

Blueberries in My Salad

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Chapter 1

Preface

This is neither a book on salads, nor a commentary on life. What it is, is a journal of experiences that my wife and me had in our journey towards being fit and strong. Like a salad, day to day life may not be the most appealing lunch option, but just like a good salad if you can keep finding the blueberries every now and again, it is both rewarding and fulfilling. The small and big milestones we achieved during our journey kept us going, just like the blueberries in our salad.

I wanted to write a book documenting our (would be more appropriate to say my) fat to fit journey on a day to day or at least a week by week basis. As things progressed, and I looked around, I realized that we were probably the million'th couple in the world doing this and the Internet was filled with blogs and YouTube videos that document in great detail very successful, inspiring and transformational stories. Why was I wanting to reinvent the wheel by writing our story on the same lines? I realized that while a daily or weekly journal was not something I could do but definitely there were "topics" on which I would like to pen down my thoughts. For example, the most often asked question, "What diet are we following?", "Do I really need a trainer?", "Just tell me how long would it take to lose 10 pounds" and so on. Therefore I decided to write this book as a collection of essays on these and other related topics.

It has been more than 6 months since we started this journey and I feel that we have learnt so much that it is important to document this first and foremost for our own selves and then also for anyone who might be interested (I hope someone is). After all, it is one thing to see someone famous transform and another thing to see someone you know or could relate to (middle aged Punjabi

NRI couple anyone?) do the same and then realize “If they could do it, so can I”.

We took daily measurements for our weight and other biometrics and they were automatically synced via an app on our phone. This is huge, daily tracking enables, even forces, conversations around progress (or lack thereof) towards your targets. It keeps you honest and on track. What it also enables is to see the big picture over time, such as are you slowing down, do you need to make adjustments to your routine, how much that elaborate weekend dinner set you back? For me personally, as a data scientist it was fascinating to collect the raw data, find patterns, gain insights and also get some forecasts done (when would we reach our target weight?).

Over time I understood that while the desire for weight loss was what got me here, but what I was really gaining was good health and strength. One can lose weight by falling sick, we know that is not healthy. Weight loss should not be the only goal. To reduce the benefits of what we were doing to just burning calories and losing tens of pounds now seems like a terrible underselling of the idea of fitness. The human body is a fascinating machine capable of wonderful things, good health is a state of both mind and body. Exercise and healthy eating habits help both mind and body. If you do not have any serious health issues there isn't really any excuse for not exercising regularly and eating healthy. As it is said **शरीरमादौ खलु धर्मसाधनम्**, loosely translated it means that the body is the source of all good deeds.

Finally, nothing in this book should be interpreted as me recommending anything, a written version of my musings is what this is. An experiment with a sample size of N=2 i.e. statistically irrelevant! In case it still needs to be said, here it is: **Do not take anything that you read in this book as medical advice. Always consult your doctor before starting any diet or exercise program..**

1.1 Acknowledgements

I have been wanting to write a book for a long time and this activity with clean eating and exercise, that has helped us improve our quality of life, provided me the impetus to finally put my thoughts on (the virtual) paper.

This would not have been possible without my wife Nidhi, who was not only an equal partner in this journey but was also the head chef to prepare all the tasty & nutritious food, the assistant coach who kept an eagle eye on my forms during the exercise and also the one who kept on encouraging me to keep writing. She

is also the proof reader for this book, although any mistakes and omissions are mine alone.

A huge thank you is due to our wonderful trainer and friend, Dawn Kirk. Thank you Dawn for persisting and persevering with us. I wish everyone has the good fortune to have a trainer like you.

Finally, this book is dedicated to my guardian angels, my grand parents. I know they watch over me.

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Chapter 2

How it began . . .

I remember the first time some 15 years ago when a colleague at work introduced me to the burrito, and delicious as it was, I barely managed to finish it. Same with the foot-long. It was just too much food, more than what I needed to eat for lunch. Over the years I got more used to it and what used to be a huge portion size once, was just very normal now. What was almost a culture shock many years ago, was just routine now. It should not have been.

About 3 years ago i.e. in the spring of 2017, I decided to go to the doctor and ask why do I wake up with severe dry mouth every morning? I knew I was grossly over-weight and the dry mouth had started happening a few years ago and the two could be related. I kept ignoring it for years, but it has become bad enough that I sometimes used to wake up very early in the morning because of it and had to rinse my mouth to go back to sleep. The doctor's visit was an eye opener, he said it is most certainly because you are grossly over-weight (I weighed 273 pounds) but asked a few more questions which led him to believe I had all the symptoms of sleep apnea.

TL;DR I did a home sleep apnea test and the results were very damning, he said it was so bad that I should be at the stage of losing short term memory i.e. because the sleep is so disrupted because of lack of oxygen that the brain is not able to make new neural connections that it usually does when we are sleeping. This was happening when I had just joined a masters program in data science at Georgetown University and was now part time at school, 16 years after having completed my engineering degree. With my day job and school homework, my sleep time was anyway much reduced and not getting quality sleep was just bad in so many different ways.

2.1 My tryst with a protein based diet

Something had to be done. I got on a medically supervised weight loss program that used a ketogenic/protein meal replacement diet and I started sleeping with a CPAP (Continuous positive airway pressure therapy). I count those two decisions among the top 5 best decisions of all time I ever took in my life. I followed the diet very strictly, of course my dear wife Nidhi was with me in this and she did the diet as well. I started losing weight immediately, sleeping with the CPAP machine was what I would call a life changing experience. I no longer felt like dozing off while driving to college, even if I slept 5 hours (which was 4 days a week) I still woke up refreshed and did not experience the mid afternoon crash in energy. In a couple of months the weight loss, for both me and my wife, was very noticeable and friends and family started asking what were doing that was causing this transformation. Everyone is interested in the new diet that their friends are into (especially if they are getting thinner:)). Expected case of FOMO, I would say. In about 8 to 9 months, I had lost close to 70 pounds and my wife had lost close to 40 pounds, that is pretty drastic by any measure. It was effective, expensive and un-sustainable.

For about 10 months or so till I followed the diet, we were pretty strict about no or as little carbohydrates as possible, and ate a lot of those protein supplements (bars, shakes, snacks etc.). Then came the holiday season, new year parties and there it was, the dreaded phase where I thought ok we can get off this horse for a little bit and then get back on when this season is over. No prizes for guessing, it never happened. I still remember my weight had gone down to 202 pounds and I could see it rising back up, day after day. I thought OK, this is still less than 210, I can pull it back, no problem. Well, not really, soon it was past 210. I told myself, OK but it is not 220 yet, I can pull this back. Once it crossed the 230 pounds mark, I gave up trying.

I was able to graduate two years later (in 2019), my weight at 240 pounds and the CPAP machine by my bed every night. I did not even go for a weekend getaway without it. The dry mouth was getting back, not as bad though, but it was back, there was no missing it. The sleep was not as good. By end of 2019, I was 250 pounds, the CPAP machine was broken, my wardrobe almost completely redone because none of the clothes fit me anymore and I had given away all the clothes from 2017.

2.2 A new beginning

Cliched as it is, I made a new year resolution in Jan 2020, “I need to fix myself, this cannot continue”. Nidhi had also gained weight, not as much as me, but she gained 20 pounds out of the 40 she had lost. She had mentioned to me in December 2019 that there was this personal trainer who had dropped in to the Doctor’s office (I conveniently skipped to mention that Nidhi became a health coach and started volunteering in the Doctor’s office) and left her card if someone coming in for fitness training wanted to come for a trial class at her gym.

It is said, good things happen when the time is right (no one says that, I just made that one up :)). Nidhi left the trainer a message, and we did not hear back from her until a few days later when she said sure we could stop by her gym for a free class. There we were, on January 17th, 2020, in her gym, for what I did not know at the time would be the start of a new chapter in our life.

The gym itself was pretty unassuming, in an extended but disjoint part of her house. I did not think much of it, but little did I know what we were getting into. It needs to be said that prior to this I had never seen the inside of a gym in real life and my only window into how fitness equipment looks like and what trainers do was through films and TV, in other words, what I knew was far from reality. I remember asking before the training “So what do you think, how many calories would we burn during the workout today?” and the answer I got was “Oh I don’t know, we don’t count calories here :)”. “Ok, then” I remember saying to myself. The trainer seemed to be a pleasant person with an infectious smile, the training was good, tiring but not hard and I was like “OK, this isn’t too bad”. Later that evening, I felt a sharp pain in my neck, but I thought it is nothing. As the evening progressed, the pain increased. I barely got any sleep that night, even after putting some pain reliving ointments, the pain did not subside. It was the most physical pain I had endured in a long time. I even thought to myself, maybe I would need to put in a collar around my neck (I didn’t need to). It took a couple of days for the pain to go away completely. Thankfully, that was the only time I felt such pain in all the months now that we have been exercising. Was a good lesson for me right at the start, never be under any false sense of bravado while working out in the gym (or even otherwise :)).

