# **TNM Classification of Malignant Tumours - 7**<sup>th</sup> **edition**

Outline of changes between 6th and 7th editions

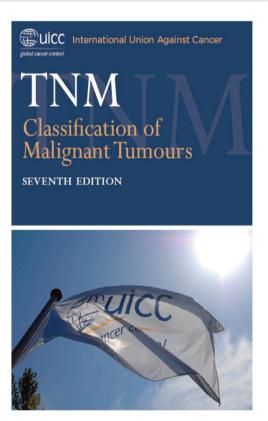




# TNM 7<sup>th</sup> edition due December 2009

The aim of this presentation is to:

- present the changes between the 6<sup>th</sup> and 7<sup>th</sup> edition
- Indicate where no changes have taken place
- provide links to where questions on the use of TNM may be found

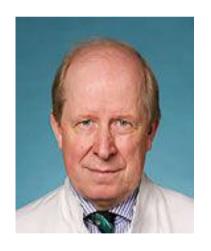




## **Special thanks to the editors**



Dr Mary Gospodarowicz



Dr Christian Wittekind



Dr Leslie Sobin



## **Highlights**

- Changes to take effect from January 2010
- The rules of classification and staging correspond to those appearing in the seventh edition of the *AJCC Cancer Staging Manual* 2009 and have approval of all national TNM committees
- First time the UICC process for evaluating proposals has been used



## **Highlights**

- 9 new classifications
- 6 major modifications
- Elimination of MX
- Introduction of Anatomical Stage Grouping and Prognostic Grouping



# First time the UICC process for evaluating proposals has been used

A continuous systematic approach composed of two arms has been introduced:

- procedures to address formal proposals from investigators
- periodic literature search for articles about improvements to TNM

Proposals and results of the literature search are evaluated by members of a UICC panel of experts, the TNM Prognostic Factors committee, the AJCC and the other national TNM experts

The changes to Lung cancer staging proposed by the IALSC and adopted are an example of this process



#### **TNM-7 New classifications**

- Melanoma of upper aerodigestive tract
- Gastroesophageal carcinomas
- Gastrointestinal stromal tumours (GISTs)
- Appendix: carcinomas
- Neuroendocrine tumours: stomach, intestines, appendix; pancreas; lung
- Intrahepatic cholangiocarcinoma
- Merkel cell carcinoma
- Uterine sarcomas
- Adrenal cortex



## **TNM-7 Major modifications**

- Esophagus
- Stomach
- Lung
- Skin
- Vulva
- Prostate



#### **TNM-7 Minor or no modifications**

- Head and neck
- Small intestine
- Colon
- Anal canal
- Liver, hepatocellular
- Gallbladder, ampulla, pancreas
- Mesothelioma, pleural
- Skin, melanoma
- Gynecological sites: except vulva
- Urological sites: except prostate



#### **Elimination of MX**

The use of MX may result in exclusion from staging

cMX is inappropriate as the clinical assessment of metastasis can be based on physical examination alone.

If the pathologist does not have knowledge of the clinical M, MX should NOT be recorded. It has been deleted from TNM.

pMX: does not exist; pM0: does not exist (except at autopsy)



#### **Elimination of MX**

What remains:

cM0 = clinically no distant metastasis

cM1= distant metastasis clinically, e.g., colon cancer with liver metastasis based on CT

pM1= distant metastasis proven microscopically, e.g., needle biopsy

If a cM1 (e.g., liver met) is biopsied and is negative, it becomes cM0, not pM0



# **Stage Grouping and Prognostic Grouping**

#### Stage grouping:

 Anatomical extent of disease, composed of T, N, and M categories alone

#### Prognostic Grouping:

T, N, and M plus other prognostic factors

For most tumour sites only the (Anatomical) Stage Grouping is given



## Nasopharynx – 7<sup>th</sup> edition

T1 Nasopharynx, oropharynx or nasal cavity (was T2a) without parapharyngeal extension

T2 Parapharyngeal extension (was T2b)

T3 Bony structures of skull base and/or paranasal sinuses

T4 Intracranial, cranial nerves, hypopharynx, orbit, infratemporal fossa/ masticator space

N1 Unilateral cervical, unilateral or bilateral retropharyngeal lymph nodes, above supraclavicular fossa; < 6 cm

