## Oral Cancer Histopathology Reporting Proforma

Mandatory questions (i.e. protocol standards) are in bold (e.g. S1.01).

### S1.01 Identification

<table>
<thead>
<tr>
<th>Field</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family name</td>
<td></td>
</tr>
<tr>
<td>Given name(s)</td>
<td></td>
</tr>
<tr>
<td>Date of birth</td>
<td><strong>DD – MM – YYYY</strong></td>
</tr>
</tbody>
</table>

**G1.01** Patient identifiers  
e.g. MRN, IHI or NHI (please indicate which)

**S1.02** Accession number  

**S1.03** Principal clinician  

**S1.04** Anatomical site  

**S1.05** Laterality of the lesion  
- Left [ ]  
- Right [ ]  
- Not stated [ ]

**S1.06** Clinical history  

**S1.07** New primary cancer or recurrence  
- Not stated [ ]  
- New primary [ ]  
- Recurrence [ ]  
  - Distant [ ]  
  - Regional [ ]

**S1.08** Pre-operative or prior radiotherapy  
- Not stated [ ]  
- None administered [ ]  
- Yes [ ]

**S1.09** Type of operation (tick all that apply)  
- Incisional biopsy [ ]  
- Excisional biopsy [ ]  
- Hemi-glossectomy [ ]  
- Partial glossectomy [ ]  
- Hemi-mandibulectomy [ ]  
- Segmental mandibulectomy [ ]  
- Partial / hemi-maxillectomy [ ]  
- Total maxillectomy [ ]  
- Wedge resection of lip [ ]  
- Neck dissection [ ]  
  - Selective [ ]  
  - Modified radical [ ]  
  - Radical [ ]  
  - Extended radical [ ]

**G1.03** Human papilloma virus (HPV) status  

**G1.04** Clinical diagnosis or differential diagnosis  

**S1.08** Pre-operative or prior radiotherapy  
- Not stated [ ]  
- None administered [ ]  
- Yes [ ]

**S1.09** Type of operation (tick all that apply)  
- Incisional biopsy [ ]  
- Excisional biopsy [ ]  
- Hemi-glossectomy [ ]  
- Partial glossectomy [ ]  
- Hemi-mandibulectomy [ ]  
- Segmental mandibulectomy [ ]  
- Partial / hemi-maxillectomy [ ]  
- Total maxillectomy [ ]  
- Wedge resection of lip [ ]  
- Neck dissection [ ]  
  - Selective [ ]  
  - Modified radical [ ]  
  - Radical [ ]  
  - Extended radical [ ]

**Nodal levels included** (tick all that apply)  
- Submental (IA) [ ]  
- Submandibular (IB) [ ]  
- Upper jugular (IIA) [ ]  
- Upper jugular (IIB) [ ]  
- Middle jugular (III) [ ]  
- Lower jugular (IV) [ ]  
- Posterior triangle (VA) [ ]  
- Posterior triangle (VB) [ ]

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<table>
<thead>
<tr>
<th>S1.10</th>
<th>Involvement of adjacent structures</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Not stated ☐</td>
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<table>
<thead>
<tr>
<th>S1.11</th>
<th>Distant metastases</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Not stated ☐</td>
</tr>
<tr>
<td></td>
<td>No ☐</td>
</tr>
<tr>
<td></td>
<td>Yes ☐ Specify details</td>
</tr>
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</table>

**Macroscopic findings**

<table>
<thead>
<tr>
<th>S2.02</th>
<th>Description &amp; measurements of specimen</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Specimen description</td>
</tr>
<tr>
<td></td>
<td>Specimen measurements</td>
</tr>
<tr>
<td></td>
<td><strong>Dry</strong> mm x <strong>width</strong> mm x <strong>thickness</strong> mm</td>
</tr>
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<table>
<thead>
<tr>
<th>Mucosa</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Not received ☐</td>
</tr>
<tr>
<td></td>
<td>Received</td>
</tr>
<tr>
<td></td>
<td>Description:</td>
</tr>
<tr>
<td></td>
<td>Measurements:</td>
</tr>
<tr>
<td></td>
<td><strong>length</strong> mm x <strong>width</strong> mm x <strong>thickness</strong> mm</td>
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<table>
<thead>
<tr>
<th>Teeth</th>
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<tr>
<td></td>
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<tr>
<td></td>
<td>Received</td>
</tr>
<tr>
<td></td>
<td>Description (eg number, type)</td>
</tr>
<tr>
<td></td>
<td>Measurements:</td>
</tr>
<tr>
<td></td>
<td><strong>length</strong> mm x <strong>width</strong> mm x <strong>thickness</strong> mm</td>
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<table>
<thead>
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<th>Bone</th>
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<td>Not received ☐</td>
</tr>
<tr>
<td></td>
<td>Received</td>
</tr>
<tr>
<td></td>
<td>Description (eg type of bone eg maxilla, mandible, hyoid):</td>
</tr>
<tr>
<td></td>
<td>Measurements:</td>
</tr>
<tr>
<td></td>
<td><strong>length</strong> mm x <strong>width</strong> mm x <strong>thickness</strong> mm</td>
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</table>