We decided to enroll for two classes a week. Since we were just starting out and I needed individual attention, we decided why don’t we do a couples package where we would have classes for a month for just the two of us together. She also asked us to fill out a detailed log, as detailed as we could get, of everything we ate or drank for 3 consecutive days. It was not convenient but we scribbled

something and gave it to her in the next class. The trainer had a small book that she and her husband had written about her journey with what they called (don't know if it might be a standard term) "clean eating". There is a 30 day clean eating challenge in which you eat no processed food, no dairy, no pulses, no legumes, no hard drinks and no soft drinks either, only vegetables, fruits and meats are allowed. We decided to do the challenge and made a list of everything we thought we could eat during the challenge and got her to say Yay or Nay on each of those items. The list is in appendix A of this book. It had things commonly found in Indian kitchens like "spices", "herbs", different fruits etc. Now that I think about it, I am not sure what made me do the challenge, I just decided to do it just like I decided to workout in the gym twice a week, something that I had never done in almost my 41 years of life. When thoughts become deep, intentions become weak. So there we were, working out twice a week in the gym and decided to go for clean eating in a few weeks time.

What endeared me to the workout sessions was that after a few weeks I noticed both in myself and my wife there was an unmistakable feeling of joy/elation/happiness as we completed a hard training session in the gym. We did lose some pounds but nothing very noticeable. What attracted me to the clean eating was that I could identify with it, it did not claim any magic results, did not ask to give up on the basics i.e. vegetables/fruits/meat in fact it embraced these and only said do not eat processed food. This was the same guidance I had grown up with during my childhood, this was what my grandmother used to say as well, surely this could not go wrong. Surely nothing bad could happen by not eating cakes and cookies, not drinking soft drinks or hard drinks and just basically saying good bye to processed sugar. Made total sense.

So here we were, ready to start and reminding ourselves **that the only way to reach the finish line is to start....** My target was simple i.e. "not to be obese" as per the NIH guidelines¹, provided. I do not remember the time I was at 158 pounds, I just wanted to be 190 or less so that I would not be adding to the "obese" population of the planet. Nidhi on the other hand was reasonably fit and her goal was pretty close to the NIH guidelines. I had the motivation, the means and had made up my mind.

¹<https://www.nhlbi.nih.gov/health/educational/healthdisp/pdf/tipsheets/Are-You-at-a-Healthy-Weight.pdf>



Chapter 3

Clean Eating

Disclaimer: this is my interpretation of what I understood and did as part of clean eating. I am not aware if there is a standard definition for this and if there is one I do not wish to challenge whatever it is.

Clean eating is not a diet. This is the number one thing I find myself explaining to people when they say “you have lost so much, what diet are you following”. It is simply a decision of saying I am going to keep processed foods and sugars out of my body. Strictly speaking, only if you are eating something you have grown or you have hunted are you eating clean, but then let’s be real here, unless you are living on a farm, this is not feasible. The next best thing we could do is to keep processed food and especially processed sugars out of our body. I don’t need to say more on this except that there is tonnes of research available proving why processed food and refined sugars are just plain bad, do yourself a favor stay away from these.

Appendix A contains a checklist of what we confirmed with our trainer was allowed during clean eating. This is pretty exhaustive list. Before I get into the details of exactly what we ate, I would like to address something upfront. Is clean eating hard? Yes it is hard, but only to the extent of saying that nothing that is worthwhile is ever easy. Not being able to eat ice-creams (substitute with your favorite unhealthy snack) is hard, I am not going to lie, but then it is for a fixed period of time and also, nobody ever became unhealthy because they did not eat ice-cream. At the same time, clean eating is also not that hard when I compare it to other diets. The key difference is that you are not counting calories, counting calories is not sustainable, you cannot survive on a 1000 calories a day for long (several months maybe, can you do it for your whole

life). Think of it, if counting calories was the solution then some food company would have figured it out and the shelves would be full of some magic food.

The intent of clean eating is to reset your system, calibrate your taste buds so that they begin to appreciate the natural tastes of different foods. I would know because I am the person who back in India would go (every now and then) for a late evening after dinner ice-cream (a fruit salad Sunday to be precise) and then as if that was not sweet enough, go to a Kulfi¹ place right after that to top it off! 3 weeks into clean eating I found a papaya to be sweet, grapes to be just too sweet and eating an orange or two as a 4pm snack seemed just delightful.

Indulge me a little bit before we get into the details of breakfast/lunch/dinner. When we got married, we went to Europe for our honeymoon and one of the places we visited was the city of Nice in the south of France. Absolutely beautiful place, however, we did not quite develop an appreciation for the French food. We were looking for some Indian food or anything that had some spices and was not cold and bland (my apologies to anyone reading and thinking these folks don't know the first thing about French food). We found this Pakistani restaurant by the beach and were delighted to eat some Butter Chicken there. It was not hard to notice that we were from India because Nidhi was still wearing some distinctly Indian jewelry. The owner of the restaurant stopped by to talk to us and seeing we were Indian sat down for a conversation. He said, "you know, the French food is the best food in the world", we were listening but not quite agreeing, the butter chicken would not allow us. He continued "back home, we put so much spices in our food, cook it for so long that we never get to know what the ingredients actually tasted like...". Months of eating relatively clean (not strictly, I mean I do eat my ice-cream sometimes, I have had a pizza a few times), has made me realize that while I still cannot compare the taste of the Indian cooking with anything else, I do see the point of the natural taste of food. Our elder son likes a green chilly with his dinner, but the younger refuses to even recognize that "bitter" can also be a taste.

3.1 A clean breakfast

Breakfast was mostly eggs, in any form. Egg fry (cooked in Ghee or Kerrygold butter), omelette (sometimes with tiny pieces of bacon thrown in), boiled eggs, scrambled eggs, egg wrap or any other variation one can think of. Along with coffee (for me, I am a coffee person) or tea (Nidhi is a tea person) with almond

¹<https://en.wikipedia.org/wiki/Kulfi>

milk or an almond and coconut milk creamer. We used to think that removing dairy from our diet would be almost impossible, but surprisingly, that was one of the easiest things to do. Swapping whole milk with almond milk worked like a charm. I personally find the almond milk so light and have developed such a liking for it that I no longer feel like drinking regular milk at all. For the days we did not consume eggs, we had bananas or almond flour pan cakes. Another thing we really enjoyed for breakfast was frozen Acai bowl (you can get them at Costco, just don't eat the granola that comes along with it).

Here are some pictures. I would note that everyday the omelette may not have looked as good but was pretty close. It is real hard work to make breakfast this good everyday and the credit for this is one person's and one person's alone i.e. Nidhi :).



Figure 3.1: A clean breakfast

3.2 A lunch we really love

For lunch we used to have salads. I don't know about you but when I think of salads, I have two contrasting pictures in my head as reference (this is all prior to clean eating), one is a cold salad with raw vegetables and boiled eggs, along with some beans and chickpeas, maybe mushrooms as well and the other image is from a salad place like the one I visited often at Georgetown university, exquisite salads with all sorts of "woke" ingredients. The first one was something I just did not find palatable at all and the second one was what I would wait for the whole week so that I could eat it whenever I was at Georgetown for a class. Surely there was some middle ground here, I would think, and there is.

Costco has a bunch of good salad mixtures in their frozen section and they are all very good. We particularly liked the sweet kale salad. So we mixed the sweet kale, with additional ingredients such as spinach or other mixed greens and topped it with sunflower seeds, chia seeds, walnuts (sometimes cashews), some cranberries and my favorite, "blueberries". Used a home made dressing made of olive oil, lemon juice and herbs. Add a boiled egg, half an avocado and then either some grilled chicken or tuna. Some days we substituted chicken/tuna with grilled tofu. I am still surprised that even after more than 6 months of eating variants of it (keeping the base recipe the same) 4 to 5 times a week, we are still not bored of it, in fact we seem to like it as much as we liked it before. Each day, the salad tastes a little different and that keeps it interesting.

One of thoughts I had and I believe many people would have is that salad does not satiate me, it does not full me up. That is actually not true, or was not certainly true for me as I found out. Eating a bowl and a half of salad does indeed fill you up. As before, I still like a cup of hot coffee after lunch. What does happen is that after 2 to 3 hours I felt the need for a mid afternoon snack. Previously this could have been any unhealthy options like chips, cookies, a diet soda, even a chocolate bar, basically anything you would typically find in a vending machine. That had to go, for good.

3.3 The 4pm snack

A couple of small oranges at 4pm felt delightful. They tasted good, and the sugar content provides the boost the brain needs to shake off any mid afternoon lethargy or drowsiness. At times I also ate maybe 4 to 5 apricots, maybe an apple, or even some nuts such as walnuts/cashew nuts/almonds (not those packaged

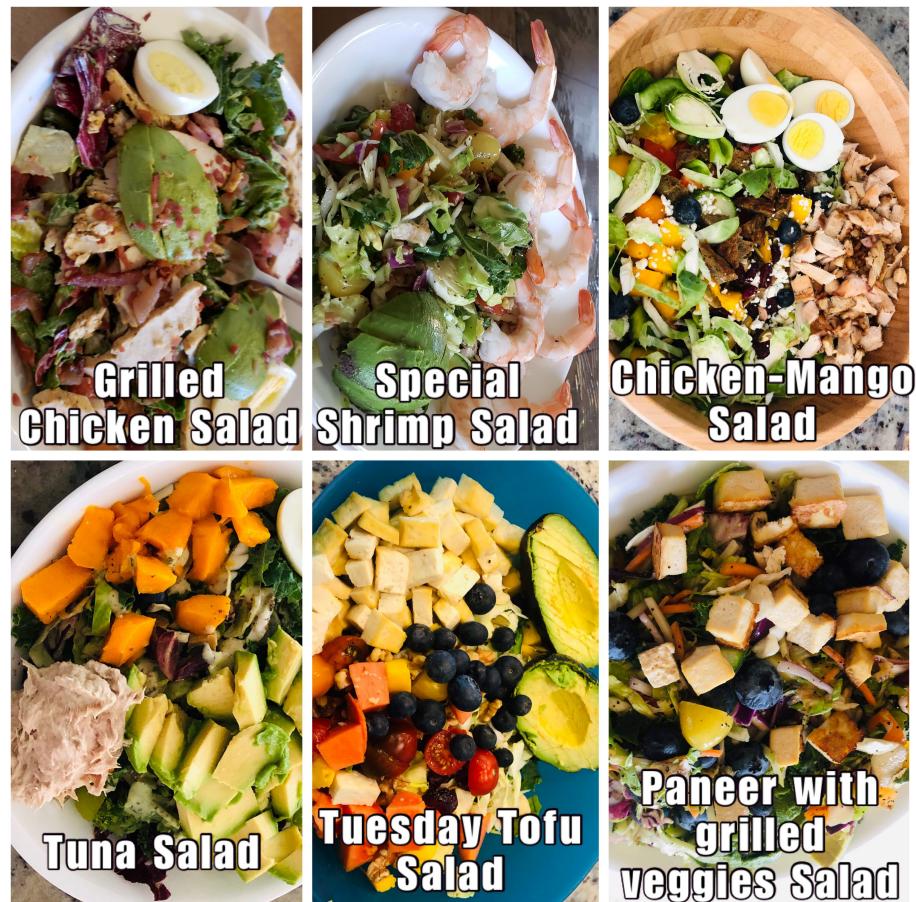


Figure 3.2: The lunch salad collection

snack pouches please, we want to stay away from any processed food, as much as possible).

I did not try this as much, but sometimes I did had a “tea” such as a earl gray or english breakfast, just a dip tea with hot water, no milk of any kind. It was nice, but me not being a tea person did not pursue it that much but it is certainly an option.

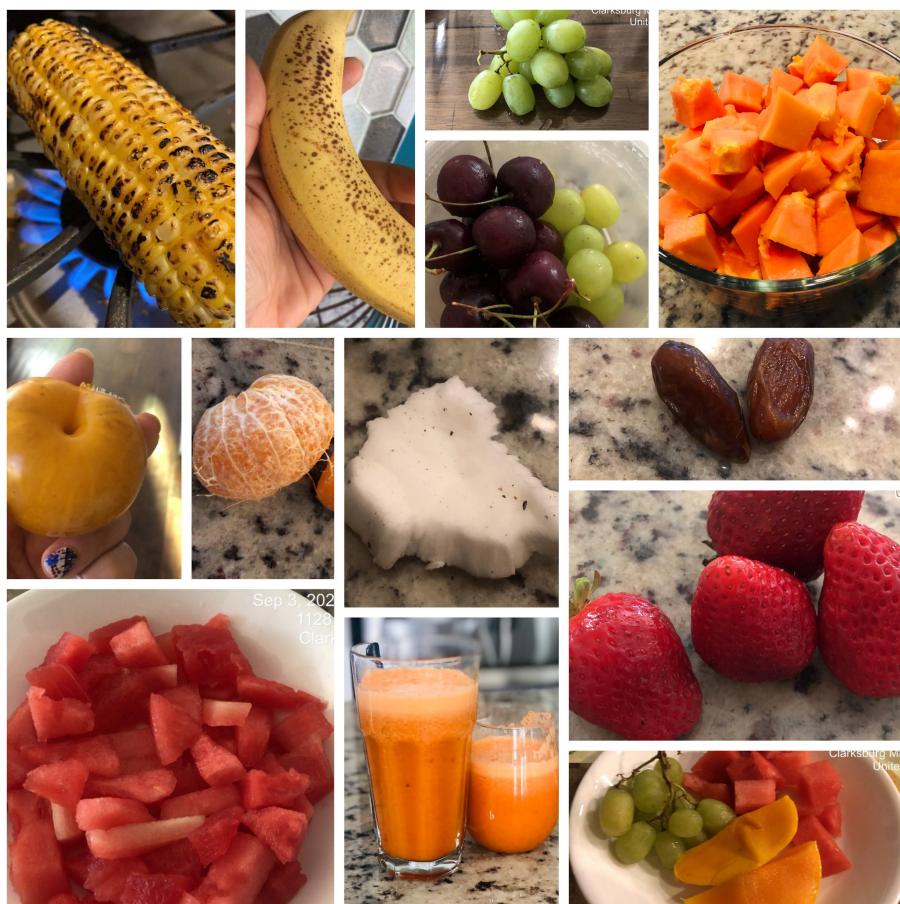


Figure 3.3: The 4pm snacks

3.4 The grand finale a.k.a the dinner

If you try to stick to this routine, you would naturally find that you want to have your dinner early. What is early? For me, growing up, dinner was never before 7.30pm and then later in life as I got caught up with studies and then later at work and other things, it could be at 8 or 9pm or even later. That is not good, in fact, I would now say that is just absolutely unacceptable.

Now we really make an effort to wrap up dinner by 7.30pm, maybe 8pm at the latest. I start feeling hungry around 6pm, so a dinner around 7pm seems like the perfect fit. Eating dinner early helps to naturally avoid the urge for mindless snacking. As one of the people I happen to meet over the years who was into eating healthy said “You are not a goat, you don’t have to keep munching all the time!”. One way to avoid munching all the time is to eat at fixed times and eat full meals so that you don’t feel hungry anymore. Instead of trying to eat just a little bit and continue what you are doing (whether it is work or anything else around the house) and wait for dinner, which inevitably leads to repeated snacking while waiting for the full meal, it is much easier to just tell your brain, wait for the full meal and then make sure you don’t push off that meal to 2 hours later.

So, what did we have for dinner, lots of different types of food and I would happily say lots of tasty food. There is a lot of grilled food as you would notice. I did not realize this until I wrote this, a lot of our dinner is grilled either outside or in the oven. There are vegetarian options also and the vegetarian options are as tasty as the meats.



Figure 3.4: A clean dinner

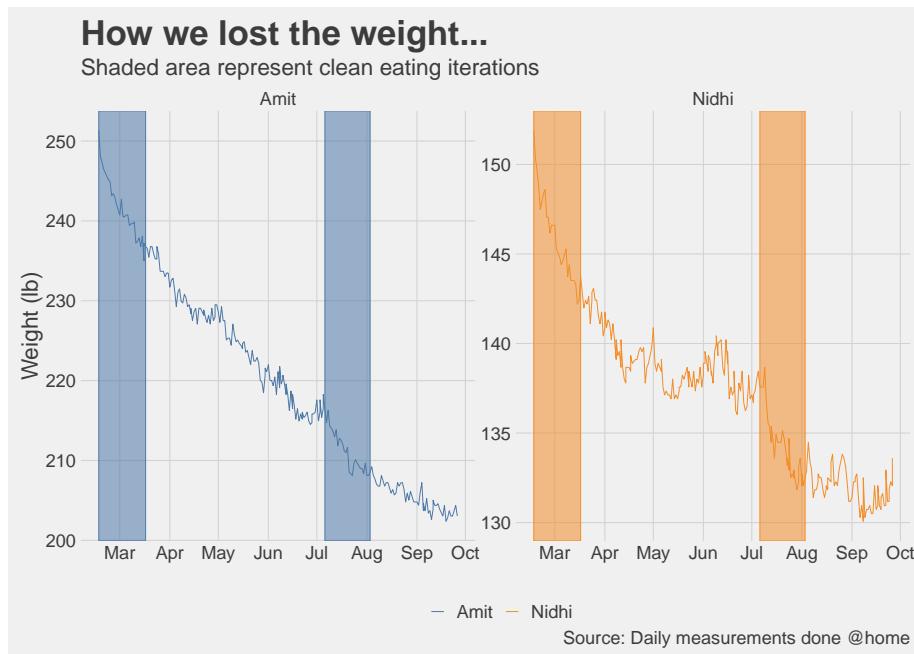


Figure 3.5: More clean dinner

3.5 The results

The following charts show our progress in terms of weight loss, with the clean eating periods highlighted. We did a clean eating in February-March and then another in July-August.

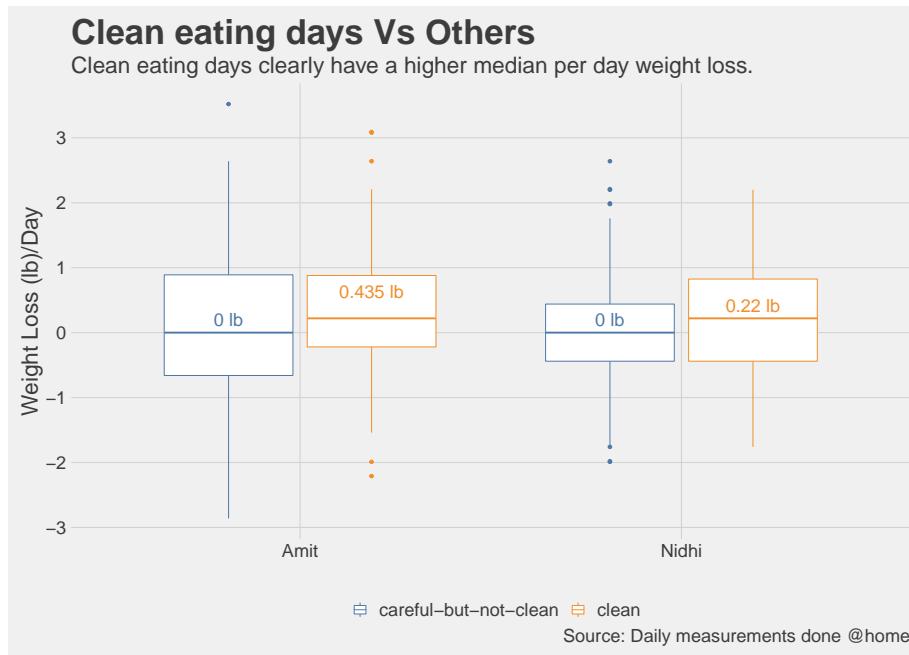
We saw very good results in both the iterations. The first iteration produced much better results because obviously there was just too much weight to lose, but surprisingly the second iteration was also very effective. The way we see this now is that if we ever hit a really long plateau in the journey to achieve the desired weight we could just toughen our minds and do this again. It cannot hurt.



