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Editorial

How to Choose the Best Option to Treat People with Recurrent Graves' Hyperthyroidism

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Editorial

Graves' Hyperthyroidism (GH) is an autoimmune disease that as other autoimmune diseases is characterized for oscillate activity over its course, thus the patients can enter into a remission phase without undergoing any type of specific treatment. GH is the most common form of hyperthyroidism in populations with an adequate iodine intake, most often affecting women age between 30 to 50. Untreated GH is associated with increased mortality and morbidity for this reason timely treatment is critical.

Actually, there is consensus that Antithyroid Drugs (ATD) mainly methimazole are the first option to treat incident cases with GH, being Radioactive Iodine (RI) and a Total Thyroidectomy (TT) reserved as second-line therapies [1]. The major drawback of ATD treatment is its around 50% recurrence rate of hyperthyroidism after discontinuation of the 12-18 month treatment cycle [2]. However, there is no consensus on the optimal treatment for patients with recurrent GH.

The main therapeutic protocols recommended an open discussion between physician and patients as the best approach to choose the optimal therapy for recurrent GH [3]. The matter of such discussion should consider the advantages and disadvantages for each therapeutical option for the individual patient.

Advantages and disadvantages for each therapeutical modalities:

Advantages of the ATD, preservation of the thyroid tissue, simple administration, low cost, relatively fast control of the hyperthyroidism, good security profile for long-term treatment, side-effects are dose-dependent [4], second ATD cycle in patients with recurrent GH leads to satisfactory long-term remission [5]. RI, definitive hyperthyroidism solution, easy to administer, relatively low cost, relative fast control of the hyperthyroidism. TT, rapid and definitive resolution of the hyperthyroidism.

Disadvantages of the ATD, high relapse rate [6], minor adverse effects, mainly skin reactions 5% and arthralgia 2% [4]. RI, athyreotic hypothyroidism no easy to control for life, progression of Graves' orbitopathy, increase overall mortality [7]. TT, athyreotic hypothyroidism treated for life, high dependence of surgeon qualification, transient or permanent recurrent nerve injury and hypoparathyroidism and postoperative bleeding, and high cost.

Conclusion

In conclusion, taking into account the above mentioned aspects, it appears that treatment with low doses of methimazole would also be the first treatment option for recurrent Graves' hyperthyroidism, being the main indication for RI therapy the patient's preference, and the indication for TT, hyperthyroidism with large and compressive goiter, or with malignant nodules.

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