PET-CT Suggestive of Lymphoma but Spirochetes in Lymph Node Biopsy: Careful for Prozone Phenomenon in Syphilis

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PAPER

A 38y old male presented with arthralgia, bone pain, rash, constitutional symptoms, sensory neuropathy and generalized lymphadenopathy. The Venereal Disease Research Laboratory test (VDRL) was negative. PET-CT was suggestive of lymphoma with generalized cervical lymph node showed spirochetes (Figure 2 spiral shaped long bacteria). Retesting for syphilis with the Treponema pallidum hemagglutination assay (TPHA) was strongly positive.

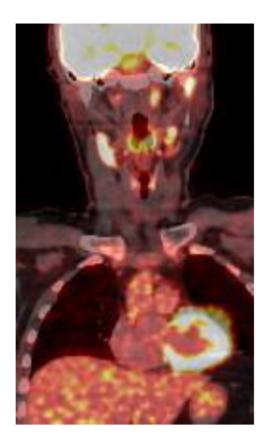


Figure 1: PET-CT was suggestive of lymphoma with generalized lymphadenopathy and hot spots in bone without CT abnormality.

lymphadenopathy and hot spots in bone without CT abnormality (Figure 1). Biopsy of the most PET-positive

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to a false-negative agglutination test resulting from high antibody titers. If too many antibodies are present that can bind to the antigen, antibodies coat all antigenic sites and few or no antibodies are able to bind more than one antigenic particle. It may occur in

The prozone phenomenon in the VDRL test refers

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nontreponemal tests for syphilis [1].

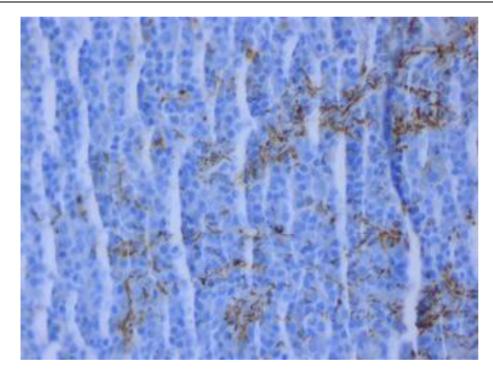


Figure 2: Lymph node biopsy showed spirochetes (spiral shaped long bacteria).

REFERENCE

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large cohort. Clin Infect Dis 2014; 59: 384-9. http://dx.doi.org/10.1093/cid/ciu325

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