Cancer Care Ontario

Specialized Services Oversight (SSO) Program

Kyphoplasty and Vertebroplasty Data Dictionary

20-August-2020

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# Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Description | TFS# | Owner |
| May 5, 2019 | Updated Quality Assurance Checks sectionAdded 980 – Unity Health Toronto to Facility table | 750239 | Anthony Adesanya |
| May 30, 2019 | Modified Error 501 message to be consistent with other SSO programs | 750239 | Anthony Adesanya |

# Kyphoplasty and Vertebroplasty Procedures Data Elements

| **#** | **Entity** | **Data Element** | **Column\_Name** | **Definition (Description)** | **Format** | **Valid values (Notes)** | **Applies to** | **Purpose and Use** | **Mandatory** | **Business key (Uniqueness)** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 01 | KV | Health Card Number | Health\_Card\_Number | Patient's Ontario Health Card Number. | CHAR(10) | Must be a valid ten-digit HCN | All | To link data with other CCO data holding areas. | Yes | Yes |
| 02 | KV | Patient Chart Number | Patient\_Chart\_Number | Facility’s internal unique patient identifier. | CHAR (12) | Must be alpha-numeric (i.e. no punctuation, must have numbers and characters).Cell must be in ‘Text’ Category in Format Cells option in Excel. | All | For reimbursement: to uniquely identify procedure for a patient;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 |  |
| 03 | KV | Date of Birth | Date\_Of\_Birth | Patient birth date | CHAR (8) YYYYMMDD | Valid dateMust be later than01-01-1900**Patient’s Age Calculation:**Age (years) = Date of Procedure – Date of Birth | All | To link data with other CCO data holding areas. | Yes |  |
| 04 | KV | Postal Code | Postal\_Code | Patient’s residential postal code available to the facility at the time of procedure. | CHAR(10) | 1. Must match any of these format masks: ANANAN, NNNNN, NNNNN-NNNN, AA2. If matches mask ANANAN, cannot begin with D,F,I,O,Q,U, or W3. If matches mask AA, should match an entry in Appendix-3 (Province and State Codes). | All | Geographical distribution reporting. | Yes |  |
| 05 | KV | Facility Number | Facility\_Number | Submitting facility number | CHAR(3) | Valid facility number MOHLTC classification listed in Appendix-3 | All | Funding, planning and reporting | Yes | Yes |
| 06 | KV | Type of Procedure | Type\_of\_Procedure | Type of vertebral augmentation procedure used. This includes procedures that are performed in Interventional Radiology Suites by interventional radiologists or interventional neuroradiologists, and in the Operating Room by neurosurgeons or orthopaedic surgeons. | CHAR(50) | Select from drop down:* Vertebroplasty
* Kyphoplasty
* FTA-assisted Vertebroplasty
* FTA-assisted Kyphoplasty
 | All | Funding, planning and performance management | Yes | Yes |
| 07 | KV | Eligibility for Kyphoplasty | Eligibility\_for\_Kyphoplasty | Select the indication for why kyphoplasty was performed. ‘Fracture with gas filled cleft,’ is gas in the fractured vertebral body on MR or CT which is an indication of a non-healing fracture. It may have originated from the disc space but would not be in the bone unless there is a fracture. | CHAR(80) | If provided, must be one of the options in the drop down:* Acute fracture treated within 6 weeks
* Fracture with gas filled cleft (un-united fracture)
* Fracture with soft tissue tumour and absent cortex
* Reason not indicated in recommendations report[[1]](#footnote-2)
 | Procedure Type = ‘Kyphoplasty’ and ‘FTA-assisted Kyphoplasty’ only | Quality assurance and funding | Yes if Procedure Type = ‘Kyphoplasty’ and ‘FTA-assisted Kyphoplasty’ only |  |
| 08 | KV | Confirmed Cancer Case | Confirmed\_Cancer\_Case | Was this vertebral augmentation procedure performed on a patient diagnosed with malignant disease (not benign)? Please see the list of ‘Significant Malignant Potential Diagnosis Codes’ below that would be included as ‘Yes’ for this data element. | CHAR(3) | If provided, must be one of the options in the drop down:* Yes
* No
 | All | Quality assurance and funding | Yes |  |
| 09 | KV | Procedure Date | Date\_of\_Procedure | Date of procedure | CHAR(8) YYYYMMDD | Valid DateMust be on or after date of consultation and must be in current reporting period | All | Funding | Yes | Yes |
| 10 | KV | Date of Receipt of Referral | Date\_of\_Receipt\_of\_Referral | Date on which a request for consultation with a specialist is received in the specialist office for this service/procedure. If the specialist does not accept the referral at this time (e.g., referral form incomplete, workup not complete), this date does not change. | CHAR(8) YYYYMMDD | Valid dateMust be later than01-01-1900 and on or before date of procedure. | All | Performance metrics - wait times | Yes |  |
| 11 | KV | Consultation Date | Date\_of\_Consultation | First date on which a patient sees the specialist for consultation regarding this specific service/procedure | CHAR(8) YYYYMMDD | Valid dateMust be on or after date of receipt of referral. | All | Performance metrics - wait times | Yes |  |
| 12 | KV | Multidisciplinary Consultation | Multidisciplinary\_Consultation | Did this case have a documented multidisciplinary consultation or was discussed or reported back to a multidisciplinary cancer conference (MCC)? | CHAR(3) | If provided, must be one of the options in the drop down:* Yes
* No
 | All | Funding and quality assurance | Yes |  |
| 13 | KV | Number of vertebra levels treated in procedure | Vertebra\_levels\_treated | Select the number of vertebra levels that are treated in procedure | CHAR(50) | If provided, must be one of the options in the drop down:* 1
* 2
* 3
* 4
* 5
* 6
* 7

