

Probable Drug Interaction Between Cyclosporin A and Ticlopidine in Renal transplanted Recipient

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Cyclosporin A (CyA) is a widely used immunosuppressive agent in transplantation and autoimmune disorders. Previous uncontrolled studies have suggested an interaction between ticlopidine and cyclosporin in transplanted recipients.

We report a case of renal transplanted recipient on probable interaction between cyclosporin A and ticlopidine led to a decrease in the trough concentration.

A 53 year old man had a stable renal graft. He was taking prednisone 15mg/day, CyA 350mg/day (in two divided dose), MMF 2.0gm/day and nifedipine SR 60mg/day.

Blood CyA trough levels, measured by fluorescence polarizing immunoassay (TDX[®] Abbott Co.) were around 190-210ng/ml.

He developed the left MCA infarction. Treatment with ticlopidine 250mg twice a day was started. From the following days, blood CyA trough levels had reduced from about 190ng/ml to 130ng/ml. The CyA trough levels were about 140-200ng/ml while we increased the dose of CyA from 350mg/day to 500 mg/day.

We replaced ticlopidine with aspirin. A few days later, his blood CyA trough levels increased up to 350ng/ml and the

dose was gradually reduced to 300-325mg/day nearly same as before the ticlopidine treatment and CyA trough levels were again 180-210ng/ml.

We suggest that ticlopidine interfered with the blood CyA trough level determining lower blood levels.

