

## **A rare case report on co-diagnosis of primary hyperparathyroidism and multiple myeloma.**

### **KEY WORDS –**

Multiple myeloma, Primary hyperparathyroidism, Parathyroid adenoma, Parathyroid carcinoma, Hypercalcemia.

### **ABSTRACT –**

Chronic backache is a common symptom of the middle and old aged population often without a sinister cause. But co-existing hypercalcemia is a serious finding in chronic backache. The sinister causes of hypercalcemia are primary hyperparathyroidism, multiple myeloma, solid organ carcinomas, malignant bone metastasis, fractures and infections such as tuberculosis (1, 2, 3). Primary hyperparathyroidism (PHPT) can be mostly due to parathyroid adenoma or rarely due to parathyroid carcinoma (1, 2, 4). Existing undiagnosed parathyroid adenoma for a longer duration or larger parathyroid adenomas can cause vitamin D deficiency and vice versa also can be seen (5, 6, 7). Also the presence of parathyroid adenoma for a longer duration or presence of parathyroid carcinoma can increase the susceptibility to develop multiple myeloma (8, 9). Here we present a case of co-diagnosis of primary hyperparathyroidism and multiple myeloma which is an extremely rare clinical phenomenon (8, 12,13). According to one literature review published in 2013, there were only 30 reported cases of co-diagnosis of primary hyperparathyroidism and multiple myeloma (8).