8 or more | All | Planning, potentially for funding by levels rather than by procedure | Yes |  |
| 14 | KV | Dates Affecting Readiness to Treat From Date – 1st instance | DART\_From\_Date\_1 | The beginning date (YYYYMMDD) of the first period of time when the patient is unavailable for the procedure due to patient-related reasons. | CHAR(8) YYYYMMDD | Valid dateMust be on or after date of date of consultation and before date of procedure | Only procedures where there were DARTs. Up to 3 DARTs are allowed per procedure. | Performance metrics - wait times | No |  |
| 15 | KV | Dates Affecting Readiness to Treat To Date – 1st instance | DART\_To\_Date\_1 | The end date (YYYYMMDD) of the first period of time when the patient is unavailable for the procedure due to patient-related reasons. | CHAR(8) YYYYMMDD | Valid dateMust be on or after date of date of consultation and before date of procedure, and after DART From Date | Only procedures where there were DARTs. Up to 3 DARTs are allowed per procedure. | Performance metrics - wait times | Yes if DART\_From\_Date\_1 is not null |  |
| 16 | KV | Dates Affecting Readiness to Treat Reason for 1st instance | DART\_Reason\_1 | The reason the patient is unavailable for the procedure for the first DART. | CHAR(80) | If provided, must be one of the options in the drop down:* Inability to Contact the Patient
* Change in Medical Status
* Missed Procedure/No Show
* Pre-Procedure Instructions Not Followed
* Patient treatment related timed event, please specify
* Patient Chooses to Defer
 | Rows where DART\_From\_Date\_1 and DART\_To\_Date\_1 are entered | Performance metrics - wait times | Yes if DART\_From\_Date\_1 and DART\_To\_Date\_1 are entered |  |
| 17 | KV | DART Timed Event Reason for 1st instance | DART\_Timed\_Event\_1 | If ‘Patient treatment related timed event, please specify’ is selected for DART\_Reason\_1, the reason for the timed event should be indicated. | CHAR(80) | If provided, must be one of the options in drop down menu:* Neo-adjuvant chemotherapy
* Neo-adjuvant radiation therapy
* Tumour Ablation

Other, please specify | Rows where DART\_Reason\_1 = ‘Patient treatment related timed event’ | Performance metrics - wait times | Yes, if DART\_Reason\_1 = ‘Patient treatment related timed event’ |  |
| 18 | KV | DART Timed Event Other Reason for 1st instance | DART\_Timed\_Event\_Other\_1 | If ‘Other, please specify’ is selected for DART\_Timed\_Event\_1, the details for the other reason should be provided. | CHAR(80) | Free text | Rows where DART\_Timed\_Event\_1 = ‘Other, please specify’ | Performance metrics - wait times | Yes, if DART\_Timed\_Event\_1 = ‘Other, please specify’ |  |
| 19 | KV | Dates Affecting Readiness to Treat From Date – 2nd instance | DART\_From\_Date\_2 | The beginning date (YYYYMMDD) of the second period of time when the patient is unavailable for the procedure due to patient-related reasons. | CHAR(8) YYYYMMDD | Valid dateMust be on or after date of date of consultation and before date of procedure | Only procedures where there were DARTs. Up to 3 DARTs are allowed per procedure. | Performance metrics - wait times | No |  |
| 20 | KV | Dates Affecting Readiness to Treat To Date – 2nd instance | DART\_To\_Date\_2 | The end date (YYYYMMDD) of the second period of time when the patient is unavailable for the procedure due to patient-related reasons. | CHAR(8) YYYYMMDD | Valid dateMust be on or after date of date of consultation and before date of procedure, and after DART From Date | Only procedures where there were DARTs. Up to 3 DARTs are allowed per procedure. | Performance metrics - wait times | Yes if DART\_From\_Date\_2 is not null |  |
| 21 | KV | Dates Affecting Readiness to Treat Reason for 2nd instance | DART\_Reason\_2 | The reason the patient is unavailable for the procedure for the second DART. | CHAR(80) | If provided, must be one of the options in the drop down:* Inability to Contact the Patient
* Change in Medical Status
* Missed Procedure/No Show
* Pre-Procedure Instructions Not Followed
* Patient treatment related timed event, please specify

Patient Chooses to Defer | Rows where DART\_From\_Date\_2 and DART\_To\_Date\_2 are entered | Performance metrics - wait times | Yes if DART\_From\_Date\_2 and DART\_To\_Date\_2 are entered |  |
| 22 | KV | DART Timed Event Reason for 2nd instance | DART\_Timed\_Event\_2 | If ‘Patient treatment related timed event, please specify’ is selected for DART\_Reason\_2, the reason for the timed event should be indicated. | CHAR(80) | If provided, must be one of the options in drop down menu:* Neo-adjuvant chemotherapy
* Neo-adjuvant radiation therapy
* Tumour Ablation

Other, please specify | Rows where DART\_Reason\_2 = ‘Patient treatment related timed event’ | Performance metrics - wait times | Yes, if DART\_Reason\_2 = ‘Patient treatment related timed event’ |  |
| 23 | KV | DART Timed Event Other Reason for 2nd instance | DART\_Timed\_Event\_Other\_2 | If ‘Other, please specify’ is selected for DART\_Timed\_Event\_2, the details for the other reason should be provided. | CHAR(80) | Free text | Rows where DART\_Timed\_Event\_2 = ‘Other, please specify’ | Performance metrics - wait times | Yes, if DART\_Timed\_Event\_2 = ‘Other, please specify’ |  |
| 24 | KV | Dates Affecting Readiness to Treat From Date – 3rd instance | DART\_From\_Date\_3 | The beginning date (YYYYMMDD) of the third period of time when the patient is unavailable for the procedure due to patient-related reasons. | CHAR(8) YYYYMMDD | Valid dateMust be on or after date of date of consultation and before date of procedure | Only procedures where there were DARTs. Up to 3 DARTs are allowed per procedure. | Performance metrics - wait times | No |  |
| 25 | KV | Dates Affecting Readiness to Treat To Date – 3rd instance | DART\_To\_Date\_3 | The end date (YYYYMMDD) of the third period of time when the patient is unavailable for the procedure due to patient-related reasons. | CHAR(8) YYYYMMDD | Valid dateMust be on or after date of date of consultation and before date of procedure, and after DART From Date | Only procedures where there were DARTs. Up to 3 DARTs are allowed per procedure. | Performance metrics - wait times | Yes if DART\_From\_Date\_3 is not null |  |
| 26 | KV | Dates Affecting Readiness to Treat Reason for 3rd instance | DART\_Reason\_3 | The reason the patient is unavailable for the procedure for the third DART. | CHAR(80) | If provided, must be one of the options in the drop down:* Inability to Contact the Patient
* Change in Medical Status
* Missed Procedure/No Show
* Pre-Procedure Instructions Not Followed
* Patient treatment related timed event, please specify

