Developing an Online Health Community for Autoimmune Disease Patients Through
Self-Managed Diet


Rachel Greene

When it comes to managing symptoms associated with autoimmune diseases, how can I leverage my personal experiences and dietary knowledge to build a collaborative, online community to influence and support others on changing their diets to improve their quality of life?

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## the study adds that more research is needed <br> conditions are still largely unknown.

More than 700 million people around the world are now affected by an autoimmune disease, yet conventional medicine typically has little to offer in terms of treatment. physical symptoms were dismissed as depression

Conventional doctors told me-and they've probably told you too-that

Unfortunately, it's a frustratingly common scenario that your doctor sends you off with your diagnosis - but no nutrition advice or lifestyle changes that can make your autoimmune condition easier to navigate.

Autoimmune diseases are complex, and they can be challenging to understand, prevent, or treat.
disorders. Yet, the interaction between diet and autoimmunity in humans remains largely unstudied. Here, we systematically interrogated commonly consumed

There's no definitive answer
autoimmune disorders remain poorly understood.

## notoriously difficult to diagnose.

my doctor thought I was a hypochondriac."
roller coaster of good days and bad days with no end in sight.
Every autoimmune disease is different.

Ask these two questions to most physicians in practice today and the likely answer you'll receive is, "The cause of arthritis and autoimmune diseases is unknown, and nothing that you eat, nor any supplement that you take, will make any difference at all."
overwhelming, frustrating, and debilitating.
manifest through a wide variety of symptoms.

You're sick of doctors brushing you off, telling you your symptoms are in your head or that there's really nothing you can do other than
maybe taking a medication that can help cover up the symptoms, but not actually cure you.
effect upon joint pain. The diet-arthritis connection is often disdainfully dismissed as
"unscientific" or as "magical thinking." Fortunately for the millions who suffer from arthritic
Autoimmune diseases diagnoses are often given with no recommended treatments.
linked to the development of autoimmune disease. But there are still no conclusive clinical studies with regard to the role of diet in leaky gut and autoimmune disease.

No established cures for autoimmune diseases exist.
the patient's diet as a causative factor is usually discounted

Doctors typically turn to medication for dealing with the symptoms of inflammatory conditions, which
often fails to address the root causes - including allergens, infections, environmental toxins, an inflammatory diet, and stress.
crippling pain, and debilitating weakness.
Conventional medicine failed me,



## To inform,

## empower, and

emotionally support
Autoimmune Disease patients
so they are enabled to adopt self-managed healthcare through diet


Pl: CCT 688

- website creation
- just for fun
- no audience research
- no prototyping theory
- only what I know


## P2: ССТ 692 <br> P3,4,5...: CCT 694

- Prototyping and theory
- organization
- appearance
- online learning
- individual
- community
- Translation of audience knowledge > user-centric prototype development


## Prototyping

Form
Fidelity

## User-Centric

Interactivity
Lifecycle
Thoughtfil Development Support
Feedback


Color Scheme


Fonts

## Creme Prutie

## Picture Grading




## Greenebcan Home




SOMEONE I LOVE MAS AN
AUTOMMWNE DISEASE.
a 1 VANT TO LEARN

1 MNOV ABOUT Automime Distass. ati move mor aboir it: dife connetion

WIIL IT WOXX FOR ME?
specific Dits.
BUT I Hate cooxing

I KNOW ABOUT AUTOMHWNE DISASES. AND THE DIET CONNECTION. BUT I DONT KNOY WHAT DIET TO FOLLON


# Instructional Incorporate Fun 

 is what I do, with tips, and I find it to be very effective know I want to eat them in some fashion soon. Do this is a word document for editing purposes, because the plan will change as life happens
 what do I want with that? Some fish? Pasta? It doesn't matter - there is no wrong answer.

 flavors. It will keep you interested in your menu.

 going. Maybe bring up that easy meal you had planned for next Wednesday and swap it out. This is why I suggest doing it on the computer.
 plan to use the other half of the bunch in a meal later that week. You will use fresher ingredients this way and will reduce waste.

 home.


Does that sound miserable to you? I hope not. It's easier than it sounds - write down food you want to eat, organize it, do it. Still no? Below are 6 of my GFDF menus.

