TNM Classification of Malignant Tumours 8th edition

Changes between the 7th and 8th editions

international union against cancer



TNM-8

• The TMN 8th edition is being published in December 2017.

The UICC TNM Prognostic Factors Project recognizes that not all cancer registries will be able to stage new cancer cases diagnosed from January the 1st 2018 with TNM 8th edition but that physician may use the 8th edition as soon as it is available. It is therefore important that the edition of TNM being used to stage patients is recorded.

- The following is a summary of the changes between the 7th and 8th editions of TNM.
- Major changes are listed and minor changes are identified.



TNM-8 New classifications:

- Oropharynx p16+ve
- Unknown primary cervical neck lymph nodes
- Skin head and neck cancers
- Thymus
- Neuroendocrine tumors: pancreas
- Osteosarcoma: Pelvic, Spine
- Soft tissue Sarcoma: Head and neck, Retroperitoneal, Thoracic and Abdominal Viscera





Major modifications

- Head and Neck Nodes
- Nasopharynx
- Thyroid
- Esophagus
- Stomach
- Anal Cancer
- Liver
- Lung
- Prostate
- Ovary





Minor or no modifications

- Introduction
- Other Head and Neck carcinomas
- Hepatobiliary
- Small intestine, Colon and rectum
- Neuroendocrine
- Pleura
- Penis, Kidney, Ureter, Bladder, Urethra,
- Eye
- Malignant Lymphoma



New Structure

- Remove C factor from introduction
- Clarify ITC
- Add Prognostic Grid
- Essential TNM
- Paediatric Malignancies





ITC -UICC

- Isolated tumour cells (ITC) are single tumour cells or small clusters of cells not more than 0.2 mm in greatest extent that can be detected by routine H and E stains or immunohistochemistry. An additional criterion has been proposed to include a cluster of fewer than 200 cells in a single histological cross-section others have proposed that a cluster should have 20 cells or fewer; definitions of ITC may vary by tumour site.
- The exception is in Malignant Melanoma of the skin and Merkel Cell Carcinoma, wherein ITC in a lymph node are classified as N1. These cases should be analyzed separately.



Head and Neck Changes

- For all sites there are separate classifications for clinical and pathological neck nodes
- There is a new classification for p16 positive oropharyngeal cancers. Tumours that have p16 immunohistochemistry overexpression.
- The classification for nasopharyngeal cancers and thyroid cancers has been modified
- The there is a new classification for squamous cell carcinoma of the skin in the head and neck region
- There is a new classification for cervical nodal involvement with unknown primary

international union against cancer Cervical Nodes – 8th edition



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Clinical

N1, N2a, N2b and N2c unchanged other than specify without extranodal extension

- N3a Metastasis in a lymph node more than 6 cm in greatest dimension without extranodal extension
- N3b Metastasis in a single or multiple lymph nodes with clinical extranodal extension*

* The presence of skin involvement or soft tissue invasion with deep fixation/tethering to underlying muscle or adjacent structures or clinical signs of nerve involvement is classified as clinical extra nodal extension

Pathological

- N1, N2a, N2b and N2c unchanged other than specify without extranodal extension
- pN3a Metastasis in a lymph node more than 6 cm in greatest dimension without extranodal extension
- pN3b Metastasis in a lymph node more than 3 cm in greatest dimension with extranodal extension or, multiple ipsilateral, or any contralateral or bilateral node(s) with extranodal extension

international union Oropharynx against cancer p16 Positive tumours



Clinical and Pathological T categories

- T1 Tumour 2 cm or less in greatest dimension
- T2 Tumour more than 2 cm but not more than 4 cm
- T3 Tumour more than 4 cm in or extension to lingual surface of epiglottis
- T4 Tumour invades any of the following: larynx, deep/ extrinsic muscle of tongue (genioglossus, hyoglossus, palatoglossus, and styloglossus), medial pterygoid, hard palate, mandible*, lateral pterygoid muscle, pterygoid plates, lateral nasopharynx, skull base; or encases carotid artery

international unionOropharynxagainst cancerp16 Positive tumours



Clinical N categories

- NO No regional lymph node metastasis
- N1 Unilateral metastasis, in lymph node(s), all 6 cm or less
- N2 Contralateral or bilateral metastasis in lymph node(s), all 6 cm or less in greatest dimension
- N3 Metastasis in lymph node(s) greater than 6 cm in dimension

Pathological N categories

- pN0 No regional lymph node metastasis
- pN1 Metastasis in 1 to 4 lymph node(s)
- pN2 Metastasis in 5 or more lymph node(s)

international union Oropharynx against cancer p16 Positive tumours



MO

MO

MO

MO

Clinical				Pathological	
Stage I	T1,T2	NO,1	MO	Stage I T1,T2	N0,1
Stage II	T1,T2	N2	MO	Stage II T1,T2	N2
	Т3	N0,N1,N2	MO	Т3	NO,N1
Stage III	T1-T4	N3	MO	Stage III T3,T4	N2
	Τ4	Any N	MO		
Stage IV	Any T	Any N	MO	Stage IV Any T	Any N

Nasopharynx



T categories

- T1 Unchanged
- T2 Tumour with extension to parapharyngeal space and/or infiltration of the medial pterygoid, lateral pterygoid, and/or prevertebral muscles
- T3 Tumour invades bony structures of skull base cervical vertebra, pterygoid structures, and/or paranasal sinuses
- T4 Tumour with intracranial extension and/or involvement of cranial nerves, hypopharynx, orbit, parotid gland and/or infiltration beyond the lateral surface of the lateral pterygoid muscle

N Categories

N1 Unilateral metastasis, in cervical lymph node(s), and/or unilateral or bilateral metastasis in retropharyngeal lymph nodes, 6 cm or less ,above the caudal border of cricoid cartilage N2 Bilateral metastasis in cervical lymph node(s), 6 cm or less above the caudal border of cricoid cartilage N3 Metastasis in cervical lymph node(s) greater than 6 cm in dimension

and/or extension below the caudal border of cricoid cartilag





	Stage Groups				
Stage I	Τ1	NO	MO		
Stage II	Τ1	N1	MO		
	Τ2	NO, N1	MO		
Stage III	T1, T2	N2	MO		
	Т3	NO, N1, N2	MO		
Stage IVA	Τ4	NO, N1, N2	MO		
	Any T	N3	MO		
Stage IVB	Any T	Any N	M1		

Stage IV compressed previous stage IVB now IVA

Cervical Node Unkown Primary



If HPV positive stage as per nasopharyngeal carcinomas

If p16 positive stage as per p16 positive oropharynx carcinomas If HPV and p16 negative clinical and pathological node definitions are as above

Stage III	TO	N1	MO
Stage IVA	ТО	N2	MO
Stage IVB	ТО	N3	MO
Stage IVC	ТО	N1, N2, N3	M1

Thyroid Carcinoma Papillary and Follicular



		Stage < 55 ye	ears old	
revise	efinition of T3 has been ed for papillary and follicular and llary carcinomas Tumour more than 4 cm in	Any T Any T	Any N Any N	MO M1
	greatest dimension, limited to the thyroid	Stage <u>></u> 55 ye	ears old	
	Tumor of any size with gross extrathyroidal extension invading only strap muscles (sternohyoid, sternothyroid, or omohyoid muscles) ge for a poor prognosis has ged from 45 years to 55 years		NO NO N1 Any N Any N Any N	MO MO MO MO MO MO MO MO MO M1



TNM-8 Oesphagogastric Junction

Oesophagus and Gastric Carcinomas

- A tumour the epicenter of which is within 2 cm of the oesophagogastric junction and also extends into the oesophagus is classified and staged using the oesophageal scheme. Cancers involving the oesophagogastric junction (OGJ) whose epicenter is within the proximal 2 cm of the cardia (Siewert types I/II) are to be staged as oesophageal
- Cancers whose epicenter is more than 2 cm distal from the OGJ will be staged using the Stomach Cancer TNM and Stage even if the OGJ is involved.



There are no changes in the definitions of the T, N and M categories.