Patient Chooses to Defer | Rows where DART\_From\_Date\_3 and DART\_To\_Date\_3 are entered | Performance metrics - wait times | Yes if DART\_From\_Date\_3 and DART\_To\_Date\_3 are entered |  |
| 27 | KV | DART Timed Event Reason for 3rd instance | DART\_Timed\_Event\_3 | If ‘Patient treatment related timed event, please specify’ is selected for DART\_Reason\_3, the reason for the timed event should be indicated. | CHAR(80) | If provided, must be one of the options in drop down menu:* Neo-adjuvant chemotherapy
* Neo-adjuvant radiation therapy
* Tumour Ablation

Other, please specify | Rows where DART\_Reason\_3 = ‘Patient treatment related timed event’ | Performance metrics - wait times | Yes, if DART\_Reason\_3 = ‘Patient treatment related timed event’ |  |
| 28 | KV | DART Timed Event Other Reason for 3rd instance | DART\_Timed\_Event\_Other\_3 | If ‘Other, please specify’ is selected for DART\_Timed\_Event\_3, the details for the other reason should be provided. | CHAR(80) | Free text | Rows where DART\_Timed\_Event\_3 = ‘Other, please specify’ | Performance metrics - wait times | Yes, if DART\_Timed\_Event\_3 = ‘Other, please specify’ |  |

## Definitions for DARTs

|  |  |
| --- | --- |
| **Dates Affecting Readiness to Treat Reason** | **Definition** |
| **Inability to Contact the Patient**  | The scheduler has made a reasonable effort (determined by facility guidelines) to contact the patient in order to schedule or confirm the date and time for the procedure, but has not been able to do so.  |
| **Change in Medical Status**  | The patient's medical status has changed such that the procedure cannot be performed at this time.  |
| **Missed Procedure/No Show**  | The patient is a no show for their procedure at the scheduled date and time, or cancels on the scheduled procedure date, and as a result the procedure must be rescheduled. For this DART reason, one day will be subtracted from the overall consult to procedure wait time.  |
| **Pre-Procedure Instructions Not Followed**  | The patient has not completed the necessary prerequisites for the procedure as advised at the time of appointment notification.  |
| **Patient treatment related timed event, please specify** | Also known as a specified date procedure or timed procedure, a timed event is used to indicate a procedure that should be completed once a predefined time period has elapsed that is linked to patient’s treatment pathway and other medical interventions linked to a patient’s disease. This reason should not be used to capture system related issues. |
| **Patient Chooses to Defer**  | The patient is unavailable for the procedure due to personal reasons (such as vacation or death in the family), personal preferences for the date and time of the procedure, or weather reasons (such as road and airport closures).  |

##

## Significant Malignant Potential Diagnosis Codes

As recommended by the Interventional Oncology Steering Committee, the following list of significant malignant potential diagnosis codes as defined for the Systemic Treatment Quality Based Procedure (ST-QBP), will be considered in-scope for these procedures.

|  |
| --- |
| **Malignant ICD 10 and ICD 03 Codes** |
|  |  |  |
| **ICD 10 CA International Classficiation of Diseases and Related Problems (Canadian Ver 10)** |
| **Diagnosis Code** | **Description** |
| C00\* - C97 | Range of Malignant neoplasms ICD 10 codes |
| D00\* - D09\* | Range of In situ neoplasms ICD 10 codes |
| D37\* - D49 | Range of Neoplasms of uncertain or unknown behaviour ICD 10 codes |

|  |
| --- |
| **Below is a list of ICD-10 codes which have been identified by the Benign Haematology subgroup as having a significant malignant potential and therefore would be considered malignant** |
| **Diagnosis Code** | **Description** |
| **D60** | **Acquired pure red cell aplasia [erythroblastopenia]** |
| D600 | Chronic acquired pure red cell aplasia |
| D601 | Transient acquired pure red cell aplasia |
| D608 | Other acquired pure cell aplasias |
| D609 | Acquired pure red cell aplasia unspec |
| **D61** | **Other aplastic anaemias** |
| D610 | Constitutional aplastic anaemia |
| D611 | Drug-induced aplastic anaemia |
| D612 | Aplastic anaemia due to other external agents |
| D613 | Idiopathic aplastic anaemia |
| D618 | Other specified aplastic anaemias |
| D619 | Aplastic anaemia unspecified |
| **D64** | **Other anaemias** |
| D640 | Hereditary sideroblastic anaemia |
| D641 | Secondary sideroblastic anaemia due to disease |
| D642 | Secondary sideroblastic anaemia due to drugs and toxins |
| D643 | Other sideroblastic anaemias |
| D644 | Congenital dyserythropoietic anaemia |
| D648 | Other specified anaemias |
| D649 | Anaemia unspecified |
| **D68** | **Other coagulation diffects** |
| D684 | Acquired coagulation factor deficiency |
| **D70** | **Agranulocytosis** |
| D700 | Neutropenia |
| D708 | Other agranulocytosis |
| **D72** | **Other disorders of white blood cells** |
| D721 | Eosinophilia |
| D728 | Other specified disorders of white blood cells |
| D729 | Disorder of white blood cells NOS |
| **D75** | **Other diseases of blood and blood-forming organs** |
| D758 | Other specified diseases of blood and blood-forming organs |
| D7588 | Other specified diseases of blood and blood-forming organs |
| D759 | Disease of blood and blood-forming organs, unspecified |
| **E85** | **Amyloidosis** |
| E850 | Non-neuropathic heredofamilial amyloidosis |
| E851 | Neuropathic heredofamilial amyloidosis |
| E852 | Heredofamilial amyloidosis, unspecified |
| E853 | Secondary systemic amyloidosis |
| E854 | Organ-limited amyloidosis |
| E858 | Other amyloidosis |
| E859 | Amyloidosis unspecified |
| **L99** | **Other disorders of skin and subcutaneous tissue in diseases classified elsewhere** |
| L990 | Amyloidosis of skin |
| **O01** | **Hydatidiform mole** |
| O010 | Classical hydatidiform mole |
| O011 | Incomplete and partial hydatidiform mole |
| O019 | Hydatidiform mole, unspecified |
| **Q82** | **Other congenital malformations of skin** |
| Q822 | Mastocytosis |
| **R59** | **Enlarged lymph nodes** |
| R590 | Localized enlarged lymph nodes |
| R591 | Generalized enlarged lymph nodes |
| R599 | Enlarged lymph nodes unspecified |
| **R72** | **Abnormality of white blood cells NEC** |
| **Z52** | **Donors of organs and tissues** |
| Z523 | Bone marrow donor |
| Z529 | Donor of unspecified organ or tissue |

