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**Pancreatic neuroendocrine tumors: A review of serum biomarkers, staging, and management**

Ma ZY *et al.* A review of pancreatic neuroendocrine tumors

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### Abstract

Pancreatic neuroendocrine tumors (pNETs) are a heterogeneous group of tumors with complicated treatment options that depend on pathological grading, clinical staging and presence of symptoms related to hormonal secretion. With regard to diagnosis, remarkable advances have been made: Chromogranin A is recommended as a general pNETs marker. But other new biomarker modalities, like circulating tumor cells, multiple transcripts analysis, miRNAs profile and cytokines, should be

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## Consensus on biomarkers for neuroendocrine tumour disease

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A **National Cancer Institute summit**, held in 2007, on **neuroendocrine tumours** noted **biomarker** limitations to be a crucial unmet need in the management of **neuroendocrine tumours**. A multinational consensus meeting of multidisciplinary experts in **neuroendocrine tumours** assessed the use of current **biomarkers** and defined the perquisites for novel **biomarkers** via the Delphi method.

**Cited by:** 96**Author:** Kjell Oberg, Irvin M Modlin, Wouter De Her...**Publish Year:** 2015

## Role of biomarker tests for diagnosis of neuroendocrine ...

<https://www.nature.com/articles/s41574-018-0082-5>

Aug 29, 2018 · The value of **serum chromogranin A** as a predictor of **tumor** burden, **therapeutic response**, and **nomogram-based** survival in well-moderate nonfunctional **pancreatic neuroendocrine tumors** with liver ...

**Cited by:** 8**Author:** Johannes Hofland, Wouter T. Zandee, Wo...**Publish Year:** 2018

## Pancreatic neuroendocrine tumors: approach to treatment ...

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Jul 01, 2013 · **Biomarkers** in **pancreatic neuroendocrine tumors** The various subtypes of pNET are characterized by elevations in specific circulating hormonal and protein **biomarkers** ( Table 1 ). These **biomarkers** are potentially useful in determining prognosis, monitoring disease progression, and assessing response to treatment.

**Cited by:** 19**Author:** Aaron I. Vinik, Eric Raymond**Publish Year:** 2013

## Biomarkers in Neuroendocrine Tumors | Insight Medical ...

[pancreas.imedpub.com/biomarkers-in-neuroendocrine-tumors.php?aid=699](https://pancreas.imedpub.com/biomarkers-in-neuroendocrine-tumors.php?aid=699) ▾



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ENETS recommends another TNM **staging** system for **pancreatic** NET. 35 A retrospective study with 131 patients with **pancreatic** NET showed a 100% survival rate at 5 years with **Stage I tumors** compared to a 55.4% survival rate at 5 years (mean 88.8 ± 11.4 months) with **Stage IV tumors**, but no difference between low-**stage tumor (Stage I** vs.

**Cited by:** 22**Author:** Chenfei Zhou, Jun Zhang, Ying Zheng,...**Publish Year:** 2012

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**Pancreatic neuroendocrine tumors** (pNETs) represent about 7% of all NETs, 8.7% of gastroenteropancreatic NETs (GEP-NETs) and 1–2% of all **pancreatic** neoplasms. In the last two decades, the increased diagnosis of pNETs has generated great interest and the development of different classifications, grading and **staging** systems.

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