Here is another chart that compares the weight loss during clean eating and non-clean eating days. Note that even when we were not doing clean eating we were still careful about what we were eating (in other words we were not gorging on Pizzas and butter chicken, soft and hard drinks were still completely off limits).

The chart shows a boxplot representing the spread of the weight loss per day during clean eating periods and non-clean eating periods. The horizontal line inside the box represents the median value of the distribution. For example, I lost at least 0.435 lb per day on 50% of the days during clean eating whereas I

only lost at least 0.005 lb on 50% of the days during non-clean eating period. The data for this chart includes both clean eating periods over a timespan from 2020-02-17 to 2020-09-26.



3.6 Is the 30 day challenge hard?

It is not very hard, certainly I did not feel it was, BUT tedious and tiresome is how I would describe it. It has to be said though, it is hard for the chef for sure, our food menus did change. The fact that there isn't a restriction on eating vegetables or fruits makes it easier than other diet programs that I know of. It is a given that you are not eating potato fries everyday for lunch or a mango as an after dinner dessert every night. What makes it hard is that after the first few days the enthusiasm begins to wane and the new eating habits take some time to become friendly. Once you adjust, both body and mind, to the new eating regimen then it does not feel like a diet at all. It certainly helps to have a goal in mind and keep reminding yourself why are you doing this.

For me, I think after two weeks or so, I could certainly start feeling the benefits, I felt lighter, more energetic (no mid afternoon energy crashes), better quality of sleep, just overall lot of positives. While all this is happening, an interesting incident occurred. We had to be at a friend's place for a birthday dinner, the host

was gracious enough to prepare some salads for us and we also took our own food with us. Midway through the party, I suddenly started feeling uncomfortable. The smell (aromas) of all the food and more so the alcoholic drinks made me feel nauseous, I felt like throwing up. Fortunately I did not throw up and we had a very enjoyable evening other than those 30 minutes. I was totally fine when we were back home, totally fine the next day as well. It must be that 3 weeks into clean eating the internal circuitry in my body had maybe begun to rewire itself, or so I thought.

Another thought that often came to my mind was that good food is a source of happiness, of joy. The sweet gulps of the mango lassi² soothe the soul, the tangy and crisp Gol Gappe³ tickle the brain, a raddish or carrot or onion paratha⁴ satiate the stomach like nothing else, and what even comes close to a butter chicken⁵? This is all true, however, food does not have to be the “only” source of happiness. There is happiness to be derived from good health, from feeling light, awake and agile throughout the day. A round of vigorous exercise resulting in a body drenched in sweat and a rush of endorphins is also happiness. Give it a chance, it will not disappoint you.

3.7 What happens after the 30 day challenge?

Several people have asked me, “like other diets, do you go back to your old weight after you stop clean eating?”. My answer is “yes, most certainly” and this should not be a surprise. While I would not call clean eating a “diet”, it is certainly accurate to say that there is no such thing as a “one time fix”. If you want the effects to be permanent then the lifestyle changes also have to be permanent, there are no quick fixes. I have often heard in other contexts that being fit/healthy/strong requires a lifestyle change. It certainly does. Does it mean we can never eat unhealthy food, no it does not mean that, it means that you first become healthy enough to allow your body the occasional indiscretions and then the morning after you go back to eating healthy and doing exercise.

As our 30 day challenge was coming towards an end I was very much looking forward to eating a lot of Indian delicacies, all in one meal. I did that, probably having deprived myself a lot, I went overboard. The results were not pleasant. After about an hour, I started feeling miserable. I felt bloated, tired, lethargic

²https://en.wikipedia.org/wiki/Lassi#Mango_lassi

³<https://en.wikipedia.org/wiki/Panipuri>

⁴<https://en.wikipedia.org/wiki/Paratha>

⁵https://en.wikipedia.org/wiki/Butter_chicken

and sleepy. For a moment I could not understand what was happening, sounds like an exaggeration but I had almost forgotten what it felt like to overeat. Nidhi then pointed out it was probably because of all the food I ate, that made total sense. I felt so full, I did not eat anything in the afternoon, nothing in the evening for dinner either. Next morning I felt much better. This was my body's way of telling me that you do this again and I am going to react to this as if there is an alien invasion and the planet is in danger. Make no mistake, I have not stopped eating that food, I just eat smaller portions of it because I realize that what follows after the 30 minutes of pleasure is 24 hours of unpleasantness.

Chapter 4

Exercise: Putting in the hard yards

You would have probably heard that managing weight is 70% about nutrition and 30% about exercise. I think this correct. Having said that, we should not downplay the 30% i.e the exercise. As I have mentioned earlier in the book, a few years back I tried a purely diet based plan and achieved good results. The problem with it, like with all diet based plans, was that it was not sustainable. There is another aspect to this as well, when I tried losing weight purely via the diet route (could also call it calorie counting) my overall appearance became thinner or I would even say weaker. While I do not recall feeling lack of energy but the appearance was as if I had just lost a lot of weight from sickness and it did not look healthy. Several people asked me out of genuine concern if I was sick and when I told them that I was doing this diet their reactions were on the lines of “ok, but don’t do more of it”. This time however, things are different, both me and my wife look leaner and fitter. Our body structure has become “denser” if that is the right word to use here and it is because of that we look thinner and fit into much smaller clothes. Appearance wise we do not have the starved look that I suppose comes from severe calorie restricted diets. Without a doubt, this is the result of the rather intensive exercise routine that we now have.

4.1 There is always a 1st time

When I went to the gym for the first time this year, it was not just the first time for me in the year 2020 but it was for the first time in my entire life of 41 years. I had no illusions of how supremely unfit I was and how difficult this was going to be. Sometimes, I used to see people exiting after their class and I used to tell myself “OK, that person looked great, but that is probably because he has been working out since forever”. Of course, this may or may not have been true, but my goal was to keep telling myself that if I was disciplined enough to show up rain or shine and do the exercises as told then I would get better, that is just how it works (at least that is what I told myself anyway).

I look at some old videos now of me doing exercises like planks or air-squats when I started and I compare them with the more recent ones of me doing the same exercise. My movements used to be very clumsy, almost hilarious, and it is to the credit of the trainer that she did not give up on me. Nidhi on the other hand, being a dancer, her movements had a natural rhythm, she had flexibility and having done some exercises while growing up, she was much more comfortable with the whole setup. My objective was not to be as good as her but to simply be better than me from four weeks ago.

We started with working out twice a week, and then went to thrice, and then four times and now I work out five times a week. Nidhi tried the four times a week routine but is now nicely settled into three times a week. In 8 months I have come from having to push myself to workout twice a week to now seems like my body cannot have enough of it. Of course, it helps that because of Corona, we are all working from home so we have a little more flexibility with our schedules. If there is one silver lining that I can see in this otherwise disaster of an year, it is this.

One day a couple of months into training, I stumbled upon a YouTube video of the training routine of an actress who played the role of a superhero in one of her movies. Her trainer said when she came to the gym and looked at people doing pullups and deadlifts, her reaction was that “Oh yeah this is cool and all but I can’t do that”, and a few months later she was deadlifting 235 pounds. When I saw the video, I had a similar reaction. I thought sure, a Hollywood actress with a celebrity trainer can of course do this, I cannot. I WAS WRONG. I recently deadlifted 265 pounds, and while I have just started doing assisted pullups, I can at least visualize myself doing some real pullups by myself, not easy, but definitely possible. I will end this section by saying I am hugely inspired by how much work actors and actresses put in these days to be fit and to look the part

that they are playing (the references section has a link to some videos).

4.2 Our workout routine

I am clearly not qualified to talk about the technical details about what makes a good workout but I can certainly state what we did and loved.

Our workout sessions were an hour long and were mostly divided into five parts:

- Warm up (about 5 minutes)
- Strength (about 10 to 15 minutes)
- Strength & Conditioning (15 to 20 minutes)
- Core (5 minutes)
- Stretches (2 to 3 minutes)

With some rest time and setting up equipment for different exercises the above routines added upto an hour (give or take 5 minutes). From mid January when we started to about the end of March we were working out twice of week in our trainer's gym and since then we have been working out at home and our home gym has slowly metamorphosed from being your amateur home gym to a souped up version with lots of weights, barbell, deadlift equipment, resistance bands, boxes, pull up bars, rowing machine etc. Some of the stuff we bought, some our trainer was kind enough to lend us for a while (because Corona). Here are a couple of pictures.

