Nourishing the Mind and Body Optimizing Nutrition Parkinson's

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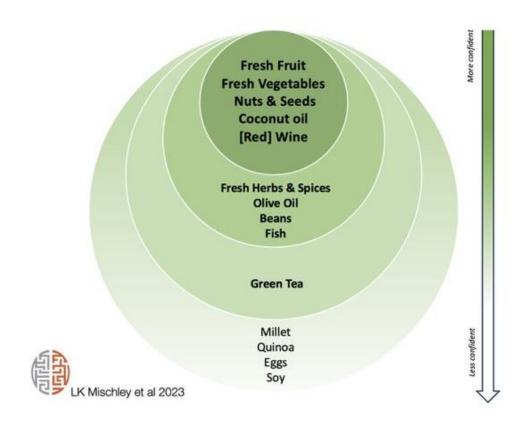
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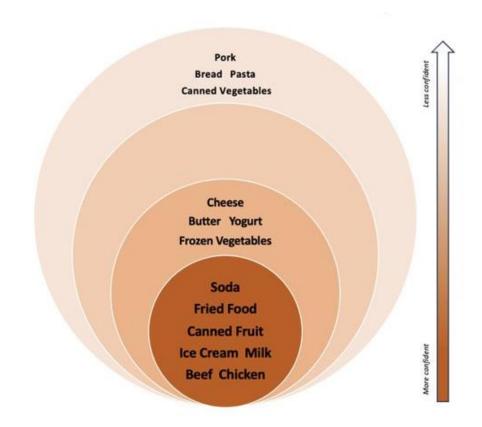
Roadmap for Today

- Identify key foods associated with brain protection and slower Parkinson's progression
- Review nutritional strategies for managing side effects of Parkinson's disease and medications
- Utilize practical meal planning and preparation techniques to integrate brain-protective foods into your daily diet



Degrees of Confidence in the Relationship Between Diet & Parkinson Severity





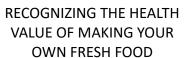
What else appears to be important?

- ✓ Cooking your own food
- ✓ A mostly plant based diet
- ✓ Buying organic as much as possible
- ✓ Eating minimally processed foods
- ✓ Having meals with others



Making the case for cooking







IMPROVING YOUR SKILLS



USING ADAPTIVE EQUIPMENT







KEEP IT SIMPLE













Equipment than makes cooking easier

- Crock pot or instapot
- Air frier
- Panini press (PFAS/PFOA Free)
- Blender
- Vegetable chopper
- Garlic press

Avoiding Pesticides

Environmental Working Group – Dirty Dozen

https://www.ewg.org/foodnews/dirty-dozen.php



13: Potatoes 14: Blueberries 15: Cherry Tomato

Fewest Pesticides

Environmental Working Group Clean 15

1. Avocados 2. Sweet corn* 3. Pineapple 6. Sweet peas 4. Onions 5. Papaya* (frozen) 7. Asparagus 8. Honeydew melon 9. Kiwi 10. Cabbage 11. Mushrooms 12. Cantaloupe 13. Mango 14: Watermelon 15. Sweet Potato

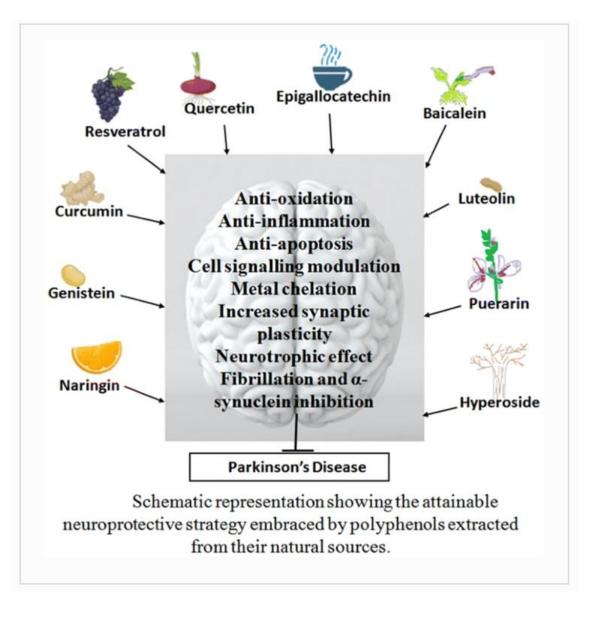
https://www.ewg.org/foodnews/clean-fifteen.php



