

20 Olfactory neuroblastoma**Micro**

- These are tissue fragments extensively infiltrated by nests of uniform small cells.
- The cells exhibit scant cytoplasm, round nuclei with indistinct nuclear membrane and punctuate chromatin and indistinct nucleoli.
- There is mild nuclear pleomorphism.
- Prominent fibrillary background is focally noted with occasional rosettes.
- Mitotic figures are infrequent.
- There is no necrosis.

Diagnosis

- Olfactory neuroblastoma

Further work/comment

- Confirmatory immune-markers are: CD56, NSE, chromogranin positive, cytokeratin, LCA, TTF1, CD99 negative and S100 positive in sustentacular cells.
- This is a rare malignant neuroectodermal tumour, also called esthesioneuroblastoma.
- Prognosis dependent upon stage and grade.
- The points that would be discussed in the MDT:
 - Grading: Hyams system based on histology.
 - Staging: Kadish system based on the extent of tumour spread and the presence of distant metastases.
 - Treatment options: Surgery and radiotherapy.