

## COSD mapping for Appendix I: Histopathology reporting proforma: urinary bladder (cystectomy or diverticulectomy) in list format

| RCPATH Data set item element name | Values | Implementation comments         | COSD Pathology v4.0.2 (2020)   | COSD Pathology v5.1.1 (2024)   |
|-----------------------------------|--------|---------------------------------|--|--|
| Surname                           |        |                                 | CR0050 - Person Family Name  | CR0050 - Person Family Name  |
| Forenames                         |        |                                 | CR0060 - Person Given Name   | CR0060 - Person Given Name   |
| Date of birth                     |        |                                 | CR0100 - Person Birth Date   | CR0100 - Person Birth Date   |
| Sex                               |        |                                 | CR3170 - Person Stated Gender Code   | CR3170 - Person Stated Gender Code   |
| Hospital                          |        |                                 | pCR0800 - Organisation Identifier (of Reporting Pathologist)                               | pCR0800 - Organisation Identifier (of Reporting Pathologist)                               |
| Hospital no                       |        |                                 | CR0020 - Local Patient Identifier  | CR0020 - Local Patient Identifier  |
| NHS/CHI no                        |        | CHI number not recorded in COSD | CR0010 - NHS Number  | CR0010 - NHS Number  |
| Date of receipt                   |        |                                 | pCR0770 - Sample Receipt Date  | pCR0770 - Sample Receipt Date  |
| Date of reporting                 |        |                                 | pCR0780 - Investigation Result Date  | pCR0780 - Investigation Result Date  |
| Report no                         |        |                                 | pCR0950 - Service Report Identifier  | pCR0950 - Service Report Identifier  |
| Pathologist                       |        |                                 | pCR7100 - Professional Registration Issuer Code - Consultant (Pathology Test Requested By) | pCR7100 - Professional Registration Issuer Code - Consultant (Pathology Test Requested By) |

|  |                                     |  |   |   |
|--|-------------------------------------|--|---|---|
|  |                                     |  | <b><i>pCR7120 - Professional Registration Entry Identifier - Consultant (Pathology Test Requested By)</i></b>       | <b><i>pCR7120 - Professional Registration Entry Identifier - Consultant (Pathology Test Requested By)</i></b>       |
| <b>Surgeon</b>                           |                                     |  | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> |
| <b>Nature of specimen/<br/>procedure</b> | <b>Single selection value list:</b> |  | <b><i>pCR0760 – Pathology Investigation Type (All values)</i></b>   | <b><i>pCR0760 – Pathology Investigation Type (All values)</i></b>   |
|  | Radical cystectomy                  |  | RE - Radical excision   | RE - Radical excision   |
|  | Partial cystectomy                  |  | PE - Partial excision   | PE - Partial excision   |
|  | Diverticulectomy                    |  | EX - Excision   | EX - Excision   |
|  |                                     |  |   |   |
|  |                                     |  | <b><i>pCR0970 – Specimen Nature (All values)</i></b>  | <b><i>pCR0970 – Specimen Nature (All values)</i></b>  |
|  |                                     |  | 1 (Primary tumour)  | 1 (Primary tumour)  |
| <b>Specimen components</b>               | <b>Single selection value list:</b> |  | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> |
|  | Bladder                             |  |   |   |
|  | Prostate                            |  |   |   |
|  | Seminal vesicles                    |  |   |   |
|  | Penile urethra                      |  |   |   |
|  | Uterus                              |  |   |   |
|  | Vaginal cuff                        |  |   |   |
| <b>Fallopian tubes</b>                   | <b>Single selection value list:</b> |  | <b><i>pCR0820 - Tumour Laterality (Pathological)</i></b>  | <b><i>pCR0820 - Tumour Laterality (Pathological)</i></b>  |
|  | Right                               |  | R - Right   | R - Right   |
|  | Left                                |  | L - Left  | L - Left  |
|  | Laterality not specified            |  | 9- Not Known  | 9- Not Known  |
| <b>Ovaries</b>                           | <b>Single selection value list:</b> |  | <b><i>pCR0820 - Tumour Laterality (Pathological)</i></b>  | <b><i>pCR0820 - Tumour Laterality (Pathological)</i></b>  |