<table>
<thead>
<tr>
<th>Soft tissue</th>
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<td></td>
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<tr>
<td></td>
<td>Received</td>
</tr>
<tr>
<td></td>
<td>Description:</td>
</tr>
<tr>
<td></td>
<td>Measurements:</td>
</tr>
<tr>
<td></td>
<td><strong>length</strong> mm x <strong>width</strong> mm x <strong>thickness</strong> mm</td>
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</table>

<table>
<thead>
<tr>
<th>Salivary gland</th>
<th></th>
</tr>
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<tbody>
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<td></td>
<td>Not received ☐</td>
</tr>
<tr>
<td></td>
<td>Received</td>
</tr>
<tr>
<td></td>
<td>Description:</td>
</tr>
<tr>
<td></td>
<td>Measurements:</td>
</tr>
<tr>
<td></td>
<td><strong>length</strong> mm x <strong>width</strong> mm x <strong>thickness</strong> mm</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>S2.03</th>
<th>Description and measurements of lesion</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Size:</td>
</tr>
<tr>
<td></td>
<td>Site:</td>
</tr>
<tr>
<td></td>
<td>Appearance:</td>
</tr>
</tbody>
</table>
S2.04  Macroscopic depth of invasion

mm

S2.05  Surgical margins

Margin 1  (specify)
Distance to lesion mm

Margin 2  (specify)
Distance to lesion mm

Margin 3  (specify)
Distance to lesion mm

Margin 4  (specify)
Distance to lesion mm

S2.06  Involvement of adjacent structures

Absent  Present  Indicate site:
Bone/part of bone
Sublingual gland
Submandibular gland
Nose
Sinus

G2.04  Teeth – FDI designation (if present)

G2.05  Teeth mobility (if present)

Peridental ligament involvement (if teeth present)
Absent  Present
Root resorption (if teeth present)
Absent  Present

S2.07  Neck dissection

Absent  Present  Specify type:
selective
modified radical
radical
extended radical

Description:

Laterality:
Left  Right

Dimensions:
length mm  x  width mm  x  thickness mm

S2.08  Number and level of lymph nodes

submental (level IA)  number
submandibular (level IB)  number
upper jugular (level IIA)  number
upper jugular (level IIB)  number
middle jugular (level III)  number
lower jugular (level IV)  number
posterior triangle (level VA)  number
posterior triangle (level VB)  number

G2.06  Distant metastases

Absent  Present  Indicate site(s):

G2.07  Other macroscopic comments
Microscopic findings

S3.01 Tumour type
☐ Squamous cell carcinoma
☐ Other (specify):

Tumour subtype
Conventional ☐
Verrucous carcinoma ☐
Basaloid squamous cell carcinoma ☐
Papillary squamous cell carcinoma ☐
Spindle cell carcinoma ☐
Acantholytic squamous cell carcinoma ☐
Adenosquamous carcinoma ☐
Carcinoma cuniculatum ☐
Undifferentiated ☐
(no or limited differentiation)
Other (specify):

S3.02 Histological grade

S3.03 Tumour site

S3.04 Tumour size (greatest surface dimensions or diameter)

length mm x width mm

S3.05 Depth of invasion

mm

S3.06 Growth pattern of invasion
Cohesive ☐
Broad bulbous islands of cells ☐
Strands of cells ☐
(>15 cells across)
Noncohesive ☐
Narrow strands or small islands ☐
of infiltrating cells
Single infiltrating keratinocytes ☐

S3.07 Lymphovascular invasion
Not identified ☐
Present ☐

S3.08 Perineural invasion at tumour front
Not identified ☐
Present ☐

S3.09 Bone invasion
Absent ☐
Present ☐

G3.01 Sialadenotropism
Absent ☐
Present ☐

Ductal invasion
Absent ☐
Present ☐

G3.02 Involvement of salivary gland
Not involved ☐
Involved ☐

G3.03 Involvement of adjacent structures
Absent ☐
Present ☐
Indicate site
(tick all that apply)
Cortical bone ☐
Floor of mouth ☐
Skin of face ie chin or nose ☐
Deep muscle of tongue
(genioglossus, hyoglossus, palatoglossus, and styloglossus)
Maxillary sinus ☐
Pterygoid plates ☐
Encases internal carotid artery ☐
Internal jugular vein ☐
Sternocleidomastoid muscle ☐

S3.10 Status of surgical margins
Margin 1
(specify)
Involved ☐
Not involved ☐
Distance to tumour mm

Margin 2
(specify)
Involved ☐
Not involved ☐
Distance to tumour mm
**S3.11 Severe dysplasia at margin**

Abs ent □
Present □
Which margin(s) □

**S3.12 Lymph node status**

**submental (level IIA)**

Total number of nodes □
Number of involved nodes □

**submandibular (level IB)**

Total number of nodes □
Number of involved nodes □

**upper jugular (level IIA)**

Total number of nodes □
Number of involved nodes □

**upper jugular (level IIB)**

Total number of nodes □
Number of involved nodes □

**middle jugular (level III)**

Total number of nodes □
Number of involved nodes □

**lower jugular (level IV)**

Total number of nodes □
Number of involved nodes □

**posterior triangle (level VA)**

Total number of nodes □
Number of involved nodes □

**posterior triangle (level VB)**

Total number of nodes □
Number of involved nodes □

**Largest metastatic deposit:**

Location □

**Dimensions**

Length mm x Width mm x Thickness mm □

**Extra-capsular spread**

Abs ent □
Present □
Type of spread:

- Early (microscopic) □
- Established □
- Gross □

Distance of invasion from nodal capsule:

mm □

Structures involved in extra-capsular spread:

**Permeation of perinodal lymphatics**

Abs ent □
Present □

**Distance to perinodal surgical margin**

mm □

**Ancillary test findings**

**S4.01 Immunohistochemical stains**

Not performed □
Performed □

Complete details:

Positive Abs □
Negative Abs □
Equivocal Abs □

Interpretation □
Clinical significance □
Synthesis and overview

S5.01 AJCC Tumour stage (see opposite)

<table>
<thead>
<tr>
<th>T</th>
<th>N</th>
<th>M</th>
</tr>
</thead>
</table>

Stage Grouping

S5.02 Year of publication and edition of cancer staging system

G5.01 Diagnostic summary
Include: Type of operation, Anatomical site, Tumour type; Histological grade; Depth of invasion; Lymphovascular invasion; Perineural invasion; Involved or close margins with measurements; Severe dysplasia; Type of neck dissection (if present); Presence or absence of metastatic tumour in lymph nodes and level of involved nodes; Presence or absence of extracapsular spread of tumour; Tumour stage.

AJCC Stage & stage group*

Primary Tumour (T)

<table>
<thead>
<tr>
<th>TX</th>
<th>Primary tumour cannot be assessed</th>
</tr>
</thead>
<tbody>
<tr>
<td>T0</td>
<td>No evidence of primary tumour</td>
</tr>
<tr>
<td>Tis</td>
<td>Carcinoma in situ</td>
</tr>
<tr>
<td>T1</td>
<td>Tumour 2 cm or less in greatest dimension</td>
</tr>
<tr>
<td>T2</td>
<td>Tumour more than 2 cm but not more than 4 cm in greatest dimension</td>
</tr>
<tr>
<td>T3</td>
<td>Tumour more than 4 cm in greatest dimension</td>
</tr>
<tr>
<td>T4a</td>
<td>Moderately advanced local disease.</td>
</tr>
<tr>
<td></td>
<td>(lip) Tumour invades through cortical bone, inferior alveolar nerve, floor of mouth, or skin of face, i.e., chin or nose (oral cavity) Tumour invades adjacent structures only (e.g., through cortical bone, [mandible or maxilla] into deep [extrinsic] muscle of tongue [genioglossus, hyoglossus, palatoglossus, and styloglossus], maxillary sinus, skin of face)</td>
</tr>
<tr>
<td>T4b</td>
<td>Very advanced local disease. Tumour invades masticator space, pterygoid plates, or skull base and/or encases internal carotid artery</td>
</tr>
</tbody>
</table>

Regional Lymph Nodes (N)

| NX | Regional lymph nodes cannot be assessed |
| N0 | No regional lymph node metastasis |
| N1 | Metastasis in a single ipsilateral lymph node, 3 cm or less in greatest dimension |
| N2 | Metastasis in a single ipsilateral lymph node, more than 3 cm but not more than 6 cm in greatest dimension; or in multiple ipsilateral lymph nodes, none more than 6 cm in greatest dimension; or in bilateral or contralateral lymph nodes, none more than 6 cm in greatest dimension |
| N2a| Metastasis in single ipsilateral lymph node more than 3 cm but not more than 6 cm in greatest dimension |
| N2b| Metastasis in multiple ipsilateral lymph nodes, none more than 6 cm in greatest dimension |
| N2c| Metastasis in bilateral or contralateral lymph nodes, none more than 6 cm in greatest dimension |
| N3 | Metastasis in a lymph node more than 6 cm in greatest dimension |

Distant Metastasis (M)

| M0 | No distant metastasis |
| M1 | Distant metastasis |

Anatomic Stage/Prognostic Groups

<table>
<thead>
<tr>
<th>Stage 0</th>
<th>Tis</th>
<th>N0</th>
<th>M0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stage I</td>
<td>T1</td>
<td>N0</td>
<td>M0</td>
</tr>
<tr>
<td>Stage II</td>
<td>T2</td>
<td>N0</td>
<td>M0</td>
</tr>
<tr>
<td>Stage III</td>
<td>T3</td>
<td>N0</td>
<td>M0</td>
</tr>
<tr>
<td></td>
<td>T1</td>
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<td></td>
<td>T2</td>
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<tr>
<td></td>
<td>T3</td>
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<tr>
<td>Stage IVA</td>
<td>T4a</td>
<td>N0</td>
<td>M0</td>
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<td>T4a</td>
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<td>N2</td>
<td>M0</td>
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<td>M0</td>
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<td>T4b</td>
<td>Any N</td>
<td>M0</td>
</tr>
<tr>
<td>Stage IVC</td>
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<td>Any N</td>
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