For a long time, and even today, I tell myself before the workout, that warmups are easy, the strength portion is just 10 minutes so it will be over quickly before I realize and then the conditioning is the only part that I have to push through and then by the time I am half way through the conditioning it would be almost over and then core is super easy (it is not). This kind of mental setup helps me get through the hour. Of course once I am in the middle of it, unless the workout on the day absolutely pulverizes me, my mind goes almost totally blank, no thoughts at all. I have experienced this many times, going into the workout from a crisis at work is a huge mental shift. Once the workout is over, I realize that maybe the work problems are not that insurmountable as they appeared an hour back. It could be the exercise, or just the fact that I have had the opportunity to (forcibly) extricate myself from the crisis situation and now after an hour I am able to think more clearly. I do not know what is the reason, but I do know that I experience mental clarity after the workout.

The following tables show the different exercises we did, over time, as part of



Figure 4.1: Weights and such



Figure 4.2: Rowing machine and cycle

the warmups, strength, conditioning and core. These are over a period of time, with the more difficult ones such as the Turkish getup added much later and for the ones which we did from the start we kept on increasing the weights or the numbers of sets and reps over time.

Exercise Routine

Different exercises for different muscles

Routine	Exercises
Warmup	air squats, good mornings, sunrises, grasshoppers, teeter-totter, windmills,...
Strength	high low carry, farmer's carry, angle press, deadlift, single arm floor press
Strength	weighted squat jumps, sled push,...
Conditioning	rowing, barbell push press, body rows, thrusters, burpee, weighted butt bridges
Conditioning	goblet squats, hanging power cleans, overhead step ups, jump squats, lateral box step overs
Conditioning	side hip raises, push ups, kettle bell swings, skull crushers,...
Core	palloff holds into presses, bicycles, three pump crunch, bear hold, russian twist
Core	scissors, sandbag pull through, planks, side planks,...

Not a complete list, just the ones I randomly remembered.

The conditioning part of the routine usually consisted of either a 12 minute AMRAP (as many rounds as possible) or a 12 minute EMOM (every minute on the minute) or sometimes a HIIT (high intensity interval training) such as Tabata or on some days just a combination of exercises.

4.3 Our calendar so far

The following chart shows the calendar for the year 2020 with the days we exercised marked with an [E] and the amount of weight lost/gained reflected by the color. Red indicates weight loss and green indicates weight gain. More “red” than “green” in a month means overall we lost weight in that month. I like this chart a lot because it brings out very clearly that weight loss is never a straight line, you gain some (days) and you lose some (days), except in this case, losing is better.

Daily Weight Change Tracker

Daily weight tracking started Feb 17, 2020. Exercise days marked as [E].



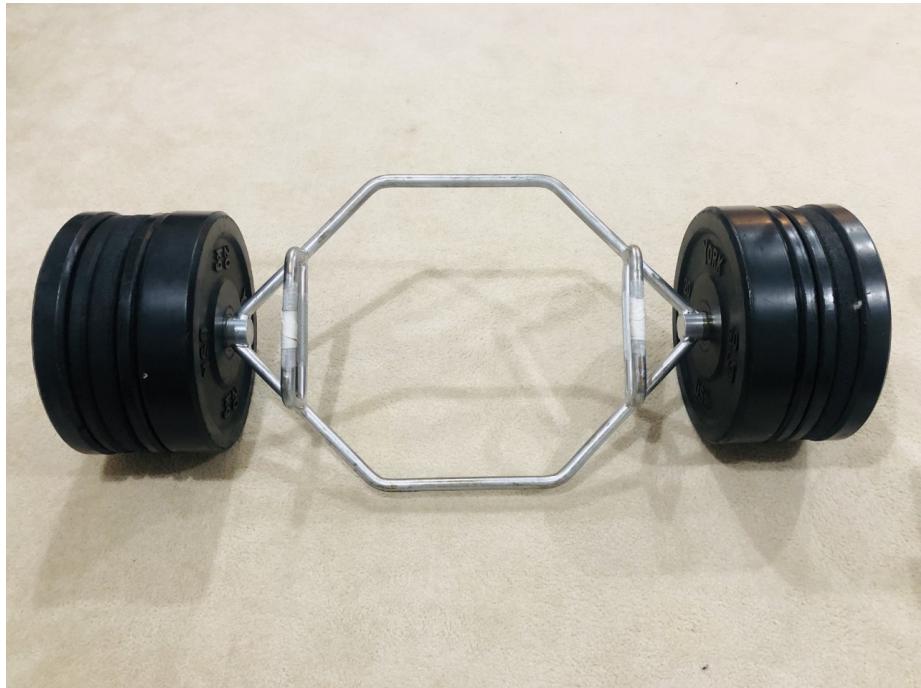
You can notice in the charts the number of days marked as [E] (for exercise) has increased over the months. This is something that happened organically. As we exercised more and ate right, the body became stronger and it could take on more work and so we exercised even more, it became a self driving cycle. Exercise also gives you a “high”, a feeling of euphoria, you cannot miss it. Stated differently, this increased number of workouts, doing more sets and reps, this was only partially driven by just the motivation to lose weight, the rest of it was because A) the body became strong enough that the current load became easier and so a step up was needed and B) the desire for that “high”, it makes you want to get more of the stuff that got you here in the first place. If this book ever gets into the hands of someone who has exercised for any length of time, I would like to add that what I have written here may seem routine and totally on expected lines to you but to me this was unlike anything I had experienced before, it was a joyous discovery.

4.4 What does'nt kill you makes stronger

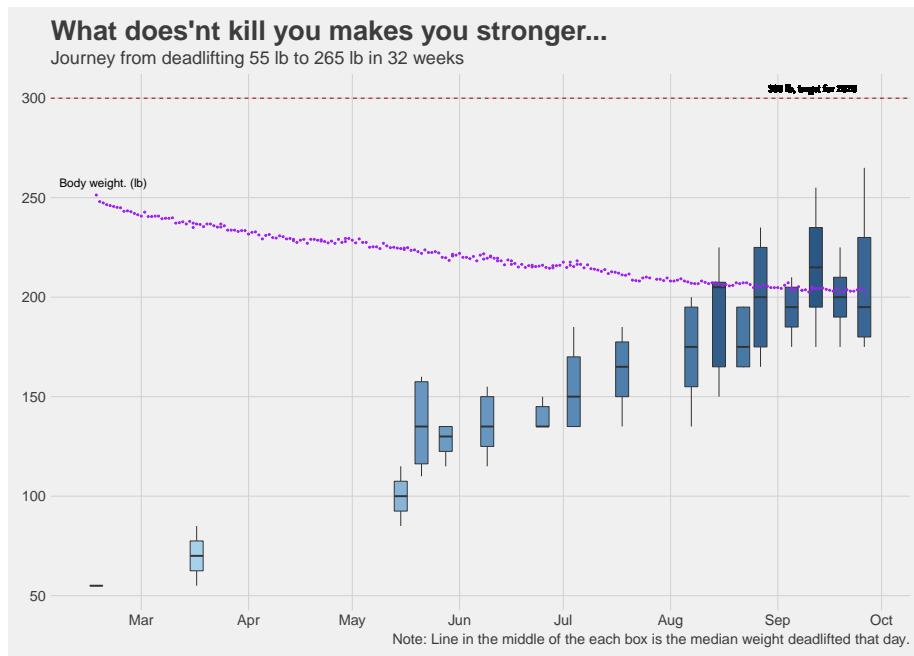
Deadlifts are my favorite. They are a full body exercise, our trainer says deadlifts are a game changer. I have watched a lot of celebrity trainers on YouTube and heard them echo the same sentiments. While we did several different variants of the deadlift such as the single leg stiff leg deadlift, the sumo stance deadlift etc. but my personal favorite and something that I religiously tracked was the deadlift with a hexbar. Maybe it had to do something with the visual imagery I had in my head of this being a strong man's exercise. I remember that when I first saw the hexbar in the gym I asked our trainer when are we doing that and she said, you will get there in a couple of weeks (this was sometime in mid to late February). The hexbar weighed 55 pounds, it was the heaviest they had.

The first day I tried it, I recall that the trainer was very cautious, I don't know if she thought I could even do it (I was fat and never been to the gym until last 2 months remember, this was February). To this day, when I have graduated from lifting the hexbar with no weights to lifting the same hexbar with 100 pound weights on either side, she is still extremely cautious and correctly so. I have heard from her that it is possible to deadlift 3 times your body weight, while that is not my target, I do want to get to deadlifting 400 pounds eventually, maybe sometime in 2021.

Here is a picture of my favorite hexbar with total weight 265 pounds (which includes 55 pounds of the bar itself).



The following chart puts all this in perspective. You can see a boxplot of the deadlifts I did over time alongwith a line chart showing my weight. As my body weight is going down, I am lifting more and more. In late August, I reached a point where I was deadlifting more than my body weight. The target for 2020 is to be able to deadlift 300 pounds.



4.5 Do I really need a trainer?

Short answer: **Yes**. Longer answer: **Yes, please**.

We were very fortunate and I certainly count it as a blessing that we were able to simply meet a wonderful trainer without actually having to find one. A kind hearted, good natured person who also happens to be a fitness trainer, who just walked into our lives when we decided to set sail on this journey. Maybe if we worked with someone else our experience would have been different. Given what we did experience, I would certainly recommend finding a good trainer. A good trainer is one who not only is an expert but more importantly makes you feel that they are personally invested in your success. With that being said, there are other more technical reasons as well for why you should get a personal trainer.

