Factors that Affect Thyroid Function

Factors that contribute to proper production of thyroid hormones

Nutrients: iron, iodine, tyrosine, zinc, selenium, vitamins E, B2, B3, B6, C, D

Factors that increase conversion of T4 to RT3

Stress

Trauma

Low-calorie diet

Inflammation

Toxins

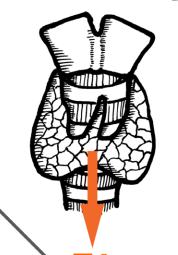
Infections

Liver/kidney dysfunction

Certain medications

RT3 and T3 competing for binding sites

Adapted from materials from The Institute for Functional Medicine



Factors that inhibit proper production of thyroid hormones

Stress

Infection, trauma, radiation

Certain medications

Autoimmune disease

Fluoride (antagonist to iodine)

Toxins: pesticides, mercury, cadmium, lead

Factors that increase conversion of

T4 to T3

Selenium

Zinc

Factors that improve cellular sensitivity to thyroid hormones

Vitamin A

Exercise

Zinc





KEY NUTRIENTS FOR THYROID FUNCTION

nutrient	food sources	how it helps your thyroid
Iron	red meat, particularly organ meats, nutritional yeast, dark leafy greens, lentils, pumpkin seeds	contributes to proper production of thyroid hormones
lodine	sea vegetables (nori, kelp and dulse), shrimp, milk, eggs, seafood, navy beans, strawberries	contributes to proper production of thyroid hormones
Tyrosine	meat, fish, shellfish, and poultry, egg whites, yogurt, tofu (non GMO), pumpkin seeds, avocados	contributes to proper production of thyroid hormones
Zinc	oysters, red meat, particularly organ meats, pumpkin seeds	contributes to proper production of thyroid hormones; increases conversion of T4 to T3; improves cellular sensitivity to thyroid hormones
Selenium	Brazil nuts, meat, fish, shellfish, and poultry	contributes to proper production of thyroid hormones; increases conversion of T4 to T3
Vitamin E	sunflower seeds, almonds, dark leafy greens, avocados	contributes to proper production of thyroid hormones
Vitamin B2	soybeans (non GMO), dark leafy greens, yogurt, crimini mushrooms, asparagus	contributes to proper production of thyroid hormones
Vitamin B3	tuna, chicken, turkey, nutritional yeast	contributes to proper production of thyroid hormones
Vitamin B6	tuna, poultry, red meat, particularly organ meats, nutritional yeast	contributes to proper production of thyroid hormones
Vitamin C	papaya, bell peppers, broccoli, brussel sprouts, oranges, pineapple	contributes to proper production of thyroid hormones
Vitamin D	salmon, milk, egg yolks, mushrooms THE SUN!	contributes to proper production of thyroid hormones
Vitamin A (as beta carotene)	sweet potatoes, carrots, dark leafy greens, squash, red peppers	improves cellular sensitivity to thyroid hormones
Vitamin A (as retinol)	liver, cod liver oil (fermented is better), egg yolks, butter	improves cellular sensitivity to thyroid hormones

Get out your highlighter! Go through the list of food sources and see which ones you can include more of in your diet. Tack the list up and be sure to incorporate more of the ingredients you've identified in your weekly (or daily!) meals.

Don't forget to spend some time recognizing what those foods are doing for you. (This is the 'how it helps your thyroid' column.) Really receive the powers they bring to your thyroid care. Let's not overlook the many good steps we take each and every day. We call this *nourishment*.