

Thyroxine and Leprosy

TO THE EDITOR:

My interest in the possible harmful effect of giving thyroxine or dried thyroid tablets to leprosy patients dates from the 1950s when I saw an adult Eurasian female with active lepromatous leprosy who gave a history of having consulted her family doctor a few months previously because of edema of legs, thickening of the skin of the face and limbs, thinning of eyebrows, and a hoarse voice. She was treated with dried thyroid tablets on the assumption that her symptoms were due to myxedema, and when she reported for follow-up examination, her doctor was surprised to see papules and nodules on her skin and promptly referred her for a second opinion.

I recall reading, about that time, a report of clinical manifestations of lepromatous leprosy appearing in an obese female patient who was being treated with dried thyroid tablets in the hope of reducing her weight, but I am unable to trace the reference. Can any reader supply me with it or with any other references on this subject? It is probable that any condition associated with a sustained increase in the level of cir-

culating thyroxine can have a deleterious effect on leprosy, and I have postulated that one of the factors responsible for downgrading of leprosy during pregnancy is the progressive rise in serum thyroxine (T₄) to twice the normal figure by the 3rd trimester (²). It has been reported that the addition of thyroxine sodium to a culture medium produces a metabolic stimulating action on *M. leprae* (¹), and I would be interested to hear if anyone has observed the effect of raising the level of circulating thyroxine in laboratory animals infected with *M. leprae*.

—W. H. Jopling, F.R.C.P., D.T.M.&H.
33, Crown Lane Gardens
Crown Lane
London SW16 3HZ
England

REFERENCES

1. BISWAS, S. K. Growth of *Mycobacterium leprae* in thyroxine treated culture medium—a preliminary report. *Lepr. India* **50** (1978) 57–63.
2. JOPLING, W. H. *Handbook of Leprosy*. 2nd ed. London: William Heinemann Medical Books, 1978, p. 93.