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| Cancer Care Ontario |
| Specialized Services Oversight (SSO) Data Dictionary |
| **Neuroendocrine** |
| **7/21/2020** |

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# Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Description | TFS# | Owner |
| October 27, 2015 | * radio\_nuclide\_therapy\_date: updated name to match template * Updated Health\_Card\_Number validation to reference no 0's, no 1's * Updated Health\_Card\_Number validation to reference numbers less than 10 digits | -  234973  235429 | Michele Cross |
| July 11, 2016 | Added Business Keys | - | Michele Cross |
| Feb 16, 2017 | Added appendix 7 for Clinical trial numbers  Added Facility\_Managing\_Patient and appendix 8 | 702488  710716 | Carey Chan |
| Mar.06, 2017 | Renamed appendix  Added appendix 1 for validation rules  Updated clinical\_trial\_enrolment\_flag to mandatory (703399) | n/a | Carey Chan |
| October 13, 2017 | Added new dose unit – mCi under Appendix 6 Pharmaceutical dose unit | 750700 | Raj Sreenivasan |
| October 31, 2017 | Revised the definition for data element 8 and 9 to indicate purpose of data element is for treatment and not scanning. | N/A | Cassandra McKay |
| October 31,2017 | Removed the new dose unit – mCI from appendix 6.This new dose unit will be added in DD and template only after we make the dsp changes to incorporate mCi as a new dose unit. | N/A | Raj Sreenivasan |
| August 10, 2018 | Added validation details( #1) in appendix -1 for new Clinical trial number Gallium-68 | [782625](https://tfs.cancercare.on.ca/tfs/CCO%20Applications/Data%20Submission%20Portal/_workitems/edit/782625) | Raj Sreenivasan |
| September 4, 2018 | Added validation rule (#2) for clinical trial number Gallium -68 in appendix -1 | [782625](https://tfs.cancercare.on.ca/tfs/CCO%20Applications/Data%20Submission%20Portal/_workitems/edit/782625) | Raj Sreenivasan |
| November 7, 2018 | Changed the clinical trial # from Gallium-68 to “PET NET” | [782625](https://tfs.cancercare.on.ca/tfs/CCO%20Applications/Data%20Submission%20Portal/_workitems/edit/782625) | Raj Sreenivasan |
| July 21, 2020 | Added new dose unit, mCi to Appendix 6 | 845733 | Anthony Adesanya |

