Live Well With Chronic Illness Health Coaching



Nutrition for Fatigue



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QUALIFICATIONS:

- ✓ Naturopathic Nutrition and Health Coaching: Diploma-College of Naturopathic Medicine (CNM)
- ✓ Hypnotherapy and Psychotherapy: Mindworks
- ✓ Mindfulness Teacher: Teach 10 Institute

MEMBERSHIPS:

- ✓ National Council for Integrative Psychotherapists (NCIP)
- ✓ UK & International Health Coaching Association (UKIHCA)
- ✓ The Association of Naturopathic Practitioners (ANP)



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Specialises in Lyme Disease, MCAS, Dysautonomia and Chronic Pain

Nutrition for Fatigue

It's important to acknowledge that dietary changes are not a 'magic wand' for fatigue conditions

They are not a 'cure'

There are many, complex medical causes for fatigue conditions, and what helps one person won't necessarily help another

There is no 'one answer' for fatigue conditions

However, I found on my own health journey that what I ate made a big impact on my symptoms, and I've learned that there are lots of ways in which diet can impact on fatigue.

Making small changes can, sometimes, make a big different in how we feel on a day-to-day basis

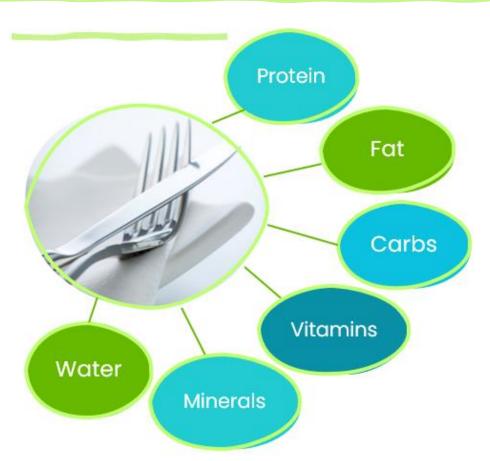
This is NOT about blame – It's about empowerment.







What is Nutrition?



Food:

Any nutritious substance that people or animals eat or drink or plants absorb that maintains life and growth.



Nutrient:

A substance that provides nourishment essential for the maintenance of life and growth.

Naturopathic Nutrition:

Food as Medicine. Looking at the medicinal properties of food and understanding the ways in what we eat can either keep us healthy or make us sick.

Looking at each person as an individual, with personalised dietary requirements.



Macro & Micro Nutrients

Our bodies don't make these substances – we get them from food.

Macro Nutrients

- Proteins
- Fats
- Carbohydrates

Micro Nutrients

- Vitamins
- Minerals



"Your body and brain are entirely made from molecules derived from food, air and water".

Patrick Holford



If we don't eat them, we don't get them! And we become malnourished.

What is Fatigue?

W E W E L C W R O N 1 C

The medical definition is

'Tiredness that is not relieved by sleep'

However, people who experience fatigue-related conditions also experience a wide range of additional symptoms along with fatigue

Poor sleep

Pain

Low mood

Anxiety

IBS

Neurological symptoms – headache, neuropathy, weakness

Food intolerances

Allergies

Chemical sensitivity



Image by Gerd Altmann from Pixabay



What is Fatigue?

Conditions that include fatigue as one of their symptoms

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ME/CFS

Long Covid

Fibromyalgia

MCAS

Dysautonomia/POTS

Lyme Disease

Cancer

Parkinson's

Multiple Sclerosis

Cancer

Stroke

Brain injury

Depression

Hypothyroidism/Hashimoto's

Autoimmune conditions-IBD, Lupus, Rheumatoid Arthritis





What Causes Fatigue?

