FREQUENCY OF VANCOMYCIN-ASSOCIATED ACUTE KIDNEY INJURY AND HEALTHCARE UTILIZATION AMONG VETERANS’ AFFAIRS PATIENTS WITH SKIN AND SKIN STRUCTURE INFECTIONS

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**Background**: Studies have described an increased risk of acute kidney injury with vancomycin (V). However, such risk estimates are based on a small number of cases. The objective of this study was to identify factors associated with developing vancomycin-associated AKI in the elderly using a large database of hospitalized patients with skin and skin structure infections (SSSI).

**Methods**: Retrospective cohort study was performed among hospitalized Veterans’ Affairs patients (n = 218) with SSSI between 2010-2015. Multivariable logistic regression models were fitted to identify predictors of vancomycin-associated AKI. Among patients with V concentration > 10 mg/L, a retrospective chart review was performed to determine the incidence of vancomycin-associated AKI.

**Results**: Of 218 patients, 207 (95%) were male with a mean ± SD age of 68.7 ± 12.0 years. Median (IQR) vancomycin concentration was 11.8 (9.3) mg/L. For the population as a whole, the overall incidence of acute kidney injury (AKI) was 9.2%. The use of excess healthcare resources (i.e. specialty physician consultations and acute dialysis) were significantly higher in patients with V-associated AKI compared to those with no V-associated AKI (p = 0.001).

**Conclusions**: Among patients with skin and skin structure infections treated with vancomycin, the incidence of acute kidney injury (AKI) was 9.2%. A AKI among veterans Affairs patients with Skin and Skin Structure Infections.

**Table 1**: Bivariate Relationship Between Clinical/Demographic Covariates and Vancomycin-Associated Acute Kidney Injury Among Veterans Affairs Patients With Skin And Skin Structure Infections. A. From the data presented in the manuscript, the 95% confidence intervals (CI) were computed for the odds ratios (OR) and the p-values. **Table 2**: Overall Frequency And Subpopulation Frequencies Of Vancomycin-Associated Acute Kidney Injury.