N2 Bilateral cervical above supraclavicular fossa; < 6 cm

N3a >6 cm; N3b Supraclavicular fossa

Anatomical	Stage	Groups
/ IIIatomioai	Clago	aroupo

Stage I	T1	N0
Stage II	T1	N1
	T2	N0, N1
Stage III	T1, T2	N2
	T3	N0, 1, 2
Stage IVA	T4	N0, 1, 2
Stage IVB	Any T	N3
Stage IVC	Any T	Any N
M1		

Stage II compressed ←Changes from TNM 6 WWW.UICC.OFS



# Mucosal Melanoma (upper aerodigestive) 7<sup>th</sup> ed - (new site)

T3 Epithelium/ submucosa (mucosal disease)

T4a Deep soft tissue, cartilage, bone, or

overlying skin

T4b Brain, dura, skull base, lower cranial

nerves, masticator space, carotid artery, prevertebral space, mediastinal structures, cartilage, skeletal muscle, or bone

#### STAGE GROUPING

Stage III T3 N0
Stage IVA T4a N0
T3-T4a N1

Stage IVB T4b Any N
Stage IVC Any T Any N

M1

Mucosal melanomas are aggressive tumours, therefore T1 and T2 and Stages I and II are omitted



# TNM-7 Oesophagogastric junction tumours

A tumour the epicenter of which is within 5 cm of the esophagogastric junction and also extends into the oesophagus is classified and staged according to the oesophageal scheme

All other tumours with an epicenter in the stomach greater than 5 cm from the oesophagogastric junction or those within 5 cm of the EGJ *without* extension into the oesophagus are staged using the gastric carcinoma scheme

trachea



## **Oesophagus 7th edition**

**TNM definitions: AJCC = UICC** 

Tis	Carcinoma in situ /High-grade dysplasia
T1	lamina propria or submucosa
	T1a lamina propria or muscularis mucosae
	T1b submucosa
T2	muscularis propria
Т3	adventitia
T4	adjacent structures
	T4a pleura, pericardium, diaphragm, or adjacent peritoneum
	T4b other adjacent structures,
	e.g. aorta, vertebral body,

N0	No regional	lymph node

metastasis

N1 1 to 2 regional lymph nodes

N2 3 to 6

N3 >6

[N1 was site dependent]

M - Distant Metastasis

M1 Distant metastasis

[M1a,b were site dependent]

Changes from 6th edition



## **Oesophagus 7th edition**

**Anatomical Stage Groups (adeno & squamous) [UICC]** 

Stage IA	T1	N0	MO
Stage IB	T2	N0	MO
Stage IIA	T3	N0	MO
Stage IIB	T1, T2	N1	MO
Stage IIIA	T4a	N0	MO
	T3	N1	MO
	T1, T2	N2	MO
Stage IIIB	T3	N2	MO
Stage IIIC	T4a	N1, N2	MO
	T4b	Any N	MO
	Any T	N3	MO
Stage IV	Any T	Any N	M1

Major changes



## Oesophageal Squamous Cell Carcinoma <u>Prognostic</u> Grouping

#### [AJCC adds type, grade & site]

	Т	N	M	Grade	Location
Stage IA	1	0	0	1,X	Any
IB	1	0	0	2,3	Any
	2, 3	0	0	1,X	Lower
Stage IIA	2, 3	0	0	1,X	Upper, middle
	2, 3	0	0	2,3	Lower
Stage IIB	2, 3	0	0	2,3	Upper, middle
	1, 2	1	0	Any	Any
Stage IIIA	1,2		2	0	Any
	3	1	0	Any	Any
	4a	0	0	Any	Any
Low Stages: AJ0	CC not all = UIC0	<b>D</b> .	Stage	s IIIA,B, C & IV	: AJCC=UICC



## Oesophageal <u>Adenocarcinoma</u> <u>Prognostic</u> Grouping

[AJCC adds type & grade]

	т	N	Ν./Ι	Crada
	ı	IV	M	Grade
Stage IA	1	0	0	1, 2, X
Stage IB	1	0	0	3
	2	0	0	1, 2, X
Stage IIA	2	0	0	3
Stage IIB	3 (IIA)	0	0	Any
	1, 2	1	0	Any
Stage IIIA	1, 2	2	0	Any
	3	1	0	Any
	4a	0	0	Any
Ctogo IIID IIIC 9 IV				

Stage IIIB, IIIC, & IV...

