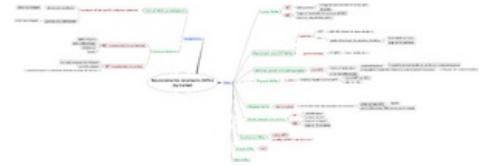


# Neuroendocrine neoplasms

Neuroendocrine neoplasms (NENs)

(by Coiled)



Neuroendocrine neoplasms (NENs)

## 1 Comments

### 1.1 Take all NENs as malignant!

#### 1.1.1 examples of site specific malignant potential

pituitary and parathyroid » rather less malignant

pancreas and small intestine » rather very malignant

### 1.2 General division

#### 1.2.1 NEC (neuroendocrine carcinomas)

highly malignant

poorly differentiated

metastasize

invade

#### 1.2.2 NET (neuroendocrine tumors)

not highly malignant, but malignant

well differentiated

potential to invade or metastasize depends on tumor site and type

## 2 Sites

### 2.1 Lung NENs

#### 2.1.1 NET

Lung carcinoid

- In lungs the term carcinoid still can be used
- low grade

#### 2.1.2 NEC

large cell neuroendocrine carcinoma (LCNEC)

small cell lung carcinoma (SCLC)

### 2.2 Pancreatic and GIT NENs

#### 2.2.1 pancreas

NET » well-differentiated NE tumors (PanNETs)

NEC » poorly differentiated NE carcinomas (PanNECs)

- Small cell NE carcinoma
- Large cell NE carcinoma

## **2.2.2                    gastrointestinal**

GI-NETs » small intestine NETs

## **2.3            Adrenal gland and paraganglia**

### **2.3.1                    only NETs**

tumors of neural crest

pheochromocytoma » if located in adrenal medulla we use the term pheochromocytoma

paraganglioma (sometimes called extra-adrenal pheochromocytoma) » if located not in adrenal medulla

all are well differentiated

## **2.4            Thyroid NENs**

### **2.4.1                    C-cells**

medullary thyroid carcinoma (MTC)

most of MTC are NETs

only 1% is NEC

## **2.5            Pituitary NENs**

### **2.5.1                    new proposal**

not to divide them into adenomas and carcinomas

rather call them NETs » PitNETs

poorly differentiated NECs do not exist in pituitary

## **2.6            Uterus (corpus and cervix)**

### **2.6.1                    NET**

carcinoid typical

carcinoid atypical

### **2.6.2                    NEC**

small cell carcinoma

large cell NE carcinoma

## **2.7            Parathyroid NENs**

mainly NETs

parathyroid NECs are very rare

## **2.8            Breast NENs**

rare

## **2.9            Skin NENs**