Nutrient deficiencies

Blood sugar issues

Mitochondrial dysfunction

Inflammation

Food intolerances

Dehydration

Underactive thyroid

Gut dysbiosis

Post-Viral Illness

Neurological injury – stroke, brain injury

Neurological dysfunction

Poor sleep – sleep apnoea, wakeful sleep

Hormonal imbalance

Cancer Treatment

Hypoxia – lack of oxygen

Infections – bacterial or fungal overgrowth

Mould illness

Chronic pain

Mental/emotional distress/trauma







Nat Rev Dis Primers. 2015 Aug 13;1:15022. Neuroscience. 2016 Dec 3;338:114-129

Research on Diet for Fatigue

Research into links between fatigue conditions and dietary changes indicate some people find their symptoms improved after:

W E W E L P

- Reducing Gluten
- Eating a generally healthy diet avoiding processed foods, increasing fruit and vegetables
- Increasing consumption of antioxidant foods
- Avoiding food additives like aspartame (artificial sweeteners) and Monosodium Glutamate (MSG) which is often added to processed foods. Both can have a toxic effect on the nervous system
- 2014 survey by Action for ME found 51% had tried making dietary changes to help them manage their symptoms.
 Of these, 72% said it was helpful or very helpful
- Why might that be?



https://www.actionforme.org.uk/getinformation/managing-yoursymptoms/diet-and-nutrition/



How We Make Energy



Glucose is the body's main source of energy

If blood glucose levels drop, it causes fatigue, shakiness, weakness, brain fog.

Glucose is obtained from foods containing carbohydrates

Complex carbs are better than refined carbs for maintaining steady energy levels

Low blood sugar causes fatigue

Low blood sugar, or poor insulin function (diabetes or insulin resistance) can both cause fatigue as the glucose isn't getting into the cells.





Glucose for Energy

Refined carbs

Broken down very quickly,
Spike in blood glucose
Spike in insulin to get the glucose into the cell.
But then blood sugar levels drop again very quickly.

This can cause a 'roller coaster' effect, where we get highs and lows of energy

Complex carbs

Broken down much more slowly, Their glucose 'load' is released slowly too The body gets a steady supply of energy.

Eating regular meals of complex carbs is the main way that blood sugar levels are maintained, and healthy bodies obtain a steady supply of glucose for energyproduction. **Refined Carbs** - like white bread, pasta, rice, cakes, white sugar, pastry, biscuits



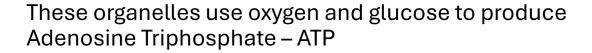
Complex Carbs

like brown rice, brown bread, brown pasta, vegetable starches, seeds, nuts, and pulses



Mitochondria - the body's energy factory

Within almost every cell in the body there are mitochondria



When we talk about 'energy' in the context of the body, we are talking about ATP.

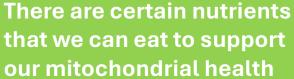
ATP is required for every single bodily function

If our mitochondria are not functioning well, we are not going to be making enough ATP

Mitochondria can be affected by

Infections – viral/bacterial/fungal **Stress Toxin exposure Trauma Oxidative stress**

that we can eat to support



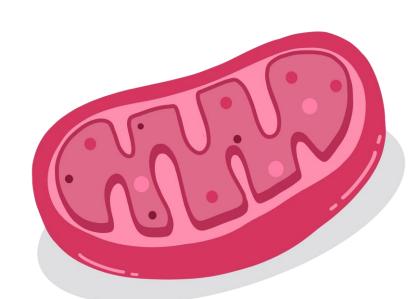




Image by Sieglinde Sterbling from Pixabay

B Vitamins



All of the B Vitamins are essential to support energy production.

A deficiency in B Vitamins often leads to people experiencing severe fatigue, as without B vitamins, the Mitochondria can't function and create ATP

Foods that are rich in B Vitamins

Fish like salmon, tuna and trout

Liver and organ meats

Eggs

Shellfish like oysters, clams and mussels

Poultry - Chicken and turkey

Dairy - Milk and yoghurt

Leafy green vegetables
Pulses like chickpeas, lentils,
peas, pinto beans, kidney
beans etc
Nutritional yeast

Seeds - Sunflower seeds, pumpkin seeds, linseeds **Avocado**





Image by Sieglinde Sterbling from Pixabay

CoQ10

Co-Enzyme Q10 is essential for Mitochondrial function

It is required for the production of ATP
It also acts as an anti-oxidant, protecting mitochondria from damage from oxidative stress (more on this later!)

