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## CASE REPORT

### Acute Kidney Injury after First Dose of AstraZeneca COVID-19 Vaccine Managed in a Nigerian Hospital

*Lésion Rénale Aiguë Après la Première Dose du Vaccin AstraZeneca COVID-19 Prise en Charge dans un Hôpital Nigérian*

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#### ABSTRACT

**INTRODUCTION:** The association of kidney disease and COVID-19 vaccination has been reported with minimal change disease being a common presentation.

**CASE REPORT:** Index patient is a 54-year-old female who presented with a history of reduction in urine output within 3 weeks of receiving the Oxford-AztraZeneca COVID-19 vaccine. Her serum creatinine on admission was 1,057  $\mu\text{mol/L}$  with a pre-morbid serum creatinine of 78  $\mu\text{mol/L}$ . Her vital signs were stable. She was on antihypertensive and antidiabetic medications for hypertension and diabetes mellitus, respectively. Renal biopsy was precluded by her morbid obesity and she was commenced on oral prednisolone. She had 5 sessions of hemodialysis and her serum creatinine gradually reduced to 106  $\mu\text{mol/L}$ , and she is being followed up on an outpatient basis.

**CONCLUSION:** We report a case of a female patient with acute kidney injury following COVID-19 Oxford-AztraZeneca vaccination. Further studies are required to better understand the pathogenesis of the renal affection post-vaccination. (Structured abstract word count: 154). **WAJM 2022; 39(7): 769–771.**

**Keywords:** COVID-19 vaccine, adverse event, acute kidney injury.

#### RÉSUMÉ

**INTRODUCTION:** L'association de la maladie rénale et de la vaccination COVID-19 a été signalée, la maladie à changement minimal est une présentation courante.

**RAPPORT DE CAS:** La patiente à l'étude est une femme de 54 ans qui a présenté des antécédents de réduction du débit urinaire dans les 3 semaines après avoir reçu le vaccin COVID-19 d'Oxford-AztraZeneca. Sa créatinine sérique à l'admission était de 1 057  $\mu\text{mol/L}$  avec une créatinine sérique pré-morbide de 78  $\mu\text{mol/L}$ . Ses signes vitaux étaient stables. Elle prenait des médicaments antihypertenseurs et antidiabétiques pour l'hypertension et le diabète sucré, respectivement. Une biopsie rénale était impossible à cause de son obésité morbide et elle a été mise sous prednisolone par voie orale. Elle a subi 5 sessions d'hémodialyse et son taux de créatinine sérique a progressivement à 106  $\mu\text{mol/L}$ , et elle est suivie en ambulatoire.

**CONCLUSION:** Nous rapportons le cas d'une patiente souffrant d'une lésion rénale aiguë après la vaccination par le COVID-19 Oxford-AztraZeneca. D'autres études sont nécessaires pour mieux comprendre la pathogenèse de l'affection rénale post-vaccination. (Nombre de mots du résumé structuré : 154). **WAJM 2022; 39(7): 769–771.**

**Mots-clés:** Vaccin COVID-19, Événement Indésirable, Lésion Rénale Aiguë.

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Abbreviations: AKI, Acute Kidney Injury; COVID-19, Coronavirus Disease 2019; RT-PCR, Reverse Transcriptase Polymerase Chain Reaction; SARS-CoV-2, Severe Acute Respiratory Syndrome Coronavirus 2.