



Cinacalcet Use in Persistent Hyperparathyroidism in Post Renal Transplant Recipient- A retrospective observational study in Hospital Kuala Lumpur

Yik Shan Heng, Mei Sian Fu, Wan Mohd Rasis, Rosnawati Yahya, Mohammad Zaimi, Seow Yeing Yee Nephrology Department Hospital Kuala Lumpur

Introduction:

Hyperparathyroidism can persist after successful renal transplant and manifests as hypercalcemia and hypophosphatemia. Persistent hyperparathyroidism is associated with renal allograft loss, bone diseases, cardiovascular calcifications and mortality. Medical therapy using cinacalcet in moderate hypercalcemia can reduce parathyroid level and ultimately calcium level.

Objective:

To analyse the effect of cinacalcet on post transplant recipient with persistent hyperparathyroidism and correlate with renal allograft function.

Methodology

This is a retrospective observational study in Nephrology Department Hospital Kuala Lumpur targeting post renal transplant recipients who had cinacalcet started from year 2018-2021. Patients with hyperparathyroidism, hypercalcemia with cinacalcet prescribed were included. The trend of intact parathyroid hormone(iPTH), total calcium, phosphate, alkaline phosphatase (ALP) and creatinine trend were being observed and analysed from precinacalcet initiation, 6 months and 12-months post initiation.

Results:

A total of 16 patients fulfilled the inclusion criteria with mean age= 39.3 and mean dialysis vintage of 6 years.









Conclusion:

In this study, it is observed that cinacalcet significantly reduced iPTH and phosphate by 6-month although the total calcium level did not differ much. The mean creatinine and eGFR which were stable suggest that hyperparathyroidism control plays a role in maintaining long term renal allograft survival.

References:

1.Srinivas TR, Schold JD et al. Improvement in Hypercalcemia with Cinacalcet after Kidney Transplantation. Clinical Journal American Society of Nephrology 2006; 323-326.

 Vangala C, Pan J et al. Mineral and Bone Disorders after Kidney Transplantation. Frontiers in Medicine; July 2018(5): 1-16.
R. Delos Santos et al. Management of Post-transplant

Hyperparathyroidism and Bone Disease. PubMed Central Feb 2019 (79); 501-513

 Fukagawa M, Drueke TB. Parathyroidectomy or Calcimimetic to Treat Hypercalcemia after Kidney Transplantation. Journal of American Society of Nephrology 2016 (27); 2221-2224.
Torregrosa JV, Barros X. Management of hypercalcemia after renal transplantation. Nefrologica 2013; 33(6): 751-7.