foods limit individual control
- The Four C's for Contentment:** Connect, contribute, cope, and cook are presented as ways to improve mental and metabolic health
- The Root Cause of Multiple Crises: A dysfunctional amygdala, driven by factors like stress and poor diet, underlies many of today's health and societal crises



The "only proven way" to lose weight fast is to lower your insulin levels by reducing the consumption of refined carbs and sugars
- Dr. Robert Lustig

Social eating may be a big problem for some people.
Give yourself permission not to eat during the meetings.
Nobody will notice.
Nobody will care.
Use magic phrases like "Not yet", "No more, please",
"I have eaten too much already", "I feel full", etc.

Don't be afraid of not eating.

In fact your body needs to get rest from eating for 12-16 hrs every day. This allows your body to clean itself.

Body can use its own storage for energy.

Remember that the longest fast was 382 days !



So:

- Eat natural whole foods, mostly plants.
- Drink water.
- Have enough sleep.
- Walk and exercise every day.
- Be social.
- Think good thoughts, love yourself, reduce stress.

Easy 😊



382 days fast
from June 1965 to July 1966

I highly recommend to listen to some episodes of the "Big Change the Film" series by Jason Cohen.

You can find it on youtube or iTunes:

on YouTube: - <https://www.youtube.com/channel/UCzFwW-13NfNBAtGbJxvJsQQ/videos>

on iTunes: - <https://itunes.apple.com/us/podcast/big-change-the-film-podcast/id1093956175?mt=2>



As of June 2018 there were 96 interviews.
They are stories of people who lost weight - and kept it off.
And have become much healthier.

After multiple attempts they all converge to the same approach.
It is NOT about dieting (eating less to reduce calories).
It is NOT about exercising to reduce calories.

It is about **switching to more nutritious foods** (whole foods, mostly plant-based) and **removing dead and toxic foods**.
It is about switching from standard American diet to diet close to that used by people living in "Blue Zones" and staying healthy for much longer than average Americans.

It is about **removing mostly or completely:**

- all animal products (no meats, chicken, eggs, dairy)
- all highly processed products (sugars, sodas, oils, etc.).

The most difficult for me was
removing milk and cheese.

The strangest for me was removing oils.
Yes, no oil, not even olive oil, etc.

Good foods are greens, beans, berries, vegetables, nuts and seeds, rice, oats, buckwheat, etc.

There are many scientists describing how to live this way.

Main famous names:

- Dr. John McDougall
- Dr. Joel Fuhrman
- Dr. Caldwell Esselstyn - and his son Rip Esselstyn
- Dr. Michael Greger
- Dr. Neal Barnard
- Dr. Dean Ornish
- Dr. Robert Lustig

You can find their lectures and interviews on youtube.

There are also many books by those authors.

Many websites and communities joining people.

Also there are great documentaries (look at Netflix and Google):

Forks Over Knives (2011) - <https://www.forksoverknives.com/>, also on youtube

What The Health (2017) - <https://www.youtube.com/watch?v=KPD1oIKnnjs>

The Human Longevity Project (2018) - <https://humanlongevityfilm.com/>, also on youtube

The Game Changers (2019) - <https://www.youtube.com/watch?v=ove9b16OeR4>

etc.

Here is a short list of most effective things people do to lose weight:

- keep insulin low
- remove some "dead or toxic" foods, increase amounts of fresh nutritious whole foods

1. no sugar and no flour – only whole natural foods.

Avoid all sweet taste (no sugar, no juices or sodas, etc.).

Avoid all flour-containing foods (no bread, pasta, chips, etc.)

Avoid all highly-processed food, "empty" calories, fatty foods and oils. Yes, not even olive oil in salad

2. intermitting fasting.

Eat 1-3 times/day – and avoid snacking between meals to give time to allow insulin to go down.

Make longer fasting periods every day (12-16 hrs) to allow body to burn fat.

Example: 8/16 (eat in a 8 hrs window, fast in 16 hrs window), for example, skip breakfast, start eating in the afternoon

Example: eat one time a day (~ 23 hrs fast daily)

Example: skip a day completely (7pm Monday -> 11am Wed = 40 hrs fast).

Example: skip 3 days/week completely (Tuesday, Thursday, Saturday) – and do 8/16 on other days.

3. Eat lots of greens, vegetables, beans, fruits & berries.

Eat mostly Low-Calorie-Density natural foods (vegetables and fruits, fresh or minimally processed).

You may have huge meals - and still lose weight very fast.

Example: 1000 calories = 9 lbs of raw lettuce salad or spinach or other green leaves or cabbage or cauliflower,
or 6 lbs of raw broccoli
or 5 lbs of carrots,
or 4 lbs of apples.

Attention – do not use oily dressing, because it can easily quadruple calories.

4. Reduce (or completely eliminate) animal products and oils

no meat, no chicken, no eggs, no dairy: no milk, no cheese, etc
and no oils (not even olive oil)

My son's intermitting fasting protocol:

- eat a bowl of lentil soup in the morning
- Vitamin B12 – 1 tab 2,000 mcgr/week

Notes:

- losing weight on **"will power" doesn't work long term**
 - **"eat less, exercise more" formula doesn't work long term:**
 - eating less - causes metabolism slowdown and doesn't work long term for 95% of people
But ... **intermittent fasting does NOT cause metabolism slowdown**
 - exercise - contributes less than 5% (if any) if you consider long term
 - **eat lots of vegetables.** Find a way to add a big serving of salad / vegetables to each meal.
You can eat lots of cabbage, spinach, etc.
 - **you don't need extra protein from meat**, etc. You get it from vegetables and beans.
 - **you don't need milk for calcium.** In fact you should stay off milk products (or use only goat or sheep milk).
 - **you don't need vitamin pills** – you will get everything from food.
(you do need some sun for vitamin D, and you need vitamin B12 supplements)
 - **eating snacks between meals is bad.** You should eat at maximum 3 times per day.
Snacks are more harmful than eating big meals.
It is very important to **avoid snacking between meals** - to allow insulin levels to decrease.
 - <https://intensivedietarymanagement.com/perils-snacking-hormonal-obesity-xiii/>
 - **intermittent fasting** works (make long pauses between meals)
intermittent fasting does NOT cause metabolic slowdown.
It doesn't make you hungry. You feel energetic, alert, and focused.
 - Note (important!) - **the world record in long fasting is 382 days !**
 - <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2495396/> -
 - <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2495396/pdf/postmedj00315-0056.pdf> -
- You **need to have long periods of not-eating** to allow body to lose weight.
Recommended lengths of regular fasting are anywhere between 12 hours to several days.
- <https://intensivedietarymanagement.com/fasting-regimens-part-6/> -
 - <https://intensivedietarymanagement.com/longer-fasting-regimens-part-7/> -



Notes:

- damaged metabolism (even type-2 diabetes) **can be reversed in just 2 weeks** using natural eating (no sugar, no flower, etc. - only natural foods) plus some fasting
- **removing stress** and oscillating between activity and **rest is very important**
- **inner work**

I took the course "**Bright Line Healing**", which is associated with "**Bright Line Eating**".
Basic approach - remove judgement and shame, love yourself unconditionally as you are.

Talk to your compulsion as it is a small child inside of you.
No accusations, no blame, no guilt, no war.
Instead - love, care, game, humor, patience.

Awareness, surrender, forgiveness, connection.
This is best explained by **Mary O'Malley**
Search for her on youtube and on amazon

What am I doing ?

I removed sugar almost completely (and removed all sweet taste).
I removed bread, pasta, and all other products made of flour.
I try to eat mostly Low-Calorie-Density foods (salads, vegetables)
I try to reduce amount of High-Calorie-Density foods (oils, cheese, nuts, raisins, etc.)
I try to reduce portions at night.
I weigh myself daily and keep records with phone app "**MyFitnessPal**",
this helps me to keep track and make adjustments.



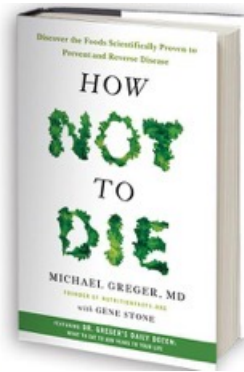
Here are the top links describing the methods I am using:

- Youtube – “**NutritionFacts.org**” - Dr. Michael Greger, books "How Not to Die", "How Not to Diet", etc.
- Youtube – “**Mic the Vegan**”
- Youtube - “**Dr. Jason Fung**”
- <https://www.drmcDougall.com> - (book “The Starch Solution” - by John McDougall (vegetables and starches))
- <https://thefastingmethod.com/blog/> - (Jason Fung – books ("Obesity Code", etc.), youtube)
- <http://www.leangains.com> - (intermittent fasting)
- <http://www.eatstopeat.com> - (intermittent fasting)
- <http://www.ariwhitten.com> - (weight loss and energy)
- <https://brightlineeating.com/> - (Susan Peirce Thompson - book and BLE program)
- <http://www.maryomalley.com> - (about loving and accepting yourself)
- <https://bluezones.com> - eye-opening wisdom from Earth longest-living people (book “Blue Zones Solution”)
- <https://www.youtube.com/watch?v=0CdwWliv7Hg> - Jeff Novick - Calorie Density
- <https://www.youtube.com/watch?v=B6fcMML8-6Q> - PTs about - Calorie Density
- <https://www.youtube.com/watch?v=6PKJ1MO-LNQ> - What The Health Documentary 2017

Dr. Greger's "Daily Dozen" checklist.

What to eat every day.

How not to die.



