

Sérgio Janeiro

CENTRO HOSPITALAR DE SETÚBAL PORTUGAL

IDENTIFICATION

- L. M. G. B.
- Male;
- 59 y.o.;
- Fisherman; Married;
- Rural area, frequent contact with dogs;
- Past history:
 - Diabetes Mellitus type 2 diagnosed 3 years ago;
 - Left nephrectomy 30 years ago due to firearm assault;
 - Smoker;
 - Alcoholic beverage frequent abuse;
- Medicated with oral antidiabetics, with poor compliance



HISTORY

- Admitted at ED on Oct 12 2011 for lipothymia, w/o loss of consciousness or sphincter incontinence;
- General malaise and diminished muscle force in lower limbs, with peripheral edema, with 2 weeks evolution;
- Referred a penis ulcer 2 months ago, with pruritus, healed;
- Denied: fever, adenopathies, tick contact, risk behavior, NSAID's intake.



PHYSICAL EXAMINATION

- Slurred speech, drowsiness, but awake. No focal deficits;
- Eupneic at rest but with dyspnea on small efforts;
- PA: w/o changes; CA: SI+S2, tachycardic and dysrhythmic;
- Abdomen: enlarged, distended, depressible, not painful;
- Lower limbs edema, Godet +++;
- W/o skin changes;
- Apyretic with normal BP.



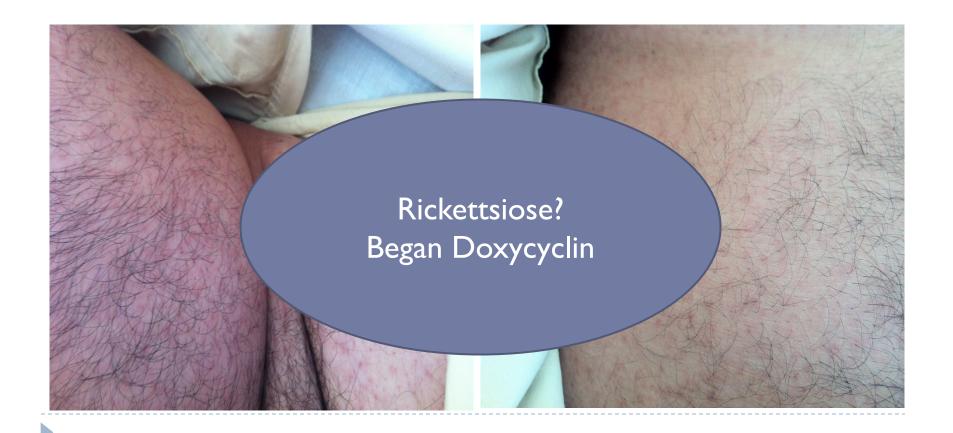
INITIAL WORKUP

- EKG:AF with RVR (converted to SR with Amiodarone)
- Chest X-ray: no image suggesting condensation, costophrenic angles clear;
- Blood tests:
 - Hg I5,5g/dL; WBC I4.900/uL com 82% Neut, CRP 0,7mg/dL;
 - Cr 2,6mg/dL; Ur 174mg/dL; Na 122mEq/L; K 6,1mEq/L (hemolysis of the sample);
 - AST 37U/L; ALT 41U/L; AlcFosp 113U/L; GGT 74U/L;
 - Urine type II: Leuc+++; Prot++++, many pyocytes, sugesting UTI;
- Patient with neuthophylic leucocytosis, AKI vs CKD with acute exacerbation (Normal renal function and no proteinuria in 2008)



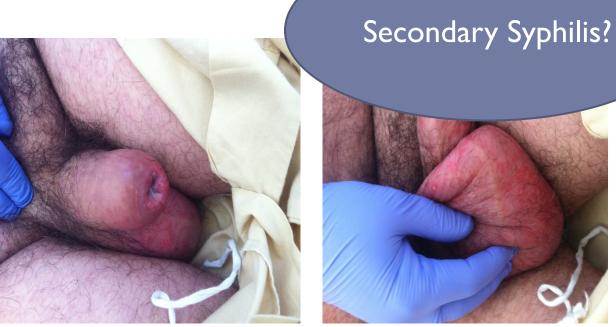
DAY 2

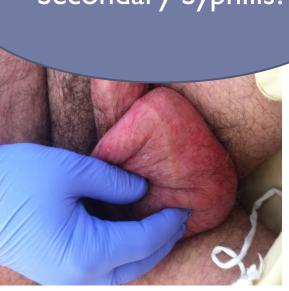
 Generalized skin lesions, maculo-papular, in the trunk, limbs, and palmoplantar regions;



DAY 3

· Lesions in the genital area, with inflammatory balanitis, purulent exudate and paraphimosis;







DAY 3

 After Dermathology consult, that considered this a high probability diagnosis, he was administered Benzatinic Penicilin 2.400.000 U;

Suspended Doxycyclin



STD's?

