

# Syphilis: A rare but reversible cause of Nephrotic Syndrome

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## Background

Nephrotic syndrome is defined by the presence of heavy proteinuria (protein excretion greater than 3.5 g/24 hours in an adult), hypoalbuminemia (less than 3 g/dL), and peripheral edema.<sup>1</sup> Supportive (protein, salt and water treatment restriction, loop diuretics, ACE-inhibition and statins) and often steroids or immunosuppressants are the mainstay therapy. However, when an underlying cause can be identified, this could simplify therapeutic management.<sup>2</sup> An underlying cause is not always identified but when it is, it can guide appropriate management. Syphilis has wide spread clinical manifestations involving multiple organ systems and should be considered as a cause for nephrotic syndrome in patients at risk.

## **Clinical Case**

37 year old man with a past medical history of untreated chronic Hepatitis B, presented with left lower quadrant abdominal pain and lower extremity swelling.

Serum chemistry showed that his He also reported nausea accompanied previously elevated creatinine had now by non bloody emesis as well as normalized. Our patient had a history of increased urinary frequency. All untreated hepatitis B, but it is unlikely symptoms had started approximately 2 that his renal function would have weeks prior to presentation and were improved so rapidly after starting gradually worsening. Physical exam was treatment for the same. notable for elevated blood pressure at 151/89, bilateral lower extremity edema up to mid calves, as well as multiple small, sub centimeter, macular lesions Conclusion noted on palms and soles. Serum chemistry was notable for elevated Nephrotic syndrome is a rare but well Creatinine at 1.9 mg/dl, elevated BUN at documented renal manifestation of 38 mg/dl. Hepatitis B Viral load was syphilis and is known to resolve with 9,430 IU/ml. Urinalysis was significant for antisyphilitic Our therapy. proteinuria. Based on these findings, the demonstrates importance the patient was diagnosed with nephrotic evaluating for syphilis in a patient with syndrome. He was also diagnosed with newly diagnosed nephrotic syndrome syphilis after RPR was found to be without any other obvious cause. elevated at 1:256. A CT of the abdomen and pelvis was unremarkable. The patient was given one dose of IM Benzathine Penicillin 2.4 million units and References was also started on oral Entecavir for hepatitis B treatment. He was evaluated 1) https://www.uptodate.com/contents/overview-of-heavy-proteinuria-and-thenephroticagain after 2 weeks. At this time, his syndrome?search=nephrotic%20syndrome&source=search\_result&selected *Title=1~150&usage\_type=default&display\_rank=1* bilateral lower extremity swelling and 2) 2)) Handoko ML, Duijvestein M, Scheepstra CG, de Fijter CW. Syphilis: a abdominal pain had resolved. His reversible cause of nephrotic syndrome. *BMJ Case Rep*. 2013;2013:bcr2012008279. Published 2013 Feb 8. doi:10.1136/bcr-2012previously elevated blood pressure was 008279 also within normal limits.





