

who have recurrent disease. Arora et al. at New York Presbyterian Hospital compared 66 patients with PTMC and 136 patients with larger PTC (1). Recurrence was found in 17% of the patients with PTMC patients and in 21% with larger PTC; this was not a significant difference. PTMC recurred in 11 patients. Eleven of those with PTMC had recurrence, but 8 had multifocal tumors, 6 had lymph-node metastases, 3 had angiolymphatic invasion, and 2 had distant metastases. Patients with these features would have been excluded from the Italian study. Tzvetov et al. in Israel reported a series of 225 patients with differentiated thyroid carcinomas <1 cm (98% PTMC) (2); the median size was 7 mm. Multifocal disease was found in 50%, bilateral disease in 32%, extrathyroidal extension in 16%, lymph-node metastases in 26%, and distant metastases in 2.4%; 96% were treated by total thyroidectomy. Not surprisingly, 11% had recurrent disease, as compared with 32% of 543

patients with macroscopic differentiated thyroid cancer at the same institutions.

Putting this together, I conclude that the follow-up recommended by Durante and colleagues is appropriate for patients with PTMC who have no features of aggressive disease but that more extensive follow-up is necessary for patients with PTMC who have findings indicative of more aggressive disease. The patients with aggressive PTMC require aggressive therapy and careful monitoring for recurrence.

All PTMC cannot be put into the same basket. It is necessary to individualize therapy in patients with these small tumors based on the findings at initial clinical evaluation, pathology, and routine follow-up in the first year.

— Jerome M. Hershman, MD

References

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2. Tzvetov G, Hirsch D, Shraga-Slutsky I, et al. Well-differentiated thyroid carcinoma: comparison of microscopic and macroscopic disease. *Thyroid* 2009;19:487-94.