



# Subacute Thyroiditis Is Treated Effectively by a Low Dose of Prednisolone

## ANALYSIS AND COMMENTARY ● ● ● ● ●

This study is a valuable clinical contribution to thyroidology because it is the first study that analyzed the response to corticosteroid therapy in a large population of patients with subacute thyroiditis. Treatment with about half of the usually recommended steroid dose was effective in ameliorating the disorder in 80% of patients within 8 weeks. Because the mean weight of these Japanese patients, mainly women, was only 55 kg, the 15-mg dose (0.27 mg per kilogram) would probably be equivalent to at least 20 mg of prednisone in a Western population.

The late Robert Volpé was an expert in this disorder and wrote an excellent review of its management (1). Volpé advocated a dose of 40 mg of prednisone, tapering it over 6 weeks. He noted that about 20% of patients will have a recurrence, necessitating the restoration of a higher dose, similar to the findings of the current report. Volpé expressed a preference for early initiation of steroid therapy, which is also the preferred therapy of the authors of this paper rather than initiating therapy with NSAIDs, as recommended by the guideline 96 of the ATA, before using prednisone therapy (2). The 6-week duration of corticoste-

roid therapy in this study is somewhat longer than that reported with empirical therapy of 49 patients in Minnesota with tapering of 40 mg of prednisone in 7 days and continuation of the reduced dose for only 30 days (3). However, two thirds of the group also received other therapy, probably NSAIDs.

It is interesting that the patients with higher thyroid hormone levels had faster restoration of normal levels with the glucocorticoid therapy and were more likely to be in the short-term medication group (6 weeks). The explanation suggested by the authors is that these patients had more destruction of their thyroid glands as compared with those who required a longer duration of therapy for resolution of the disorder. Presumably, the destruction reversed more quickly because the maximum destruction occurred at an earlier time—a unique hypothesis.

It is interesting that the authors followed the guidelines of the Japan Thyroid Association ([www.japan-thyroid.jp/doctor/guideline/english.html#akyuu](http://www.japan-thyroid.jp/doctor/guideline/english.html#akyuu)) and did not perform a radioactive iodine-uptake test to confirm the diagnosis. This is another instance in which ultrasonography is replacing the use of radioisotopes in clinical diagnosis.

## References

1. Volpé R. The management of subacute (DeQuervain's) thyroiditis. *Thyroid* 1993;3:253-5.
2. Bahn Chair RS, Burch HB, Cooper DS, Garber JR, Greenlee MC, Klein I, Laurberg P, McDougall IR, Montori VM, Rivkees SA, Ross DS, et al. Hyperthyroidism and other causes of thyrotoxicosis: management guidelines of the American Thyroid Association and American Association of Clinical Endocrinologists. *Thyroid* 2011;21:593-646. Epub April 21, 2011; doi: 10.1089/thy.2010.0417.
3. Fatourechi V, Aniszewski JP, Fatourechi GZ, Atkinson EJ, Jacobsen SJ. Clinical features and outcome of subacute thyroiditis in an incidence cohort: Olmsted County, Minnesota, study. *J Clin Endocrinol Metab* 2003;88:2100-5.