Low Stages: AJCC not all = UICC.

AJCC=UICC

Stages IIIB, C & IV:



### Stomach 7<sup>th</sup> edition

T1 Lamina propria, submucosa

T1a Lamina propria

T1b Submucosa

T2 Muscularis propria

T3 Subserosa (was T2b)

T4a Perforates serosa (was T3)

T4b Adjacent structures

N1 1 to 2 nodes

N2 3 to 6 nodes (*was N1*)

N3a 7 - 15 nodes (was N2)

N3b 16 or more (was N3)

Changes from 6<sup>th</sup> edition

Stage IA	T1	N0	
Stage IB	T2	N0	
	T1	N1	
Stage IIA	T3	N0	
	T2	N1	
	T1	N2	
Stage IIB	T4a	N0	
	T3	N1	
	T2	N2	
	T1	N3	
Stage IIIA	T4a	N1	
	T3	N2	
	T2	N3	
Stages IIIB, IIIC, IV			

Stages: most changed



# Gastrointestinal Stromal Tumours (GIST) 7<sup>th</sup> ed - new chapter

All sites:

 $T1 \le 2 \text{ cm} T3 > 5-10 \text{ cm}$ T2 > 2 - 5 cm T4 > 10

cm

StageGrouping - Small Intestine

Mitotic rate

Stage I T1-2 N0 M0 Low
Stage II T3 Low
Stage IIIA T1 High

T4 Low
Stage IIIB T2, 3, 4 High
Stage IV Any T N1 M0 Any
Any T Any N M1 Any

Prognostic factors: site, size, mitotic rate

Stage Grouping - Stomach

<u>Mitotic</u>

<u>rate</u>

Stage IA T1-2 N0 M0 Low

Stage 1B T3 Low

Stage II T-2 High

T4 Low

Stage IIIA T3 High

IIIB T4 High

Stage IV Any T N1 M0 Any

Any T Any N M1 Any



# Carcinoids and Neuroendocrine tumours

#### Staging

#### GI tract:

- Carcinoid: separate staging by site
- Small cell/large cell: stage as carcinoma

Pancreas: stage as carcinoma

Lung: stage as carcinoma

Skin: separate classification for Merkel cell carcinoma



# Carcinoids (NET) – 7<sup>th</sup> edition Gastrointestinal

#### **Appendix**

 $T1 \leq 2 \text{ cm}$ 

T2 > 2 - 4 cm; cecum

T3 > 4 cm; ileum

T4 Perforates peritoneum; other organs, structures

#### **Small Intestine**

T1 Lam propria/ submucosa and ≤ 1 cm

T2 Muscularis propria or > 1 cm

T3 Jejunal, ileal: subserosa.

Ampullary, duodenal: pancreas or retroperitoneum`

T4 Perforates serosa; adjacent structures

#### **Stomach**

Tis < 0.5 mm confined to mucosa

T1 Lam propria or submucosa & ≤ 1cm

T2 Muscularis propria or > 1 cm

T3 Subserosa

T4 Perforates serosa; adjacent structures

#### **Large Intestine**

T1 Lam propria or submucosa or <2cm
T1a <1 cm; T1b 1 to 2 cm

T2 Muscularis propria or >2 cm

T3 Subserosa, or pericolorectal tissues

T4 Perforates serosa; adjacent structures



## Carcinoids (NET) – 7<sup>th</sup> edition

#### **Stage Groups**

#### **Carcinoid: Appendix**

Stage I T1 N0
Stage II T2, T3 N0
Stage III T4 N0
Any T N1
Stage IV Any T Any N M1

#### Carcinoid: other GI sites

Stage I	T1	N0	
Stage IIA	T2	N0	
IIB	T3	N0	
Stage IIIA	T4	N0	
IIIB	Any T	N1	
Stage IV	Any T	Any N	M1