# Neuroendocrine: Data Elements

| **No.** | **Entity** | **Data Element** | **Column Name** | **Definition** | **Format** | **Valid Values** | **Applies to** | **Purpose and Use** | **Mandatory** | **Business key (Uniqueness)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | Neuroendocrine | Health Card Number | Health\_card\_number | Patient’s Ontario health card number | CHAR(10) | Valid values: valid HCN  Not valid: 0-unknown, 1-out of country (OOC), or number less than 10 digits | All | Unique patient identifier. Can be used to link data with other CCO data assets. | Yes | Yes |
| 2 | Neuroendocrine | Patient’s Chart Number | Patient\_chart\_number | Facility's internal unique patient identifier | CHAR(12) | Must be alpha numeric (i.e. no special characters, only numbers and characters | All | For investigations: chart number will be provided in log file for the records with errors. This will allow facilities to link data in log file with their data sets. | Yes | Yes |
| 3 | Neuroendocrine | Date of Birth | Date\_of\_birth | Patient’s birth date | CHAR(8) | Valid date | All | To calculate patient age (e.g., to ensure patient is over 18 years of age at time of procedure/treatment for funding). | Yes | Yes |
| 4 | Neuroendocrine | Postal Code | Postal\_code | Patient’s residential postal code | CHAR(10) | 1. Must match any of these format masks: ANANAN, NNNNN, NNNNN-NNNN, AA  2. If matches mask ANANAN, then can’t begin with D,F,I,O,Q,U, or W  3. If matches mask of AA, then should match any entry in **Appendix-3** (Province and State Codes). | All | To identify where a patient lives. | Yes | Yes |
| 5 | Neuroendocrine | Facility Number | Facility\_number | Submitting facility number | CHAR(3) | Valid facility number listed in **Appendix-2** | All | To determine which facility performed procedure/treatment. | Yes | Yes |
| 6 | Neuroendocrine | Nuclear Medicine Scan Date | Nuclear\_medicine\_scan\_date | Date when nuclear medicine scan was performed | CHAR(8) | Valid date | All | For volumes, planning and capacity management | No | Yes |
| 7 | Neuroendocrine | Nuclear Medicine Scan Type | Nuclear\_medicine\_scan\_type | Type of the nuclear medicine scan | CHAR (25) | Valid values are:   |  | | --- | | * I-131 MIBG Isotope * Gallium 68 PET scan | | * In-111 Octreoscan * Lutetium-177 Isotope | |  | | All | For volumes, planning and capacity management | No | Yes |
| 8 | Neuroendocrine | Radioisotope | Radio\_isotope | Type of the Pharmaceutical drug used for treatment | CHAR(25) | |  | | --- | | Valid values are:   * I-131 MIBG * In-111 Octreoscan * Lutetium-177 | |  | | All | For Volumes, planning and capacity management | No | Yes |
| 9 | Neuroendocrine | Pharmaceutical Dose | pharmaceutical\_dose | Dose of the Pharmaceutical drug used for treatment | CHAR(5) | Open text | All | For Volumes, planning and capacity management | No | Yes |
| 10 | Neuroendocrine | Dose Unit | Dose\_unit | Used pharmaceutical drug dose unit | CHAR(3) | Valid values listed in **Appendix-6** | All | For Volumes, planning and capacity management | No | Yes |
| 11 | Neuroendocrine | Morphology | Morphology | Tumor morphology ICD03 codes | CHAR(5) | Valid values listed in **Appendix-4** | All | For Volumes, planning and capacity management | No | Yes |
| 12 | Neuroendocrine | Topography | Topography | Tumor topography with laterality ICD03 code | CHAR(6) | Valid values listed in appendix **Appendix-5** | All | For Volumes, planning and capacity management | No | Yes |
| 13 | Neuroendocrine | Radionuclide Therapy Date | radio\_nuclide\_therapy\_date | Date when radionuclide therapy is performed | CHAR(8) | Must be within submitting quarter and year | All | For Volumes, planning and capacity | No | Yes |
| 14 | Neuroendocrine | Clinical Trial Enrolment Flag | Clinical\_trial\_enrolment\_flag | Clinical trial enrolment flag | CHAR(8) | Valid values “Y” or “N” | All | For Volumes, planning and capacity | Yes | Yes |
| 15 | Neuroendocrine | Clinical trial number | Clinical\_trial\_number | Clinical trial registration number or Health Canada control number | CHAR(14) | Valid clinical trial number listed in **Appendix-7**  Required if Clinical Trial Enrolment Flag=”Y” | All | For Volumes, planning and capacity | No |  |
| 16 | Neuroendocrine | Facility Managing Patient | Facility\_Managing\_Patient | To indicate the facility managing the patient (including treatment and/or follow-up care) for the Ontario NETs Clinical Trial, following the performance of Ga-68 scanning. When a Ga-68 scan is entered for the Ontario NETs Clinical Trial it will be expected that the ‘Facility Managing Patient’ data element will be completed. Completion of this data element will ensure that the site following the patient receives the Gallium-68 administrative stipend. | CHAR (3) | Valid values listed in **Appendix-8** | All | For Funding | No | Yes |
| 17 | Neuroendocrine | MCC Date | MCC\_Date | Date of Multidisciplinary Conference | CHAR(8) YYYYMMDD | Valid date. | All | For Volumes, planning and capacity | No | Yes |