Note there are pathological prognostic groups available for squamous cell carcinoma and clinical and pathological prognostic groups available for adenocarcinoma

The AJCC also publish post preoperative therapy prognostic groups for adenocarcinoma and squamous cell carcinoma

Oesophagus Squamous Cell Carcinoma



Clinical	Stage			Pathological S	Stage		
Stage 0	Tis	NO	MO	Stage 0	Tis	NO	MO
Stage I	Τ1	NO, N1	MO	Stage IA	T1a	NO	MO
Stage II	Т2	NO, N1	MO	Stage IB	T1b	NO	MO
	Т3	NO	MO		Τ2	NO	MO
Stage III	T1,T2	N2	MO	Stage II	Т3	NO	MO
	Т3	N1, N2	MO		Τ1	N1	MO
Stage IVA	T4a,T4b	Any N	MO	Stage IIIA	Τ1	N2	MO
Stage IVA	Any T	N3	MO		Τ2	N1	MO
Stage IVB	Any T	Any N	M1	Stage IIIB	Τ2	N2	MO
					Т3	N1, N2	MO
					T4a	NO, N1	MO
				Stage IVA	T4a	N2	MO
					T4b	Any N	MO
					Any T	N3	MO
				Stage IVB	Any T	Any N	M1

WWW, UICC, Org

Oesophagus Adenocarcinoma



Clinical	Stage		
Stage 0	Tis	NO	MO
Stage I	T1	NO	MO
Stage IIA	T1	N1	MO
IIB	Τ2	NO	MO
Stage III	T1	N2	MO
	T2	N1, N2	MO
	T3,T4a	NO, N1,	MO
Stage IVA	T4b	NO, N1	MO
	Any T	N2, N3	MO
Stage IVB	Any T	Any N	M1

Patholog	gical Sta	ige	
Stage 0	Tis	NO	MO
Stage IA	T1a	NO	MO
Stage IB	T1b	NO	MO
Stage IIA	T2	NO	MO
Stage IIB	T1a,T1b	N1	MO
Stage IIIA	T1	N2	MO
	T2	N1	MO
	T3, T4a	NO	MO
Stage IIIB	T2	N2	MO
	Т3	N1, N2	MO
	T4a	N1	MO
Stage IVA	T4a	N2	MO
	T4b	Any N	MO
	Any T	N3	MO
Stage IVB	Any T	Any N	M1
•			

Gastric Carcinoma Adenocarcinoma



Clinical	Stage			P
Stage I	T1, T2,	NO	MO	St
Stage IIA	T1, T2,	N1, N2, N3	MO	St
Stage IIB	T3, T4a	NO	MO	St
Stage III	T3, T4a	N1, N2, N3	MO	
Stage IV	T4b	Any N	MO	St
Stage IV	Any T	Any N	M1	
				St

Pathological	Stage		
Stage 0	Tis	NO	MO
Stage IA	Τ1	NO	MO
Stage IB	T1	N1	MO
	Τ2	NO	MO
Stage IIA	T1	N2	MO
	Τ2	N1	MO
	Т3	NO	MO
Stage IIB	T1	N3a	MO
	T2	N2	MO
	Т3	N1	MO
	T4a	NO	MO



Colon and Rectum



Definition of tumour deposit clarified

Tumour deposits (satellites) are discrete macroscopic or microscopic nodules of cancer in the pericolorectal adipose tissue's lymph drainage area of a primary carcinoma that are discontinuous from the primary and without histological evidence of residual lymph node or identifiable vascular or neural structures. If a vessel wall is identifiable on H&E, elastic or other stains, it should be classified as venous invasion (V1/2) or lymphatic invasion (L1). Similarly, if neural structures are identifiable, the lesion should be classified as perineural invasion (Pn1). The presence of tumour deposits does not change the primary tumour T category, but changes the node status (N) to N1c if all regional lymph nodes are negative on pathological examination

Colon and Rectum and Appendix



T and N categories Unchanged		Stage Unchanged except for Stage IVA, IVB, IVC as below		
M1	Distant metastasis	Stage IV Any T Any N M1		
M1a	Metastasis confined to one organ (liver, lung, ovary, non regional lymph node(s)) without peritoneal metastases	Stage IVAAny TAny NM1aStage IVBAny TAny NM1bStage IVCAny TAny NM1c		
M1b	Metastasis in more than one organ	Appendix		
M1c	Metastasis to the peritoneum with or without other organ involvement	Introduction of Tis (LAMN). Low- grade appendiceal mucinous neoplasm confined to the appendix Changes to N and M categories and Stage		



Tumours of anal margin and perianal skin defined as within 5cm of the anal margin are now classified with carcinomas of the anal canal

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T categories are unchanged N0 No regional lymph node metastasis N1 Metastasis in regional lymph node(s) N1a Metastases in inguinal, mesorectal, and/or internal iliac nodes N1b Metastases in external iliac nodes

