Hiwa K Saaed et al., J Pharm Drug Deliv Res 2016, 5:4(Suppl)
http://dx.doi.org/10.4172/2325-9604.C1.012

TDM-CsAKTR- Therapeutic drug monitoring of oral cyclosporine after kidney transplantation

Hiwa K Saaed[1] and **Khoshi Hameed Hamza**[2]
[1]University of Sulaimani School of Pharmacy, Sulaimaniyah, KRG-Iraq
[2]Shar Hospital, Directorate of Health, Sulaimaniyah, KRG-Iraq

The main objective of this study was to optimize the efficacy and minimize the toxicity of long-term oral CsA use, through monitoring of blood CsA trough level, dose adjustment, and evaluation of biomarkers related to organs function, in stable kidney transplant recipients (KTR). Patients and Methodss: A prospective therapeutic drug monitoring (TDM) study was conducted to measure the blood CsA trough level, kidney and liver function test, fasting blood glucose, serum electrolytes for a total of 37 KTR who received immunosuppressant regimen therapy including CsA for more than three months, were offered to participate in this study. Blood CsA trough levels and biomarkers measured at two time points, at starting the study and one month later. Results: Blood CsA trough levels at1st and 2nd visit were within therapeutic range in 11 % : 27 % of the patients, lower in 22% : 25% and higher in 67% : 49% of the patients, respectively. Dose adjusment lead to significant improvement in kidney and liver function test parameters. The number of patients with high Cholesterol, triglyceride, fasting blood glucose, serum potassium and uric acid reduced at 2nd visit, as well. Conclusion: The current study confirmed the correlation between blood CsA trough level and the occurrence of CsA related toxicity that have a negative influence on graft function, morbidity and mortality of the KTR. TDM is the best way to optimize efficacy and minimize the toxicity of the oral CsA post-KT.

Biography

Hiwa K Saaed currently the Dean of The School of Pharmacy, Faculty of Medical Sciences at the University of Sulaimani since 2010, where he has been a faculty member since 2007. He is currently a lecturer of Pharmacology, Toxicology, and Communication skills in Pharmacy Practice. Hiwa K Saaed received his B.Sc in pharmacy and a Higher Diploma in Clinical Pharmacy from the College of Pharmacy and M.Sc and Ph.D. (1st Rank) in Clinical Pharmacology and Toxicology from the College of Medicine University of Baghdad. He has over 20 years of experience in Pharmacy Practice/ Hospital and Community settings. He is a director of Joint Higher Diploma (in Clinical Pharmacy) Studies with Ministry of Health KRG-Iraq, since 2010. His academic research explores the different aspects of Pharmacodynamics and –kinetics; permeability of Hydatid (Echinococcus granulosus) Cyst to drugs, GABA Receptor, Apoptotic gene expression in Leukemic patients... etc. He is supervising several postgraduate students in the area of clinical and basic pharmacology leading to MSc in Pharmacology and higher Diploma in Clinical Pharmacy. He is a member of the UniversityCouncil of Sulaimani, Scientific Promotion Committee of Faculty of Medical Sciences, Federal InternationaPharmacist, Royal Pharmaceutical Society, Syndicate of Iraqi Pharmacists and Kurdistan Pharmacists Associations and Faculty Affiliate of College of Pharmacy at Belmont University, Tennessee USA.

hiwa.saaed@univsul.edu.iq

Notes: