

COSD mapping for Appendix H: Reporting proforma for nephrectomy specimens 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 | | | <i>CR0050 - Person Family Name</i> | <i>CR0050 - Person Family Name</i> |
| Forenames | | | <i>CR0060 - Person Given Name</i> | <i>CR0060 - Person Given Name</i> |
| Date of birth | | | <i>CR0100 - Person Birth Date</i> | <i>CR0100 - Person Birth Date</i> |
| Sex | | | <i>CR3170 - Person Stated Gender Code</i> | <i>CR3170 - Person Stated Gender Code</i> |
| Hospital | | | <i>pCR0800 - Organisation Identifier (of Reporting Pathologist)</i> | <i>pCR0800 - Organisation Identifier (of Reporting Pathologist)</i> |
| Hospital no | | | <i>CR0020 - Local Patient Identifier</i> | <i>CR0020 - Local Patient Identifier</i> |
| NHS/CHI no | | <i>CHI number not recorded in COSD</i> | <i>CR0010 - NHS Number</i> | <i>CR0010 - NHS Number</i> |
| Date of receipt | | | <i>pCR0770 - Sample Receipt Date</i> | <i>pCR0770 - Sample Receipt Date</i> |
| Date of reporting | | | <i>pCR0780 - Investigation Result Date</i> | <i>pCR0780 - Investigation Result Date</i> |
| Report no | | | <i>pCR0950 - Service Report Identifier</i> | <i>pCR0950 - Service Report Identifier</i> |
| Pathologist | | | <i>pCR7100 - Professional Registration Issuer Code - Consultant (Pathology Test Requested By)</i> | <i>pCR7100 - Professional Registration Issuer Code - Consultant (Pathology Test Requested By)</i> |

| | | | <i>pCR7120 - Professional Registration Entry Identifier - Consultant (Pathology Test Requested By)</i> | <i>pCR7120 - Professional Registration Entry Identifier - Consultant (Pathology Test Requested By)</i> |
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| Surgeon | | | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| Previous treatment (neoadjuvant chemotherapy / radiotherapy) | Single selection value list: Yes No Not known | | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| Specimen laterality | Single selection value list: Right Left Not specified Other | | <i>pCR0820 - Tumour Laterality (Pathological)</i> R - Right L - Left 9 - Not known | <i>pCR0820 - Tumour Laterality (Pathological)</i> R - Right L - Left 9 - Not known |
| Specimen laterality, Other specify | Free text | <i>Only applicable if 'Specimen laterality, Other' is selected.</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| Operative procedure | Single selection value list: Radical nephrectomy Simple nephrectomy Partial nephrectomy Not specified Other | | <i>pCR0760 - Pathology Investigation Type (All values)</i> RE (Radical Excision) EX (Excision) PE (Partial excision) 99 (Uncertain/other) | <i>pCR0760 - Pathology Investigation Type (All values)</i> RE (Radical Excision) EX (Excision) PE (Partial excision) 99 (Uncertain/other) |

| | | | <i>pCR0970 – Specimen Nature (All values)</i> | <i>pCR0970 – Specimen Nature (All values)</i> |
|---|-------------------------------------|---|--|--|
| | | | 1 (Primary tumour) | 1 (Primary tumour) |
| Adrenal gland | Single selection value list: | | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| | Absent | | | |
| | Present | | | |
| Lymph nodes | Single selection value list: | | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| | Absent | | | |
| | Present | | | |
| Lymph nodes, details | Free text | <i>Only applicable if 'Lymph nodes, Present' is selected.</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| IVC thrombus | Single selection value list: | | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| | Absent | | | |
| | Present | | | |
| Other structures included | Free text | | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| Tumour focality | Single selection value list: | | <i>pCR0840 - Synchronous Tumour Indicator</i> | <i>pCR0840 - Synchronous Tumour Indicator</i> |
| | Unifocal | | N - No, no synchronous tumours present | N - No, no synchronous tumours present |
| | Multifocal | | Y - Yes, synchronous tumours present | Y - Yes, synchronous tumours present |
| | Cannot be assessed | | 9 - Not known | 9 - Not known |
| Tumour focality, Multifocal, Specify number of tumours | Integer | <i>Only applicable if 'Tumour focality, Multifocal' is selected</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |

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| Maximum tumour dimension 1 | Integer | | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| Maximum tumour dimension 2 | Integer | <i>Only applicable if 'Tumour focality, Multifocal, Specify number of tumours' is >1</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| Maximum tumour dimension 3 | Integer | <i>Only applicable if 'Tumour focality, Multifocal, Specify number of tumours' is >2</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| Maximum tumour dimension 4 | Integer | <i>Only applicable if 'Tumour focality, Multifocal, Specify number of tumours' is >3</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| Maximum tumour dimension 5 | Integer | <i>Only applicable if 'Tumour focality, Multifocal, Specify number of tumours' is >4</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| Tumour present (grossly) in major veins | Single selection value list: Present Not identified Uncertain Cannot be assessed | | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| Tumour present (grossly) in major veins, Present | Single selection value list: Renal vein Renal vein and IVC | <i>Only applicable if 'Tumour present (grossly) in major veins, Present' is selected.</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| Histological tumour type | Single selection value list: Clear cell renal cell carcinoma | | Not in the COSD Pathology data set, although could be | Not in the COSD Pathology data set, although could be |

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| | Multilocular cystic renal cell neoplasm of low malignant potential | recorded within <i>pCR1020 - Pathology Report Text</i> | recorded within <i>pCR1020 - Pathology Report Text</i> |
| | Papillary renal cell carcinoma, type 1 | | |
| | Papillary renal cell carcinoma, type 2 | | |
| | Papillary renal cell carcinoma, oncocytic | | |
| | Papillary renal cell carcinoma, NOS | | |
| | Hereditary leiomyomatosis renal cell carcinoma-associated renal cell carcinoma | | |
| | Chromophobe renal cell carcinoma | | |
| | Hybrid oncocytic chromophobe tumour | | |
| | Collecting duct carcinoma | | |
| | Renal medullary carcinoma | | |
| | MiT family associated translocation renal cell carcinomas, Xp11 | | |
| | MiT family associated translocation renal cell carcinomas, t(6;11) | | |
| | MiT family associated translocation renal cell carcinomas, Other | | |
| | Succinate dehydrogenase (SDH)-deficient renal cell carcinoma | | |

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| | Mucinous tubular and spindle cell carcinoma | | | |
| | Tubulocystic renal cell carcinoma | | | |
| | Acquired cystic disease-associated renal cell carcinoma | | | |
| | Clear cell papillary renal cell carcinoma | | | |
| | Renal cell carcinoma, unclassified | | | |
| | Other | | | |
| Histological tumour type, MiT family associated translocation renal cell carcinomas, Other, specify | Free text | <i>Only applicable if 'Histological tumour type, MiT family associated translocation renal cell carcinomas, Other' is selected.</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| Histological tumour type, other specify | Free text | Only applicable if 'Histological tumour type, Other' is selected. | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| WHO/ISUP tumour grade | Single selection value list: | | <i>pCR0860 - Grade of Differentiation (Pathological)</i> | <i>pCR0860 - Grade of Differentiation (Pathological)</i> |
| | Not applicable | | | |
| | GX | | GX - Grade of differentiation is not appropriate or cannot be assessed | GX - Grade of differentiation is not appropriate or cannot be assessed |
| | G1 | | G1 - Well differentiated | G1 - Well differentiated |
| | G2 | | G2 - Moderately differentiated | G2 - Moderately differentiated |
| | G3 | | G3 - Poorly differentiated | G3 - Poorly differentiated |
| | G4 | | G4 - Undifferentiated / anaplastic | G4 - Undifferentiated / anaplastic |

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| Sarcomatoid morphology | Single selection value list: | | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| | Present | | | |
| | Not identified | | | |
| Rhabdoid morphology | Single selection value list: | | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| | Present | | | |
| | Not identified | | | |
| Tumour necrosis | Multiple selection value list: | | <i>pUR15130 - Tumour Necrosis Indicator</i> | <i>pUR15130 - Tumour Necrosis Indicator</i> |
| | Macroscopic (confluent) | | 1 - Macroscopic (confluent) | 1 - Macroscopic (confluent) |
| | Microscopic (coagulative) | | 2 - Microscopic (coagulative) | 2 - Microscopic (coagulative) |
| | Not identified | | 3 - Not identified | 3 - Not identified |
| | Cannot be assessed | | 8 - Cannot be assessed (e.g. post embolisation) | 8 - Cannot be assessed (e.g. post embolisation) |
| Perinephric fat invasion | Single selection value list: | | <i>pUR15140 - Perinephric Fat Invasion</i> | <i>pUR15140 - Perinephric Fat Invasion</i> |
| | Present | | Y - Yes (Present) | Y - Yes (Present) |
| | Not identified | | N - No (Not Identified) | N - No (Not Identified) |
| | Cannot be assessed/not applicable | | 9 - Cannot be assessed/Not applicable | 9 - Cannot be assessed/Not applicable |
| Invasion beyond Gerota's fascia | Single selection value list: | | <i>pUR15170 - Gerota's Fascia Invasion</i> | <i>pUR15170 - Gerota's Fascia Invasion</i> |
| | Present | | Y - Yes (Present) | Y - Yes (Present) |
| | Not identified | | N - No (Not Identified) | N - No (Not Identified) |
| | Cannot be assessed/not applicable | | 9 - Cannot be assessed/Not applicable | 9 - Cannot be assessed/Not applicable |
| Renal sinus invasion | Single selection value list: | <i>Recorded only for CTYA - Renal Pathology (Paediatric Kidney) in COSD</i> | <i>pCT6640 - Renal Sinus Invasion</i> | <i>pCT6640 - Renal Sinus Invasion</i> |
| | Present in fat | | Y - Yes | Y - Yes |
| | Present in vascular spaces | | Y - Yes | Y - Yes |
| | Present in fat and vascular spaces | | Y - Yes | Y - Yes |

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| | Not identified | N - No | N - No |
| | Cannot be assessed/Not applicable | | |
| Tumour present in major veins microscopically | Single selection value list: | <i>pUR15160 - Renal Vein Tumour</i> | <i>pUR15160 - Renal Vein Tumour</i> |
| | Gross involvement confirmed microscopically | | 2 - Gross involvement confirmed microscopically |
| | Microscopic involvement only | | 1 - Microscopic involvement only |
| | Not identified | | 3 - Not identified |
| | Cannot be assessed/Not applicable | | 8 - Cannot be assessed/Not applicable |
| Lymphovascular space invasion | Single selection value list: | <i>pCR0870 - Cancer Vascular or Lymphatic Invasion</i> | <i>pCR0870 - Cancer Vascular or Lymphatic Invasion</i> |
| | Present | | YU - Yes - vascular/lymphatic invasion present |
| | Not identified | | NU - No - vascular/lymphatic invasion not present |
| Tumour in the pericalyceal system | Single selection value list: | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| | Present | | |
| | Not identified | | |
| | Cannot be assessed/Not applicable | | |
| Tumour in adrenal gland | Single selection value list: | <i>pUR15150 - Adrenal Invasion</i> | <i>pUR15150 - Adrenal Invasion</i> |
| | Present, direct extension | | 1 - Present, direct extension |
| | Present, metastasis | | 2 - Present, metastasis |
| | Not identified | | 3 - Not identified |
| | Cannot be assessed/not applicable | | 8 - Cannot be assessed/Not applicable |
| Tumour extending into other organ/structures | Single selection value list: | Not in the COSD Pathology data set, although could be | Not in the COSD Pathology data set, although could be |
| | Tumour present | | |
| | Not identified | | |

