



Cinacalcet In the Treatment of Primary Hyperparathyroidism

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Introduction

- **Primary hyperparathyroidism is currently recognized with increasing frequency by routine calcium measurement in biochemical examinations**
- **Primary hyperparathyroidism may be due to a parathyroid adenoma, parathyroid hyperplasia and, rarely, parathyroid carcinoma**
- **Cinacalcet is used in the medical management of primary hyperparathyroidism**



Aim

- **The aim was to assess the role of cinacalcet in the treatment of primary hyperparathyroidism**



Methods

- **Patients with primary hyperparathyroidism (n=20) (aged 56-85 years) were studied**
- **Amongst them 4 patients had parathyroid hyperplasia and 16 had a parathyroid adenoma**
- **Calcium and PTH levels were increased in all patients**
- **All patients had ultrasonography and a 99mTc-Sestamibi scan**
- **In 16 patients a parathyroid adenoma was observed either on ultrasound or on scanning or in both**
- **In 4 of the patients a parathyroid adenoma was not localized by imaging**



Results

- **Cinacalcet was used in all 16 parathyroid adenoma patients to normalize serum calcium levels prior to surgery**
- **In 10 of the parathyroid adenoma patients the adenoma was surgically excised, in a female aged 56, hyperparathyroidism recurring a year after surgery**
- **Sequentially, cinacalcet was administered at a dose of 30 mg twice daily and serum calcium levels normalized**
- **Within the group of patients with a parathyroid adenoma 6 were elderly, aged >75 years, with comorbidity and cinacalcet was administered at a dose of 30 mg twice daily in 3 and 60 mg twice daily in 1 to avoid surgery**
- **In the group of patients with parathyroid hyperplasia cinacalcet was used for the treatment of hypercalcemia**
- **Within the whole group, 2 patients experienced mild gastrointestinal symptoms, but discontinuation of the drug could be avoided**



Conclusions

- **Cinacalcet may be used for the treatment of primary hyperparathyroidism**
- **It can be used for the normalization of serum calcium prior to surgery, if surgery is not an option, in the event of recurrence after surgery and in parathyroid hyperplasia**