

Leprosy Masquerading as Rheumatoid Arthritis

Tina Rendini RN and William Levis MD

NY Hansen's Disease Program—Department of Dermatology Bellevue Hospital, New York, NY

Leprosy often presents as a rheumatologic disorder including lupus erythematosus,^{1,2} rheumatoid arthritis (RA),³ or anticardiolipin syndrome.⁴ We report a case of a leprosy patient treated in a New Jersey Rheumatology clinic for two years with Prednisone 5mg daily, Methotrexate 25mg every week, and Naproxen 500mg every day. During her treatment for RA, an infiltrative dermatopathy developed. A skin biopsy revealed fite-positive multibacillary leprosy and the patient was referred to the New York Hansen Disease Program at Bellevue Hospital. The patient was started on US multi-drug therapy⁵ and thalidomide (100mg BID). During her course of treatment the rheumatoid factor became negative and thalidomide was reduced to as little as 50mg every other day with amelioration of her arthritis and gradual flattening of her infiltrative dermatopathy. In the age of biologics,^{3,6} it is important that clinicians be aware that leprosy can present as RA, and other autoimmune disorders.

“In the age of biologics, it is important that clinicians be aware that leprosy can present as RA, and other autoimmune disorders.”

Rheumatoid Arthritis and other autoimmune disorders such as lupus and antiphospholipid syndrome are commonly presented in leprosy patients, on the order of 25% of BL cases.⁷ It is important that physicians confronted with autoimmune disorders consider leprosy and the differential diagnosis and have an index of suspicion to order a skin biopsy with a fite stain. Undetected cases are detrimental to leprosy patients due to the possible contractures and loss of sensation that occur in leprosy. It is important that physicians not put patients on immunosuppressive agents such as methotrexate and biologics for thalidomide is the treatment of choice when patients present with Type II ENL. Continued lack of awareness by physicians in the US will lead to autochthonous cases of leprosy such as cases that have been reported in New York City.⁸

Disclosure

The authors have no conflicts.

References

1. Alberti JR, Cabrera A, Martiniuk F, Sanchez M, Levis WR. Leprosy masquerading as lupus. *J AM Acad Dermatol*. 2005;52(4):702-3. PMID: 15793528
2. Karadeniz A, Lally L, Magro C, Levy R, Erkan D, Lockshin MD. Lepromatous leprosy mimicking systemic lupus erythematosus: a clinical pathology conference held by the division of rheumatology at hospital for special surgery. *HSS J*. 2014;10(3):286-91.
3. Rath D, Bhargava S, Kundu BK. Leprosy mimicking common rheumatologic entities: a trial for the clinician in the era of biologics. *Case Rep Rheumatol*. 2014; 429698.
4. Kaliyadan F, Bhaskaran M, Dharmaratnam AD, Manoj J, Sreekanth G. Antiphospholipid syndrome preceding a diagnosis of lepromatous leprosy. *Dermatol Online J*. 2009;15(6):4.
5. National Hansen's Disease Program (NHDP). www.hrsa.gov/hansensdisease
6. Scollard DM¹, Joyce MP, Gillis TP. Development of leprosy and type 1 leprosy reactions after treatment with infliximab: a report of 2 cases. *Clin Infect Dis*. 2006;43(2):e19-22.
7. Garcia-De La Torre L. Autoimmune phenomena in leprosy, particularly antinuclear antibodies and rheumatoid factor. *J Rheumatol*. 1993;20(5):900-3.
8. Keo T, Martinuk F, Latkowski J, Cabrera A, Rom W, Levis WR. Molecular origin of endemic leprosy in New York City. *Clin Infect Dis*. 2008;15;46(6):899-901.

AUTHOR CORRESPONDENCE

Tina Rendini RN

E-mail:..... tinarendini43@gmail.com