# Appendix 1: Validations since March.2017

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Error Number** | **Error Message** | **Reject Record** | **Description** | **Remediation** |
| 382 | If the Clinical Trial Enrolment Flag is Yes, a Clinical Trial Number must be provided. | Y | If (Clinical\_trial\_enrolment\_flag is yes and the Clinical\_trial\_number field is missing), reject the record and issue the error message | Provide a clinical trial number |
| 498 | Warning: scans are only reimbursed for Clinical Trial patients. | N | If Facility\_Managing\_Patient is null and Clinical\_Trial\_Enrollment\_Flag is No and Nuclear\_Medicine\_Scan\_Date is not null, accept the record and issue the warning message. | Scans are only reimbursed for Clinical Trial patients |
| 501 | Error: Apparent duplicate records | Y | If record is for a scan (NUCLR\_MED\_SCAN\_DATE is not null), reject submission with error if there are records where the following fields are the same: HEALTH\_CARD\_NUMBER, SUBMISSION\_ORG\_KEY, NUCLR\_MED\_SCAN\_DATE, NUCLR\_MED\_SCAN\_TYPE\_KEY | Remove duplicate records |
| 501 | Error: Apparent duplicate records | Y | If record is for a treatment (RADIONUCLID\_THERAPY\_DATE is not null), reject submission with error if there are records where the following fields are the same: HEALTH\_CARD\_NUMBER, SUBMISSION\_ORG\_KEY, RADIONUCLIDE\_THERAPY\_DATE, RADIO\_ISOTOPE | Remove duplicate records |
| 501 | Error: Apparent duplicate records | Y | If record is for both a scan and treatment, reject submission with if there are records where the following fields are the same: HEALTH\_CARD\_NUMBER, SUBMISSION\_ORG\_KEY, NUCLR\_MED\_SCAN\_DATE, NUCLR\_MED\_SCAN\_TYPE\_KEY OR HEALTH\_CARD\_NUMBER, SUBMISSION\_ORG\_KEY, RADIONUCLIDE\_THERAPY\_DATE, RADIO\_ISOTOPE | Remove duplicate records |
| 629 | Facility Managing Patient is incorrect. Please refer to the Facility Number List | Y | If Facility\_Managing\_Patient is not null and Facility\_Managing\_Patient is not in the pre-defined list of values, reject the record and issue error message | Select a valid facility\_managing\_patinet |
| 632 | "When radio isotope is entered, pharmaceutical dose is mandatory" | Y | If radio\_isotope is not null and pharmaceutical\_dose is null, reject record and display error msg. | Put in a pharmaceutical dose |
| 633 | "When radio nuclide therapy date is entered, radio isotope is mandatory" | Y | If radio\_nuclide\_therapy\_date is not null and radio\_isotope is null, reject record and display error msg. | Put in a radio\_isotope |
| 634 | "When radio isotope is entered, dose unit is mandatory" | Y | If radio\_isotope is not null and dose\_unit is null, reject record and display error msg. | Put in a dose unit |
| 635 | "When radio isotope is entered, radio nuclide therapy date is mandatory" | Y | If radio\_isotope is not null and radio\_nuclide\_therapy\_date is null, reject record and display error msg. | Put in a radio\_nuclide\_therapy\_date |
| 636 | Facility\_Managing\_Patient must have a value if Clinical trial number is NCT02743741 and nuclear medicine scan date is entered | Y | If (Nuclear Medicine Scan Date is provided and Clinical Trial Number is NCT02743741 and Facility Managing Patient is missing), reject the record and issue the error message. | Select facility\_managing\_patient |
| 640 | Nuclear\_medicine\_scan\_type and Nuclear\_medicine\_scan\_date must have a value if Clinical trial number is “PET NET” | Y | If clinical trial number is “PET NET” and nuclear\_medicine\_scan\_type and/or nuclear\_medicine\_scan\_date are missing, reject the record and issue the error message | Put in a  nuclear\_medicine\_scan\_type and nuclear\_medicine\_scan\_date |
| 641 | “Nuclear\_medicine\_scan\_type must be 'Gallium 68 PET scan' , if clinical trial number is 'PET NET' | Y | If Clinical\_trial\_number = ‘PET NET”’ and nuclear\_medicine\_scan\_type is not 'Gallium 68 PET scan', reject the record and issue the error message “Nuclear\_medicine\_scan\_type must be 'Gallium 68 PET scan' , if clinical trial number is 'PET NET' | Enter ‘Nuclear\_medicine\_scan\_type’ as 'Gallium 68 PET scan' |
| 637 | If a clinical trial number is provided, the Clinical Trial Enrolment Flag must be Yes. | Y | If (Clinical\_Trial\_Number is a valid clinical trial value and the Clinical Trial Enrolment flag is No), reject the record and issue the error message. | Change clinical trial enrolment to yes OR remove clinical\_trial\_number |
| 638 | Invalid clinical trial number - consult lookup table in template | Y | If an entry outside of the allowed trial numbers is made, display error message | Select a valid clinical trial number |
| 639 | The field Clinical\_trial\_enrolment\_flag is mandatory | Y | The field Clinical\_trial\_enrolment\_flag is mandatory (always). | Fill in the clinical\_trial\_enrolment\_flag column |
| 670 | Pharmaceutical dose must be a positive number | Y | IF RADIOISOTOPE\_DOSE is not null AND RADIOISOTOPE\_DOSE < or = 0  THEN RAISE New Error 670 | Input a positive pharmaceutical dose |