|   |                                     |   |   |   |
|---|-------------------------------------|---|---|---|
|   | Right                               |   | R - Right   | R - Right   |
|   | Left                                |   | L - Left  | L - Left  |
|   | Laterality not specified            |   | 9- Not Known  | 9- Not Known  |
| <b>Ureters</b>  | <b>Single selection value list:</b> |   | <b><i>pCR0820 - Tumour Laterality (Pathological)</i></b>  | <b><i>pCR0820 - Tumour Laterality (Pathological)</i></b>  |
|   | Right                               |   | R - Right   | R - Right   |
|   | Left                                |   | L - Left  | L - Left  |
|   | Laterality not specified            |   | 9- Not Known  | 9- Not Known  |
| <b>Regional Lymph nodes</b>   | <b>Single selection value list:</b> |   | <b><i>pCR0820 - Tumour Laterality (Pathological)</i></b>  | <b><i>pCR0820 - Tumour Laterality (Pathological)</i></b>  |
|   | Right                               |   | R - Right   | R - Right   |
|   | Left                                |   | L - Left  | L - Left  |
|   | Laterality not specified            |   | 9- Not Known  | 9- Not Known  |
| <b>Site of regional lymph nodes (specify)</b>   | Free text                           |   | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> |
| <b>Non-regional lymph nodes (specify)</b>   | Free text                           |   | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> |
| <b>Macroscopic tumour assessment (or indicate if no macroscopically visible tumour)</b> | <b>Tumour location...</b>           | <i>Tumour location is not in COSD pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b></i> | <b><i>pCR1020 - Pathology Report Text</i></b>   | <b><i>pCR1020 - Pathology Report Text</i></b>   |
|   | <b>Maximum tumour diameter...</b>   |   | <b><i>pCR0830 - Lesion Size (Pathological)</i></b>  | <b><i>pCR0830 - Lesion Size (Pathological)</i></b>  |
|   | <b>Number of tumours...</b>         |   | <b><i>pCR0840 - Synchronous Tumour Indicator</i></b>  | <b><i>pCR0840 - Synchronous Tumour Indicator</i></b>  |
|   | Blank                               |   | 9 - Not known   | 9 - Not known   |
|   | 1                                   |   | N - No, no synchronous tumours present  | N - No, no synchronous tumours present  |
|   | >1                                  |   | Y - Yes, synchronous tumours present  | Y - Yes, synchronous tumours present  |

|   |   |  |   |   |
|---|---|--|---|---|
| <b>Macroscopic extent of invasion</b>                                       | <b>Single selection value list:</b>             |  | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> |
|   | Cannot be assessed                              |  |   |   |
|   | Non-invasive tumour                             |  |   |   |
|   | Invasion into bladder wall                      |  |   |   |
|   | Invasion into perivesical tissue                |  |   |   |
|   | Invasion into peritoneal surface                |  |   |   |
|   | Involvement of other adjacent tissues (specify) |  |   |   |
| <b>Resection margins</b>  | <b>Single selection value list:</b>             |  | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> |
|   | Not accessible                                  |  |   |   |
|   | Not involved                                    |  |   |   |
|   | Involved site(s)...                             |  |   |   |
| <b>Tumour type</b>  | <b>Single selection value list:</b>             |  | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> |
|   | Urothelial carcinoma                            |  |   |   |
|   | Squamous cell carcinoma                         |  |   |   |
|   | Adenocarcinoma                                  |  |   |   |
|   | Mullerian type tumour                           |  |   |   |
|   | Small cell neuroendocrine carcinoma             |  |   |   |
|   | Large cell neuroendocrine carcinoma             |  |   |   |
|   | Other (specify) ...                             |  |   |   |
| <b>Urothelial carcinoma subtype/variant (specify percentage if present)</b> | <b>Single selection value list:</b>             |  | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> |
|   | Not identified                                  |  |   |   |
|   | Squamous... %                                   |  |   |   |
|   | Glandular... %                                  |  |   |   |
|   | Micropapillary...%                              |  |   |   |
|   | Nested...%                                      |  |   |   |