|  |
| --- |
| **Malignant ICD 10 and ICD 03 Codes** |
|  |  |  |
|  |  |  |
| **ICD-O3 International classification of Diseases for Oncology(ver 3.0)** |
| **Topography code** | **Morphology Code** | **Behaviour** |
| C00\* - C80\* | \*3 | Malignant, Primary |
| C00\* - C80\* | \*2 | In situ |
| C00\* - C80\* | \*6 | Malignant, Secondary |
| C00\* - C80\* | \*9 | Malignant, uncertain whether primary or secondary |

**Legend:**

Green text = New code added by the International Classification of Diseases

Blue text = New code

Black text = Carry over

# Quality Assurance Checks

The QA checks are grouped by number as follows:

100’s - **File level checks**

200’s - **File format errors**: Entire record is rejected.
300’s - **Rejected content errors**: Entire record is rejected.
400’s - **Non-rejected content errors**: Entire record is retained, including erroneous field.
500’s - **Apparent duplicate record warnings**: These are not necessarily errors, but could be.

**Built-in Data Assurance Checks within the Manual Submission Template**

Cells in the submission template being used for 2017/18 will light up **red** for data elements that are mandatory based on the treatment data being submitted on each row of the template. Cells in the submission template will light up **yellow** when the format of the data elements which are dates are incorrect. For all other data elements, an error message will appear if the format is incorrect.

##

## Validations: File Level Validations (Level 100)

The following rules will be applied and checked against every file submitted for SSO program.

| **#** | **Type** | **Condition** | **Error Message** | **Reject** |
| --- | --- | --- | --- | --- |
| 103 | File of different format | A file different from the required .csv file submitted (e.g. Word, Excel) | File Error – File(s) [*filename*] is incorrectly named. | Yes |
| 103 | File name mask | File name does not follow the convention for file name mask: **KV\_nnn\_ffff\_ffffQx.csv**Where:KV: a fixed string indicating the program name (Kyphoplasty and vertebroplasty)nnn: the three-digit code of the submitting site (e.g. 567)ffff \_ffff: the two calendar years that make up the fiscal year separated by an underscore character (e.g. 2015\_2016)Q: a fixed character for Quarterx: the quarter within the fiscal, which is always an integer number between 1 and 4 (e.g. 3).csv: a fixed string indicating that the file is in csv format. **Example**: KV\_567\_2015\_2016Q3.csv***Note****: This validation should be non-case-sensitive so that, for example, the string "KV" can also be sent as "kv".* | File Error – File(s) [*filename*] is incorrectly named. | Yes |
| 103 | Invalid Facility Number | The Facility Number in the file name is incorrect | File Error – File(s) [*filename*] is incorrectly named. | Yes |
| 103 | Invalid calendar year | The calendar year(s) in the file name is incorrect. | File Error – File(s) [*filename*] is incorrectly named. | Yes |
| 103 | Invalid submission quarter | The submission quarter in the file name is incorrect. | File Error – File(s) [*filename*] is incorrectly named. | Yes |
| 104 | Empty file | File is completely empty, with no header or data. | File error – File(s) [*filename*] is empty. | Yes |
| 105 | Invalid number of data elements | Submitted file’s header row consists of invalid number of data elements (i.e. missing or additional columns) | File Error – File [filename]: header list is incorrect. Invalid number of columns. | Yes |
| 105 | Invalid date element(s) | Submitted file’s header row consists of invalid data element(s), (e.g. column(s) with name different from expected, or column that is out of position) | File Error – File [*filename*]: header list is incorrect. Invalid column name or position. Expected [*expected\_column\_name*] found [*found\_column\_name*]. | Yes |
| 105 | Headerless file | Submitted file has data records, but no header | File Error – File [*filename*]: header list is incorrect. Invalid column name or position. Expected [*expected\_column\_name\_1*] found [*found\_column\_name\_1*]. | Yes |
| 191 | No data | Submitted file contains only a Header, but no data.***Note****: This is a valid submission if there were no procedures in the reported quarter, so we issue a warning just to make sure.* | Warning – No data submitted. If there are records, please resubmit. | No |

##

## Validations: File Format Errors (Level 200)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Number** | **Entity** | **Data Element** | **Condition** | **Error Message** | **Reject** |
| 201 | All | All Fields | Data field is too long | Invalid field length | Yes |
| 202 | All | All Date Fields | Submitted date is invalid (e.g. 20190231) | Invalid Date | Yes |
| 204 | All | All Date Fields | Date is not in YYYYMMDD format*(For optional date fields, ignore if null)* | Invalid Date format – Date input format must be in YYYYMMDD. | Yes |