2018:

- <https://www.youtube.com/watch?v=MqmSMunAtss>
- <https://www.youtube.com/watch?v=g0UmVKA-4F8>

Updated 2020:

- https://www.youtube.com/watch?v=MXx14Fu_UYc

Daily Dozen Challenge:

- <https://nutritionfacts.org/daily-dozen-challenge/>

Dr. Greger's Daily Dozen NutritionFacts.org

Everything we should ideally strive to fit into our daily routine for optimal health and longevity.

BEANS <small>✓✓✓</small> Servings: 3 per day ≈ 130g cooked beans, 60g hummus	BERRIES <small>✓</small> Servings: 1 per day ≈ 60g fresh ≈ frozen, 40g dried
FRUITS <small>✓✓✓</small> Servings: 3 per day ≈ 1 medium fruit, 40g dried fruit	CRUCIFEROUS <small>✓</small> Servings: 1 per day ≈ 30-80g chopped, 1 tbs horseradish
GREENS <small>✓✓</small> Servings: 2 per day ≈ 60g raw, 90g cooked	VEGETABLES <small>✓✓</small> Servings: 2 per day ≈ 50g nonleafy vegetables
FLAXSEED <small>✓</small> Servings: 1 per day ≈ 1 tablespoon ground	NUTS <small>✓</small> Servings: 1 per day ≈ 30g nuts, 2 tbs nut butter
GRAINS <small>✓✓✓</small> Servings: 3 per day ≈ 100g hot cereal, 1 slice of bread	SPICES <small>✓</small> Servings: 1 per day ≈ ¼ teaspoon turmeric
EXERCISE <small>✓</small> Once per day ≈ 90 min. moderate ≈ 40 min. vigorous	BEVERAGES <small>✓✓✓</small> Servings: 1750ml per day ≈ water, green tea, hibiscus tea

Download Dr. Greger's Daily Dozen app and start tracking your daily servings right now.

Google play App Store

Don't forget about these two essential vitamins:

VITAMIN B12 <small>✓</small> 2500 mcg cyanocobalamin once a week	VITAMIN D <small>✓</small> For those getting inadequate sun 2000 IUs of D3 a day
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Connect with us!