|   |                                      |  |  |  |
|---|--------------------------------------|--|--|--|
|   | Plasmacytoid...%                     |  |  |  |
|   | Sarcomatoid...%                      |  |  |  |
|   | Other (specify with percentages)...% |  |  |  |
| <b>Tumour grade</b>                               | <b>Single selection value list:</b>  |  | <b><i>pCR0860 - Grade of Differentiation (PATHOLOGICAL)</i></b>        | <b><i>pCR0860 - Grade of Differentiation (PATHOLOGICAL)</i></b>        |
|   | Not applicable                       |  | GX - Grade of differentiation is not appropriate or cannot be assessed | GX - Grade of differentiation is not appropriate or cannot be assessed |
|   | Cannot be determined                 |  | GX - Grade of differentiation is not appropriate or cannot be assessed | GX - Grade of differentiation is not appropriate or cannot be assessed |
|   |                                      |  |  |  |
|   | Urothelial carcinoma                 |  | Urothelial carcinoma   | Urothelial carcinoma   |
|   | <b>WHO 1973/2004:</b>                |  |  |  |
|   | Grade 1/Low grade = L (Low)          |  | G1 - Well differentiated   | G1 - Well differentiated   |
|   | Grade 2/Low grade = L (Low)          |  | G2 - Moderately differentiated   | G2 - Moderately differentiated   |
|   | Grade 2/High grade = H (High)        |  | G2 - Moderately differentiated   | G2 - Moderately differentiated   |
|   | Grade 3/High grade = H (High)        |  | G3 - Poorly differentiated   | G3 - Poorly differentiated   |
|   |                                      |  |  |  |
|   | <b>WHO 2004:</b>                     |  | <b><i>pUR15290 - Tumour Grade (Urological)</i></b>                     | <b><i>pUR15290 - Tumour Grade (Urological)</i></b>                     |
|   | Low grade                            |  | L - Low  | L - Low  |
|   | High grade                           |  | H - High   | H - High   |
| <b>Squamous cell carcinoma or adeno carcinoma</b> | <b>Single selection value list:</b>  |  | <b><i>pCR0860 - Grade of Differentiation (Pathological)</i></b>        | <b><i>pCR0860 - Grade of Differentiation (Pathological)</i></b>        |
|   | Well differentiated                  |  | G1 - Well differentiated   | G1 - Well differentiated   |
|   | Moderately differentiated            |  | G2 - oderately differentiated  | G2 - oderately differentiated  |
|   | Poorly differentiated                |  | G3 - Poorly differentiated   | G3 - Poorly differentiated   |
| <b>Associated CIS</b>                             | <b>Single selection value list:</b>  |  | Not in the COSD Pathology data set, although could be                  | Not in the COSD Pathology data set, although could be                  |
|   | Yes (adjacent to tumour)             |  |  |  |

