**ABSTRACT**

**Educational Objective:** At the conclusion of this presentation, the participants should be able to understand the incidence, causes, clinical considerations and histological features of the rare black thyroid syndrome.

**Objectives:** To review a case study of black thyroid syndrome and discuss its incidence, causes, clinical considerations and histological features noted in published literature.

**Study Design:** Case report and literature review.

**Methods:** The case of a seventy-five year old male who presented with a left thyroid nodule with microcalcifications and final diagnosis of multinodular goiter and black thyroid syndrome is reviewed. Clinical history, histology, and literature of previously reported cases of black thyroid syndrome are examined to allow for comparison and discussion of this rare diagnosis.

**Results:** The patient’s thyroid ultrasound revealed a 1.8 cm homogeneous solid nodule containing several microcalcifications. Intraoperative findings during his total thyroidectomy included a diffusely black thyroid gland and a palpable left thyroid nodule. Histology revealed multinodular colloid goiter with cystic changes, fibrosis and osseous metaplasia and was consistent with black thyroid.

**Conclusions:** The black thyroid syndrome is a rare pathological diagnosis that has unique histological features and an association with long courses of minocycline use. The exact pathophysiology and biochemical pathways of this diagnosis are still incompletely understood, but awareness of this disease process is important for appropriate counseling and education of patients.

**REFERENCES**