##

## Validations: Content Errors, Record Rejected (Level 300)

| **Number** | **Element #** | **Data Element** | **Column\_Name** | **Condition** | **Error Message** | **Reject** |
| --- | --- | --- | --- | --- | --- | --- |
| 300 | KV 01 | Patient Health Card Number | Health\_Card\_Number | Is Null | Invalid – Null Value(record rejected) | Yes |
| 303 | KV 01 | Patient Health Card Number | Health\_Card\_Number | Is not a valid ten-digit HCNIgnore if NULL. | Invalid Ontario Health Card Number | Yes |
| 394 | KV 01 | Patient Health Card Number | Health\_Card\_Number | If the value is 1 or 0Ignore if NULL. | Invalid HCN (Health Card Number = 0) and Out of Province or Out of Country (Health Card Number = 1) should not be submitted | Yes |
| 300 | KV 02 | Patient Chart Number | Patient\_Chart\_Number | Is Null | Invalid – Null Value (record rejected) | Yes |
| 302 | KV 02 | Patient Chart Number | Patient\_Chart\_Number | Contains special characters e.g. \*,/,{Ignore if NULL | Invalid Patient Chart Number - Contains non alpha numeric characters | Yes |
| 300 | KV 03 | Date of Birth | Date\_Of\_Birth | Is Null | Invalid - Null Value (record rejected) | Yes |
| 601 | KV 03 | Date of Birth | Date\_Of\_Birth | Is before 1900-01-01 | Date is before 1900-01-01 | Yes |
| 300 | KV 04 | Postal Code | Postal\_Code | Is Null | Invalid - Null Value (record rejected) | Yes |
| 304 | KV 04 | Postal Code | Postal\_Code | Matches mask ANANAN but begins with D, F, I, O, Q, U, or W.Ignore if NULL. | Invalid Postal Code - Invalid Initial Letter | Yes |
| 305 | KV 04 | Postal Code | Postal\_Code | Matches mask of AA but does not match any entry in [Appendix 3](https://www.cancercare.on.ca/ext/databook/db1213/Appendix/Appendix_1-6_-_Province_and_State_codes.htm) (Prov/State Codes).Ignore if NULL. | Invalid Postal Code - field with mask AA does not match existing province/state codes. | Yes |
| 306 | KV 04 | Postal Code | Postal\_Code | Does not match mask: ANANAN, NNNNN, NNNNN-NNNN, AAIgnore if NULL | Invalid Postal Code | Yes |
| 300 | KV 05 | Facility Number | Facility\_Number | Is Null | Invalid - Null Value (record rejected) | Yes |
| 502 | KV 05 | Facility Number | Facility\_Number | Is Null | Should match with facility number on interface selected | Yes |
| 301 | KV 05 | Facility Number | Facility\_Number | Does not match any legal entry in **Appendix-3**Ignore if NULL | Invalid Hospital Number | Yes |
| 502 |  KV 05 | Facility Number | Facility\_Number | Does not match any legal entry in Appendix-3Ignore if NULL | Should match with facility number on interface selected | Yes |
| 502 | KV 05 | Facility Number | Facility\_Number | Facility # is a valid facility and the facility # is other than the submitting facility #Ignore if NULL | Should match with facility number on interface selected | Yes |
| 300 | KV 06 | Type of Procedure | Type\_of\_Procedure | Is Null | Invalid - Null Value (record rejected) | Yes |
| 399 | KV 06 | Type of Procedure | Type\_of\_Procedure | Is not a value in predefined listIgnore if Null | Invalid answer | Yes |
| 399 | KV 07 | Eligibility for Kyphoplasty | Eligibility\_for\_Kyphoplasty | Is not a value in predefined listIgnore if Null | Invalid answer | Yes |
| 300 | KV 07 | Eligibility for Kyphoplasty | Eligibility\_for\_Kyphoplasty | Is Null and Type\_of\_ Procedure = ‘Kyphoplasty’ or ‘FTA-assisted Kyphoplasty’ | Invalid - Null Value (record rejected) | Yes |
| 399 | KV 08 | Confirmed Cancer Case | Confirmed\_Cancer\_Case | Is not a value in predefined listIgnore if Null | Invalid answer | Yes |
| 300 | KV 08 | Confirmed Cancer Case | Confirmed\_Cancer\_Case | Is Null | Invalid - Null Value(record rejected) | Yes |
| 300 | KV 09 | Procedure Date | Date\_of\_Procedure | Is Null | Invalid - Null Value (record rejected) | Yes |
| 606 | KV 09 | Procedure Date | Date\_of\_Procedure | Is before Date of ConsultationIgnore if Null | Date of procedure cannot be before date of consultation | Yes |
| 623 | KV 09 | Procedure Date | Date\_of\_Procedure | Is not in current reporting quarterIgnore if Null | Date of procedure is not in the quarter being submitted | Yes |
| 300 | KV 10 | Date of Receipt of Referral | Date\_of\_Receipt\_of\_Referral | Is Null | Invalid - Null Value (record rejected) | Yes |
| 602 | KV 10 | Date of Receipt of Referral | Date\_of\_Receipt\_of\_Referral | Is before 1900-01-01 | Date is before 1900-01-01 | Yes |
| 679 | KV 10 | Date of Receipt of Referral | Date\_of\_Receipt\_of\_Referral | Is later than Date of Procedure | Date of Receipt of Referral cannot be after date of procedure | Yes |
| 300 | KV 11 | Consultation Date | Date\_of\_Consultation | Is Null | Invalid - Null Value (record rejected) | Yes |
| 603 | KV 11 | Consultation Date | Date\_of\_Consultation | Is earlier than Date of Referral | Date of Consultation cannot be before Date of Referral | Yes |
| 399 | KV 12 | Multidisciplinary Consultation | Multidisciplinary\_Consultation | Is not a value in predefined list (Yes or No)Ignore if Null | Invalid answer | Yes |
| 300 | KV 12 | Multidisciplinary Consultation | Multidisciplinary\_Consultation | Is Null | Invalid - Null Value (record rejected) | Yes |
| 399 | KV 13 | Number of vertebra levels treated in procedure | Vertebra\_levels\_treated | Is not a value in predefined list.Ignore if Null | Invalid answer | Yes |