N1c Metastases in external iliac and in inguinal, mesorectal and/or internal iliac nodes

M categories are unchanged

Stage			
Stage I	T1	NO	MO
Stage IIA	Т2	NO	MO
Stage IIB	Т3	NO	MO
Stage IIIA	T1, T2	N1	MO
Stage IIIB	Τ4	NO	MO
Stage IIIC	ТЗ, Т4	N1	MO
Stage IV	Any T	Any N	M1
			_





T1a	Solitary tumour less than or equal to 2 cm in greatest dimension with or without vascular invasion	There are r definitions categories.	of the N	•	
T1b	Solitary tumor more than 2 cm in greatest dimension without vascular invasion	Stage			
T2	Solitary tumour with vascular	Stage I A	T1a	NO	MO
	invasion more than 2 cm dimension	Stage I B	T1b	NO	MO
	<i>or</i> multiple tumours, none more than 5 cm in greatest dimension	Stage II	Τ2	NO	MO
Т3	Multiple tumours any more than 5 cm	Stage IIIA	Т3	NO	MO
	in greatest dimension	Stage IIIB	Τ4	NO	MO 🖌 🛓
T4	Tumour(s) involving a major branch	Stage IVA	Any T	N1	MO MO M1
	of the portal or hepatic vein with direct invasion of adjacent organs (including the diaphragm), other than the gallbladder or with perforation of visceral peritoneum	Stage IVB	Any T	Any N	M1 M1 M1CC. OF



Intrahepatic Bile Ducts

- Changes in definitions of T1 and T2 categories
- Changes in Stage

Gall Bladder

- Changes in definitions of T2 category and N categories
- Change in Stage

Perihilar Bile Ducts No Changes

Distal Extrahepatic Bile Duct

 Changes in definitions of T1,T2,T3 categories and N categories

Changes in Stage

Ampulla of Vater

- Changes in definitions of T1,T2 and T3 categories and N categories
- Changes in Stage

Well differentiated Neuroendocrine Tumours of the Gastrointestinal Tract

- Pancreas added
- Minor changes in T categories.
- Changes in N category for Jejunum and Ileum
- Minor changes in Stage

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Pancreas



T1	Tumour 2 cm or less	M category unchanged
	T1a Tumour 0.5 cm or less	
	T1b Tumour greater than	Stage
	0.5 cm and less than 1 cm	Stage IA T1
	T1c Tumor greater than 1	Stage IB T2
	cm but no more than 2 cm	Stage IIA T3
T2	Tumour more than 2 cm but no more than 4 cm	Stage IIB T1, T2, T3
Т3	Tumour more than 4 cm in greatest dimension	Stage III T1, T2, T3
Τ4	Tumour involves coeliac axis, superior mesenteric artery and/or common hepatic artery	Stage IV Any T
N1 N2	Metastases in 1 to 3 nodes Metastases in 4 or more nodes	

Stage			
Stage IA	Τ1	NO	MO
Stage IB	Т2	NO	MO
Stage IIA	Т3	NO	MO
Stage IIB	Т1, Т2, Т3	N1	MO
Stage III	T1, T2, T3	N2	MO
	Τ4	Any N	MO
Stage IV	Any T	Any N	M1



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T1 Tumour 3 cm or less

- T1mi Minimally invasive adenocarcinoma
- T1a Tumour 1 cm or less
- T1b Tumour more than 1 cm but not more than 2 cm
- T1c Tumour more than 2 cm but not more than 3 cm
- T2 Tumour more than 3 cm but not more than 5 cm; or tumour with *any* of the following features:

Lung

Involves main bronchus without involvement of the carina, or invades visceral pleura or associated with atelectasis or obstructive pneumonitis

- T2a Tumour more than 3 cm but not more than 4 cm
- T2b Tumour more than 4 cm but not more than 5 cm





T3 Tumour more than 5 cm but not more than 7 cm or directly invades: parietal pleura, chest wall, phrenic nerve, or parietal pericardium; or separate tumour nodule(s) in the same lobe.

