

C23

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A Rare Case of Steroid Resistant Tip Lesion FSGS

INTRODUCTION

The COVID-19 pandemic has caused extensive morbidity and mortality worldwide. Covid vaccines have demonstrated excellent safety profiles, with myocarditis and pericarditis as their most severe side effects. In the kidney, the T-cell response provokes swift production of cytokines, which could trigger podocytopathies and glomerulonephritis. As more vaccines are being administered, we are encountering rarer side effects

Case

A 31 yo AA F presented with worsening leg edema two weeks after her 2nd dose of Pfizer Covid vaccine. Her exam was normal except for bilateral pitting leg edema. UA showed proteinuria >1000. Labs showed HGB 10 g/dL; Cre 1.2 mg/dL; total protein, 4.6 g/dL; albumin, 2.4 g/dL; total cholesterol, 290 mg/dL; UPCR, 4.3 g/g. She also had negative serologies for HIV, RPR, Hepatitis B and C, C3, C4, K/L ratio, anti dsDNA, cryoglobulin, PLA2R, ANA, ANCA, and SPEP

A kidney biopsy showed on a LM glomeruli tuft consolidation with focal foam cells and foci of confluence with the origin of proximal tubules. IF revealed glomeruli had segmental coarse granular capillary tuft reactivity with antisera specific for IgM, C3, C1q, Kappa light chain, and EM showed rare tuft lumen inflammatory cells, segmental basement membrane thinning, rare segmental matrix tinctorial variation and broad visceral epithelial foot processes effacement. Despite steroids at 1mg/kg daily with diuretics and ARBs for 16 weeks, the patient continued to have proteinuria and started on Rituximab

RESULTS

The most common FSGS reported occurring post-COVID vaccination is collapsing type. A literature search found very few cases (3) of tip variety post-COVID vaccine. To the best of our knowledge, this is probably the fourth case of tip lesion FSGS reported post-COVID vaccination. As we are aware, out of all tip variety responds the best to steroids, our case interestingly was found to be resistant to steroids which makes us think whether the vaccine has any role to play in its resistance