Phytonutrient Spectrum Foods

RED					
Foods Apples Beans (adzuki, kidney, red) Beets Bell peppers Blood oranges	Cranberries Cherries Grapefruit (pink) Goji berries Grapes Onions Plums	Pomegranate Potatoes Radicchio Radishes Raspberries Strawberries Sweet red peppers	Rhubarb Rooibos tea Tomato Watermelon	Benefits Anti-cancer Anti-inflammatory Cell protection	Gastrointestinal health Heart health Hormone health Liver health
ORANGE					
Foods Apricots Bell peppers Cantaloupe Carrots	Mango Nectarine Orange Papaya Persimmons	Pumpkin Squash (acorn, buttercup, butternut, winter) Sweet potato	Tangerines Tumeric root Yams	Benefits Anti-cancer Anti-bacterial Immune health Cell protection	Reduced mortality Reproductive health Skin health Source of vitamin A
YELLOW					
Foods Apple Asian pears Banana	Bell peppers Corn Corn-on-the-cob Ginger root	Lemon Millet Pineapple	Starfruit Succotash Summer squash	Benefits Anti-cancer Anti-inflammatory Cell protection Cognition	Eye health Heart health Skin health Vascular health
GREEN					
Foods Apples Artichoke Asparagus Avocado Bamboo sprouts Bean sprouts Bell peppers Bitter melon	Bok choy Broccolin Broccolini Brussels sprouts Cabbage Celery Cucumbers Edamame/Soy beans Green beans	Green peas Greens (angula, beet, chard/suńs chard, collard, dandelion, kale, lettuce, mustard, spinach, turnip) Limes	Okra Olives Pears Snow peas Watercress Zucchini	Benefits Anti-cancer Anti-inflammatory Brain health Cell protection	Skin health Hormone balance Heart health Liver health
BLUE/PURPLE/BI	LACK				
Foods Bell peppers Berries (blue, black, boysenberries, huckleberries, marionberries)	Cabbage Carrots Cauliflower Eggplant Figs	Grapes Kale Olives Plums Potatoes	Prunes Raisins Rice (black or purple)	Benefits Anti-cancer Anti-inflammator Cell protection	Cognitive health Heart health Liver health
WHITE/TAN/BRO	OWN				
Foods Apples Applesauce Bean dips Cauliflower Cocoa Coconut Coffee	Dates Garlic Ginger Jicama Legumes (chickpeas, dried beans or peas, hummus, lentils, peanuts, refried beans / low-fat)	Mushrooms Nuts (almonds, cashews, pecans, walnuts) Onions Pears Sauerkraut Seeds (flax, hemp, pumpplein, sesame, sunflower)	Shallots Soy Tahini Tea (black, white) Whole grains (barley, brown, rice, oat, quinoa, rye, spelt, wheat)	Benefits Anti-cancer Anti-microbial Cell protection Gastrointestinal health	Heart health Hormone health Liver health





https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5986521/https://link.springer.com/article/10.1007/s11064-020-03058-3

Defining Processed Foods

Minimally processed

Highly processed

Nutrition Facts About 4.5 servings per container Serving size 2 oz (56g) **Total Fat** Saturated Fat Trans Fat Cholesterol Omg 0% Omg 0% Sodium **Total Carbohydrate** Dietary Fiber Soluble Fiber Insoluble Fiber 3g **Total Sugars** Protein Vitamin D Calcium Iron 3mg 15% 6mg 35% 518mg 10% 925mg 20% Not a significant source of added sugars * The % Daily Value tells you how much a nutrient calories a day is used for general nutrition advice. INGREDIENTS: RED LENTIL FLOUR. PRODUCED IN A DEDICATED GLUTEN FREE PLANT.