How 500 cal look like

5 apples

6 eggs

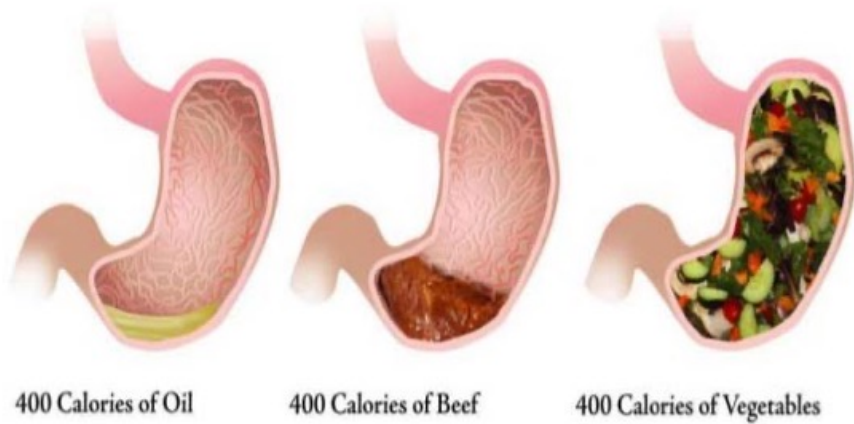
120 grams of cheese

24 grams of butter

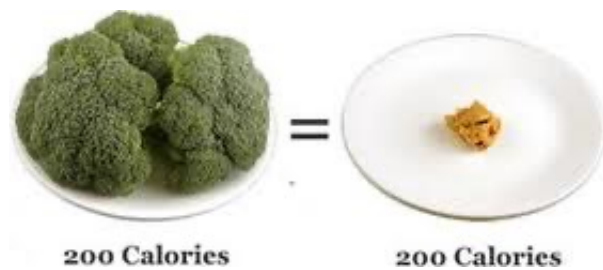
4 strips of bacon



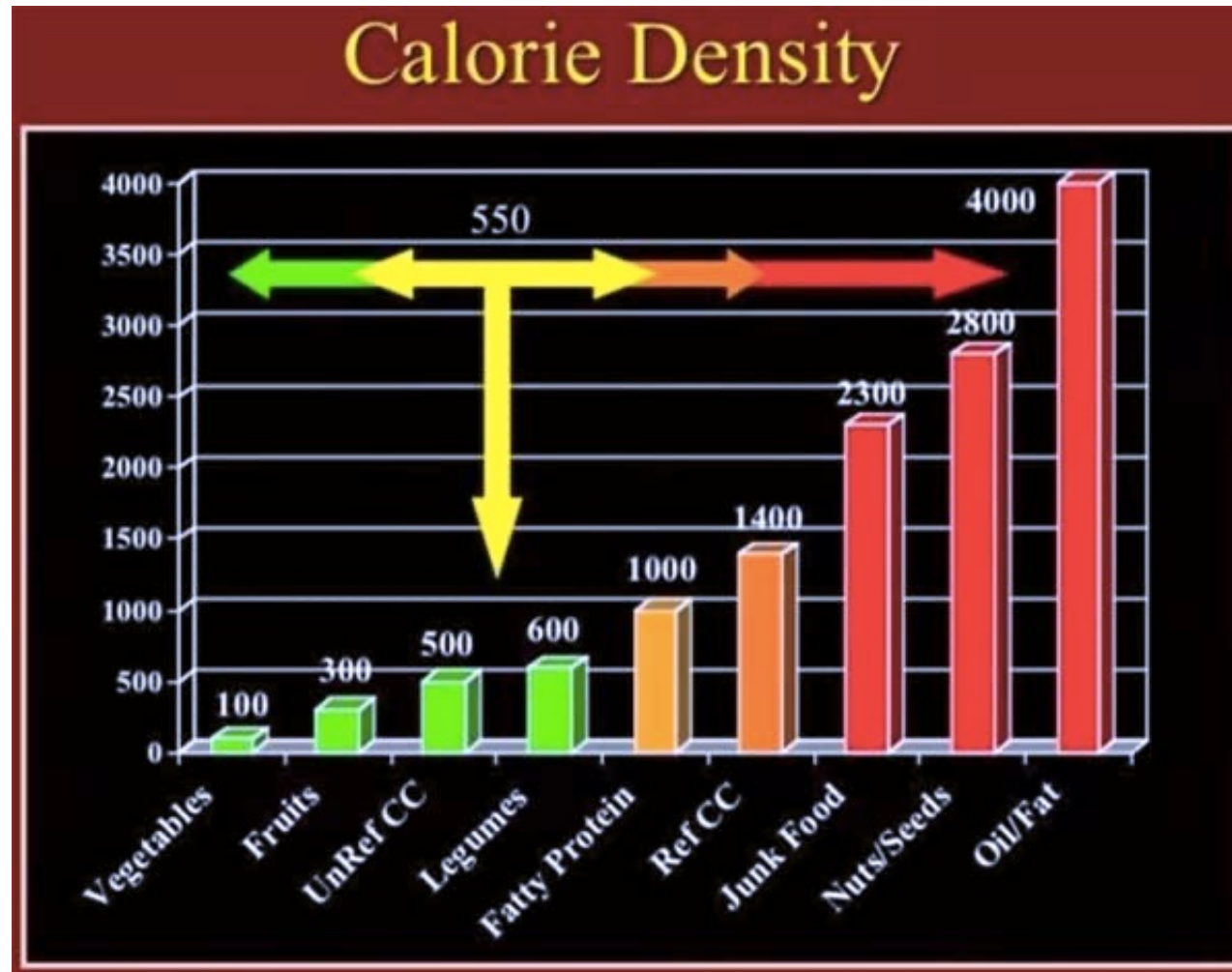
Relationship Between Calorie Density & Satiety



8 Dorito chips (100 calories) or 25 medium strawberries (100 calories)



From Jeff Novick



Healthy

Unhealthy

Okinawa Diet

- https://en.wikipedia.org/wiki/Okinawa_diet

Okinawa is one of “**Blue Zones**” – famous places with highest concentration of healthy 100+ year old people.

People from the Ryukyu Islands (of which Okinawa is the largest) have a life expectancy among the highest in the world.

Also they have low mortality from cardiovascular disease and certain types of cancers. Compared age-adjusted mortality of Okinawans versus Americans (1995) average Okinawan was:

- 8 times less likely to die from coronary heart disease,
- 7 times less likely to die from prostate cancer,
- 6.5 times less likely to die from breast cancer,
- and 2.5 times less likely to die from colon cancer

Recently numbers got worse because young people shift to Western diet.



What is the magic of the “old diet”?

In short, the Okinawans circa 1950 ate mostly sweet potatoes, with some rice, legumes, and other grains.

Of the 1262 grams of food per day:

- 849-sweet potato,
- 154-rice,
- 71-legumes,
- 38-grains,
- 150-everything else

Comparing to other Japanese, Okinawans consumed fewer total calories, less polyunsaturated fat, less rice, significantly less wheat, barley and other grains, less sugars, more legumes, significantly less fish, significantly less meat and poultry, less eggs and dairy, **much more sweet potatoes**, less other potatoes, less fruit, and no pickled vegetables (0g vs. 42g). [4]

Support Groups

Some people achieve good results using **support groups**.

If you want to be a part of some program, I highly recommend Susan Peirce's program "Bright Line Eating" (BLE).

It grew from Food Addicts Anonymous (FAA) 12-step program, but it is more flexible, scientific, provides support via internet, and at this point in time it is the most effective program in existence:

- <https://brightlineeating.com/>

You can buy Susan's books on amazon.
Also subscribe to her weekly video (vlog).
And check out her youtube videos.