# Appendix 2: Facility Numbers[[1]](#footnote-1)

| **#** | **Program Title** | **Submitting Hospital** | **Facility Number** |
| --- | --- | --- | --- |
| 4 | Neuroendocrine | London Health Sciences | 936 |
| Hamilton Health Sciences Corporation | 942 |
| University Health Network | 947 |
| Sunnybrook Health Sciences Centre | 953 |

# Appendix 3: Valid 2-digits Postal Codes[[2]](#footnote-2)

(Source: Cancer Care Ontario's Data Book - 2012-2013, Appendix B - Province and State codes, at link https://www.cancercare.on.ca/ext/databook/db1213/databook.htm).

The table below provides list of valid 2 digit postal codes for province and State codes.



# Appendix 4: Morphology Codes[[3]](#footnote-3)

This is a complete listing of valid Morphology codes effective April 2018.

 Citation for new classification:

WHO Classification of Tumors of Hematopoietic and Lymphoid Tissues, 4th ed., edited by S. H. Swerdlow, et al., International Agency for Research on Cancer, Lyon, 2008. ISBN 978-92-832-2431-0

(For details, please refer Cancer Care Ontario's Data Book - 2018-2019, Appendix 1.36 - Morphology Codes, at link <https://www.cancercareontario.ca/en/data-book-reporting-standards>)

# Appendix 5: ICDO-3 Topography with Laterality[[4]](#footnote-4)

# This is a table of topography codes where laterality is applied as stipulated in the FORDS manual.

(For details, please refer Cancer Care Ontario's Data Book - 2018-2019, Appendix 1.3 ICDO-3 TOPOGRAPHY with Laterality, at link <https://www.cancercareontario.ca/en/data-book-reporting-standards>)

# Appendix 6: Pharmaceutical dose unit[[5]](#footnote-5)

This table provides info for Radio pharmaceutical dose unit

| **Unit Code** | **Description** |
| --- | --- |
| cap | capsule |
| MBq | megabecquerels |
| mcg | microgram |
| mEq | milliequivalent |
| MU | million units |
| tab | tablet |
| unit | unit |
| mg | milligram |
| mL | milliliter |
| drop | drop |
| pfu | plaque forming unit |
| cm | centimeter |
| g | gram |
| loz | lozenge |
| mmol | millimoles |
| part | particle |
| ptch | patch |
| pkt | packet |
| pop | popsicle |
| puff | puff |
| supp | suppository |
| mCi | millicurie |

# Appendix 7: Clinical Trial Numbers

|  |
| --- |
| 172567 |
| NCT02743741 |
| PET NET |

# Appendix 8: Facility Managing Patient

|  |  |
| --- | --- |
| **Facility Number** | **Facility Name** |
| 936 | London Health Sciences |
| 942 | Hamilton Health Sciences Corporation |
| 947 | University Health Network |
| 953 | Sunnybrook Health Sciences Centre |

1. Corresponds to appendix 3 on ALR [↑](#footnote-ref-1)
2. Corresponds to appendix 11 on ALR [↑](#footnote-ref-2)
3. Corresponds to appendix 20 on ALR [↑](#footnote-ref-3)
4. Corresponds to appendix 21 on ALR [↑](#footnote-ref-4)
5. Corresponds to appendix 22 on ALR [↑](#footnote-ref-5)