T4 Tumour more than 7 cm or of any size that invades any of the following: diaphragm, mediastinum, heart, great vessels, trachea, recurrent laryngeal nerve, oesophagus, vertebral body, carina; or separate tumour nodule(s) in a different ipsilateral lobe to the primary

N Category- No Change

M Category

- M1a Separate tumour nodule(s) in a contralateral lobe; tumour with pleural or pericardial nodules or malignant pleural or pericardial effusion
- M1b Single extrathoracic metastasis in a single organ
- M1c Multiple extrathoracic metastasis in a single or multiple organs





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Stage IA	Τ1	NO	MO	Stage IIIA	T1a-c, T2a,b	N2	MO
Stage IA1	T1mi,T1a	NO	MO		Т3	N1	
Stage IA2	T1b	NO	MO		Τ4	NO, M	V1 M0
Stage IA3	T1c	NO	MO	Stage IIIB	T1a-c, T2a,b	Ν3	MO
Stage IB	T2a	NO	MO		ТЗ, Т4	N2	MO
Stage IIA	T2b	NO	MO	Stage IIIC	ТЗ, Т4	Ν3	MO
Stage IIB	T1a-c, T2a,b	N1	MO	Stage IV	Any T Any	Ν	M1
	Т3	NO	MO	Stage IVA	Any T Any	N I	M1a,b
				Stage IVB	Any T Any	N M	M1 WWW.UICC.(

international union against cancer Mesothelioma and Thymus



Mesothelioma

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Minor change in T1 category
Changes in N category
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Changes in Stage

Thymus

Please see details in

Nicholson AG, Detterbeck FC, Marino M et al. The IASLC/ITMIG thymic epithelial tumors staging project: proposals for the T component for the forthcoming (8th) edition of the TNM classification of malignant tumors. *J Thorac Oncol* 2014; 9: s73-s80.

Bone and Soft Tissues Sarcoma



Bone

- No Changes for sarcomas of the Appendicular Skeleton, Trunk, Skull and Facial Bones
- New Classifications introduced for Spine and Pelvic Bone Sarcomas

Soft Tissues sarcoma

- New T categories for Extremity and Superficial Trunk
- T1 Tumour 5 cm or less
- T2 Tumour more than 5 cm but no more than 10 cm
- T3 Tumour more than 10 cm but no more than 15 cm
- T4 Tumour more than 15 cm

New Classification for retroperitoneal sarcoma (same as extremity) Head and Neck and also Thoracic and Abdomina Viscera

Skin Carcinomas



T categories

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T1 <u><</u>2 cm

- T2 > 2 to 4cm
- T3 > 4 cm

T4a Tumor with gross cortical bone / marrow invasion

T4b Tumor with skull base or axial skeleton invasion including foraminal involvement and/or vertebral foramen involvement to the epidural space

N Categories for non head and neck

- N1 Metastasis in a single lymph node 3 cm or less
- N2 Metastasis in a single ipsilateral lymph node, more than 3 cm but not more than 6 cm or in multiple ipsilateral nodes none more than 6 cm
- N3 Metastasis in a lymph node more than 6 cm

Head and Neck Region N categories as defined in slide 9



Stage			
Stage I	Τ1	NO	MO
Stage II	Т2	NO	MO
Stage III	Т3	NO	MO
	Т1, Т2, Т3	N1	MO
Stage IVA	Т1, Т2, Т3	N2, N3	MO
	Τ4	Any N	MO
Stage IVB	Any T	Any N	M1



international union against cancer Malignant Melanoma & Merkel cell carcinoma

Cutaneous Melanoma

- pT1a and pT1b categories introduced
 - pT1a <u><</u> 0.8mm
 - pT1b > 0.8mm -1mm
- M category
 - M1a Skin, subcutaneous tissue or non regional lymph nodes
 - M1b Lung
 - M1c Other non-central nervous system sites
 - M1d Central nervous system
- M Category modified by elevated or nonelevated LDH

Merkel cell

Changes in cN and pN
 classification and in Stage



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• Stage Revised

Genitourinary Malignancies and Adrenal Cortex



global cancer control

Prostate

T4N0M0 is now stage III WHO Grade should be used to record tumour grade

Stage

Stage I	T1, T2a	NO	MO
Stage II	T2b-2c	NO	MO
Stage III	Т3,Т4	NO	MO
Stage IV	Any T	N1	MO
	Any T	Any N	M1