As well as combating fatigue, CoQ10 also has benefits for heart health, skin health, lung health, brain health, migraine and cancer prevention

Reduced levels of CoQ10 can happen because of

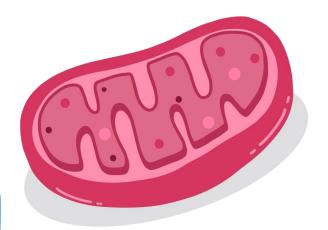
- Ageing
- Oxidative stress
- Toxin exposure
- Mitochondrial damage
- Disease
- Statins
- Nutrition deficiencies



Foods rich in CoQ10

- •Liver and other organ meats
- Pork, beef and chicken
- Fish like trout, herring, mackerel, and sardines
- •Legumes: soybeans, lentils, and peanuts
- •Nuts and seeds: sesame seeds and pistachios





Magnesium

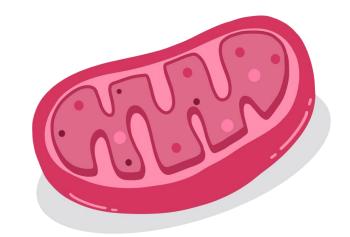
Magnesium is required for over 600 different functions in the body, including the production of ATP in the mitochondria

Without enough magnesium, we can't make DNA, we can't move our muscles, we can't regulate our blood pressure, we can't send signals through our nerves, our brain doesn't work properly, our heart doesn't work properly, and many, many other things.

Fatigue can be caused by lack of magnesium.
Imagine the effect that not having enough magnesium would have on all of those functions, and how that would impact our overall health.

Between 60-70% of the US population is not meeting RDA in their diet. Likely to be similar in UK

https://www.healthline.com/nutrition/what-does-magnesium-do https://www.healthline.com/nutrition/magnesium-deficiency-symptoms





Foods rich in Magnesium

- Dark chocolate
- Avocado
- Fish like trout, herring, mackerel, and sardines
- •Legumes: beans, peas, lentils
- Nuts and seeds
- Wholegrains
- Dark green leafy greens
- Bananas



Vitamin D

Vitamin D is also essential for mitochondria to function well

Fatigue is a symptom of vitamin D deficiency.

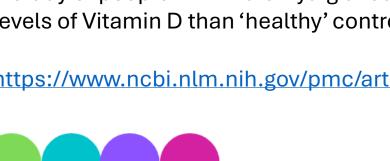
Many people living in the Western Hemisphere are deficient in Vitamin D, especially during the winter months

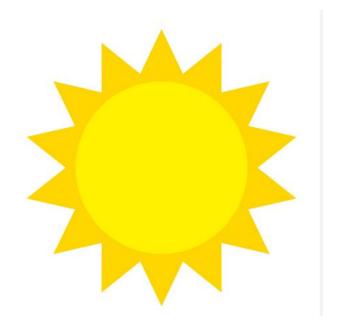
A 2015 study of female nurses in Iran found a connection between low vitamin D levels and self-reported fatigue. 89% of the participants were then found to be deficient.

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4954906/

A study of people with Fibromyalgia found they all had lower levels of Vitamin D than 'healthy' controls

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5665736/







Sources of vitamin D **Sunlight** Exposure to at least 15 minutes of sunlight per day Fatty fish like salmon, mackerel, herring

Egg yolks **Dairy yoghurts** Liver

Mushrooms

Antioxidants

Free Radicals damage our mitochondria and prevent us from making energy efficiently

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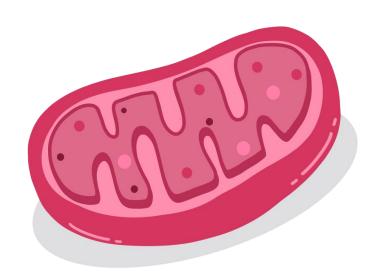
Free Radicals do this by creating 'oxidative stress' on the body

Unstable molecules that 'steal' electrons from other cells, making them unstable.