DIY workouts are great but they could also be limited. You can buy an exercise cycle, maybe a rowing machine, an elliptical, or any of those one stop shop kind of machines and start working out on your own. Good for you. What I realized is that there is a lot more to workouts than just calorie counts. If your goal is something beyond just burning calories but to gain overall strength and build muscle (not to be confused with becoming a body builder) then you need to do a lot of different kind of exercises which work on different body parts and

different muscle groups. This requires knowledge and expertise, it is not DIY. It is important that these exercises are done under expert supervision where a trainer is watching your posture, giving feedback and correcting you in real time. If you do not feel good with a particular exercise then a good trainer will suggest an alternate, there are just so many different things that come into play here as we experienced over the last several months. This idea that just because all knowledge is now simply a Google search away so everything is DIY does not apply here (or anywhere, in my opinion) and could even be dangerous in my opinion.

A good trainer will keep your long term goals in mind and keep on evolving your workout to help achieve those goals. Goals here are not just in terms of weight but also in terms of let's say your cardio vascular strength. As your body starts getting stronger, the workouts need to adapt. For example, if you could do 3 rounds of 4 exercises in a 12 minute AMRAP today, then maybe in two months you should expect to do 4 or 5 rounds of the same (or an even harder) routine in the same time. A trainer would be able to gauge that and work with you to help achieve that. For myself, I have a goal of being able to deadlift 300 pounds, going from 200 to 300 pounds requires paying extreme attention to minute detail such as a specific breathing pattern while doing the deadlift, achieving that requires doing another different exercise which helps perfect the breathing pattern and once that is mastered only then do you go beyond a particular weight. Needless to say, this level of detail is beyond what most people could figure out themselves. Even if I could figure all this out, question is, should I? Am I better off spending my time doing what I do best and leave this to the expert? I certainly believe in having an expert guide me and work with me rather than me spending the time and energy to figure it out on my own.

There is another benefit of having a trainer, it obligates you to show up. I don't have the numbers but I don't think the odds are too high that I would have dragged myself to a gym to workout 30 minutes on a treadmill (or an elliptical or a cycle) 5 times a week on my own. Let's face it, this is probably also true for most people. It changes things altogether if you have a trainer who you know would be there on time expecting you to show up and the fact that you have spent a lot of money for it also helps :). It would be remiss if I do not mention that the fact that my wife and I started working out together was very helpful, two is better than one. We had each other to share our experiences of every workout we did together. A lot of our conversations this year have been about health and fitness. Couple goals, anyone?

In the age of Instagram & YouTube celebrities, it is easy to be carried away by

all the fluff, and say I will try this at home on my own, do yourself a favor, get a trainer IRL (in real life).

I am reminded of a story that I read when I was a kid, there was a small boy who wanted to acquire all knowledge without having to go through the rigors of learning from a Guru, so he decided to do extreme penance for it. One day he saw a man putting handfuls of sand into a river, he asked the man what was he trying to do, the man said “I am trying to make a bridge of sand, if I throw enough sand surely I would be able to build the bridge”. The boy laughed, what a foolish idea. The man replied if this is foolish than what would you say about trying to acquire all knowledge yourself without a teacher. I think that story sums up my thoughts about the “do I need a trainer?” question almost perfectly.

Having said all this, if your goal is to burn calories to lose a few pounds, then yes, any form of exercise is good. Walking, running, working out on a treadmill or any other machine, any physical activity that helps you move is good. You don’t need a trainer for that.

4.6 Why my workouts suck sometimes

All days are not the same, all workouts are not the same as well. I have had some days where I felt, “Oh, my God, why does this workout feel so difficult?”, “I can’t do this anymore”, “Remind me again why am I subjecting myself to all this?”. It happens and if you workout consistently, you will experience this as well. Good news is, as I learnt, this is normal and even expected.

Here are some reasons I could think of why sometimes workouts are just plain awful.

- **Lack of sleep:** If you are working out first thing in the morning and have not had a good night sleep the previous night then chances are you would probably not have the best workout. I have had days where I was working late into the night and then next morning just woke up 20 minutes before the workout. This is not good. For the kind of workout we did, small things matter, not sleeping enough is absolutely bad and a good sleep is non-negotiable.
- **Not drinking enough water:** Just bad for so many reasons. This is not that hard to fix, I started keeping a water bottle with me in my office and that makes it easy to consume 2 liters of water a day.
- **Expecting progress in a linear path is wrong:** I think I was wrong

in expecting that I can keep on working the same pace and I can keep on getting results at the same pace. That is not how the body works. One should expect progress as a zig-zag line, ups and downs are not bad, they are expected and when they happen it indicates the body is responding to the demands of the workout. What feels difficult on one day seems doable on another day and vice-versa. This is totally how it is supposed to be. As long as we keep on making changes in the workout to adjust for the adjustments the body is making so that there is always a little challenge but not too much of it, things will be fine.

- **How much to train:** While I firmly believe it is mind over matter so one should keep on pushing oneself but then there has to be a method to the madness. Each and every workout does not have to be insanely hard, a light workout on some days is good and even warranted to allow the body some rest. The key is to push yourself very close to the edge but not to try going over the edge every single time. Over time the edge will automatically push itself forward and you will automatically be able to do more. Do not try to go one up on your body in every workout session, the aim is not to fight the body, it is to respect the body and work with it. Working out too much produces more cortisol than needed, and that is bad, just do enough but don't go overboard.

4.7 Sleep, Sweet Sleep!

When was the last time you felt like sleeping because you were physically tired? If someone asked me this question last year, I would certainly have to jog my memory. I have a sedentary job and my work does not provide me any natural opportunities to get up and move.

Now however, on days I have a very good workout, by 8pm or so I start feeling like dozing off. By the time I get to bed and lay down, the mind, body and soul everything wants to immerse itself in deep sleep to rest and recuperate. The only words that come to mind to describe that feeling are “sweet sleep”. Doesn’t happen very often, but on days that it does, the feeling is hard to miss. A good workout begets good sleep.

Chapter 5

What did we accomplish?

I have said this earlier in this book, my initial goal for meeting with a trainer and going to the gym was to lose weight, but as we started sweating it out I realized that we were getting a lot more out of this exercise and clean eating regimen than just a lighter body. Even so, weight loss and overall getting the body in a better shape are important goals, so how did we fare on these?

Important Metrics

Key data points that describe the journey

Metric	Amit	Nidhi
Days since start	222	222
Days taken to lose last 10 pounds	74	183
Starting Weight (lb)	251.33	151.9
Current Weight (lb)	203.04	133.6
Total weight loss (lb)	48.29 ¹	18.3 ²
Best Weight loss month	May, 8.38 lb	Mar, 6.18 lb

¹19.21% of the starting body weight.

²12.05% of the starting body weight.

Source: Daily measurements done @home

One thing that we realized along the way is that men and women respond to exercise and diet differently. While it is true that I had a lot of weight to lose as compared to Nidhi, but it is also true that she was losing weight at a much slower pace and had several phases where her weight loss just stalled. Both of us did the same workouts (until the last two months) and ate pretty much the

same food, but I could lose weight and she found it very hard. Important to have realistic expectations and continuously work with your trainer to evaluate what could be tweaked.

5.1 Percentages are revealing

So net-net in about 7 months, I lost about 20% of my body weight and Nidhi lost about 15%. Not too bad. In terms of how far we have progressed compared to the goals we started with, I have some more miles to go while Nidhi is almost there.

How much of the weight loss goal has been accomplished as of 2020–09–26?

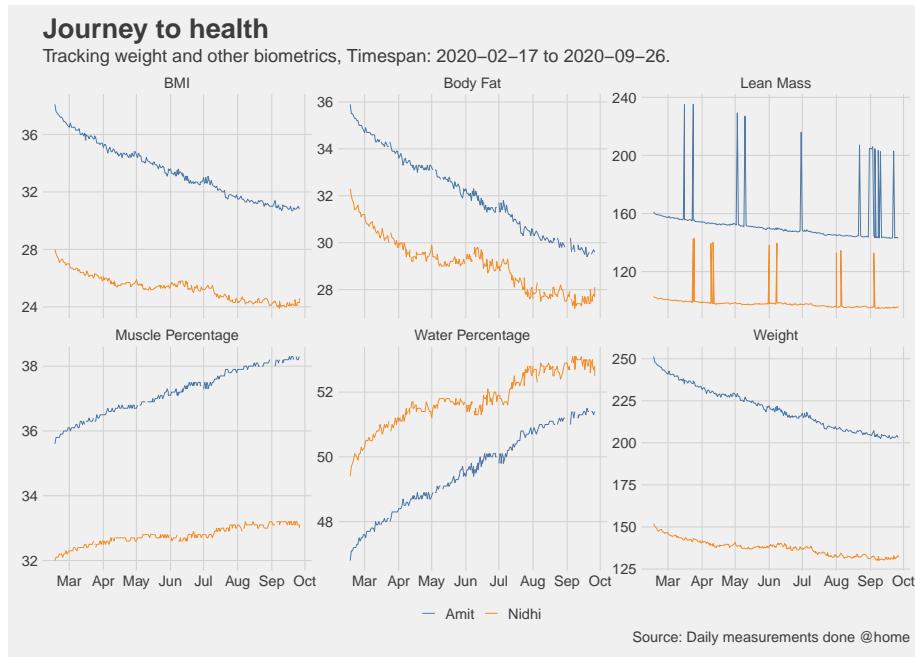


5.2 Changes in other biometrics

Along with the body weight, other metrics also saw significant change. This is seen in the following charts. BMI is widely used (I suppose accepted as well) measurement to determine if someone is healthy, obese or overweight. We saw reduction in BMI as well which as expected is correlated to the reduction in weight. NIH guidelines for BMI are available here¹ for reference.

