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Poster presentation

Introduction of a system to screen for chronic kidney disease and monitor for nephrotoxicity of antiretrovirals at an outpatient HIV clinic

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Purpose of the study

To introduce and audit the effectiveness of a system to screen for chronic kidney disease (CKD) and monitor for nephrotoxicity of antiretrovirals in HIV-positive patients.

Methods

Aging population, co-morbidities, antiretroviral therapies and HIV infection increase the risk of renal morbidity. The frequency of screening for CKD, and the frequency of monitoring for nephrotoxicity of antiretrovirals in HIVpositive patients attending outpatient clinics was audited. Of patients who required regular monitoring of GFR/urinalysis based on their antiretroviral therapy or risk factors for CKD, 0% of patients had a documented estimation of GFR (n = 31), 51.6% had urinalysis at an appropriate frequency (n = 31), 11.76% had serum phosphate measurement at an appropriate frequency (n = 17). A series of interventions were implemented to highlight the recommended frequency of screening and monitoring, and allow quick identification of patients requiring urinalysis/ GFR estimation/serum phosphate measurement (tenofovir). A traffic light colour-coded system was used to group patients into three categories based on the frequency at which they required urinalysis/GFR estimation. The categories were based on recommendations from the IDSA and a review of current literature. Red, amber and green stickers were attached to each patient's chart indicating the need for 3-monthly/at next appointment screening, 6monthly screening or yearly screening, respectively. Educational presentations, posters, and an amended system to order bloods, which included an option for eGFR measurement, were provided to highlight and facilitate the recommended screening schedule.

Summary of results

Preliminary results indicate that the system has resulted in an improvement in screening for CKD and monitoring for nephrotoxicity of antiretrovirals.

Conclusion

Improved screening will allow identification of patients who require interventions to reduce cardiovascular risk and progression of CKD, timely referral and planning for renal replacement therapy, and early identification of nephrotoxicity due to antiretrovirals.

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