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A case report on suspected calcium channel blocker induced hypothyroidism

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A middle aged female presented to a physician for routine checkup. She was diagnosed to be a hypertensive. On investigating she was also found to be Diabetic. She was started with anti hypertensive treatment with Calcium channel blocker Tab Amlodipine 5 mg OD and oral hypoglycemic agents. She responded well to the treatment for about 4 years. Later her RBS levels were found to be increasing despite adequate treatment. She was investigated further and her complete Thyroid profile was evaluated along with anti thyroid antibodies. Thyroid profile was markedly pointing towards hypothyroidism. Anti thyroid anti bodies were found to be normal. On further evaluation there was no significant family history of thyroid, no history of any other precipitating factors. She was finally suspected to have developed hypothyroidism due to Tab Amlodipine she was using since 4 years. On suspicion the treating Physician changed her Anti hypertensive treatment to ACE inhibitors Tab Enalapril 20 mg OD with continuing oral hypoglycemic agents. She was put on Tab Eltroxin 50 ug . She responded well to the treatment and she continued her treatment for 1 year. Later her hypothyroid treatment was gradually suspended and observed for 1 year upon which she was found to be having normal Thyroid profile. Based on this, a study is being considered to evaluate the effect of calcium chanel blockers on Thyroid profile in Osmania General Hospital.

Biography

Pruthvi D has finished her MBBS from MNR Medical college, NTRUHS in the year 2008, and pursuing MD Pharmacology in Osmania Medical College, Hyderabad. She is involved in a research project titled "Effect of Diclofenac and Ibuprofen on anti bacterial activity of selected antibiotics on Standard Staphylococcus aureus and Methicillin resistant Staphylococcus aureus".

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