Very

similar



## **Appendix**— 7<sup>th</sup> edition

#### **Carcinoid**

#### **Carcinoma**

T1 < 2 cm

T2 > 2 - 4 cm; cecum

T3 > 4 cm; ileum

T4 Perforates peritoneum; other organs, structures

N1 Regional

Stage I T1 N0

Stage II T2, T3 N0

Stage III T4 N0

Any T N1

Stage IV Any T Any N M1

Based mainly on size

T1 Submucosa

T2 Muscularis propria

T3 Subserosa, non-peritonealize periappendiceal tissues

T4a Perforates visceral peritoneum/Mucinous peritoneal tumour within right lower quadrant

T4b Other organs or structures

N1 ≤3 regional

N2 > 3 regional

M1a Intraperitoneal metastasis beyond right lower quadrant

M1b Non-peritoneal metastasis

Like colon, based on depth; includes goblet cell carcinoid



## **Appendix**— 7<sup>th</sup> edition

**Carcinoma (was part of colon classification)** 

Colon - Rectum

T4 Tumour directly invades other

organs or structures and/or

perforates visceral peritoneum

T4a perforates visceral peritoneum

T4b directly invades other organ or

structures

M – Distant Metastasis: colon

M1 Distant metastasis

M1a one organ

M1b > one organ or peritoneum

Changes from TNM 6

Appendix - Carcinoma: Separate mucinous from nonmucinous carcinomas

T4a Perforates visceral peritoneum/Mucinous peritoneal tumour within right lower quadrant

T4b Other organs or structures

M1a Intraperitoneal metastasis beyond RLO

M1b Non-peritoneal metastasis

Changes from colon



### Colon - Rectum - 7th edition

T4 Tumour directly invades other organs or structures and/or perforates visceral peritoneum

T4a perforates visceral peritoneum T4b directly invades other organ or structures

M1 Distant metastasis

M1a one organ

M1b > one organ or peritoneum

Basic categories unchanged Subdivisions expanded

N1 Metastasis in 1 to 3 regional lymph nodes

N1a 1 node

N1b 2-3 nodes

N1c satellites in subserosa, *without* regional nodes\*

N2 Metastasis in 4 or more regional lymph nodes

N2a 4 - 6 nodes

N2b 7 or more nodes

Basic categories unchanged Subdivisions expanded

Changes from 6th edition



### Colon - Rectum - 7<sup>th</sup> edition

Stage 0	Tis	N0
Stage I	T1, T2	NO
Stage II	T3, T4	N0
Stage IIA		T3
N0		
Stage IIB		T4a
N0		
Stage IIC		T4b
N0		
Basic categories u	unchanged	
Subdivisions expa	anded	
	Change	s from TNM 6

Stage III	Any T N1-2		
Stage IIIA	T1, T2		N1
	T1 N2a		
Stage IIIB	T3, T4a		N1
	T2-T3		
	N2a		
	T1-T2		
0: 1110	N2b		
Stage IIIC	T4a		
	N2a		
	T3-T4a		
	N2b		
	T4b		
0. 0.4	N1-2		
Stage IV	Any T M1	Any N	
Stage IVA	Any T	Any N	
	M1a		
Stage IVB	Any T	Any N	
	M1b		



## Extrahepatic bile ducts 7th ed

#### Proximal bile duct (New site)

(right, left and common hepatic ducts)

T1 Ductal wall

T2a Beyond ductal wall

T2b Adjacent hepatic parenchyma

T3 Unilateral portal vein or hepatic artery branches

T4 Main portal vein or branches bilaterally;

. . .

N1 Regional

STAGE GROUPS (Proximal)

Stage I T1 N0

Stage II T2a-b N0

Stage IIIA T3 N0

Stage IIIB T1-3 N1

Stage IVA T4 Any N

Stage IVB Any T Any N M1

Distal Extrahepatic Bile Ducts

(from cystic duct insertion into common hepatic duct)

T1 Ductal wall

T2 Beyond ductal wall

T3 adjacent organs

T4 Celiac axis, or superior mesenteric artery

N1 Regional

STAGE GROUPS (Distal)

Stage IA T1 N0

Stage IB T2 N0

Stage IIA T3 N0

Stage IIB T1 – 3 N1

Stage III T4 Any N

Stage IV Any T Any N M1

No change



## **Lung – 7th edition**

#### includes non-small cell and small cell carcinoma & carcinoid

T1 <3 cm

T1a <2 cm

T1b > 2 - 3 cm

T2 Main bronchus ≥2 cm from carina, invades visceral pleura, partial atelectasis

T2a > 3-5 cm

T2b > 5 cm - 7 cm

T3 >7 cm; chest wall, diaphragm, pericardium, mediastinal pleura, main bronchus <2 cm from carina, total atelectasis, separate nodule(s) in same lobe (was T4)

