Poroid neoplasm is a common benign tumor that accounts for 10% of the total sudoriferous tumors. Among poroid tumors, pigmented lesions are rare, however, some cases characterized by abundant melanin granules and melanocytes have been reported. We report a case of pigmented poroid neoplasm in which clinical feature mimicked nodular melanoma.

**INTRODUCTION**

- Poroid neoplasms – 4 histological types by Abenoza and Ackerman
  - Hidroacanthoma simplex
  - Eccrine poroma
  - Dermal duct tumor
  - Poroid hidradenoma

Eccrine poroma - tumor derived from the acrosyringium, usually on extremities.

The absence of melanin granules and melanocytes - characteristic of poroma, however pigmented poroid neoplasms have been reported.

Theories for pigment in eccrine poromas:
- Increased endothelin-1 expression
- Melanocyte colonization of the tumor nest from the surrounding
- Persistence of melanocytes in sweat duct acrosyringium after fetal life

Stroma - richly vascular with some telangiectatic vessels, contributing to the clinical appearance.

Uncommonly, divergent adnexal differentiation is seen with focal sebaceous, pilar and possibly apocrine secretory differentiation

**CASE REPORT**

- A 46 year old female presented with a growth on her left thigh since 5 years with a sudden increase in size since 4 months.
- Physical examination: A pedunculated soft swelling, black to dark blue in colour, of size 4*4 cm was seen on the left thigh.
- An excision biopsy was done under local anaesthesia.
- Histopathology: showed tumor composed of anastomosing sheets and trabeculae of basaloid looking cells.
- These cells were smaller than keratinocytes, had well defined cell margins, uniform ovoid vesicular nuclei, small conspicuous nucleoli, with a rim of moderate amount of cytoplasm.
- Many of the cells showed melanin in the cytoplasm.
- Focally cystic changes were seen and intervening stroma was richly vascular with patchy lymphoplasmacytic infiltrate and melanin pigment incontinence.
- The tumor was attached to the overlying epidermis.
- The cells were PAS positive and a diagnosis of pigmented eccrine poroma was made.

**DISCUSSION**

- Pigmented eccrine poroma may simulate malignant melanoma on clinical grounds.
- Histopathology would be of great help as the prognosis varies for both the conditions.