All measurements in the charts below were done automatically as part of the daily metrics measured by the scale and synched with our phone. This made it really easy to collect and analyze this data.

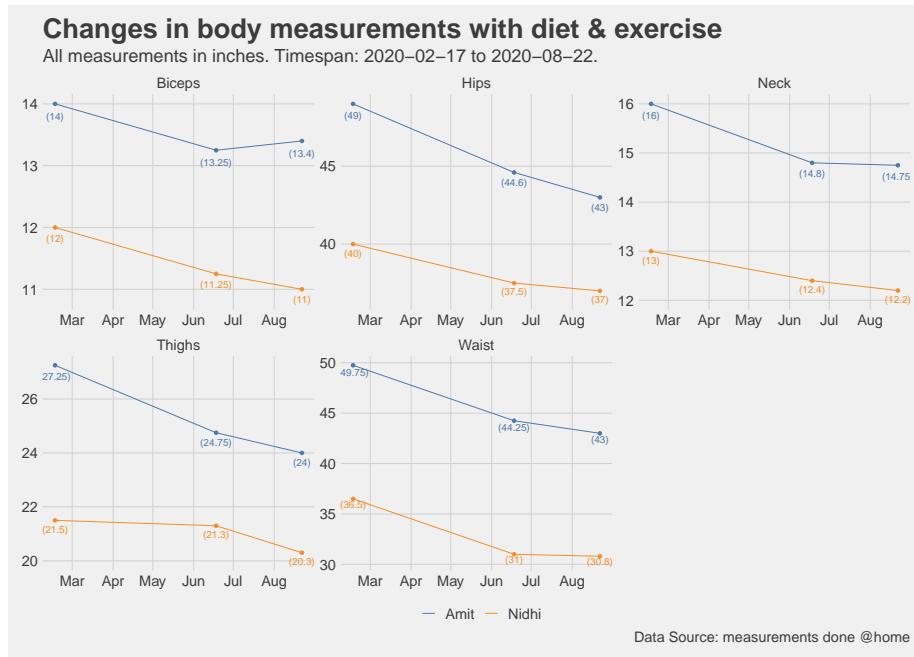
¹<https://www.nhlbi.nih.gov/health/educational/healthdisp/pdf/tipsheets/Are-You-at-a-Healthy-Weight.pdf>



5.3 Body measurements

Weight and BMI is not the only metric we tracked, these metrics are often times all we think in terms of measuring but there is more. Just as the proof of the pudding is in the eating, the proof of the weight loss is in the wearing (of clothes). As we kept on making progress in our journey, the clothes started fitting well at first, then getting loose and finally it reached a point where most of our old clothes were just too big and this necessitated a wardrobe refresh. A happy problem to have.

We tracked this by doing body measurements once every few months. The charts below have a story to tell.

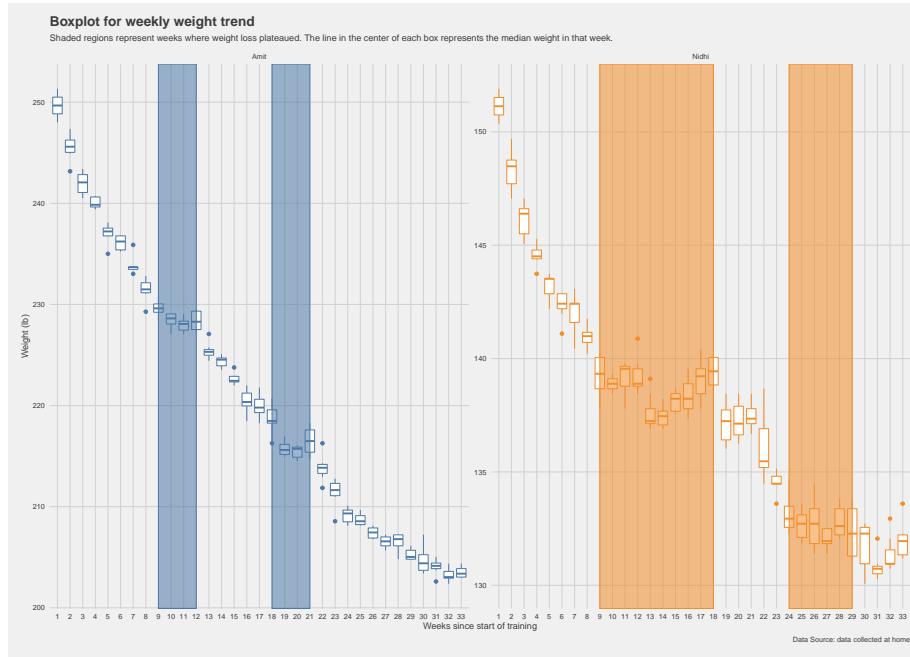


5.4 Of slides and plateaus

Anyone who has embarked on a journey to lose more than say 10 pounds would identify with the fact that the weight loss trajectory is never a linear slide downwards, no matter how determined you are in your desire and dogged in your persuasion. It was the same for us, there were days and weeks which were very good, especially at the start and then there were periods where the weight loss yo-yoed. These periods were disappointing, disheartening even.

It is important to understand, as we discovered, that as we are subjecting the body to a different sort of eating regimen and making more and more demands of it by way of workouts in the gym, the body is also trying to recalibrate its response. It is figuring out how much fat to store as energy reserves, how much to burn to provide the fuel for the exercise. This means that sometimes the weight loss may completely stall or even go in the reverse. The key is to be patient and keep eating clean (relatively speaking) and putting in the hours in the gym without completely burning out.

The chart below shows the week by week distribution of the weight and as you can see there were at least a couple of streaks of plateaued weight loss. We persisted, and ultimately, we prevailed.



5.5 A forecast and a promise

As we were going through this journey, I was very eager to apply some forecasting and determine if we could project a reasonable date when we would be able to meet our weight loss target. As much as this book is not just about weight loss, there is no denying the fact that it was one of the most (if not the most) tangible outcome we were tracking towards.

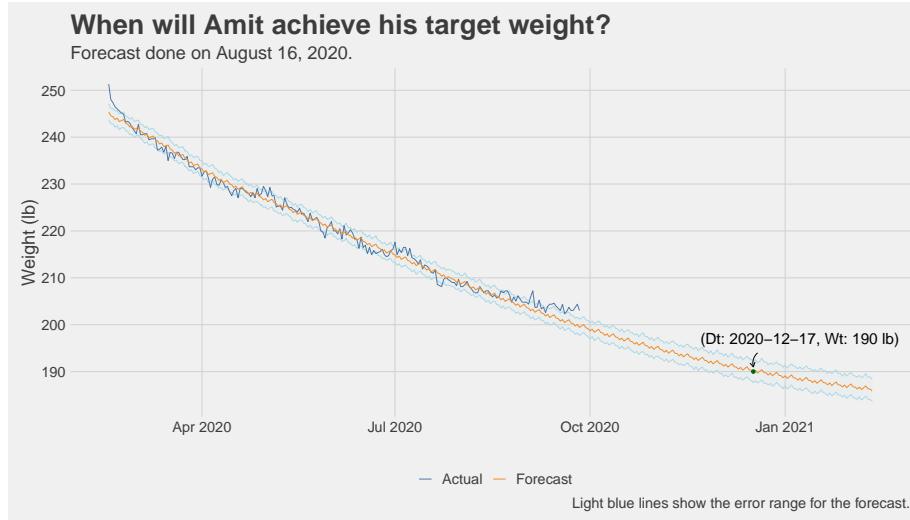
Once we had collected a reasonable amount of data, I used standard timeseries forecasting techniques to determine how our weights would look say 30, 90 or 180 days from the current date. I used the Prophet² package from Facebook AI Research (FAIR³) to do the timeseries forecast. The results are presented below. This forecast was done on August 16, 2020 and as per this forecast we should be able to achieve our target weight (128 lb) in early October for Nidhi and mid-December for me (190 lb).

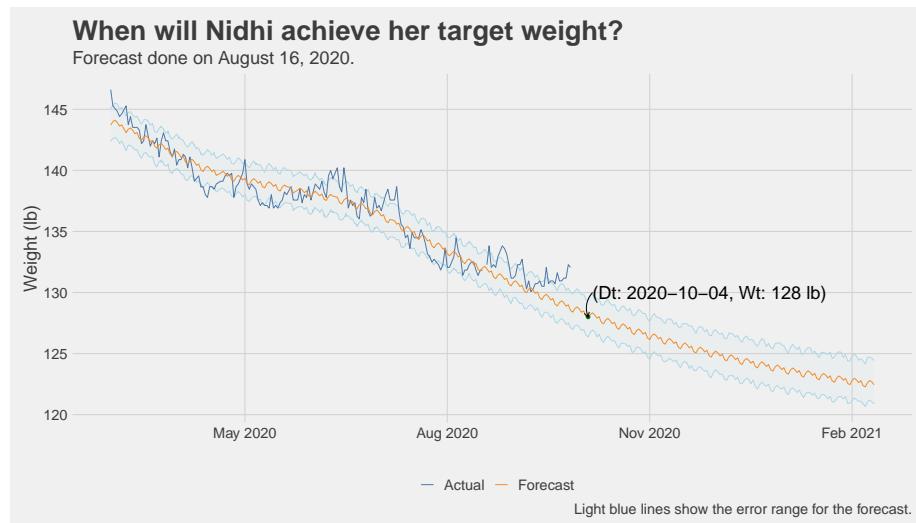
Once we had these forecasted date and the plots created, we started monitoring

²<https://facebook.github.io/prophet/#:~:text=Prophet%20is%20a%20procedure%20for,daily%20seasonality%2C%20plus%20holiday%20effects.&text=Prophet%20is%20robust%20to%20missing,an%20typically%20handles%20outliers%20well.>

³<https://github.com/facebookresearch>

very closely if our daily weight measurements were within the range of errors as shown in these plots. Some days the weight did creep out of the error limits but then it served as a nice tool to keep us honest, so in a manner of speaking we knew how much we could deviate. So if an Indian takeout dinner one evening did set us back, we knew we had to make up for it in the next few days to come back within acceptable range. So far it seems the projects are holding up reasonably well. If nothing else, it provides certain guard rails to not let one go completely off track. The promise still is, if we keep doing what we have been diligently doing, we should be able to achieve our goals around, if not exactly on, the forecasted date. It is important to mention here that this simple forecast is considering the weight loss as a single variable timeseries, we know it is much more complicated than that. There are a lot of factors that would go into making a much more accurate weight loss forecast (if I could do that then maybe I would be writing a different book :)). This is just a simple attempt.