## Here are some tips when reading these

- there are repeats
- there are meals that take a long time, there are meals that are short
- I didn't necessarily write down every ingredient. Odds are I left off spices or olive oil perhaps, so read with some scrutiny
- if it says 'out', I was out and didn't cook
- at some point I stopped writing the leftovers in
- you won't see meat on here besides chicken - switch for what you want
- if you don't like the whole meal, it doesn't mean it's useless, mix and match
- if you see something for 'Mike', that just shows an area where I made my husband something slightly different from what I ate
- it doesn't necessarily say GFDF before all items. So if you see 'flour' or 'sweet chili sauce' assume its GF and shop accordingly

COOK 1 DAY, EAT FOR 5-7 DAYS
The Key is variation

When in doubt, DO THE 1-2-3: PROTEIN + CARB + VEGGIE (SUB 1 AND 2 FOR MORE 3)
otherruige mix it up
RAMEN JARS


1. Picka Base - hoisin, chili paste, bouillon paste, peanut sauce, curry paste, gochujang, lemon pepper sauce 2. Add finely chopped veggies - bok choy, peppers, snow peas, mu shrooms, zucchini, edamame, na pa cabbage optional: small pieces of cooked protein/tofu - beans, lentils
2. Add your noodles - uncooked rice or vermicelli or par-cooked spaghetti 4. Kick it up-green onions, thai basil, chopped spinach

- top with hot water, seal for 5 minutes
- want a little crunch on top? nuts, crispy on ions, fried leeks, seeds, fried noodles
- don'tuse a 'regular-mouth' jar-you want wide-mouth

RAINBOW VEGGIES


Roast together and divide in to different meals w/ variation for the week

1. Slice a ton of veggies
2. Arrange on sheet, toss in EVOO, S\&P and bake 15 min utes on 400

- Divide and add to pasta, rice, quinoa, beans, (sveet) potatoes
- can add protein but not necessary
- Pick a sauce/seas oning to match

Beets + Beet Greens
Careful, theyll stain the shit out of your cutting board. Beets are high in nitrates and can even lower blood pressure. Beets are nature's candy and do yourseff a favor and skip the Love Beets in the sogsy package. They just aren't the same and you're missing out on the beet greens. No. they're not trash. They're also very delicious and you get two dishes from one item- score!

## Roasted Beets

1. Preheat oven to 400
2. Cut off greens and set aside, carefully cut the ends off each root and with a knife, trim the skin off
3. Place each beet on a small square of foil, top with EVOO and crumble up
4. Roast the foiled beets for about 40 minutes, open, serve, or cut in to chunks
tips people often peel them after roasting because the skin comes right off - but you are missing out on the caramelized outside that way! Eat as is or in a salad - pairs well with arugula.

## Sauteed Beet Greens

1. Remove inner rib from leaf, separate from leaves
2. Dice stems into $1 / 2^{\prime \prime}$ pieces, roughly chop leaves, still separating
3. Heat EVOO on medium heast, add 1 T minced garlic and ssute 2 minutes
4. Add stems and ssute 5 minutes, add leaves and saute until slightly wilted, $\mathrm{S} \& \mathrm{P}$
optional: if you aren't a fan of bitter greens, drop just the leaves into boiling water for just one minute then cool in cold water/onice, drain of liquid and ssute as directed. This process is called blanching and it removes bitterness.
optional: Sub garlic for shallots. Liven up with splash of lemon juice/zest


## Brussel Sprouts

Let's thank mom's (and all parents) for what they do.. but let's be honest. some of their food choices were whack. I remember finding out the main ingredient in my favorite soup broth was ketchup, that my mom put half a stick of butter per potato in her mashed, and these dang brussel sprouts were boiled! I ate one, one time, and never again! Do yourself a favor and re-discover these cruciferous little goodies outside of momma's boiling, They are packed with fiber, Vitamins C \& K, and are low in calories.

## Roasted Brussel Sprouts

1. Preheat oven to 425
2. Remove ends, cut in halves
3. Toss in EVOO, lay on flat sheet, season with $S$ \& P


## Creme Brulée



1 CAN OF COCONUT CREAM (NO LIOUID) 3 TEASPOONS OF VANILLA EXTRACT

WHILE WHISKING, COMBINE MIXTURES
ONCE SIMMERING, REMOVE FROM HEAT AND COVER FOR 15
in a separate boul
CREAM TOGETHER
4 EGG YOLKS
$2 / 3$ CUP WHIIE SUGAR