Ultra processed

Nutrition Facts Serving Size 1 Package (61.5g) Servings Per Container 36	calorie diet	illy Values a t. Your daily epending on Calories:	values may	be higher
Amount Per Serving	Total Fat Sat Fat	Less than Less than	65g 20g	80g 25a
Calories 250 Calories from fat 25	Cholesterol	Less than	300mg	300mg
% Daily Value*	Sodium Total Carboh Dietary Fit		2,400mg 300g 25g	2,400mg 375g 30a
Total Fat 2.5g 4%	Calories per			
Saturated Fat 2.5g 13%	Fat 9 •	Carbohydra		Protein 4
Trans Fat 0g	MADE OF: S HYDROGEN			IL; LESS
Cholesterol Omg 0%	THAN 2% O DEXTRIN, M			
Sodium 20mg 1%	NATURAL AI COLORS (TI	ND ARTIFIC	IAL FLAVOR	RS,
Total Carbohydrate 56g 19%	RED 40, YEL YELLOW 5, I	LOW 5 LAK	E, BLUE 1	LAKE,
Dietary Fiber Og 0%	LAKE), SODI	IUM CITRAT	E, CARNAL	JBA WAX.
Sugars 45g	G	luten-Free, (aeiatin-Free	
Protein 0g	PRODUCED	WITH GENE	TIC ENGIN	EERING
Vitamin A 0% • Vitamin C 0%				
Calcium 0% • Iron 0%				

Total Fat	Calories: Less than		2,000 80g
Sat. Fat			25g
Cholesterol	Less than		300mg
Sodium	Less than	2,400mg	2,400mg
Total Carbon	vdrate	300g	375g
Dietary Fiber		25g	30g
Calories pe Fat 9 •		ta 4 .	Protein 4
Lara -	Carnonyura	110 4 -	r i Otolii 4



Your Body is a Sophisticated Computer

What software / programs are you running?

Are you downloading garbled information?

Defining minimally processed foods

Can you identify each ingredient as a food?

Does this food have all of its original parts or has anything been removed?

Does each ingredient have an identity (tied to region, season, culture)?

Does it have the capacity to spoil / break down?

Would your ancestors recognize it as food?





FOLLOWING: ACESULFAME POTASSIUM, RED

40. BLUE 1

Parkinson's Pro Convenience Pantry Items

- Salad Dressings and Marinades
- Heat and eat meals including veggie burgers
- Grain products and cereals
- Legumes (beans) in a jar or pouch
- Dairy alternatives
- Snacks
- Sweets



What to look for on the label

- Quality of carbohydrates
 - 100% whole grain? Fiber?
 - How much sugar? 4g = 1 teaspoon
- Quality of Fats
 - Use olive oil avocado oil?
- Added ingredients
 - Does it look like a science project?
 - Can you pronounce everything?
 - How much salt?



INGREDIENTS: AVOCADO OIL, WATER, ORGANIC APPLE CIDER VINEGAR, ORGANIC DIJON MUSTARD (ORGANIC APPLE CIDER VINEGAR, WATER, ORGANIC MUSTARD SEED, SEA SALT, ORGANIC SPICES), ORGANIC COCONUT AMINOS (ORGANIC COCONUT SAP, SEA SALT), ORGANIC DISTILLED VINEGAR, ORGANIC GUM ACACIA, ORGANIC GUAR GUM, SEA SALT, ORGANIC EGGS, ORGANIC LEMON JUICE CONCENTRATE*, ORGANIC BLACK PEPPER, ORGANIC GARLIC, ORGANIC CHIVES, TARRAGON, ORGANIC PARSLEY, ORGANIC SAVORY, ORGANIC ROSEMARY EXTRACT *ADDS A NEGLIGIBLE AMOUNT OF SUGAR.

CONTAINS: EGGS, COCONUT

8 servings per container Serving size 2/3 cu	p (55g
Amount per serving Calories	230
% Da	ily Value
Total Fat 8g	109
Saturated Fat 1g	59
Trans Fat 0g	
Cholesterol Omg	09
Sodium 160mg	79
Total Carbohydrate 37g	139
Dietary Fiber 4q	149
Total Sugars 12g	
Includes 10g Added Sugars	20%
Protein 3g	
Vitamin D 2mcg	109
Calcium 260mg	209
Iron 8mg	459
Potassium 235mg	69

