Graves' Disease

By Robert Ferguson

As a nutritionist, many people come to me for weight loss, improving overall health, and reducing or eliminating the need for medications. However, some seek help with specific health conditions. My decision to write about Graves' disease was inspired by Sarah, a client diagnosed with the condition who asked if I could help her. I said yes, knowing the first step was to test her omega-6 to omega-3 ratios, omega-3 index, and arachidonic acid percentages. Recommending BalanceOil+ was an obvious choice because reducing inflammation is crucial, and its unique combination of omega-3s and polyphenols made it the ideal solution.

What is Graves' Disease?

Graves' disease is an autoimmune disorder that causes the thyroid gland to overproduce thyroid hormones, leading to hyperthyroidism. Symptoms include weight loss, rapid heartbeat, anxiety, heat intolerance, and eye problems (Graves' ophthalmopathy).

Who is Most Likely to Develop Graves' Disease?

Graves' disease is significantly more common in women (4 to 10 times more frequently than men) and typically develops between ages 30 and 60, though it can occur at any age, including in children and older adults. Risk factors include family history, autoimmune diseases, emotional stress, recent childbirth, and smoking.

How Graves' Disease Affects Health and Quality of Life

- **Physical Health:** Symptoms include rapid heartbeat, weight loss, and heat intolerance. Left untreated, Graves' disease can cause serious complications such as atrial fibrillation (increasing stroke risk) and osteoporosis due to bone loss (<u>NIDDK</u>).
- Eye Health: Up to 50% of individuals with Graves' disease develop Graves' ophthalmopathy, leading to eye discomfort, double vision, and potential vision loss (<u>NIDDK</u>).
- **Mental Health:** Patients frequently experience heightened anxiety and depression, with studies showing higher rates compared to other hyperthyroid causes (SpringerOpen).
- **Quality of Life:** Graves' disease significantly impairs health-related quality of life (HRQOL), affecting physical, mental, and social well-being. Even after treatment, some patients continue to face reduced HRQOL (<u>PubMed</u>).
- Associated Conditions and Mortality: Graves' disease is linked to higher cardiovascular morbidity and mortality. Long-term studies show an increased risk of cardiovascular issues, contributing to higher mortality rates in individuals with Graves' disease (OUP).

How Graves' Disease Can Lead to Hashimoto's Thyroiditis

Both Graves' disease and Hashimoto's thyroiditis are autoimmune disorders affecting the thyroid, but they cause opposite effects. Graves' disease leads to an overactive thyroid, while Hashimoto's causes the thyroid to become underactive. In some cases, individuals with Graves' disease may later develop Hashimoto's thyroiditis, resulting in a transition from hyperthyroidism to hypothyroidism as the immune system continues to attack the thyroid gland. Conversely, there are also reports of Hashimoto's progressing to Graves' disease, highlighting the complex interplay of immune mechanisms involved in thyroid function (Wiley). This progression underscores the importance of ongoing monitoring and management for individuals with autoimmune thyroid disorders.

How is Graves' Disease Diagnosed?

- **Physical Exam:** Checks for an enlarged thyroid, rapid heart rate, eye bulging, tremors, and weight loss.
- **Blood Tests:** Low TSH and high T3/T4 levels; thyroid antibody tests detect thyroid-stimulating immunoglobulin (TSI).
- Radioactive Iodine Uptake Test: Measures iodine absorption by the thyroid.
- Ultrasound: Assesses thyroid size and blood flow.
- Eye Exam: Evaluates bulging eyes, redness, and vision issues.

The Role of Omega-3s and Polyphenols in Graves' Disease

While low levels of omega-3s are not a direct cause of Graves' disease, their anti-inflammatory properties can help manage symptoms. Research shows omega-3s reduce inflammation and support immune function. Polyphenols also contribute by protecting cells from oxidative stress and supporting thyroid function.

Why BalanceOil+ Stands Out

BalanceOil+ is unique because it combines high-quality omega-3s with polyphenols extracted from unripe olives. Unlike typical fish oil supplements, which lose polyphenols during purification, BalanceOil+ infuses polyphenols back into the oil. These polyphenols protect omega-3s from oxidation, enhance their stability, and act as a 'chaperone' to improve omega-3 absorption into tissues and cell membranes, maximizing their benefits. This unique combination helps create an anti-inflammatory environment crucial for managing autoimmune conditions like Graves' disease.

Sarah's Journey to Relief

Sarah, a 35-year-old woman diagnosed with Graves' disease, sought my help. I guided her on balancing omega-6 to omega-3 ratios, maintaining an optimal Omega-3 Index, and managing arachidonic acid levels. With dietary adjustments and BalanceOil+, Sarah improved her energy, reduced anxiety, and stabilized her thyroid levels.

The Science Behind the Approach

- **Omega-3s:** Reduce inflammation, support immune function, and improve eye health.
- **Polyphenols:** Protect against oxidative stress, reduce inflammation, and support thyroid health.
- **Balanced Ratios:** Essential for creating an anti-inflammatory environment, which BalanceOil+ helps achieve through its unique formulation.

Conclusion

Graves' disease can significantly affect health and quality of life, increasing risks of heart disease, osteoporosis, and vision loss, with a higher mortality risk due to cardiovascular complications. It can also progress to Hashimoto's thyroiditis, leading to hypothyroidism over time. While omega-3s and polyphenols are not direct cures, BalanceOil+ offers promising support for managing symptoms and improving overall well-being, as seen in Sarah's journey.

References

- 1. Simopoulos, A. P. (2008). *The Importance of the Omega-6/Omega-3 Fatty Acid Ratio in Chronic Diseases*. Experimental Biology and Medicine, 233(6), 674–688.
- 2. Stokkeland, M., & Norseth, J. (2011). *Remission of Postpartum Graves' Disease with Omega-3 Supplements*. Journal of Medical Case Reports, 5, 436.
- 3. Lands, W. E. M. (2005). *Fish, Omega-3 and Human Health*. American Oil Chemists' Society Press.
- 4. Panoff, L. (2024). *My Graves' Disease Diagnosis Changed My Life for the Better*. Verywell Health.
- 5. Bobrowska-Korczak, B., et al. (2019). *Inhibitory Effects of Polyphenols on Thyroid Peroxidase Activity*. PMC.
- 6. Gu, Y., et al. (2023). Tea Polyphenols and Graves' Ophthalmopathy. Springer.
- 7. Gökbuget, D., et al. (2019). *Curcumin and Inflammatory Cytokines in Graves' Ophthalmopathy*. ARVO.
- 8. *Graves' Disease Statistics and Risk Factors* (WomensHealth.gov, Cleveland Clinic).
- 9. *Impact on Health and Quality of Life* (<u>NIDDK</u>, SpringerOpen, <u>PubMed</u>, OUP).
- 10. Pishdad, P., et al. (2023). *Transition from Graves' Disease to Hashimoto's Thyroiditis: A Case Report and Review of the Literature*. Clinical Case Reports, 11(8), e6466. (Wiley)

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