POUR INTO 2-3 RAMEKINS
Place in oven safe dish WTH PAPER TOWEL AT THE BOTOM

FILL with hot water
HALFWAY ON THE RAMEKIN


BAKE FOR 40 UNTIL GOLDEN


TOP WITH 1 TABLESPOON OF WHITE SUGAR BLOWTORCH UNTIL CARAMELIZED



## APRIL 3RD Ga Cursinte

THE BENEFITS OF FRESH AIR, VITAMIN D, AND STAYING ACTIVE AMID SOCIAL DISTANCING


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# Informative, Simple Concise delivery 

Eliminate Guesswork
 attack all these thyroid-nutrient-related-tems. I know my non-medical description isnt the best, but hear it is; your
limiting/removing the wrong things. It's not a diet, it's a lifestyle. The thyroid and the gut are one - remember that.
was treating my hypothyroidism for five years before I learned I had gluten intolerance as well. As you read in $\underline{T h e}$ Journeyportion, I was monitoring my blood-work and doing everything by the vegetarian, minimally processed, healthy diet. My joints and muscles told me not to exercise - it hurt too much. I did it anyway. The wedding was coming and yes, I wanted to look good. Sue m was the heaviest I've ever been and although it's vain, I have to live with that feeling when I look at the photos. In just that eight months, I gained 17 pounds. Don't you dare say it was muscle! sensitivity and felt I found the answer. I went on a "Farewell to Gluten" tour - pizza, sushi, ravioli, cake, bagels.

Then I quit. All of it. I lost 45 pounds in three weeks. THREE WEEKS. To quote my Dr, who did not suggest a GF diet, "the only way you can lose weight like that is if you removed something ecame soff. I could breath better. My heart rate slowed. It was everything. And guess what - I found it. I went to Doctors 64 times in those 5 years - primary care, endocrinologists (2), ENT' not anti-Doctor, but hear this - with autoimmune diseases, your symptoms may be all over the place and so if the numbers look g ander Halgia, systeric lupus, chronic fatigue syndrome, B12 deficiency, chronic dry eye, arthritis, etc. etc. People, it was the pasta. Aihlv sick. Every. Single. Day. I was tested for Celiac's a million times - always negative. I ate a ? week and ate the best diet possible for eight full months. On my wedding day, Conefood grow back. My nails became hard. My skin tt one of them told me to give up gluten. I'm
diagnosed with; IBS, depression, anxiety

Also, I hate the word "sensitivity." You will hear and read that word over and over and I encourage you to use the word intoleranceinstead. I am sensitive to caffeine, I am intolerant of gluten. So even though I will not experience the permanent intestinal damay 12

 on the daily. Regardless of if you have a Celiac diagnoses OR NOT - Some nutrients heavily influence the function of the thyroid gland, and certain foods can inhibit your body's ability to absorb the replacement hormones you may take as part of your thyroid treatment.

## First, let's talk about the bad stuff.







 alternative, and yogurts and cream cheese aternates are also very good. Bye bye gouda, cheddar, mozzarela, and worst of anf - no more ooey gooey. Dairy-free che
dairy-free diet, unlike gluten. But be honest with yourself - is it partial because you genuinely feel fine having a little or is it because you "just can't give up cheese?"
 person who does. You will have to test the waters for yourself. Soy is one of the main allergens so if a product contains soy - there is no funny business - it will say right on the package.
 symptomatic, but it definitely doesn't help. There is also research that sugary foods, high-fiber foods, starches, nuts and seeds, processed foods, and a meat-heavy diet can all negatively impact thyroid function.
 glutinous beers, I will have 1 glass of wine (which I don't even like) and guess who's sick that night. I know, I know.
 stomach acid is empty and bored) and sometimes I can eat a quick snack and make it stop. I've learned this the hard way over and over again. Trust me, you look nuts running out of work puking when you were find literally 10 minutes ago.
 and lessened the brain fog.





 but be sure to still make a dish to share that you can safely enjoy. Show off your new GFDF cooking skills!

## Outaimmune Disecre \& Diet

## [taMy gui

It's thought that Autoimmune Diseases are caused by tiny holes in the intestines. This releases food particles into the body, which causes the immune system to react.


## WILL IT HELP ME?

Do you have an Autoimmune Disease? Then most likely, YES!

## You werit tyou whiti you try

Autoimmune Diseases cause inflammation in various parts of the body. Eating anti-inflammatory foods reduces the attack response and in tum, reduces inflammation



YOU REMOVE FOODS FROM YOUR DIET FOR A SHORT TME THEN REINTRODUCE THEM IN SMALL AMOUNTS WHILE MONTORING SYMPTOMS.