Foods Associated with Faster Progression of Parkinson's	Eat this instead
Milk	Dairy free milks: Coconut, Oat, Almond, Cashew, Flax. Soy is also DF but is high in protein. (Califa and Elmhurst brands have the least processed ingredients)
Cheese	Dairy free cheese: Follow your Heart, Miyokos (excellent DF butter), Daiya, Violife, Chao
Yogurt	Dairy Free Yogurt: Silk, SoDelicious, Oui, Kite Hill (some are higher protein), Sigis (some are higher protein), Forager, Nancy's, Coco Jun
Frozen Vegetables and Canned Vegetables and Fruits	Fresh vegetables: ones that last longer: cabbage, carrots, celery, root vegetables (sweet potato, red, yellow and purple potatoes), winter squash. Put a paper towel in your prewashed greens. Bagged salads.
Pork, Chicken, Beef	Fish, shellfish, legumes (beans), tofu, tempeh, eggs
Foods / beverages stored in plastic especially water	Glass containers are best
Soda / Diet Soda	Splash juice in sparkling water, cinnamon tea made strong and poured over ice (Bengal Spice, Pukka), kombucha, kefir water (Kevita)
White Pasta	Quinoa, farro, sorghum, gluten free pasta (legume, rice and quinoa based), zoodles (zucchini noodles), spaghetti squash, soba noodles (buckwheat)
Ice Cream	Dairy Free Ice Cream: Coconut, Oat, Soy (may have more protein) Sorbet – make a smoothie, frozen fruit (bananas, mango, berries with DF whip cream)
Fried Foods	Baked, Air Frier, use spices to protect the food from high heat, dehydrated (apples, bananas, peppers, coconut) Craving something crispy? Nori (dried seaweed), kale chips, snap peas, baby carrots
Artificial sweeteners, colors and flavors (aspartame depletes dopamine)	Natural ingredients, check labels, fruit and vegetable colors

Parkinson's Healthy Plate



FRUITS

Consume a variety of fruits each day with meals, snacks or as a healthy dessert choice.

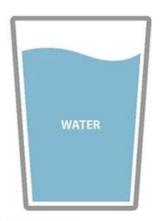
VEGETABLES

Fill your plate with a variety of raw and cooked vegetables. Include at least one green vegetable and one other color of vegetable with every meal.



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as brown rice, guinoa, oats, whole grain breads and pastas or starchy vegetables like sweet potatoes and squash. Limit refined grains: white rice, white breads and pastas.



DIGESTIVES

Fermented foods such as sauerkraut, yogurt, miso, tempeh, kimchi, apple cider vinegar, kombucha, kefir and lacto fermented vegetables can aid in immune function, digestion and support the normal flora of the digestive tract.

HEALTHY FAT

Include fats from whole foods such as avocado, nuts. seeds and fatty fish. Use cold pressed oils such as olive and avocado oil for dressings and marinades and olive oil and coconut oil for cooking and baking.

PROTEINS

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Include a variety of pro PD proteins such as legumes, nuts and seeds, fish and eggs. Grains such as quinoa, teff, and amaranth also contain protein. Select organic proteins when possible

BASTYR CENTER FOR NATURAL HEALTH

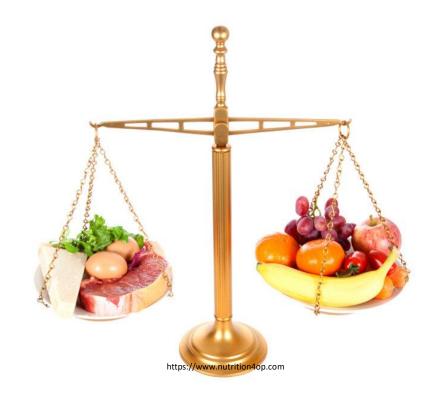
the teaching clinic

of Bastyr University www.BastyrCenter.org

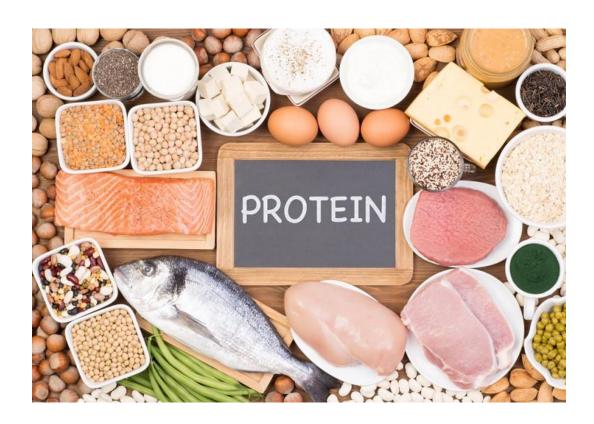
Parkinson's Specific Dietary Considerations

