Coding stage – Session 4

Coding Sarcomas

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Bone and Soft Tissue Tumours 248
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.

- **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.

*Example*: 5 Vertebral segments: right/left pedicle, right/left body, posterior element
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 gross tumour within the pelvic vessels.

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
Soft tissue: T-category

Dimensions only

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
- T2: Tumour more than 2 cm but no more than 4 cm in greatest dimension
- T3: Tumour more than 4 cm in greatest dimension
- T4a: Tumour invades the orbit, skull base or dura, central compartment visera, 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

Dimensions and Invasion into...

Invasion serosa and multifocality
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 mm²

- **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

## T – Primary tumour

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

**Adenosarcoma**

**Leiomyosarcoma, Endometrial stromal sarcoma**