that the hypopigmented skin macule is an indicator of a hypersensitivity reaction to sensory nerve myelin. McDougall (*) has put forward an attractive theory on the mechanism of hypopigmentation in leprosy. He relates the hypopigmentation as a consequence of free radical formation during the cell-mediated immune response. We may assume that a hypopigmented skin lesion is, therefore, an early indicator of the immunopathological mechanism affecting the nerve trunk.

The above-mentioned hypothesis allows us to raise questions on the possible modalities of preventive therapy to be established for patients without clinically detectable loss of nerve function but classified on the basis of skin lesion.

How important is the close association between the subclinical neuropathy and the skin lesion? Can we consider that in leprosy the earliest skin lesion may be considered a forerunner of clinical neuropathy?

Yohannes Negesse, M.D.

ALERT/AHRI
P.O. Box 1005
Addis Ababa, Ethiopia

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Detection of Antibodies Toward Secreted Mycobacterial Antigen 85 in Untreated Leprosy Patients’ Sera

TO THE EDITOR

Leprosy is an insidious disease that affects two million persons worldwide (1993) and continues to present a public health problem in various parts of the world. The efforts carried out by the World Health Organization (WHO) to eliminate leprosy by the year 2000 have been based mainly on monitored multidrug treatment (1), which includes the use of new diagnostic, prevention and disease classification methods.

Mycobacterium leprae is one of the first human pathogens to have been described, but the impossibility of its cultivation in vitro has impeded the isolation and characterization of its various antigenic components. It would be extremely important to determine the role these antigens may play in the immunopathology of the disease, both in humoral and cellular responses.

The chemical structure of M. leprae is complex. Considering the high degree of homology between this bacterium and M. bovis (1), in this study we analyze the humoral response to M. bovis secreted anti-
...and they suggest that there might be immune complexes associated to free antigen. This study does not correlate with the bacillary index or ELISA positivity.

Since *M. bovis* excreted proteins possess homology with *M. leprae*, these results could be measuring bacterial viability; they suggest that these proteins could be candidates for serological follow up of multidrug therapy in leprosy.

—Elsa Rada-Schlaefli, M.Sc.
Carlos Santaella, M.Sc.
Nacarid Aranzazu, M.D.
Jacinto Convit, M.D.

**Instituto de Biomedicina**
**Urbano 4043**
**Caracas 1010A, Venezuela**

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