



Coding stage

Neuro-endocrine tumours

Liesbet Van Eycken

Criteria for TNM classification

- Merkel cell carcinoma => separate specific TNM classification
- Neuroendocrine tumours of the lung=>TNM according to lung carcinoma
- Well differentiated Neuroendocrine Tumours of the GI tract:
 - G1 and G2 NET: specific TNM classification
- High grade (Grade 3) neuroendocrine carcinoma are classified according to the respective tumour site

Grading scheme for all gastrointestinal NET's

Grade	Mitotic count (per 10 HPF) ^a	Ki-67 index (%) ^b
G1	<2	≤2
G2	2–20	3–20
G3	>20	>20

Preface	XII
Acknowledgments	XIV
Organizations Associated with the TNM System	XV
Members of UICC Committees Associated with the TNM System	XVI
Section Editors	XVII

Introduction 1

Head and Neck Tumours 17

Lip and Oral Cavity	18
Pharynx	22
Larynx	31
Nasal Cavity and Paranasal Sinuses	36
Unknown Primary – Cervical Nodes	40
Malignant Melanoma of Upper Aerodigestive Tract	45
Major Salivary Glands	47
Thyroid Gland	51

Digestive System Tumours 55

Oesophagus and Oesophagogastric Junction	57
Stomach	63
Small Intestine	67
Appendix	70
Colon and Rectum	73
Anal Canal and Perianal Skin	77
Liver	80
Intrahepatic Bile Ducts	83
Gallbladder	85
Perihilar Bile Ducts	87
Distal Extrahepatic Bile Duct	89
Ampulla of Vater	91

Pancreas	93
Well-Differentiated Neuroendocrine Tumours of the Gastrointestinal Tract	96

Lung, Pleural, and Thymic Tumours 105

Lung	106
Pleural Mesothelioma	112
Thymic Tumours	115

Tumours of Bone and Soft Tissues 119

Bone	120
Soft Tissues	124
Gastrointestinal Stromal Tumour (GIST)	127

Skin Tumours 131

Carcinoma of Skin	133
Skin Carcinoma of the Head and Neck	136
Carcinoma of Skin of the Eyelid	139
Malignant Melanoma of Skin	142
Merkel Cell Carcinoma of Skin	147

Breast Tumours 151

Gynaecological Tumours 159

Vulva	161
Vagina	164
Cervix Uteri	166
Uterus – Endometrium	171
Uterine Sarcomas	175
Ovarian, Fallopian Tube, and Primary Peritoneal Carcinoma	179
Gestational Trophoblastic Neoplasms	184

Urological Tumours 187

Penis	188
Prostate	191
Testis	195
Kidney	199

Renal Pelvis and Ureter	202
Urinary Bladder	204
Urethra	208

Adrenal Cortex 211

Ophthalmic Tumours	215
Carcinoma of Conjunctiva	216
Malignant Melanoma of Conjunctiva	218
Malignant Melanoma of Uvea	221
Retinoblastoma	226
Sarcoma of Orbit	230
Carcinoma of Lacrimal Gland	232

Hodgkin Lymphoma 235

Non-Hodgkin Lymphomas 239

Essential TNM 241

Paediatric Tumours	247
Gastrointestinal Tumours	247
Bone and Soft Tissue Tumours	248
Gynaecological Tumours	249
Urological Tumours	250
Ophthalmic Tumours	251
Malignant Lymphoma	252
Central Nervous System	252



Well differentiated NET (G1-G2): T-category

- **Different T-categories** for:
 - Stomach
 - Duodenal/ampullary
 - Jejunum/Ileum
 - Appendix
 - Colon and Rectum
 - Pancreas
- **T depends on depth of invasion / dimensions / extensions**
 - T4: Tumour perforates visceral peritoneum (serosa) or invades other organs
 - T4 pancreas: T invades adjacent organs or the wall of large vessels (coeliac axis or SMA)

Example T-category NET G1-G2 duodenum

Duodenum

T1 invades lamina propria or submucosa and size ≤ 1 cm

For **ampulla**, T1 ≤ 1 cm

Duodenum,

T2 invades muscularis propria or size > 1 cm.

Ampulla, T2 > 1 cm

Well differentiated NET: N and M-category

- **N0 – N1**: regional lymph nodes correspond to those of the sites for carcinoma
 - All localisations: only N0 or N1
 - 1 exception: jejunum/ileum tumours: N1 – N2: concept of '*mesenteric mass*'
 - N1: less than 12 regional N+ (without mesenteric mass(es) >2cm)
 - N2: ≥ 12 nodes +/- mesenteric mass(es) >2cm
- **pT and pN** correspond to the **cT and cN** categories
- **M0 – M1**
 - M1a hepatic metastasis only
 - M1b Extrahepatic metastasis only
 - M1c Hepatic and extrahepatic metastasis



- Exercises NET

- <https://create.kahoot.it/share/net-exercises/e6993fa5-c71e-4ede-b099-65b46af2c4eb>