| 300 | KV 13 | Number of vertebra levels treated in procedure | Vertebra\_levels\_treated | Is Null | Invalid - Null Value (record rejected) | Yes |
| 680 | KV 14 | Dates Affecting Readiness to Treat From Date – 1st instance | DART\_From\_Date\_1 | Is earlier than Date of ConsultationIgnore if Null | DART From Date cannot be before date of consultation | Yes |
| 683 | KV 14 | Dates Affecting Readiness to Treat From Date – 1st instance | DART\_From\_Date\_1 | Is later than the Date of Procedure | DART From Date cannot be after Date of Procedure | Yes |
| 681 | KV 15 | Dates Affecting Readiness to Treat To Date – 1st instance | DART\_To\_Date\_1 | Is earlier than Date of ConsultationIgnore if Null | DART To Date cannot be before date of consultation | Yes |
| 300 | KV 15 | Dates Affecting Readiness to Treat To Date – 1st instance | DART\_To\_Date\_1 | Is Null and DART\_From\_Date\_1 is entered | Invalid - Null Value (record rejected) | Yes |
| 684 | KV 15 | Dates Affecting Readiness to Treat To Date – 1st instance | DART\_To\_Date\_1 | Is earlier than DART From Date 1 | DART To Date cannot be before DART From Date. | Yes |
| 685 | KV 15 | Dates Affecting Readiness to Treat To Date – 1st instance | DART\_To\_Date\_1 | Is later than the Date of Procedure | DART To Date cannot be after Date of Procedure | Yes |
| 300 | KV 16 | Dates Affecting Readiness to Treat Reason for 1st instance | DART\_Reason\_1 | Is Null and DART\_From\_Date\_1 and DART\_To\_Date\_1 are entered | Invalid - Null Value (record rejected) | Yes |
| 399 | KV 16 | Dates Affecting Readiness to Treat Reason for 1st instance | DART\_Reason\_1 | Is not a value in predefined listIgnore if Null | Invalid answer | Yes |
| 300 | KV 17 | DART Timed Event Reason for 1st instance | DART\_Timed\_Event\_1 | Is Null and DART\_Reason\_1 = ‘Patient treatment related timed event, please specify’ | Invalid - Null Value (record rejected) | Yes |
| 399 | KV 17 | DART Timed Event Reason for 1st instance | DART\_Timed\_Event\_1 | Is not a value in predefined listIgnore if Null | Invalid answer | Yes |
| 300 | KV 18 | DART Timed Event Other Reason for 1st instance | DART\_Timed\_Event\_Other\_1 | Is Null and DART\_Timed\_Event\_1 = “Other, please specify.” | Invalid - Null Value (record rejected) | Yes |
| 680 | KV 19 | Dates Affecting Readiness to Treat From Date – 2nd instance | DART\_From\_Date\_2 | Is earlier than Date of ConsultationIgnore if Null | DART From Date cannot be before Date of Consultation | Yes |
| 683 | KV 19 | Dates Affecting Readiness to Treat From Date – 2nd instance | DART\_From\_Date\_2 | Is later than Date of Procedure | DART From Date canot be after Date of Procedure | Yes |
| 686 | KV 19 | Dates Affecting Readiness to Treat From Date – 2nd instance | DART\_From\_Date\_2 | Is not NULL when DART From Date 1 is NULL | DART From Date must be NULL for this DART period, as a previous DART interval with a NULL DART From Date exists | Yes |
| 687 | KV 19 | Dates Affecting Readiness to Treat From Date – 2nd instance | DART\_From\_Date\_2 | Is not NULL when DART To Date 1 is NULL | DART From Date must be NULL for this DART period, as a previous DART interval with a NULL DART To Date exists | Yes |
| 690 | KV 19 | Dates Affecting Readiness to Treat From Date – 2nd instance | DART\_From\_Date\_2 | Is eearlier than DART From Date 1, when DART From Date 1 is not NULL | DART From Date for this this DART period cannot be earlier than DART From Date from a previous DART interval | Yes |
| 681 | KV 20 | Dates Affecting Readiness to Treat To Date – 2nd instance | DART\_To\_Date\_2 | Is before Date of ConsultationIgnore if Null | DART To Date cannot be before Date of Consultation | Yes |
| 300 | KV 20 | Dates Affecting Readiness to Treat To Date – 2nd instance | DART\_To\_Date\_2 | Is Null and DART From Date 2 is entered | Invalid - Null Value (record rejected) | Yes |
| 684 | KV 20 | Dates Affecting Readiness to Treat To Date – 2nd instance | DART\_To\_Date\_2 | Is earlier than DART From Date 2 | DART To Date cannot be earlier than DART From Date | Yes |
| 685 | KV 20 | Dates Affecting Readiness to Treat To Date – 2nd instance | DART\_To\_Date\_2 | Is later than the Date of Procedure | DART TO Date cannot be after Date of Procedure | Yes |
| 688 | KV 20 | Dates Affecting Readiness to Treat To Date – 2nd instance | DART\_To\_Date\_2 | Is not NULL when DART From Date 1 is NULL | DART To Date must be NULL for this DART period, as a previous DART interval with a NULL DART From Date value exists | Yes |
| 689 | KV 20 | Dates Affecting Readiness to Treat To Date – 2nd instance | DART\_To\_Date\_2 | Is not NULL when DART To Date 1 is NULL | DART To Date must be NULL for this DART period, as a previous DART interval with a NULL DART To Date value exists | Yes |
| 300 | KV 21 | Dates Affecting Readiness to Treat Reason for 2nd instance | DART\_Reason\_2 | Is Null and DART\_From\_Date\_2 and DART\_To\_Date\_2 are entered | Invalid - Null Value (record rejected) | Yes |
| 399 | KV 21 | Dates Affecting Readiness to Treat Reason for 2nd instance | DART\_Reason\_2 | Is not a value in predefined listIgnore if Null | Invalid answer | Yes |
| 300 | KV 22 | DART Timed Event Reason for 2nd instance | DART\_Timed\_Event\_2 | Is Null and DART\_Reason\_2 = ‘Patient treatment related timed event, please specify’ | Invalid - Null Value (record rejected) | Yes |
