

Coding stage – Session 4

**Coding Sarcomas** 

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## Sarcoma

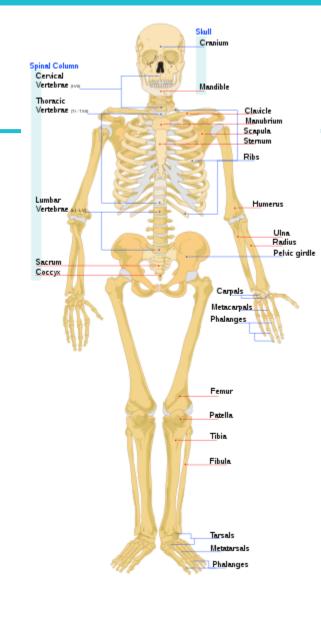
- Tumours of Bone
- Tumours of Soft Tissues
  - Extremity and superficial trunk
  - Retroperitoneum
  - Head and neck
  - Thoracic and abdominal viscera
- Gastrointestinal Stromal Tumour (GIST)
- Uterine sarcomas
  - Leiomyosarcoma, endometrial stromal sarcoma
  - Adenosarcoma



# Bone (C40 - C41)

- Specific T-categories for:
  - Appendicular Skeleton, Trunk, Skull and Facial Bones
  - Spine (no stage available)
  - Pelvis (no stage available)
- Histology: All primary malignant bone tumours
  - *Exceptions*: lymphoma, myeloma, surface/juxtacortical osteosarcoma, juxtacortical chondrosarcoma
- **Histological Grade**: low grade (G1) high grade (G2, G3) needed for stage
  - Example: Stage IA: T1 N0 M0 G1, GX Low Grade

Stage IIA: T1, N0, M0 – G2, G3, **High Grade** 



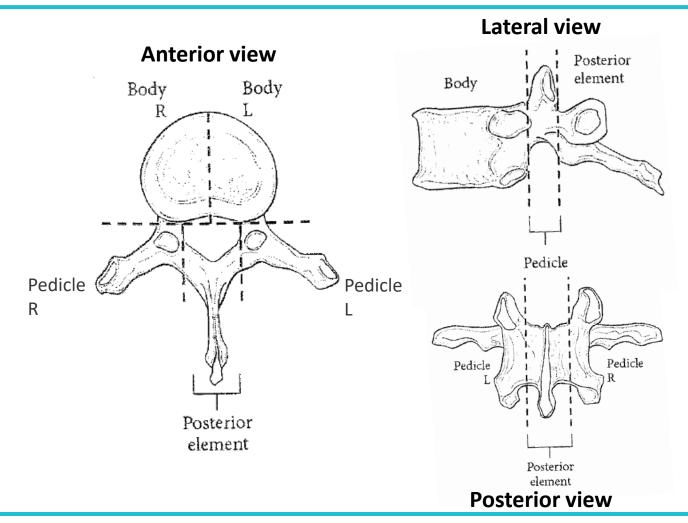


# **Bone: T-, N- and M- category principles / Stage**

- T-category based on dimensions and anatomic extensions
  - Principle of 'segments' for spine and pelvic sarcomas
- N-category: N0-N1
  - Regional lymph nodes: appropriate to the site of the primary tumour
  - Node involvement is rare
    - Even when no clinical/pathological assessment available: N0 can be used instead of (p)NX
- M-category
  - M0 M1a lung M1b other distant metastasis
- Stage: if available: GRADE to be included to summarize T,N,M, into a STAGE



# **Bone: Spine segments for staging**

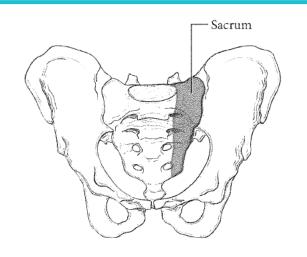


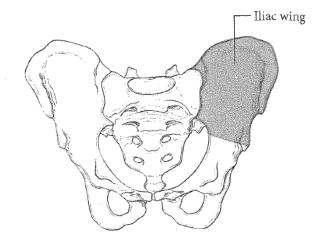
**T:** number of spinal segments involved or involvement of the spinal canal/great vessels.

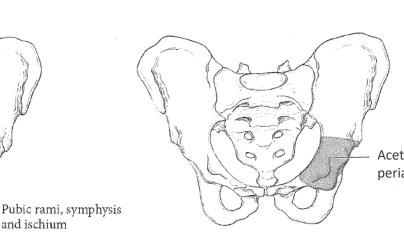
**e.g.** 5 Vertebral segments: right/left pedicle, right/left body, posterior element

- T1 = 1 or 2 adjacent vertebral segments.
- T2 = three adjacent vertebral segments.
- T3 = ≥4 adjacent vertebral segments, or any tumour involving nonadjacent segments.
- **T4** = invasion of spinal canal or the great vessels.

# **Bone: Pelvic segments for staging**







T is defined primarily by the number of pelvic segments involved, the presence of extraosseous extension, or involvement of the pelvic vessels.

- **T1** = 1 pelvic segment without extraosseous extension.
- **T2** = 1 pelvic segment with extraosseous extension or 2 segments without extraosseous extension.
- **T3** = 2 pelvic segments with extraosseous extension.
- **T4** = 3 pelvic segments, extend across the sacroiliac joint, encase the external iliac vessels, or presence of periacetabulum gross tumour within the pelvic vessels.



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## Soft tissue: criteria TNM classification

- **Topography** C38.1-3, C47-C49, C00-C14, C15-C26, C50, ...., **specific T-categories** for:
  - Extremity and Superficial trunk
  - Retroperitoneum
  - Head and neck (no stage)
  - Thoracic and abdominal viscera (no stage)
- Histological types not included:
  - Kaposi sarcoma, dermatofibrosarcoma, sarcoma from dura mater or brain, angiosarcoma
  - Cystosarcoma phyllodes is staged as a STS of the superficial trunk
- Histological Grade: low grade (G1) high grade (G2, G3) needed for stage
  - Extremity
    - Stage IA: T1 N0 M0 G1, GX Low Grade
    - Stage II: T1, N0, M0 G2, G3, High Grade



# **Soft tissue: T and N- category principles**

- T-category based on localization, dimensions and anatomic extensions
- N-category: N0-N1
  - Regional lymph nodes: appropriate to the site of the primary tumour
  - Node involvement is rare
    - Even when no clinical or pathological assessment available: N0 can be considered instead of (p)NX



## **Dimensions only**

**Dimensions and Invasion into...** 

## **Invasion serosa and multifocality**



### **Extremity and Superficial Trunk**

- T1 Tumour 5 cm or less in greatest dimension
- T2 Tumour more than 5 cm but no more than 10 cm in greatest dimension
- T3 Tumour more than 10 cm but no more than 15 cm in greatest dimension
- T4 Tumour more than 15 cm in greatest dimension

#### Retroperitoneum

- T1 Tumour 5 cm or less in greatest dimension
- T2 Tumour more than 5 cm but no more than 10 cm in greatest dimension
- T3 Tumour more than 10 cm but no more than 15 cm in greatest dimension
- T4 Tumour more than 15 cm in greatest dimension

#### Head and Neck

- T1 Tumour 2 cm or less in greatest dimension
- Tumour more than 2 cm but no more than 4 cm in greatest
- T3 Tumour more than 4 cm in greatest dimension
- T4a Tumour invades the orbit, skull base or dura, central compartment viscera, facial skeleton, and or pterygoid muscles
- T4b Tumour invades the brain parenchyma, encases the carotid artery, invades prevertebral muscle or involves the central nervous system by perineural spread

#### Thoracic and Abdominal Viscera

- T1 Tumour confined to a single organ
- T2a Tumour invades serosa or visceral peritoneum
- T2b Tumour with microscopic extension beyond the serosa
- T3 Tumour invades another organ or macroscopic extension beyond the
- T4a Multifocal tumour involving no more than two sites in one organ
- T4b Multifocal tumour involving more than two sites but not more then 5 sites
- T4c Multifocal tumour involving more than five sites

# **Gastrointestinal Stromal Tumour (GIST)**

- **Topography** C15-C20, C48.0-2;8
- **T-category**: dimension only

- T1 Tumour 2 cm or less
- T2 Tumour more than 2 cm but not more than 5 cm
- T3 Tumour more than 5 cm but not more than 10 cm
- T4 Tumour more than 10 cm in greatest dimension
- Histopathological grade: needed for stage
  - Low mitotic rate: 5 or fewer mitoses per 50 hpf
    High mitotic rate: over 5 per 50 hpf
    e.g. gastric tumour T2N0M0: Stage IA: if low mitotic rate Stage II if high mitotic rate
  - => Mitotic counting is for an area of 5 mm<sup>2</sup>
- N-category N0-N1
  - Regional lymph nodes: appropriate to the site of the primary tumour
  - Node involvement is rare: Even when no clinical or pathological assessment available: N0 can be considered instead of (p)NX
- Stage: Gastric GIST and intestinal GIST



# **Uterine sarcoma-FIGO/TNM**

### Leiomyosarcoma, Endometrial stromal sarcoma

### T – Primary tumour

TNM	FIGO	Definition
categories	Stage	
T1	I	Tumour limited to the uterus
T1a	IA	Tumour 5 cm or less in greatest dimension
T1b	IB	Tumour more than 5 cm
T2	II	Tumour extends beyond the uterus, within
		the pelvis
T2a	IIA	Tumour involves adnexa
T2b	IIB	Tumour involves other pelvic tissues
T3	III	Tumour infiltrates abdominal tissues
T3a	IIIA	One site
T3b	IIIB	More than one site
N1	IIIC	Metastasis to regional lymph nodes
T4	IVA	Tumour invades bladder or rectum
M1	IVB	Distant metastasis

### Adenosarcoma

### T - Primary tumour

			- •
TNM	I categories	FIGO	Definition
		Stage	
T1		I	Tumour limited to the uterus
	T1a	IA	Tumour limited to the endometrium/
			endocervix
	T1b	IB	Tumour invades to less than half of
			the myometrium
	→ T1c	IC	Tumour invades more than half of the
			myometrium
T2		II	Tumour extends beyond the uterus,
			within the pelvis
	T2a	IIA	Tumour involves adnexa
	T2b	IIB	Tumour involves other pelvic tissues
T3		III	Tumour involves abdominal tissues
	T3a	IIIA	One site
	ТЗЪ	IIIB	More than one site
N1		IIIC	Metastasis to regional lymph nodes
T4		IVA	Tumour invades bladder or rectum
M1		IVB	Distant metastasis