Chapter 6

Other Topics

This chapter covers miscellaneous topics which are quite important but I did not have enough material to give them a chapter of their own so I parked them all here.

6.1 Time Restricted Eating

Time restricted eating (TRE) or as everyone likes to call it “intermittent fasting”. I can end this section by simply saying please read this excellent book called “The Circadian Clock” by Dr Satchin Panda, it will provide you all the evidence based reasoning you need to try out TRE. I tried time restricted eating while doing exercise 4 to 5 days a week I personally found the results to be great.

As a matter of habit, I now eat within a 12 hour window and it helps me feel light and energetic. I try finishing up dinner by 7 - 7:30pm and usually sleep by 11.30pm. If I have not had dinner by 8pm, then I skip it. Some days if I am working late into the night then I do feel a little bit hungry, and if feel really hungry then I have half a cup of almond milk and that usually calms the rumblings in the stomach. If you think about it a 12 hour fasting window may not be as hard to do as it maybe sounds at first, 6 to 8 hours of those 12 are hopefully spent at the night sleeping, then add another hour or two before sleeping and after waking up in the morning and you have a 12 hour fasting window.

I try doing a 14 hour fasting and 10 hour eating window every now and then, works fine. I have also tried a 22 hour fasting and 2 hour eating window once a

week for a few weeks. Other than the fact that the brain says why are you not eating, I did not feel any discomfort. I even exercised on a 22-2 day, no problem at all.

What I have also experienced is that a day of 22-2 TRE does indeed help offset any indiscretions of the day before. I have tried this a couple of times, if I had gone overboard with a heavy dinner, ice-cream or other goodies during the day then doing a 22-2 the next day helps. For the 22-2 TRE, I usually take a coffee for breakfast, a plant based protein shake in the afternoon (just with water), another coffee around 4pm, and then finally dinner around 6.30pm. I have no scientific data on this but just my own anecdotal evidence.

6.2 What about supplements?

We did take supplements for micro-nutrients (vitamins and minerals). To be clear, the intention was not take supplements for muscle building but for general health. Even with the previous protein based diet program that I followed earlier there was a recommendation for different vitamin and minerals supplements so when we started exercising more, the topics of supplements came up organically. We discussed with our trainer and as I started reading more and more, I got more convinced that we should take some micronutrient supplements to augment what we were eating. I did my own research, discussed with my trainer as to which supplements were required and which brands had ingredients which were minimal and safe. I used labdoor.com as one of my starting points for finding out good supplements.

Here is my list:

- Vitamin D
- Vitamin C
- Zinc
- Multi Vitamins
- Fish Oil
- Probiotics
- Amino Acids
- Creatine Monohydrate

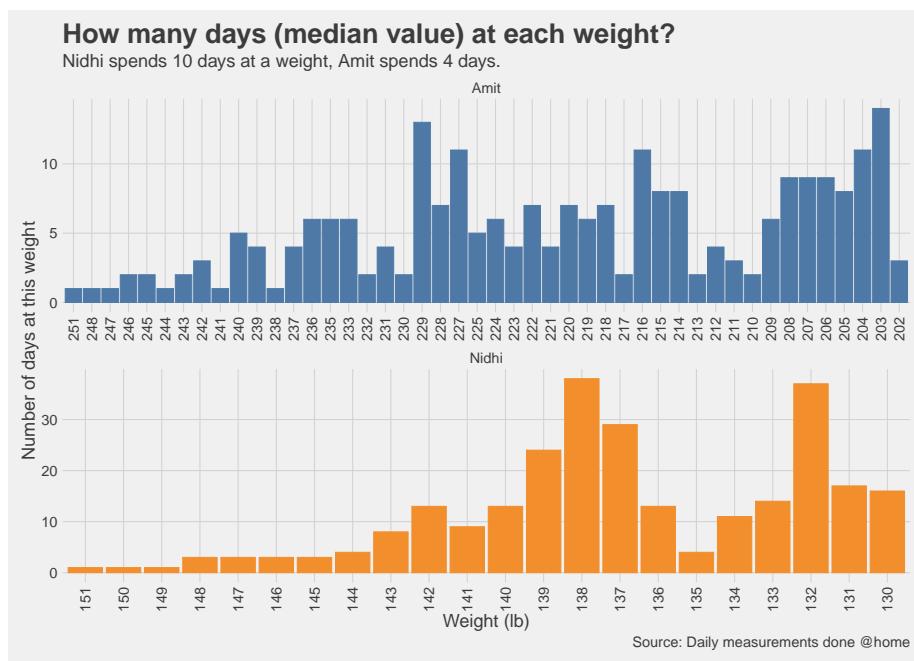
Did not start taking these supplements from day 1, this happened over a 6 month period. **Do not start any supplements without first consulting with your doctor.**

6.3 For the love of charts

Here are some more charts that I could not fit anywhere else.

6.3.1 How many days did it take to lose every single pound?

Sometimes we get anxious about being stuck at a particular weight or oscillating within a few pounds. As enough data got collected, we could see empirically how many days did we spend at each weight level so that before we start getting anxious we know if we really need to or is it still within an observed range.



Chapter 7

From here, where?

What do we do when our target is met? The proverbial last mile is extremely hard as we are finding out and you can see in the charts presented in the previous chapters. Going with the optimistic assumption that we will achieve our weight and strength targets in the next 2 to 3 months, what do we do next?

The natural answer is that sustaining ourselves at that level of health is going to be a challenge in itself and it is tough one. What I feel at this time is that this has been such a hard fought (not to mention expensive) battle that giving it all away, the very thought of it, sends a shiver down the spine. It is also true, I have been up this hill before and滑ed back.

What is going to help, is to set a new target, that will change the problem from just being one of sustainence to one of achieving a new target. Setting your eyes on the next peak gives an aspirational goal to look up to. Aspirations make you wake up in the morning and get moving. When aspirations are standing on the legs of recent achievements, anything is possible.

My younger one wants to get into wrestling, he is 7 years old. Maybe he and I will train together some day! Let's see where this mid life "obsession" takes me.

PS: if you would like to reach out to me for comments or questions, please feel free to write to me at amiarora@gmail.com. You can find me on twitter at [aarora79¹](https://twitter.com/aarora79) and at linkedin at <https://www.linkedin.com/in/amit-arora-539120a/>.

¹<https://twitter.com/aarora79>

Chapter 8

For cultural enrichment

As one of my professors in graduate school used to say, read this for cultural enrichment, I am providing here a list of links from the Internet that I stumbled upon and found useful. Make what you will of it.

8.1 General

Found My Fitness by Dr Rhonda Patrick

<https://www.foundmyfitness.com/>

If you like an academic take on the latest research in health & fitness then you will love this.

8.2 Supplements

Dr Rhonda Patrick's supplement list (not endorsed by her)

<https://fastlifehacks.com/dr-rhonda-patrick-s-supplements-list/>

I found this page by literally doing a Google search one day thinking, I have watched so many of her videos, wonder what supplements does she take?

8.3 Circadian Rhythm & TRE

Dr Satchin Panda's TED Talk on Circadian Rhythm

<https://www.youtube.com/watch?v=erBJuxVR7IE>

Health lies in healthy circadian habits.

Dr Satchin Panda with Dr Rhonda Patrick on TRE and Circadian Rhythm

<https://www.youtube.com/watch?v=-R-eqJDQ2nU>

90 minutes of extremely detailed discussion on Circadian Rhythm and TRE.

8.4 Fasting Mimicking Diet

Dr Valter Longo with Dr Rhonda Patrick on fasting mimicking diet and it's effect on longevity and serious diseases

<https://www.youtube.com/watch?v=d6PyyatqJSE>

How fasting helps in ways you may not have thought of.

8.5 Exercise

Jason Walsh, how do actors get ready in shape for movies

<https://www.youtube.com/watch?v=y5-R-TICKSw>

Inspirational!

Aamir Khan, Dangal body transformation

<https://www.youtube.com/watch?v=1aVw1gZ9Ncg>

I watch this if I ever feel like skipping a workout!!

Chapter 9

Appendix A

9.1 Food checklist for clean eating challenge

Here is a listing of items that we got reviewed from our trainer for the clean eating program.