T4 Mediastinum, heart, great vessels, carina, trachea, oesophagus, vertebra; separate tumour nodule(s) in a different ipsilateral lobe (was M1)

N1 Ipsilateral peribronchial, ipsilateral hilar

N2 Ipsilateral mediastinal, subcarinal

N3 Contralateral mediastinal or hilar, scalene or supraclavicular

M1a Separate tumour nodule(s) in a contralateral lobe; pleural nodules or malignant pleural or pericardial effusion (was T4)

M1b Distant metastasis

Changes from 6<sup>th</sup> edition



## **Lung – 7th edition**

#### includes non-small cell and small cell carcinoma & carcinoid

Occult ca	rcinoma N0	TX	
Stage 0	NO	Tis	
Stage IA	N0	T1a, b	
Stage IB	NO	T2a	
Stage IIA		T2b	
	N0	N1	T1a, b
	T2a		N1
Stage IIB	N1	T2b	
	INI	ТЗ	
	N0		

Stage IIIA T1a,b,	T2a,b	N2
Т3		N1, N2
T4		N0, N1
Stage IIIB T4		N2
Any T		N3
Stage IV Any T	Any N	M1

Changes to the 6<sup>th</sup> edition are based upon recommendations from the IASLC Lung Cancer Staging Project (retrospective study of 80,000 cases)

One classification for several tumor types; must separate tumors by histology.

Changes from 6<sup>th</sup> edition



### Skin 7<sup>th</sup> ed - carcinomas

6<sup>th</sup> ed

T1 <2 cm

T2 >2 to 5 cm

T3 >5 cm

T4 Deep extradermal structures (bone, muscle...)

N1 Regional

#### 7th ed

T1 <2 cm

T2 >2 cm

T3 Deep: Muscle, bone, cartilage, jaws, orbit

T4 Skull base, axial skeleton

N1 single <3 cm

N2 single ≥3 to 6 cm, multiple ≤6 cm

N3 >6 cm



### Skin 7th ed - carcinomas

6<sup>th</sup> ed

Stage I T1 N0

Stage II T2, T3 N0

Stage III T4 or N1

Stage IV Any T Any N M1

**High Risk Factors (AJCC)** 

>4 mm thickness, Clark IV

Perineural invasion

Lymphovascular invasion

Ear, non-glabrous lip

Poorly or undifferentiated

\*Stage I with > one high risk factor =

Stage II →

**Anatomical Stage Groups** 

Stage I T1 N0

Stage II T2 N0

Stage III T3 N0

T1, 2, 3 N1

Stage IV T1, 2, 3 N2

T4 or N3 or M1

**AJCC Prognostic Groups** 

Stage I \* T1 N0

Stage II T2 N0

Stage III and IV: Same as anatomical

above



### Skin 7<sup>th</sup> edition

#### **Skin Carcinoma**

#### **Merkel Cell carcinoma**

#### 7<sup>th</sup> ed

T1 <2 cm

T2 > 2 cm

T3 Deep: Muscle, bone, cartilage, jaws, orbit

T4 Skull base, axial skeleton

N1 single <3 cm

N2 single  $\geq$ 3 to 6 cm, multiple  $\leq$ 6 cm

N3 >6 cm

#### Merkel cell

T1 <2 cm

T2 > 2 to 5 cm

T3 >5 cm

T4 Deep extradermal structures (bone, muscle...)

N1a microscopic metastasis

N1b macroscopic metastasis

N2 In transit metastasis

M1a skin, subcut, non-regional nodes

M1b lung

M1c other sites

Differs from other skin carcinoma



### Skin 7<sup>th</sup> edition

#### **Skin Carcinoma**

#### Merkel cell

#### carcinoma

Stage I	T1	N0		
Stage II	T2	N0		
Stage III	T3	N0		
	T1, 2, 3	N1		
Stage IV	T1, 2, 3	N2		
	T4 or	N3	or	M1

pN0 = microscopically confirmed

cN0 = nodes neg. clinically; not micro confirmed

Merkel cell carcinoma			
Stage I IA IB T1	T1 T1 cN0	N0 pN0	
Stage IIA IIB IIC	T2, 3 T2, 3 T4	pN0 cN0 N0	
Stage IIIA IIIB	Any T Any T	N1a N1b, N2	
Stage IV Any T	Any N	M1	