BY MONIORING YOUR SYMPTOMS, YOU ARE ABLE TO INDICATE FOOD
IRRITANIS COMMONLY ASSOCIATED WITH AUTOIMMUNE DISEASES.


FOR MORE INFO ON THE AUTOIMMUNE DISEASE-DIET CONNECTION, CLICK HERE ONCE YOUR FOOD IRRITANTS ARE FOUND, YOU MAY HELP HEAL YOUR GUT, REDUCE INFLAMMATION, AND ELIMINATE OR DECREASE YOUR SYMPTOMS.

SHOULD I DO IT?


Do you vanit to fet betite?

Whats next?


JOIN THE

## Q:I'm traveling to Boston next month for work, any GF restaurant suggestions? <br> ANSNER <br> a: Puro, Barcelona <br> A: for on-the-go meals, check out "by Chloe.," Poke Works, or Grainmaker <br> 2 $\boldsymbol{a}$ : findmeglutenfree.com will give you a list of all restraints! And it's based on ratings so mike431 you can really guarantee you're going to the right place wrum <br> d: Even though it's a chain, Legal Seafood locations have dedicated GF-Fryers!




Evidence-based research Rely on shared experiences Utilize community

## How to Start

1. Doctor's would say not to do this, but too damn bad. Go on a Farewell to Gluten Tourfor no more than a week. Eat all your favorites one last time because life is short.
2. During that time, do your research. Learn all of the red flags and gluten-related-terms that you may find on a nutrition label and save them in your phone.
3. Check your favorite items now and learn what you can and can't eat from that list. Check the product websites and popular Celiac-friendly blogs. If you cannot find the answer that's your answer. You might be pleasantly surprised that many of the items you are currently eating are in fact GF.
4. Toss or give to a friend all your gluten-containing fridge items. You need to do this for a minimum of 6 months and it's best to get it out of the house. It's going to expire anyway. I put aside the shelf-stable glutinous items until I was sure it was working for me and once I was sure, I put them all on the counter at work with a Take Me sign. They were all gone in 5 minutes. Do one better and donate all sealed items to a pantry, just don't throw good food out - not cool.
5. Next, you'll want to prepare a food log. The important thing here is to figure out 1 ) if going GF is improving your health, 2) how so, and 3 ) if you are able to locate other irritants.

- For example, alcohol really makes me feel ill. So say on a Saturday I write down everything I've had including the alcohol. When I don't feel well the next $1-2$ days, I will look back. Okay, maybe it was all the garlic - test it - eat garlic in a similar fashion again - wait three days - what were the results? (It is important to test each item by itselfand give your body a few days to react. If you wait one day for the garlic test and then move on, you won't be able to single out your irritants). Okay, maybe it was the raw kale - test it - wait 3 days. Work through the meals systematically even though it can be frustrating to do so. By doing this, I was able to find that garlic, alcohol, (decaf) coffee, caffeine, sugar, avocados, chilis, citrus, and carbonated items all made me feel not well. And if you're thinking well, everyone experiences this stuff when they drink alcohol, and yes, you would be right, but it's different because of the The Food Connectionand the thyroid. These irritants don't just irritate you, your body is attacking these items and making it so you don't absorb the synthetic thyroid medication.
- Here is an example of what I'm talking about - it's a food AND symptom tracker as well as a place to mark your potential weight loss. Fill one out everyday and change the symptoms to those that suit you - these were my daily symptoms at the time.


## If You fet you May Have An Autolmywne disease, schidule a isit WITH YOUR DOCTOR

write down your symptoms ahead of time insist on testing

NOIE: THE RESOURCES ON THIS WEBSITE WON'T BE HELPFUL WITHOUT A DIAGNOSIS

Disclaimer
References




## Validation

Mutual experiences
Emotional support


Improving you, together.

F

Adopting New Behaviors

## EDOUCATIONAL

PERSSNaL
EXPERIENOE

## COMMUUNITY

My Story


We need to see the people who have lived through a particular experience as the expert on their issue.

TedTalk, Aspen Baker, 2015




 you can really guarantee you're going to the right place sisiors

## Nevt Steps

- Constituent-building Feedback
- Disclaimer
- Elimination Diet
- Alternative Learning
- Monitoring/Evaluation

- Going Live