About 12-step programs - there are many of them, for example:

- 1939 – Alcoholics Anonymous (AA)
- 1960 – Overeaters Anonymous (OA)
 - Food Addicts Anonymous (FAA) (1987)
 - Anorexics and Bulimics Anonymous (ABA) (1993)
 - Compulsive Eaters Anonymous-HOW (CEA-HOW) (1996)
 - Food Addicts in Recovery Anonymous (FA) (1998)
 - Eating Disorders Anonymous (EDA) (2000)
 - GreySheeters Anonymous (GSA)
 - Recovery From Food Addiction, Inc. (RFA)
 - Food Compulsions Anonymous (FCA)

The 12-step groups work well for some people because they provide personal support which is very important for people who are high on susceptibility scale (a.k.a. food addicts).

Note that results will depend on specific group. You need a group where people achieve results. If people just meet to wine and complain - this will not be effective.

Also you need a group where people use modern scientific-based approach.

How to eat at different places:

- Chinese – “Buddha's Delight” – steamed vegetables, no oil, with sauce on the side + rice + tofu
- - <http://www.eatthis.com/8-diet-experts-order-chinese-restaurants>
- McDonalds - Basic Side Salad, Fruit (Apple Slices and Cuties), Fruit & Maple Oatmeal
- Generic restaurant - ask to make a plate of greens, vegetables, berries, and fruits, no oil, no dressing
- Mexican restaurants – I usually order salad without dressing, salsa without chips, coffee, some fruits or berries for dessert
- Coffee shops – I take 1-shot espresso + oat or soy milk + cold water

Calories in Coffee (8oz - small):

- Cappuccino with half & half – 330
- Cappuccino with whole milk – 113
- Latte with 2% milk – 95
- Americano – 8

Calories in some products:

- Hazelnuts (12) – 100
- brazil nut (1) - 33
- Raisins (50) - 80
- Apple or similar size fruit (1 medium) - 90
- Potato (1 medium) - 160
- banana (1 medium) - 105

More links:

- <https://www.veghealth.com> - Discover How to Thrive on a Vegetarian Diet
- <https://youtu.be/LkXwfTsqQgQ> - muscles matter
- <https://youtu.be/0z03xkwFbw4> - custom diets for different people (depends on microbiome)
- <http://www.npr.org/sections/thesalt/2015/04/11/398325030/eating-to-break-100-longevity-diet-tips-from-the-blue-zones> - from the book “[The Blue Zones Solution](#)” by Dan Buettner, National Geographic explorer
 - Stop eating when your stomach is 80 percent full to avoid weight gain
 - Eat the smallest meal of the day in the late afternoon or evening
 - Eat mostly plants, especially beans.
 - Eat meat rarely (once a week, small portion of 3 to 4 ounces)
 - Drink alcohol moderately and regularly, i.e. 1-2 glasses a day.

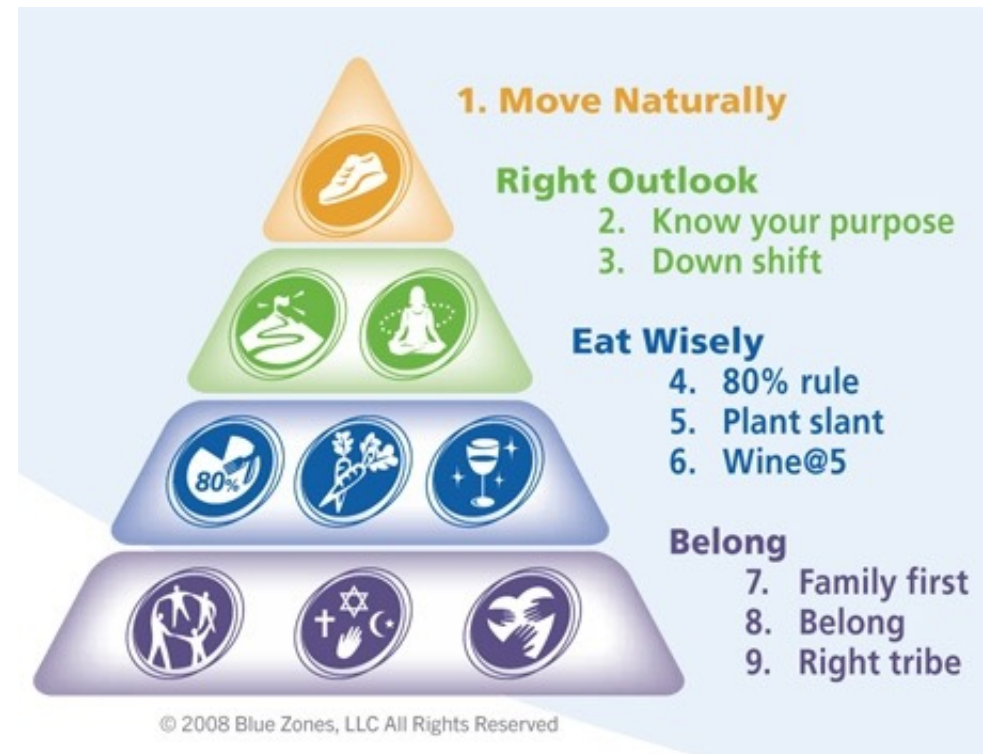
Five Blue Zones:

- **Ikaria, Greece** - potatoes, goat's milk, honey, legumes (especially garbanzo beans, black-eyed peas, and lentils), wild greens, some fruit and relatively small amounts of fish, feta cheese, lemons and herbs like sage and marjoram. Rarely goat meat
- **Okinawa, Japan** - seaweed, turmeric and sweet potato, bitter melons, tofu, garlic, brown rice, green tea and shitake mushrooms.
- **Sardinia, Italy** - goat's milk and sheep's cheese, flat bread, sourdough bread and barley, plenty of fennel, fava beans, chickpeas, tomatoes, almonds, milk thistle tea and wine from Grenache grapes.
- **Loma Linda, Calif** - Seventh-day Adventists - mostly plant-based diet (grains, fruits, nuts and vegetables, and drink only water. Some of them eat small amounts of meat and fish.) Sugar is taboo. Their top foods include avocados, salmon, nuts, beans, oatmeal, whole wheat bread and soy milk. Pesco-vegetarians in the community, who ate a plant-based diet with up to one serving of fish a day, lived longer than vegan Adventists
- **Nicoya Peninsula, Costa Rica** - beans, corn and squash. papayas, yams, bananas and peach palms (fruit).

Blue Zones – 9 principles.

People who live in a Blue Zone have nine characteristics in common. For the Blue Zones Project, these are called "Power 9 Principles."

1. **Move naturally** - Get more physically active by walking in the community, do manual labor around the house and yard, and grow gardens.
2. **Know your purpose** - People who know why they get up in the morning live up to seven years longer than those who don't.
3. **Down shift** - To reverse inflammation related to every major age-related disease, find time each day to meditate, nap, pray or enjoy a happy hour.
4. **80 percent rule** - It takes the stomach 20 minutes to tell the brain it is full, causing most people to accidentally overeat. Stop eating when 80 percent full.
5. **Plant slant** - Eat a mostly plant-based diet heavy on beans, nuts and green plants. This is consistent with U.S. Department of Agriculture recommendations.
6. **Wine at 5** - For those who have a healthy relationship with alcohol, 1-2 glasses of wine daily can add years to a life, especially when combined with a healthy diet.
7. **Family first** - Living in a thriving family is worth six extra years of life expectancy.
8. **Belong** - Recommit, reconnect or explore a faith-based community. No matter which faith, studies show that people who show up to their faith community four times a month live an extra four to 14 years.
9. **Right tribe** - Friends have a long-term impact on well-being. Expand a social circle to include healthy-minded, supportive people. This could be the most powerful way to add years to a life.



Plant Based Keto Diet

**A friend of mine used this diet to lose 140 lbs in 1 year.
It is healthy and easy to follow.**

A **Plant Keto Diet** is a very good, easy to follow and healthy way of eating which makes it easy to lose weight and maintain weight while being healthy.

Ketones are produced when your body breaks down fat.

The main idea of this diet is to avoid glucose (sweet taste, glycogen), thus forcing body to start using its own fat as energy source.

It is similar to Atkin's diet, but without meat.

You eat mostly plant foods (and some fish).

- No meat, chicken, eggs, all milk products
- No sweet taste, no sugar/glycogen rich products
- No bread/wheat, rice, oats, grains (quinoa, buckweat, Amaranth, cereals, ...)
- No starchy vegetables (potato, yams, carrots, squash,, ...)
- No fruits
- No beans and lentils, no tempeh, no soy, no tofu, no edamame
- No peanuts or peanut butter
- No nutritional yeast
- No Vegan Feta (it has carbs)

Also:

- Reduce salt, no soy sauce, ...
- Use coconut oil, avocado oil, walnut oil, flaxseed oil
- use grill instead of frying, do not fry on olive or sunflower oil

Good to eat:

Start day with water with lemon, drink lots of water during the day, clean your body with green juices, make your body more alkaline

- lots of greens: celery, lettuce, mustard greens, spinach, kale (chips), cucumbers, tomatoes
- avocado, lemon
- seeds and nuts (soak in water over-night), chia seeds, hemp seeds
- string beans (steamed), peppers, cruciferous vegetables (radish, Kale, cabbage, Brussels sprouts, black radish, daikon (long radish), sprouts, asparagus, broccoli, garlic, onion, oca, lemon, beets (raw), zucchini, bok choy, (eggplant + nuts)
- fish oil (1-2 spoons/day)
- black seed oil (1-2 tea spoon/day)
- spices: black pepper, turmeric, lemon
- green juices, smoothy with nuts, almond milk
- B12 - 2,000 mcgr/week
- multivitamins (A, E, D, B)
<https://www.amazon.com/NOW-His-Vita/dp/B0063G0PWI/>
- sesame seeds, tahini
- some watermelon, blueberries, strawberries



NOW Foods - ADAM
Superior Men's Multi
180 Softgels

Move.

