

POSTPARTUM PSYCHOSIS IS MORE PREVALENT IN WOMEN WITH AUTOIMMUNE THYROID DISEASE

$P = 0.017$). Specifically, of the 9 patients with AITD at the 9-month follow-up, 6 (67%) had overt thyroid dysfunction as compared with only 20% of the control group (OR, 8.00; 95% CI, 1.23 to 52.25). Notably, the 3 patients in whom AITD and clinical thyroid dysfunction developed during treatment with mood stabilizers were all taking lithium. In contrast, none of the 18 lithium-treated patients without AITD had clinical thyroid dysfunction.

ANALYSIS AND COMMENTARY ● ● ● ● ●

Postpartum AITD, defined as the presence of thyroid peroxidase (TPO) antibodies in the first year after delivery, is reported in 5% to 7% of the general population (1). Postpartum thyroid dysfunction is characterized by three well-defined clinical patterns, all of them self-limited in the vast majority of cases (2, 3): (a) an initial phase of hyperthyroidism in the first 3 months postpartum followed by a euthyroid phase; (b) an initial hyperthyroid phase, followed between 3 and 6 months postpartum by a hypothyroid phase with spontaneous resolution; or (c) an initial hypothyroid phase between 3 and 6 months after delivery followed by euthyroidism. In less than 5% of patients, hypothyroidism may be permanent; however, it is important to follow patients because permanent hypothyroidism occurred in 30% to 50% by 5 years after the initial episode (4, 5), a pattern similar to women in whom type 2 diabetes developed following the diagnosis of gestational diabetes mellitus. The link between postpartum depression and chronic thyroiditis has been reported in the past (6, 7), although no evidence for an increase of AITD in patients with a late onset (>4 weeks after delivery) presentation of postpartum psychosis was found in the only previous systematic study (8). In the present study, a careful evaluation of women (primigravida with no previous psychiatric history) in whom serious signs of psychosis, requiring antipsychotic

CONCLUSIONS

Women with postpartum psychosis are at higher risk not only of AITD but also of clinical thyroid failure. These data implicate thyroid dysfunction as an important clinical outcome in patients with postpartum psychosis. Further, AITD represents a potentially strong etiologic factor for the development of postpartum psychosis. Therefore, screening for TPO antibodies is warranted in patients with postpartum psychosis.

therapy, developed early in the postpartum period, showed not only a significant presence of thyroid autoimmune disease but also thyroid dysfunction within 9 months postpartum. Only 3 of 31 patients presented with psychotic depression, the others with manic psychosis, requiring multiple drug therapy, including lithium. The authors emphasized that of the lithium-treated women, thyroid dysfunction developed only in those with positive TPO antibodies. The other important observation is the higher rate of development of thyroid dysfunction in women with psychosis, as compared to controls with AITD. No information is given about the course of thyroid dysfunction at 9 months postpartum. It would be of interest to know how many women had a spontaneous return to the euthyroid state, as commonly occurs in women with postpartum thyroid dysfunction. This is the first observational study of primiparous women with AITD and no previous psychiatric history, showing a high prevalence of first-onset postpartum psychosis, as compared with the general population; therefore, it is reasonable to consider a previous postpartum psychosis event, including depression, as an indication for thyroid screening in future pregnancies of such affected women. Whether early identification and treatment of thyroid autoimmune disease would change the course of the disease deserves further study.

— Jorge H. Mestman, MD

continued on next page



POSTPARTUM PSYCHOSIS IS MORE PREVALENT IN WOMEN WITH AUTOIMMUNE THYROID DISEASE

Bergink V, et al.

REFERENCES

1. Muller AF, Drexhage HA, Berghout A. Postpartum thyroiditis and autoimmune thyroiditis in women of childbearing age: recent insights and consequences for antenatal and postnatal care. *Endocr Rev* 2001;22:605-30.
2. Premawardhana LD, Parkes AB, Ammari F, John R, Darke C, Adams H, Lazarus JH. Postpartum thyroiditis and long-term thyroid status: prognostic influence of thyroid peroxidase antibodies and ultrasound echogenicity. *J Clin Endocrinol Metab* 2000;85:71-5.
3. Stagnaro-Green A. Clinical review 152: Postpartum thyroiditis. *J Clin Endocrinol Metab* 2002;87:4042-7.
4. Othman S, Phillips DI, Parkes AB, Richards CJ, Harris B, Fung H, Darke C, John R, Hall R, Lazarus JH. A long-term follow-up of postpartum thyroiditis. *Clin Endocrinol (Oxf)* 1990;32:559-64.
5. Lucas A, Pizarro E, Granada ML, Salinas I, Roca J, Sanmartí A. Postpartum thyroiditis: long-term follow-up. *Thyroid* 2005;15:1177-81.
6. Harris B, Othman S, Davies JA, Weppner GJ, Richards CJ, Newcombe RG, et al. Association between postpartum thyroid dysfunction and thyroid antibodies and depression. *BMJ* 1992;305:152-6.
7. Pop VJ, Wijnen HA, Lapkienne L, Bunivicius R, Vader HL, Essed GG. The relation between gestational thyroid parameters and depression: a reflection of the downregulation of the immune system during pregnancy? *Thyroid* 2006;16:485-92.
8. Stewart DE, Addison AM, Robinson GE, Joffe R, Burrow GN, Olmsted MP. Thyroid function in psychosis following childbirth. *Am J Psychiatry* 1988;145:1579-81.