

NEN 分類と診断基準

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WHO 2017 Endocrine Organs 2019 Digestive systems 分類と診断基準
 “Neuroendocrine Neoplasms (NEN)” 分類と診断基準 NET Neuroendocrine tumor NEC Neuroendocrine carcinoma MiNEN Mixed neuroendocrine-non-neuroendocrine neoplasm 1 WHO 2019 “Ki-67” 2 NET G1 Grade 1 G2 Grade 2 G3 Grade 3 3 NEC Small cell type SCNEC Large cell type LCNEC NET NEC MiNEN NE NE 30 WHO

NEN 分類と診断基準

WHO 2021 Thoracic Tumours 分類と診断基準 3
 TNM Staging TNM ENETS AJCC/UICC TNM NEN WHO 2019 2019 5 NIKE Neuroendocrine tumors Innovation in Knowledge and Education Albertelli M, et al. Front Endocrinol (Lausanne). 2021; 12: 680305

1 WHO 分類

WHO2010 ¹ Digestive systems	WHO2017 ² Endocrine Organs	WHO2019 ³ Digestive systems
Neuroendocrine tumour NET G1/G2	Neuroendocrine tumour NET G1/G2/G3 well-differentiated NEN	Neuroendocrine tumour NET G1/G2/G3 well-differentiated NEN
Neuroendocrine carcinoma NEC G3 large cell or small cell type	NEC G3 large cell or small cell type poorly differentiated NEN	NEC G3 large cell or small cell type poorly differentiated NEN

WHO2010¹⁰

☐ Digestive systems ☐

Mixed adeno-
neuroendocrine
carcinoma
□MANEC□

Hyperplastic and preneoplastic lesions

WHO2017²⁰

□ Endocrine Organs □

Mixed neuroendocrine-non-neuroendocrine neoplasm
[MiNEN]

WHO2019³⁰

☐ Digestive systems ☐

Mixed neuroendocrine-non-neuroendocrine neoplasm
 □MiNEN*

□□□□NEC□□□□MANEC□□□MANEC□□□□□□□□□□

2 NEN WHO 2019

Tumor type		Number of cases	Grade	Number of cases with Ki-67 $\geq 20\%$ ^a	Ki-67 $\geq 20\%$ ^b
NET	NET G1	10	Low	2	3
NET	NET G2	10	Intermediate	2	3
NET	NET G3	10	High	2	2
NEC	Small cell type (SCNEC)	10	High ^c	2	2
NEC	Large cell type (LCNEC)	10	High ^c	2	2
MiNEN	MiNEN	10	Variable ^d	Variable ^d	Variable ^d

a. Number of cases with Ki-67 $\geq 20\%$ in 500 μm^2 of tumor tissue. b. Number of cases with Ki-67 $\geq 20\%$ in 500 μm^2 of tumor tissue. c. Number of cases with Ki-67 $\geq 20\%$ in 500 μm^2 of tumor tissue. d. Number of cases with Ki-67 $\geq 20\%$ in 500 μm^2 of tumor tissue.

3 NEN WHO 2021

項目	単位	測定値 mm ²	備考
脳腫瘍の大きさ	5mm径の球形腫瘍	2	右側
脳腫瘍の数	1個	2~10	右側後頭葉
脳腫瘍の位置	右側後頭葉3mm径の球形腫瘍	10	右側後頭葉
脳腫瘍の形状	球形腫瘍、N/C比30%、NSE陽性	11	右側後頭葉

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1. WHO Classification of Tumours of the Digestive System. Eds: Bosman FT, et al. 4th Edition, 2010, IARC Press, Lyons France.
2. WHO Classification of Tumours of Endocrine Organs. Eds: Lloyd RV, et al. 4th edition, 2017, IARC Press, Lyon, France.
3. WHO Classification of Tumours. Digestive System Tumours. Eds: WHO Classification of Tumours Editorial Board. 5th Edition, 2019, IARC Press, Lyon, France.

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