## Vulva-7<sup>th</sup> ed

T1	Confined to vulva/perineum
T1a T1b T2	≤ 2 cm with stromal invasion ≤ 1.0 mm > 2 cm or stromal invasion > 1.0 mm Lower urethra/vagina/anus
Т3	Upper urethra/vagina, bladder rectal/mucosa, bone, fixed to pelvic bone
N1a	One or two nodes < 5 mm
N1b	One node ≥ 5 mm
N2a	3 or more nodes < 5 mm
N2b	2 or more nodes ≥ 5 mm
N2c	Extracapsular spread
N3	Fixed, ulcerated
M1 Major char	Distant nges in T & N categories and stage grouping
.major orial	

STAGE GF	ROUPING		
Stage 0	Tis	N0	MO
Stage I	T1	N0	MO
Stage IA	T1a	N0	MO
Stage IB	T1b	N0	MO
Stage II	T2	N0	MO
Stage IIIA	T1, T2	N1a, N1b	MO
Stage IIIB	T1, T2	N2a, N2b	MO
Stage IIIC	T1, T2	N2c	MO
Stage IVA	T1, T2	N3	MO
		T3	Any N
	MO		
Stage IVB	Any T	Any N	M1

carcinoma



### Uterine Sarcomas - 7th ed

Leibiliyosa	arconna/Lnu	Omemai Suomai		
sarcoma				
1	Tumor lim	Tumor limited to uterus		
	IA	< 5 cm		
	IB	> 5 cm		
П	Beyond ut	erus, in pelvis		
	IIA	Adnexal		
	IIB	Other pelvic tissues		
III	Tumor invades abdominal tissues			
	IIIA	One site		
	IIIB	> one site		
	IIIC	Pelvic/para-aortic nodes		
	IVA	Tumor invades		
		bladder/rectum		
	IVB	Distant metastasis		
Carcinosa	rcoma stage	ed as endometrial		

Leiomyosarcoma/Endometrial stromal

Adenosarc	oma		
I	Tumor limited to uterus		
	IA	Endometrium/endocervix	
	IB	< half myometrium	
	IC	>half myometrium	
	Beyond uterus, in pelvis		
	IIA	Adnexal	
	IIB	Other pelvic tissues	
III	Tumor inva	umor invades abdominal tissues	
	IIIA	One site	
	IIIB	> one site	
	IIIC I	Pelvic/para-aortic nodes IVA	
	Invades bla	adder/rectum	
IVB	Distant me	tastasis	



### **Prostate- 7th edition**

T1 Not palpable or visible

T1a ≤5% or less

T1b >5%

T1c Detected by needle biopsy

T2 Confined within prostate

T2a  $\leq$  half of one lobe

T2b > half of one lobe

T2c Both lobes

T3 Through prostate capsule

T3a Extracapsular

T3b Seminal vesicle(s)

T4 Fixed or invades adjacent structures

No change from 6<sup>th</sup>

STAGE GROUPING (ANATOMIC)

(UICC)

Stage I T1, T2a N0

Stage II T2b-2c N0

Stage III T3 N0

Stage IV T4 N0

Any T N1

Any T Any N M1

Change from 6<sup>th</sup> Grade was in 6<sup>th</sup>



# Prostate- 7<sup>th</sup> ed

1	1a - c	N0	PSA <10	Gle ≤ 6
	T2a	N0	PSA <10	Gle <u>≤</u> 6
IIA	T1a-c	N0	PSA < 20	Gle 7
	T1a-c	N0	PSA <u>≥</u> 10 <20	Gle <6
	T2a,b	N0	PSA < 20	Gle ≤ 7

If PSA or Gleason is missing, use whatever is available

IIB	T2c	N0	Any PSA	Any Gle
	T 1-2	N0	PSA <u>≥</u> 20	Any Gle
	T 1-2	N0	Any PSA	Gle ≥ 8
Ш	T3a-b	N0	Any PSA	Any Gle
IV	T4	N0	Any PSA	Any Gle
	Any T	N1	Any PSA	Any Gle
	Any T	Any N	M1 Any PSA	Any Gle