Penis

Changes in T category and pathological N category

Kidney N2 is eliminated

Genitourinary Malignancies and Adrenal Cortex



global cancer control

Urinary bladder The M category is subdivided M1a Non regional lymph nodes M1b Other distant metastasis Minor changes to Stage

Urethra

Changes to N category

N1 Metastasis in a single lymph node

N2 Metastasis in multiple lymph nodes

Adrenal Cortex					
Change in Stage					
Stage I	T1	NO	MO		
Stage II	Τ2	NO	MO		
Stage III	T1, T2	N1	MO		
	ТЗ, Т4	NO, N1	MO		
Stage IV	Any T	Any N	M1		





Ovary– 8th ed TNM and Ovary, Fallopian Tube and Primary Peritoneal Carcinoma based on FIGO 2014

- FIGO has published a new classification for ovarian cancer*
- This classification incorporates cancers of the fallopian tube and primary peritoneal carcinomas

Staging classification for cancer of the ovary, fallopian tube, and peritoneum. Jaime Prat; for the FIGO Committee on Gynecologic Oncology. International Journal of Gynecology and Obstetrics 124 (2014) 1–5

international union Ovary, Fallopian Tube against cancer and Primary Peritoneum



T1	Limited to the ovaries		T3 and/or Peritoneal metastasis beyond pelvis
Tla	One ovary, (capsule intact)	IA	N1 and/or regional lymph node metastasis III
	or fallopian tube		T1/T2 N1 Retroperitonal nodes only IIIA1
Tlb	Both ovaries, capsule intact	IB	T1/T2 N1a <u><</u> 10mm IIIA1i
TIc1	Surgical Spill	IC1	T1/T2 N1b > 10mm IIIA1ii
TIc2	Capsule ruptured before surgery or		T3a N0/N1 Microscopic peritoneal metastasis
IC2			T3b N0/N1 Macroscopic peritoneal metastasis
	tumour on surface of ovary or tube		<u><</u> 2cm IIIB
TIc3	Malignant cells in ascites or	IC3	T3c N0/N1 Peritoneal metastasis >2 cm IIIC
	peritoneal washings		M1 Distant metastasis (excludes peritoneal)
T2	Pelvic extension below pelvic brim		M1a Pleural effusion positive cytology IVB
	or primary peritoneal cancer		M1b Parenchymal metastases IVB
T2a	Uterus, tube(s), ovary (ies)	IIA	
T2b	Other pelvic tissues	IIB	
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 A recent consensus conference in Lugano suggested a more simplified system putting together stage I and II as Limited Stage and stage III and IV as Advanced Stage lymphoma.

Limited Stage

- Stage I
- Stage II
- Bulky Stage II

Advanced Stage

- Stage III
- Stage IV

Cheson BD, Fisher RI, Barrington SF, et al. Recommendations for initial evaluation, staging, and response assessment of Hodgkin and non-Hodgkin lymphoma: the Lugano classification. *J Clin Oncol.* 2014;32: 3059-3068

international union against cancer Ophthalmic Tumours



Carcinoma of Conjunctiva

 Minor changes to definition of T1 and T2 categories

Malignant Melanoma of Conjunctiva

 Changes to the pathological T categories

Malignant Melanoma of Uvea

- Iris
 - Minor changes to definition T2 category

Retinoblastoma

Changes to definition of cT1 and cM categories and pT and pM categories

Sarcoma of the Orbit

 Minor changes to definition of T1 and T2 categories

Carcinoma of Lacrimal Gland

Changes to the T categories

international union against cancer Essential TNM



- Information on anatomical extent of disease at presentation is often not available for cancer registries in low and middle income countries either because of inability to perform necessary investigations or because of lack of recording of information.
- The UICC TNM Project has with the International Agency for Research in Cancer and the National Cancer Institute developed
 "Essential TNM" that can be used to collect stage data when complete information is not available.
- When the T, N, and M categories have not been the cancer registrar can code the extent of disease according to the Essential TNM scheme.
- The schema for breast, colorectal cancer, prostate and cervix cancer published in the 8th edition TNM Classification and are available on the website





- A consensus meeting held in 2014 recommended a tiered staging system with more detailed systems for well-resourced cancer registries and less detailed systems for registries with limited recourses and access
- The recommendations for tier 1 and 2 follow are published the the 8th edition TNM Classification of Malignant Tumours.
- For some cancers recommendations are the same as described earlier for adult patients.