|                                      |                                     |  |   |   |
|--------------------------------------|-------------------------------------|--|---|---|
|                                      | Yes (elsewhere)                     |  | recorded within <b><i>pCR1020 - Pathology Report Text</i></b>   | recorded within <b><i>pCR1020 - Pathology Report Text</i></b>   |
|                                      | No                                  |  |   |   |
|                                      | Not assessable                      |  |   |   |
| <b>Lymphovascular invasion</b>       | <b>Single selection value list:</b> |  | <b><i>pCR0870 - Cancer Vascular or Lymphatic Invasion</i></b>   | <b><i>pCR0870 - Cancer Vascular or Lymphatic Invasion</i></b>   |
|                                      | Yes                                 |  | YU - Yes - vascular/lymphatic invasion present  | YU - Yes - vascular/lymphatic invasion present  |
|                                      | No                                  |  | NU - No - vascular/lymphatic invasion not present   | NU - No - vascular/lymphatic invasion not present   |
|                                      | Not assessable                      |  | XX - Cannot be assessed   | XX - Cannot be assessed   |
| <b>Resection margins</b>             | <b>Single selection value list:</b> |  | <b><i>pCR0880 - Excision Margin</i></b>   | <b><i>pCR0880 - Excision Margin</i></b>   |
|                                      | Not assessable                      |  | 98 - Not applicable   | 98 - Not applicable   |
|                                      | Not involved                        |  | 01 - Excision margins are clear (distance from margin not stated)   | 01 - Excision margins are clear (distance from margin not stated)   |
|                                      | Involved Site(s)...                 |  | 05 - Tumour reaches excision margin   | 05 - Tumour reaches excision margin   |
| <b>Regional lymph nodes</b>          | Total number... Number + ve...      |  | <b><i>pCR0890 - Number of Nodes</i></b> = Total number  | <b><i>pCR0890 - Number of Nodes</i></b> = Total number  |
|                                      | Or not applicable...                |  | <b><i>pCR0900 - Number of Nodes Positive</i></b> = Number +ve   | <b><i>pCR0900 - Number of Nodes Positive</i></b> = Number +ve   |
| <b>Extracapsular spread</b>          | <b>Single selection value list:</b> |  | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> |
|                                      | Yes                                 |  |   |   |
|                                      | No                                  |  |   |   |
|                                      | Not applicable                      |  |   |   |
| <b>Common iliac nodal metastasis</b> | <b>Single selection value list:</b> |  | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> | Not in the COSD Pathology data set, although could be recorded within <b><i>pCR1020 - Pathology Report Text</i></b> |
|                                      | Yes                                 |  |   |   |
|                                      | No                                  |  |   |   |
|                                      | Not applicable                      |  |   |   |
| <b>pTNM classification</b>           | pT... pN... pM*                     |  | <b><i>pCR0910 - T Category (Pathological)</i></b> = pT  | <b><i>pCR0910 - T Category (Pathological)</i></b> = pT  |

|                                |           |  |  |  |
|--------------------------------|-----------|--|--|--|
|                                |           | *pM should either be pM1 or entered as not applicable (N/A)                          | <i>pCR0920 - N Category (Pathological)</i> = pN    | <i>pCR0920 - N Category (Pathological)</i> = pN    |
|                                |           |  | <i>pCR0930 - M Category (Pathological)</i> = pM    | <i>pCR0930 - M Category (Pathological)</i> = pM    |
| <b>TNM edition number used</b> | Free text | Within COSD, version number and edition are separate but should be reported together | <i>pCR6820 - TNM VERSION NUMBER (PATHOLOGICAL)</i> | <i>pCR6820 - TNM VERSION NUMBER (PATHOLOGICAL)</i> |
|                                |           |  | <i>pCR6980 - TNM CODING EDITION</i>                | <i>pCR6980 - TNM CODING EDITION</i>                |
| <b>SNOMED codes</b>            | T... M... |  | <i>pCR6410 - Topography (SNOMED) Pathology</i> = T | <i>pCR6410 - Topography (SNOMED) Pathology</i> = T |
|                                |           |  | <i>pCR6420 - Morphology (SNOMED) Pathology</i> = M | <i>pCR6420 - Morphology (SNOMED) Pathology</i> = M |
| <b>Further comments</b>        | Free text |  | <i>pCR1020 - Pathology Report Text</i>             | <i>pCR1020 - Pathology Report Text</i>             |