Move every 20 minutes.

Use treadmill desk.

Walk/run/play, play outside.

30-90 min/day.

The more – the better.

Here are some links about exercising:

Flexibility - Tom Merrick

- <https://youtu.be/hoQbrx955-8>

- <https://www.youtube.com/watch?v=QT4hvcIjKtc>

Flexibility - Emmet Louis

- <https://www.youtube.com/watch?v=askyPISMogs>

- <https://www.youtube.com/watch?v=3HVSDRjOHqU>

- <https://www.youtube.com/watch?v=2KDjdDfaEHM>

Strength max load (1-4 reps, 4 sets/day):

- <https://www.youtube.com/watch?v=q0bo-kDHT7Y>

Strength – endurance (more pullups)

(3 variations, 3 sets each – 9 sets total at ~70% of max

or go to max. number of sets. At the end – hold and slow release):

- <https://www.youtube.com/watch?v=gROqn53az2g>

- https://www.youtube.com/watch?v=nj_bOz2aigQ

- <https://www.youtube.com/watch?v=NnN8ksvVRIQ>

Yoga - yogaglo: <https://www.youtube.com/user/yogaglo>

Yoga for surfers (17 min): <https://www.youtube.com/watch?v=oX6l6vs1EFs>

Yoga with Adriene: <https://www.youtube.com/watch?v=v7AYKMP6rOE>



Burning Calories

We know that **exercises** don't contribute much to weight loss **long term**.
The "**burning stove**" theory doesn't work **long term**.

But when people want to lose weight fast, they love to count calories.
So here are some numbers.

Note - if you don't sleep enough, or under stress, or eat very unhealthily, these numbers will not work.

Note:

1. Speed of losing weight is SLOW (unless you do something heroic)
2. Speed mostly depends on total caloric intake.
Exercising can help, but eating contributes more.
You can easily "out-eat" any exercise.

How many calories you burn without exercise?

Suppose your weight = 222 lbs,
and your LBW = 140 lbs (Lean Body Weight = weight without excess fat).
Your Basal Metabolism ~1700 Kcal/day.

- http://www.bodybuilding.com/fun/bmr_calculator.htm

LBW for 140 lbs : 1500 Kcal

LBW for 233 lbs : 2100 Kcal

1 lb of fat = 3500 Kcal

So a caloric deficit 500/day = 3500/wk = 1 lb/wk weight loss.

This caloric deficit may be achieved by **eating less & exercising more**

1 hr of exercising burns 300..500K (+200 after-burn).

So 1hr in gym EVERY DAY burns ~500/day, or 1 lb/wk.

Exercising 1 hr 3 times per week will cause ~0.5 lbs/wk loss.

Daily Food (Kcals)	Daily Exercise (hours)	Weekly weight loss (lbs)	(monthly)
1700	0	0	(0/mo)
1200	0	1	(4/mo)
800	0	2	(8/mo)
800	0.5	2.5	(10/mo) gym 3/week
800	1	3	(12/mo) gym daily
800	2	4	(16/mo) hero
800	3	5	(20/mo) super-hero

By being really consistent with the plan, and by doing some extra fasting or exercises, you can reasonably lose ~10 lbs/month.

When you start (your first month) - you will lose more, but then it slows down.

It is important to find what you like to do and can do LONG TERM.

For example walking (100 KCal/mile), running (150 KCal/mile), ...

Eating is still the most important factor.

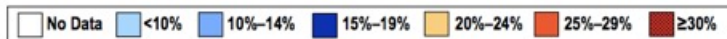
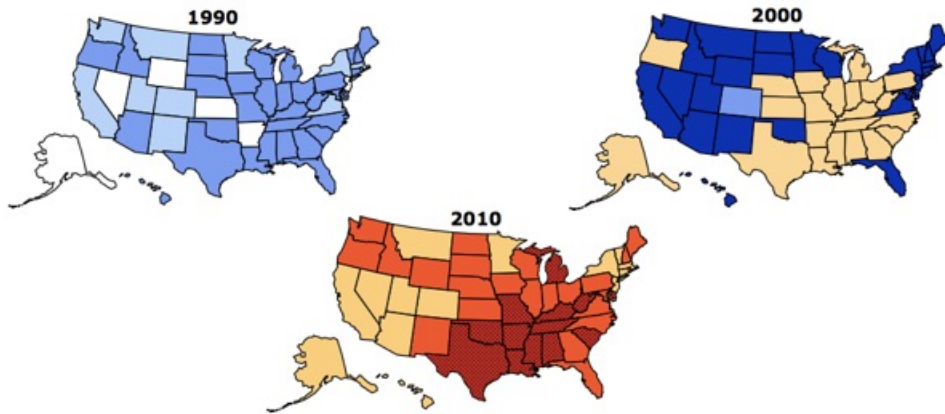
For example, you can sweat for an hour in the gym, burn 500 Kcal, and then out-eat your workout by eating just one burger (560 Kcal).