If both missing, no prognostic grouping is possible



# **Adrenal Cortical Carcinoma - 7**<sup>th</sup> **edition**

(new site)

T1  $\leq$  5 cm, no extra-adrenal invasion

T2 > 5 cm, no extra-adrenal invasion

T3 Local invasion

T4 Adjacent organs

N1 Regional

M1 Distant

STAGE	GROI	IPING
JIAGE	an loc	$\cup$

 Stage I
 T1
 N0

 Stage II
 T2
 N0

 Stage III
 T1, T2
 N1

 T3
 N0

 Stage IV
 T3
 N1

 T4
 Any N

Any T Any N M1



#### What else is new?

Pn Perineural Invasion

PnX Perineural invasion cannot be

assessed

Pn0 No perineural invasion

Pn1 Perineural invasion



#### What else is new?

Tumour deposit or satellite in colorectal cancer

- N1c
   Tumour deposit(s), i.e. satellites, in the subserosa, or in non-peritonealized pericolic or perirectal soft tissue without regional lymph node metastasis
- If a nodule is considered by the pathologist to be a totally replaced lymph node (generally having a smooth contour), it should be recorded as a positive lymph node and counted as such i.e., N1a,N1b, N2a or N2b



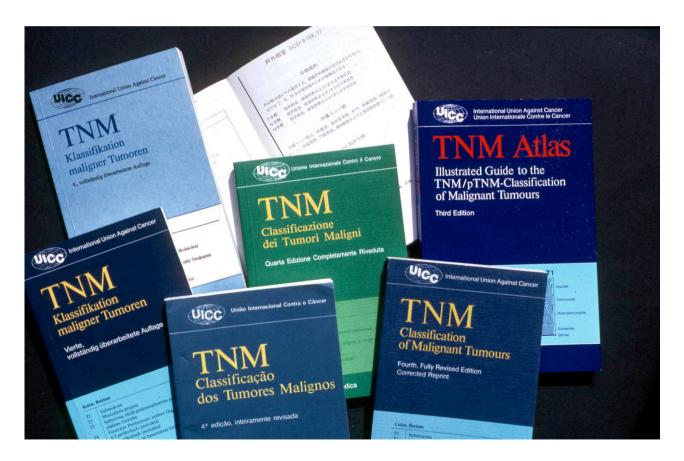
#### **Additional Material**

#### www.uicc.org/tnm

- Web page
- FAQ: Answers to frequently asked questions about TNM
- Helpdesk for questions on TNM not answered by the FAQ
- Guidelines on how to use TNM
- Glossary of terms used
- How to propose changes for the 8<sup>th</sup> edition

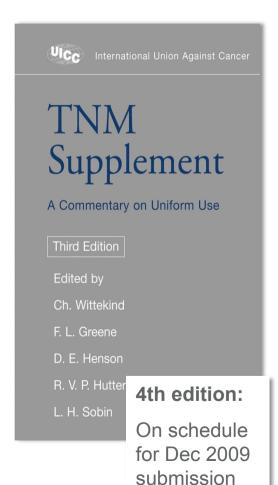


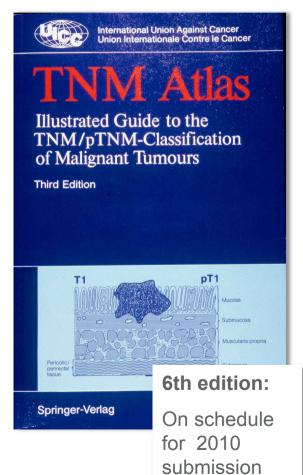
# Translations of 7<sup>th</sup> edition planned

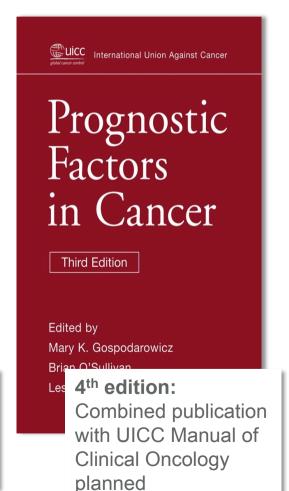




## **Coming Soon**







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