- At this point, the patient no longer denied risk sexual behavior:
 - VDRL Positive, TPHA Positive, Ab IgM Syphilis Positive → SYPHILIS
 - ► Hbs Ag Positive, Hbe Ag Negative, Anti-Hbe Ab Positive, Anti-Hbc Ab Positive → HEPATITIS B
 - Viral Load: 4.480.000 UI/mL DNA HBV
 - Serology for HIV I and 2 Negative;
 - Anti-HCV Ab Negative.



ADITIONAL WORKUP

- Because of neurologic alterations at admission:
 - Head-CT w/o evidence of acute lesions;
 - Lumbar Punction Normal, VDRL e TPHA in CSF Negative,
 excluding Neurossyphilis or other CNS intections;
- HbA1C 12%
- Because of AF at admission:
 - TT Eco, w/o structural ou functional changes



ADITIONAL WORKUP

- Progressive worsening:
 - Cr 4,2mg/dL; Ur 214mg/dL;
 - Proteinuria I2g/24h → 27g/24h
 - Albumine 0,6mgU/L
 - TCol 394mg/dL; HDL 25mg/dL; TGL 448mg/dL
 - Increasing edema
- Renal US: "status post left nephrectomy, right kydney with compensatory hyperthrophy. Ascitis."
- Autoimune study negative, normal C3 and C4, normal protein electrophoresis

Nephrotic Syndrome



ADDITIONAL WORKUP

- KIDNEY BIOPSY
 - Gold Standard
 - Contraindicated because of nephrectomy



EVOLUTION

- Began ACEI, anticoagulation, diuretics and statin;
- Progressive clinical improvement:
 - Diuresis > I20cc/h;
 - Decreasing abdominal volume and peripheral edema;
 - Loss of 9,5Kg in a week



HOSPITAL DISCHARGE

- At Oct 26 2011:
 - Cr 3, Img/dL; Ur 106mg/dL; Na 137mEq/L;
 - Albumina 0,7mg/dL; Proteinuria 27g/24h.
- Referred to Nephrology outpatient clinic, as well as Internal Medicine, Diabetes and Hepathology consults;
- Medication:
 - Enalapril 10mg/day;
 - ASA 100mg/day;
 - Furosemide 40mg/day;
 - Sinvastatine 40mg/day;
 - Sitagliptine 100mg/day.



FOLLOW UP

Nov 3 2011:

- Cr 3,0mg/dL; Ur 101mg/dL;
- Albumin 0,6mg/dL; Proteinuria 20g/24h;
- Decreasing edema;
- Enalapril → 20mg/day;

Nov 10 2011:

- Cr I,9mg/dL; Ur 77mg/dL;
- Albumin 0,7mg/dL; Proteinuria 17g/24h;
- Decreasing edema

Nov 23 2011:

- Cr 0,76mg/dL; Ur 37mg/dL;
- Albumin 0,7mg/dL; Proteinuria 15g/24h;
- No edema

– Dec 19 2011:

- Cr 0,6 l mg/dL; Ur 35mg/dL;
- Albumin 2,4mg/dL; Proteinuria 2,5g/24h;
- Stop Furosemide





WHAT CAUSED THIS NEPHROTIC SYNDROME?

ETIOLOGIC DISCUSSION

Diabetic Nephropthy

- Insidious clinical and proteinuria evolution;
- Diabetes with longer evolution;
- Associated with other Diabetes complications;

Hepatitis B: Membranous Nephropathy

- Normal or slightly elevated liver enzimes;
- Usually when Anti-Hbc Ab e Hbe Ag are positive;
- Associated with low complement;
- Associated with progressive illnes, usually irreversiblel;



ETIOLOGIC DISCUSSION

- Hyperfiltrtion because of only kidney: Secondary Focal and Segmentar Glomerulosclerosis
 - Insidious proteinuria and clinical course;



Usually associated with non-nephrotyc proteinuria;



- When nephrotic proteinuria, usually without edema hypoalbuminemia;

Syphilis: Membranous Nephropathy

- Most frequent clinical picture Nephrotyc Syndrome with heavy proteinuria;
- Clinical resolution up to 6 months after etiologic treatment
- Rare etiology





Secondary Syphilis: a rare cause of Nephrotic Syndrome



Thank you for your attention

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