| 399 | KV 22 | DART Timed Event Reason for 2nd instance | DART\_Timed\_Event\_2 | Is not a value in predefined listIgnore if Null | Invalid answer | Yes |
| 300 | KV 23 | DART Timed Event Other Reason for 2nd instance | DART\_Timed\_Event\_Other\_2 | Is Null and DART\_Timed\_Event\_2 = ‘Other, please specify’ | Invalid - Null Value (record rejected) | Yes |
| 680 | KV 24 | Dates Affecting Readiness to Treat From Date – 3rd instance | DART\_From\_Date\_3 | Is earlier than Date of ConsultationIgnore if Null | DART From Date cannot be before Date of Consultation | Yes |
| 683 | KV 24 | Dates Affecting Readiness to Treat From Date – 3rd instance | DART\_From\_Date\_3 | Is later than the Date of Procedure | DART From Date cannot be after Date of Procedure | Yes |
| 686 | KV 24 | Dates Affecting Readiness to Treat From Date – 3rd instance | DART\_From\_Date\_3 | Is not NULL when DART From Date 1 is NULL | DART From Date must be NULL for this DART period, as a previous DART interval with a NULL DART From Date value exists | Yes |
| 687 | KV 24 | Dates Affecting Readiness to Treat From Date – 3rd instance | DART\_From\_Date\_3 | Is not NULL when DART To Date 1 is NULL | DART From Date must be NULL for this DART period, as a previous DART interval with a NULL DART To Date value exists | Yes |
| 686 | KV 24 | Dates Affecting Readiness to Treat From Date – 3rd instance | DART\_From\_Date\_3 | Is not NULL when DART From Date 2 is NULL | DART From Date must be NULL for this DART period, as a previous DART interval with a NULL DART From Date value exists | Yes |
| 687 | KV 24 | Dates Affecting Readiness to Treat From Date – 3rd instance | DART\_From\_Date\_3 | Is not NULL when DART To Date 2 is NULL | DART From Date must be NULL for this DART period, as a previous DART interval with a NULL DART To Date value exists | Yes |
| 690 | KV 24 | Dates Affecting Readiness to Treat From Date – 3rd instance | DART\_From\_Date\_3 | Is earlier than DART\_From\_Date\_1, when DART\_From\_Date\_1 is not NULL. | DART From Date for this DART period cannot be earlier than DART From Date from a previous DART interval. | Yes |
| 690 | KV 24 | Dates Affecting Readiness to Treat From Date – 3rd instance | DART\_From\_Date\_3 | Is earlier than DART From Date 2, when DART From Date 2 is not NULL. | DART From Date for this DART period cannot be earlier than DART From Date from a previous DART interval. | Yes |
| 681 | KV 25 | Dates Affecting Readiness to Treat To Date – 3rd instance | DART\_To\_Date\_3 | Is earlier than Date of ConsultationIgnore if Null | DART To Date cannot be before Date of Consultation | Yes |
| 300 | KV 25 | Dates Affecting Readiness to Treat To Date – 3rd instance | DART\_To\_Date\_3 | Is Null and DART\_From\_Date\_3 is entered | Invalid - Null Value (record rejected) | Yes |
| 684 | KV 25 | Dates Affecting Readiness to Treat To Date – 3rd instance | DART\_To\_Date\_3 | Is earlier than DART From Date\_3 | DART To Date cannot be before DART From Date. | Yes |
| 685 | KV 25 | Dates Affecting Readiness to Treat To Date – 3rd instance | DART\_To\_Date\_3 | Is later than the Date of procedure | DART To Date cannot be after Date of Procedure. | Yes |
| 688 | KV 25 | Dates Affecting Readiness to Treat To Date – 3rd instance | DART\_To\_Date\_3 | Is not NULL when DART\_From\_Date\_1 is NULL | DART To Date must be NULL for this DART period, as a previous DART interval with a NULL DART From Date value exists*.* | Yes |
| 689 | KV 25 | Dates Affecting Readiness to Treat To Date – 3rd instance | DART\_To\_Date\_3 | Is not NULL, when DART\_To\_Date\_1 is NULL | DART To Date must be NULL for this DART period, as a previous DART interval with a NULL DART To Date value exists | Yes |
| 688 | KV 25 | Dates Affecting Readiness to Treat To Date – 3rd instance | DART\_To\_Date\_3 | Is not NULL when DART\_From\_Date\_2 is NULL | DART To Date must be NULL for this DART period, as a previous DART interval with a NULL DART From Date value exists*.* | Yes |
| 689 | KV 25 | Dates Affecting Readiness to Treat To Date – 3rd instance | DART\_To\_Date\_3 | Is not NULL when DART\_To\_Date\_2 is NULL | DART To Date must be NULL for this DART period, as a previous DART interval with a NULL DART To Date value exists | Yes |
| 300 | KV 26 | Dates Affecting Readiness to Treat Reason for 3rd instance | DART\_Reason\_3 | Is Null and DART\_From\_Date\_3 and DART\_To\_Date\_3 are entered | Invalid - Null Value (record rejected) | Yes |
| 399 | KV 26 | Dates Affecting Readiness to Treat Reason for 3rd instance | DART\_Reason\_3 | Is not a value in predefined listIgnore if Null | Invalid answer | Yes |
| 300 | KV 27 | DART Timed Event Reason for 3rd instance | DART\_Timed\_Event\_3 | Is Null and DART\_Reason\_3 = ‘Patient treatment related timed event, please specify’ | Invalid - Null Value (record rejected) | Yes |
| 399 | KV 27 | DART Timed Event Reason for 3rd instance | DART\_Timed\_Event\_3 | Is not a value in predefined listIgnore if Null | Invalid answer | Yes |
| 300 | KV 28 | DART Timed Event Other Reason for 3rd instance | DART\_Timed\_Event\_Other\_3 | Is Null and DART\_Timed\_Event\_3 = ‘Other, please specify’ | Invalid - Null Value (record rejected) | Yes |