Obesity Epidemic in USA

Dramatic changes in last 30 years

Obesity Trends* Among U.S. Adults BRFSS, 1990, 2000, 2010

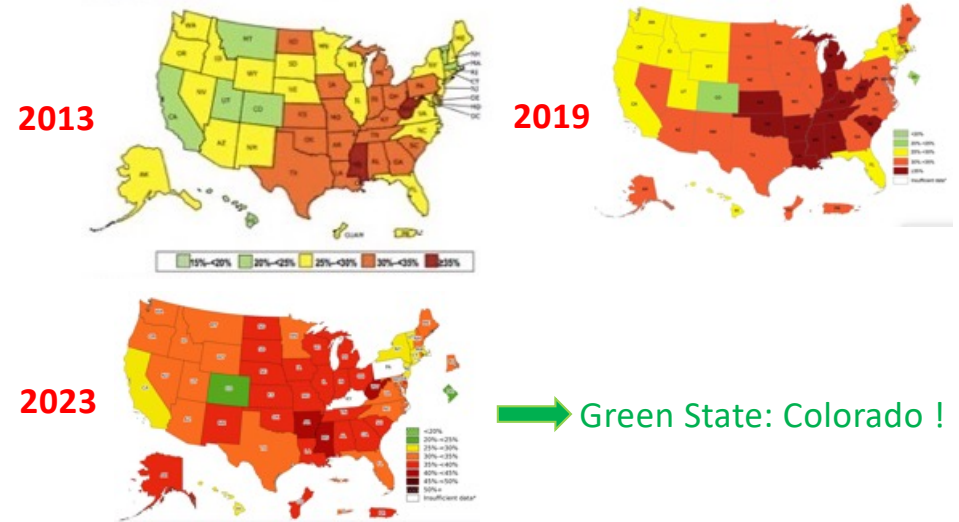
(*BMI ≥ 30 , or about 30 lbs. overweight for 5' 4" person)



Source: Behavioral Risk Factor Surveillance System, CDC.



New maps (CDC changed methods in 2011)



Official CDC data and maps:

- <https://www.cdc.gov/obesity/data/prevalence-maps.html>
- <https://www.cdc.gov/obesity/data-and-statistics/adult-obesity-prevalence-maps.html>

Motivation – and TV Lies

Search youtube for phrases like "lost 100 lbs", "lost 400 lbs", "lost 800 lbs", etc.

You will find multiple examples.

What you will learn from these stories:

- People gained weight mostly because they have used food to distract themselves from some sort of pain (stress, emotional problems, etc.)
- They were eating junk (sugar and flour based foods and drinks).
- There is no magic in what people were doing to lose weight: **diet and exercise**.
- People have used different regimens, and it was mostly simply based on will power and discipline.
- But most of these regimens are not designed for long-term maintenance. Thus **you should NOT use them as role models**.
- TV mostly concentrates on drama, emotions, and amazing stories of fast and dramatic fat loss. (20-30 lbs/month, 100..500 lbs loss). But the winners of those shows ("The Biggest Loser", "Extreme Weight Loss", etc.) frequently gain their weight back. Because they lost weight not by creating new good effective habits, but by using will power, which never works long term.
- - <https://healthyeater.com/biggest-loser-then-now> -
- - <http://www.dailymail.co.uk/femail/article-2927207/We-fat-Former-Biggest-Loser-contestants-admit-controversial-regained-weight-endure-lasting-health-issues.html> -
- "We are all fat again ..." <https://www.youtube.com/watch?v=DTlvDMBDIxQ> - **David Smith** (trainer Chris Powell)
- The methods used on those TV shows are not healthy (LiveScience.com):
"... physicians and nutritionists worry the (Biggest Loser) show's focus on competitive weight loss is, at best, counterproductive and, at worst, dangerous".
Contestants on the show lose upwards of 10 pounds per week
(... some contestants have lost 20–30+ pounds in that one week alone)

David Smith's story:

650 lbs

>> lost more than 400 lbs

>> gained a lot back



Some Final Thoughts

Eating in modern society is like walking across a minefield.

Probably 90% of foods which are being sold in supermarkets are not good for you.



If you will be doing what is considered "normal" - you will get fat and sick like the rest of Americans.

To stay healthy (and lean) you must do something different from what is considered "normal".



Food Addiction is Real

Food Addictions can be as strong as drug addiction or alcoholism – as was proven by multiple scientific studies.



Some foods (like sugar or flour) are extremely potent at promoting FA (Food Addiction) and changing brain chemistry (down-regulation of dopamine receptors).



Every year more than 100,000 people in America **lose their limbs or go blind** because of type 2 diabetes. Which could've been prevented and cured in few weeks by simply changing their eating habits. But those people struggled and failed to do this.