Free Radical Exposure is caused by

- Natural metabolic processes like detoxification and energy-production
- Exposure to viral infections
- Exposure to toxins
- Cigarette and vape smoke
- Processed foods
- Radiation





Antioxidants

Antioxidants are natural components in some foods that stabilise the unstable free radicals and neutralise them.

The more anti-oxidants we consume the less damage from free radicals, the more our mitochondria are protected and can make energy.

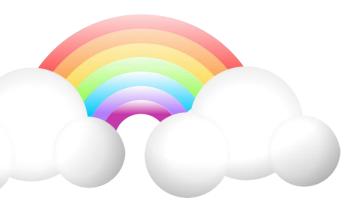
- Fruit and Vegetables contain antioxidant vitamins (A, E and C and CoQ10) and phytonutrients
- Chemicals found in plants that are anti-oxidants and prevent oxidative damage, and also prevent inflammation

Eating lots of fruit and vegetables protect the mitochondria from damage from free radicals



- Red fruits and vegetables lycopene
- Orange fruits and vegetables beta carotene
- Blue fruits and vegetables anthocyanins
- White fruits and vegetables sulphur











Pro-Inflammatory Foods

Inflammation is exhausting. It consumes a lot of energy to produce inflammation all the time.

Some foods provoke inflammation These foods worsen fatigue and increase oxidative stress in the body

Trans fats, heated fats, hydrogenated fats
Processed foods
Processed meats
Sugar
Refined carbs – white bread, pasta, rice, cakes etc
Gluten
Dairy – for some people
Fizzy drinks

Artificial sweeteners like Aspartame





Food Intolerances

Common Foods that can trigger inflammation

- Gluten
- Grains
- Dairy
- Eggs
- Additives E Numbers
- Histamine
- Nightshades
- Oxalates
- Lectins
- Salicylates

Not necessarily bowel symptoms

Can cause systemic issues, fatigue, IBS, respiratory issues, joint pain, skin issues, neurological issues, sleep issues, brain fog, depression, anxiety.





How to reduce Food Intolerances

Keep a food diary and note symptoms

Reactions can be delayed by 48 hours

Look for patterns

Trial elimination diets, with expert guidance

Food intolerance testing – expensive and can be unreliable, seek expert advice

Kinesiology – using muscle testing – can help identify food intolerances

Seek nutritional advice if you suspect you may have food intolerances
IMPORTANT NOT TO CUT OUT FOODS UNECESSARILY



Healing the gut with pre and probiotic foods can help reduce food intolerance





Water

It may sound really obvious, but studies show that dehydration makes fatigue much worse.

Our bodies need around 2 litres of fresh, pure water every day to be healthy.

Our brain is composed of 75% water. Water is needed to produce neurotransmitters and energy for the brain. Even 2% dehydration can affect brain function.

Caffeinated drinks like tea, coffee and fizzy pop, and alcoholic drinks don't count, as they dehydrate us even more.

If you are experiencing fatigue, make sure you are drinking at least 2 litres of fresh, filtered water a day, as this may make a difference.