##

## Validations: Content Errors, Record Not Rejected (Level 400)

| **Number** | **Entity** | **Data Element** | **Condition** | **Error Message** | **Reject** |
| --- | --- | --- | --- | --- | --- |
| 416 | Eligibility for Kyphoplasty | Eligibility\_for\_Kyphoplasty | Is not NULL and Type of Procedure <> ‘Kyphoplasty' or ‘FTA-assisted Kyphoplasty’ | It is not expected that the ‘Eligibility for Kyphoplasty’ is completed for a procedure type other than ‘Kyphoplasty' or ‘FTA-assisted Kyphoplasty’. | No |
| 417 | DART Timed Event Other Reason for 1st instance | DART\_Timed\_Event\_Other\_1 | Is not null when DART\_Timed\_Event\_1 <> Other, please specify | Since Timed Event Reason is not Other, a description of the reason is not expected | No |
| 417 | DART Timed Event Other Reason for 2nd instance | DART\_Timed\_Event\_Other\_2 | Is not null when DART\_Timed\_Event\_2 <> Other, please specify | Since Timed Event Reason is not Other, a description of the reason is not expected | No |
| 417 | DART Timed Event Other Reason for 3rd instance | DART\_Timed\_Event\_Other\_3 | Is not null when DART\_Timed\_Event\_3 <> Other, please specify | Since Timed Event Reason is not Other, a description of the reason is not expected | No |
| 418 | Date of Birth | Date\_Of\_Birth | Patient age is less than 18 years of age. | Warning: This record is for a person less than 18 years of age. Please note CCO does not provide funding for cases where the patient is less than 18 years of age. | No |
| 497 | Multidisciplinary Consultation | Multidisciplinary\_Consultation | If Multidisciplinary\_Consultation is “NO” | Warning: Please note that the procedure will not be funded because there was no Multidisciplinary Consultation. | No |

##

## Validations: Duplicate or Apparent Duplicate Records (Level 500)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Entity** | **Data Element** | **Condition** | **Error Message** | **Reject** |
| 501 | Uniqueness of procedure | Health Card NumberFacility NumberType of ProcedureProcedure Date | The four data elements (Health Card Number, Facility Number, Type of Procedure and Procedure Date) are the same for two records in the same file. | Error | Yes |
| ~~502~~ | ~~Facility number~~ | ~~Facility Number~~ | ~~Facility number in the data does not match with the facility number associated with MFT Tumbleweed folder permissions.~~ | ~~Facility number mismatch~~  | ~~Yes~~ |

#

# Data Submission, Validation and Error Reporting Schedule

For FY 2019/20 data and moving forward, data submission windows will be as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Quarter** | **Corresponding Time Frame** | **Submission Window** | **PHI Available in Site Secure Folder** | **Data Resubmission Window Open (Optional) with data validation for all submissions received** |
| **Q1** | April 1 - June 30 | July 15 - August 30 | September 15 - 21  | September 22-30 |
| **Q2** | July 1 - September 30 | October 15 - November 30 | December 15 -21 | December 22- January 12 |
| **Q3** | October 1 - December 31 | January 15 - February 28 | March 15 – 21 | March 22 -30 |
| **Q4** | January 1 - March 31 | April 15 - May 30 | June 15 – 21 | June 22 - 30 |

#

# Appendix

##

## Appendix-1: Facility Numbers[[2]](#footnote-3)

| **Facility #** | **Facility Name** | **Site Master #** | **Site Name** |
| --- | --- | --- | --- |
| 930 | Grand River Hospital |  |  |
| 950 | Halton Healthcare Services Corporation |  |  |
| 942 | Hamilton Health Sciences Centre |  |  |
| 959 | Health Sciences North / Horizon Santé Nord |  |  |
| 941 | Humber River Hospital |  |  |
| 978 | Kingston Health Sciences Centre |  |  |
| 952 | Lakeridge Health  |  |  |
| 936 | London Health Sciences Centre |  |  |
| 962 | Niagara Health System |  |  |
| 606 | Royal Victoria Regional Health Centre |  |  |
| 979 | Scarborough Health Network |  |  |
| 980 | Unity Health Toronto |  |  |
| 953 | Sunnybrook Health Sciences Centre |  |  |
| 958 | The Ottawa Hospital |  |  |
| 935 | Thunder Bay Regional Health Sciences Centre |  |  |
| 975 | Trillium Health Partners |  |  |
| 947 | University Health Network |  |  |
| 933 | Windsor Regional Hospital |  |  |
| 674 | St. Josephs Health Care System - Hamilton |  |  |
| 771 | Peterborough Regional Health Centre |  |  |

Appendix-2: MOHLTC Master Numbering System[[3]](#footnote-4)

The Master Numbering System has been developed for the purpose of bringing together all Health Facilities and Programs under one system of identification. The list is a composite of health and health related units, facilities, clinics, programs and services. Each such organization has been assigned a unique four digit identifying code.

(For details, please refer Cancer Care Ontario's Data Book - 2012-2013, Appendix A: MOHLTC Master Numbering System, at link: <https://ext.cancercare.on.ca/ext/databook/db2021/databook.htm>).

##

## Appendix-3: Valid 2-digit Postal Codes[[4]](#footnote-5)

(Source: Cancer Care Ontario's Data Book - 2012-2013, Appendix B - Province and State codes, at link: <https://ext.cancercare.on.ca/ext/databook/db2021/databook.htm>).

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



1. As outlined in the [Guidance for Kyphoplasty and Vertebroplasty for Cancer Patients in Ontario: Recommendations Report 2017](https://www.cancercareontario.ca/en/guidelines-advice/types-of-cancer/50101). [↑](#footnote-ref-2)
2. The facility numbers included in this list will correspond to Appendix 3 in ALR [↑](#footnote-ref-3)
3. This corresponds to Appendix 13 in ALR [↑](#footnote-ref-4)
4. This corresponds to Appendix 11 in ALR [↑](#footnote-ref-5)