Protein and Levodopa

- Protein can interfere with your levodopa medication and reduce effectiveness
- Take your Levodopa medication:
 - On an empty stomach 30 minutes before or 60 minutes after a meal that contains protein
 - Wait until you are on to eat protein
 - To prevent nausea, take with a low protein food like crackers, rice, toast or fruit
 - To aid absorption, take with some lemon juice (1-2 Tbs) or vitamin C (200 mg)



What foods have protein?



• Highest levels / most concentrated:

- Beef, pork, poultry and fish, shellfish
- Eggs
- Tofu (esp firm and extra firm)
- Milk, yogurt and cheese
- Protein powders, bars and drinks

Less concentrated:

- Legumes
- Nuts and seeds and nut butters
- Pseudograins like quinoa, teff and amaranth

Least concentrated

- Whole grains and starches
- Vegetables
- Fruit

Protein Distribution

- Protein is an essential nutrient and helps with muscle strength, balance, immunity and healing
- Make sure you are "on" before eating protein rich foods
- Some people need to eat less protein during the day and eat their largest protein meal at night
 - How much less? Between 5-10 grams protein per serving

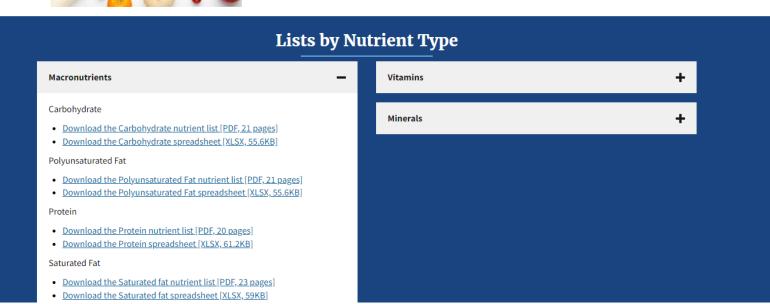
- What counts for 5 10 grams of protein?
 - 1 egg = 7 grams
 - ½ cup beans (legumes) = 8 grams
 - ½ cup cooked quinoa, farro, sorghum or teff = 4 grams
 - ¼ cup most nuts = 4 9 grams
 - 2 Tablespoons peanut butter = 8 grams
 - 1 cup cooked brown rice or oatmeal =
 5 grams
 - 1 medium sweet potato = 4 grams
 - 2 slices bread (including gluten free) =
 4 6 grams



Nutrient Lists from Standard Reference Legacy (2018)



View nutrient lists from the USDA National Nutrient Database for Standard Reference (SR) Legacy, which was released in 2018 and is no longer being updated. Lists are available in the following static formats: portable document format (PDF) and Excel spreadsheet (XLSX).



 The USDA has extensive nutrient composition lists

https://www.nal.usda.gov/human-nutrition-and-food-safety/nutrient-lists-standard-reference-legacy-2018

What this looks like for many people

(although everyone is individual).....

• Breakfast: ~5-10 grams protein

• Snack: ~ 5 grams protein

• Lunch: ~5-10 grams protein

• Snack: ~5 grams protein

• Dinner: ~30 grams protein

• Snack: ~10 – 20 grams protein



Parkinson's Pro Meal Pattern Example

Daytime (less protein)

Salad greens, ¼ cup garbanzo beans, cut up veggies, roasted sweet potato, dairy free feta cheese, avocado and whole grain crackers



https://www.forkinthekitchen.com/wprm print/5327

Evening (more protein)

Fish tacos with avocado and lime, black beans and salad



https://kristineskitchenblog.com/fish-tacos/

Constipation

• The 4 F's

- Fiber oats, flax, chia, fruits, vegetables, beans, whole grains, nuts and seeds
- Fluid stay hydrated
- Flora fermented foods and fiber
- Physical Activity

Easy Chia Pudding:

2 tablespoons chia seeds

1 cup dairy free milk

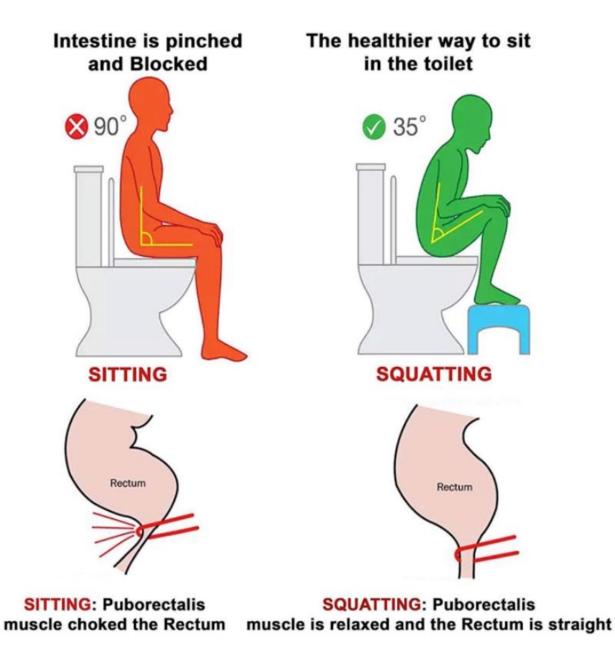
½ tablespoon maple syrup

Toppings of choice: combine all ingredients in a small bowl or jar and let sit overnight in the fridge



Constipation

- Squatty Potty
- Abdominal massage
- Heating pad
- Magnesium
- Psyllium
- Polyethylene glycol (MiraLAX)



Gut Motility Activators

- Ginger in all forms
 - Tea, powder, candy, pickled ginger
- Bitter flavors
 - Green vegetables, green tea, chamomile, ginger, roasted dandelion root, citrus fruits and zest, coffee, dark chocolate, turmeric
- Probiotics- fermented foods and dietary supplements
 - Dairy free yogurt and kefir, pickles, fermented vegetables, miso, apple cider vinegar, kvass, kombucha
- Hydration drink / sip plenty of water ½
 body weight in ounces (ie 150 lbs = 75 ounces)



https://www.instagram.com/jilliangreavesrd/



Making dietary changes....

- How is your current eating pattern similar to the Parkinson's Pro diet?
- How is it different?
- What can you modify?
- What can you add in?

Finding your Motivation

- What really matters to you?
- What are the benefits?
- What are the barriers?

 Often, motivation grows when you take action



Make a Goal and a Plan

• "It takes as much energy to wish as it does to plan"

- What will be your goal for the week?
 - Cook something (new) from scratch?
 - Try a new recipe?
 - Incorporate more / new foods



Resources:

Mediterranean diet recipes:

- Old Ways Foundation (website)
- Eating Well Magazine (website)

Mind Diet recipes:

- Mind Diet Recipes by Julie Andrews MS, RDN (book)
- Mind Diet for Beginners by Kelli McGrane, MS, RDN (book)

Vegan recipes:

- Becoming Vegan by Vesanto Melina (book)
- Pick Up Limes (blog)
- The Full Helping (blog)
- The Minimalist Vegan (blog)
- Vegan Richa (blog)
- Forks over Knives (website)

Beans

The Bean Institute (Website)

Cooking

- Cookus Interruptus (You Tube)
- All Recipes (many recipes have videos)

Use Cronometer – free diet tracking app to put in ingredients to get protein per serving and calories

Meal Delivery – If you need a break

- Daily Harvest https://www.daily-harvest.com/
- Thistle: https://www.thistle.co/
- Modify Health (Mediterranean) https://modifyhealth.com/
- Shef available in some areas local chefs https://shef.com/











Chat GPT – Artificial Intelligence online tool can help with meal ideas, recipes and shopping lists

- https://openai.com/blog/chatgpt
- Potential prompts:
 - Give me 5 ideas for how to cook farro according to a dairy free Mediterranean diet
 - Provide a weeks worth of meals using MIND diet principles that can be made in 20 minutes or less
 - Provide recipes and a shopping list for these meals....
 - Provide a recipe for how to use these three ingredients (enter ingredients) using a MIND diet perspective
 - Create a shopping list for the recipes you just gave me