Thyroid Health

A healthy thyroid is essential for our metabolism which governs the process of converting food into energy

Fatigue is a key symptom of an underactive thyroid, or suboptimal thyroid hormone function





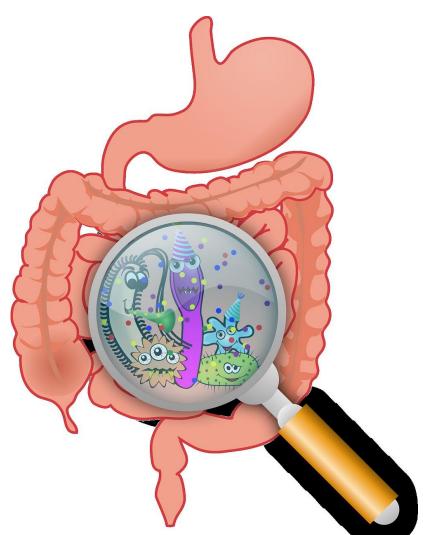
Nutrients essential for the thyroid include

- Iodine Sources: Iodized salt, seafood (especially seaweed), dairy products, and eggs.
- **Selenium Sources:** Brazil nuts, fish, sunflower seeds, eggs, and meats.
- Zinc Sources: Shellfish, meat, legumes, nuts, and seeds.
- Iron Sources: Red meat, lentils, spinach, fortified cereals, and pumpkin seeds.
- Vitamin A Sources: Carrots, sweet potatoes, and leafy greens.



The Gut Microbiome





- There are trillions of viruses, bacteria and fungi living in your gut!
- There are more micro-organism cells than human cells, 10-1 (according to some).
- There are as many as 1000 different species of bacteria.
- Many of these micro-organisms are essential for health.
- When harmful bacteria outnumber good bacteria, it's called dysbiosis.
- A dysbiotic gut microbiome has been linked in studies to fatigue conditions, especially ME and cancer
- https://www.nature.com/articles/s41598-021-84783-9
- https://www.frontiersin.org/journals/immunology/articles/10.3389/fimmu.2021.628741/full?s=09&fbclid=IwAR3JHgMkpGa2C8v5FGCKzG_Rhys6zH9tFkBAW5dVx02u9yg161K3tZ43aJ0

Gut Microbiome and Fatigue



Poor gut health is implicated in many health conditions.

ME/CFS

Studies show that some people with ME/CFS had abnormally low levels of several bacterial species compared to healthy controls, including Faecalibacterium prausnitzii (F. prausnitzii) and Eubacterium rectale. (8 Feb 2023 Dr Williams)

Currently, a research study is being conducted in partnership with UEA into faecal transplants in the treatment of ME.

https://meassociation.org.uk/2023/02/radio-4-today-programme-covers-faecal-microbiota-transplantation-fmt-and-me-cfs/

- Crohn's Disease
- Ulcerative Colitis
- Type 2 Diabetes
- Cardiovascular disease
- Autoimmune disease
- MS

Energy metabolism, fat storage and weight loss

Depression and Anxiety – studies show that there is a link between incorrect gut flora and depression and anxiety.

Food to Keep Your Gut Happy

Prebiotics Prebiotics are foods that feed the gut bacteria – mushrooms, oats, artichokes, fibre, cruciferous veg



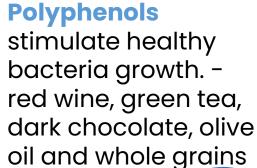








Probiotics are live, healthy bacteria found in fermented foods. kombucha, natto, kimchi, kefir, sauerkraut, kombucha, live yoghurt.







Summary

Causes of Fatigue that can be influenced by diet:

- Nutrient deficiencies
- Blood sugar issues
- Mitochondrial dysfunction
- Inflammation
- Food intolerances
- Dehydration
- Underactive thyroid
- Gut dysbiosis



To support your body to make as much energy as possible.

Eat nutrients that support your mitochondria function-

- B Vitamins
- CoQ10
- Vitamin D
- Magnesium
- Eat complex carbs small meals regularly
- Eat Antioxidant foods Eat a Rainbow of fruit and veg
- Avoid Foods that provoke inflammation processed foods
- Consider food intolerances
- Drink 2 litres of water a day
- Eat nutrients that support Thyroid function
- Support your gut microbiome

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Any Questions?