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| | Cannot be assessed | | recorded within <i>pCR1020 - Pathology Report Text</i> | recorded within <i>pCR1020 - Pathology Report Text</i> |
| Tumour extending into other organ/structures, specify | Free text | <i>Only applicable if 'Tumour extending into other organ/structures, Tumour present' is selected.</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| Regional lymph node status | Single selection value list: | | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| | Applicable | | | |
| | Not applicable | | | |
| Total number of lymph nodes examined | Integer | | <i>pCR0890 - Number of Nodes Examined</i> | <i>pCR0890 - Number of Nodes Examined</i> |
| Number of positive lymph nodes | Integer | | <i>pCR0900 - Number of Nodes Positive</i> | <i>pCR0900 - Number of Nodes Positive</i> |
| Number of lymph nodes cannot be determined | Single selection value list: | <i>False if number of positive nodes >0.</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| | True | | | |
| | False | | | |
| Size of largest focus | Size in mm | | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| Extranodal extension | Single selection value list: | | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> | Not in the COSD Pathology data set, although could be recorded within <i>pCR1020 - Pathology Report Text</i> |
| | Present | | | |
| | Not identified | | | |
| | Cannot be assessed | | | |
| Resection margin status | Single selection value list: | | <i>pCR0880 - Excision Margin</i> | <i>pCR0880 - Excision Margin</i> |
| | Involved | | 05 - Tumour reaches excision margin | 05 - Tumour reaches excision margin |
| | Not involved | | 01 - Excision margins are clear (distance from margin not stated) | 01 - Excision margins are clear (distance from margin not stated) |

| | | | | |
|---|-------------------------------------|--|--|--|
| | Cannot be assessed | | | |
| Resection margin status, involved site | Single selection value list: | <i>Only applicable if 'Resection margin status, Involved' is selected.</i> | Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text | Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text |
| | Renal vein | | | |
| | IVC | | | |
| | Other | | | |
| Resection margin status, Involved site, Other | Free text | <i>Only applicable if 'Resection margin status, Involved site, Other' is selected.</i> | Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text | Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text |
| Resection margin status, Renal vein or IVC margin vein wall invasion | Single selection value list: | <i>Only applicable if 'Resection margin status, Involved site, Other' is selected.</i> | Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text | Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text |
| | Yes | | | |
| | No | | | |
| Co-existing pathology in non-neoplastic kidney | Single selection value list: | | Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text | Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text |
| | Insufficient tissue for evaluation | | | |
| | No background pathology identified | | | |
| | Present | | | |
| Co-existing pathology in non-neoplastic kidney, specify | Free text | <i>Only applicable if 'Co-existing pathology in non-neoplastic kidney, Present' is selected.</i> | Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text | Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text |
| Metastatic spread | Single selection value list: | | Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text | Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text |
| | Present | | | |
| | Not identified | | | |
| | Not applicable | | | |
| Metastatic spread, specify | Free text | <i>Only applicable if 'Metastatic spread, Present' is selected.</i> | Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text | Not in the COSD Pathology data set, although could be recorded within pCR1020 - Pathology Report Text |

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| TNM edition number used | UICC8, UICC9 | <i>Within COSD, version number and edition are separate but should be reported together</i> | <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> |
| pT Category | Single selection value list: | | <i>pCR0910 - T Category (Pathological) = pT</i> | <i>pCR0910 - T Category (Pathological) = pT</i> |
| | pTX, pT0, pT1a, pT1b, pT2a, pT2b, pT3a, pT3b, pT3c, pT4 | | | |
| | ypTX, ypT0, ypT1a, ypT1b, ypT2a, ypT2b, ypT3a, ypT3b, ypT3c, ypT4 | | | |
| pN Category | Single selection value list: | | <i>pCR0920 - N Category (Pathological) = pN</i> | <i>pCR0920 - N Category (Pathological) = pN</i> |
| | pNX, pN0, pN1 | | | |
| | ypNX, ypN0, ypN1 | | | |
| pM Category | Single selection value list: | <i>If not applicable needed then use <i>pCR1020 - Pathology Report Text</i></i> | <i>pCR0930 - N Category (Pathological) = pM</i> | <i>pCR0930 - N Category (Pathological) = pM</i> |
| | pM1 | | | |
| | ypM1 | | | |
| | Not applicable | | | |
| SNOMED topography code | T... | <i>May have multiple codes. Look up from SNOMED tables.</i> | <i>pCR6410 - Topography (SNOMED) Pathology = T</i> | <i>pCR6410 - Topography (SNOMED) Pathology = T</i> |
| SNOMED morphology code | M... | <i>May have multiple codes. Look up from SNOMED tables.</i> | <i>pCR6420 - Morphology (SNOMED) Pathology = M</i> | <i>pCR6420 - Morphology (SNOMED) Pathology = M</i> |
| Further comments | Free text | | <i>pCR1020 - Pathology Report Text</i> | <i>pCR1020 - Pathology Report Text</i> |