

The term “**metastatic PitNET**” is advocated to replace the previous terminology “**pituitary carcinoma**” in order to avoid confusion with **neuroendocrine carcinoma** (a poorly differentiated epithelial neuroendocrine neoplasm). Subtypes of **PitNETs** that are associated with a high risk of adverse biology are emphasized within their cell lineage and cell type as well as based on clinical variables. Posterior lobe tumors, the family of **pituicyte tumors**, include the traditional **pituicytoma**, the oncocytic form (**spindle cell oncocytoma**), the granular cell form (**granular cell tumor**), and the ependymal type (**sellar ependymoma**). Although these historical terms are entrenched in the **literature**, they are nonspecific and confusing, such that **oncocytic pituicytoma**, **granular cell pituicytoma**, and **ependymal pituicytoma** are now proposed as more accurate. Tumors with hypothalamic neuronal differentiation are classified as **gangliocytomas** or **neurocytomas** based on large and small cell sizes, respectively. This classification sets the standard for a high degree of sophistication to allow individualized patient management approaches ¹⁾

see **Neuroendocrine tumor**

¹⁾

Asa SL, Mete O, Perry A, Osamura RY. Overview of the **2022 WHO Classification** of **Pituitary Tumors**. Endocr Pathol. 2022 Mar;33(1):6-26. doi: 10.1007/s12022-022-09703-7. Epub 2022 Mar 15. PMID: 35291028.

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