

THE COMPLICATIONS OF STEROID THERAPY IN THE MANAGEMENT OF GLOMERULONEPHRITIS IN NIGERIA: A SINGLE CENTRE REPORT.



managed to prevent further complications.

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Onu Ugochi, Okoye Julius, Onu Iheanyi, Onodugo Obinna, Arodiwe Ejikeme, Ijoma Chinwuba, Ulasi Ifeoma

INTRODUCTION: The management of kidney disease is often challenging. Steroids are usually an integral part of many chronic kidney diseases (CKD) treatment regimens notably glomerulonephritis (GN). Steroids are either used as monotherapy or in combination with other medications. High doses of steroids are often prescribed in such cases with sparsely reported adverse effects. This study is therefore aimed at highlighting the complications of steroid therapy in patients with GN.

METHODS: This single centre retrospective study was done at the University of Nigeria Teaching Hospital (UNTH), Enugu State, Nigeria. a major nephrology referral centre in south-eastern Nigeria. Medical records of adult CKD patients with diagnosis of GN seen between September 2018 and September 2023 at the UNTH nephrology outpatient clinics were assessed. Only new onset signs and symptoms noted after steroid therapy initiation were analyzed. Iatrogenic diabetes mellitus (DM) was defined by ≥ 2 blood glucose levels ≥ 7.0 mmol/L (126 mg/dL) and/or ≥ 11.1 mmol/L (200 mg/dL)in fasting and random samples respectively associated with glucocorticoid use without prior DM history. Persistent blood pressure $\geq 140/90$ following steroid initiation in previously normotensive patients was diagnosed as steroid induced hypertension.

RESULTS: There were 656 (371 (56.6%) males, 285 (43.4%) females) CKD patients. 384 (58.5%) of them had different types of GN as shown in table 1. One hundred and forty three patients (primary GN: 118 (82.5%), SLE: 23(16.1%), other CTDs: 2(1.4%) received steroid therapy. The various steroid use complications are shown in fig. 1

