

National Cancer Core Data Definitions Interim Standard

**HISO 10038.3
v1.1**

To be used in conjunction with
**HISO 10038.1 National Cancer Core Data Interim Business Process Standard and
HISO 10038.2 National Cancer Core Data Interim Messaging Standard and
Implementation Guide**

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National Cancer Core Data Working Group

The National Cancer Core Data Working Group was responsible for providing technical advice for this draft document. Representatives from Auckland DHB, Capital & Coast DHB, Canterbury DHB, Hutt Valley DHB, Waikato DHB, University of Otago and the Ministry of Health were involved in the Working Group.

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Programme representation

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| Name | Role |
|-----------------|------------------|
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1 INTRODUCTION

The cancer core data definitions standard is intended to ensure that minimum agreed cancer data is collected and stored in a consistent manner wherever it is collected and stored. The associated business process and messaging standards are intended to ensure the safe, secure and accurate exchange of cancer information between systems in New Zealand.

The data work group that developed these standards considered a superset of possible cancer data items. The group was asked to sort those items into categories based on their **relevance** (requirement and utility), **availability** (is it recorded and can it be collected) and **reliability** (accuracy and consistency with definition). The data items that scored highly for relevance, availability and reliability were considered '**core**' and are the basis for these documents.

The standard should be reviewed on a regular basis to ensure it remains relevant and fit for purpose. This standard will initially be implemented as an 'interim standard'. The initial review will be undertaken at the end of the first year of implementation. After any agreed changes, the standard will then published as a 'full' standard, after which a review should be scheduled every two years.

It is recommended that people in both technical and non-technical roles read the Business Process document first. It should be read in conjunction with this document and the Messaging Standard. The Messaging Standard is a technical document generally intended for use by those implementing messaging solutions.

This standard defines the elements of cancer data that will be collected, stored and exchanged, providing an overview of each grouping of data items (e.g. name items), as well as:

- (a) a definition of each data item
- (b) attributes of each item, such as the maximum length of the field, the type of data it holds, the data domain (free text, code table, etc) and layout
- (c) information about the source of the defined element attributes
- (d) information such as guides for use, rules for verification
- (e) the following structure has been used in this document to record the attributes of each data item.

| | | | |
|----------------------------|--|---------------------------------|---|
| Definition: | A brief description of the data item. | | |
| Source standards: | The source standards from which the data item was sourced or derived. | | |
| Data type: | Alphanumeric Alphabetic Numeric Date Boolean | Representational class: | Text Number Date Y/N Code |
| Field size: | The maximum number of characters available. | Representational layout: | The way in which the contents of the field should be displayed. For example while the Data type might be "Alphanumeric" and the Field size might be "4", the Representational layout could be "ANN.N" where the "." is not saved as data. |
| Obligation: | Mandatory, Conditional, Optional | | |
| Data domain: | The source of the values that should be available for the data item. | | |
| Guide for use: | A guide to the way in which this data item should be used. | | |
| Verification rules: | A list of the rules governing collection and entry of values for the data item. This attribute should also record prerequisite conditions. | | |

The standard will provide the bulk of the content that will be transported in accordance to the associated messaging standard.

Interim Standard

The project used a high level business transaction process and information lifecycle model (Refer Figure 1, 10038.1 National Cancer Core Data Business Process) to identify likely people, organisations, activities and data collection points involved in the cancer care pathway.

As a result of this process, there are nine principal entities and the relationships between those entities are shown in the diagram below.

- For each Patient there may be one or more Episode of Care.
- For each Patient there may be one or more Diagnoses.
- For each Diagnosis there may be one or more Episodes of Care.
- For each Episode of Care there will be one or more Surgery and/or Radiation Therapy and/or Chemotherapy and/or Targeted Therapy and/or Other Therapy and/or Non-intervention Management.

Interim Standard

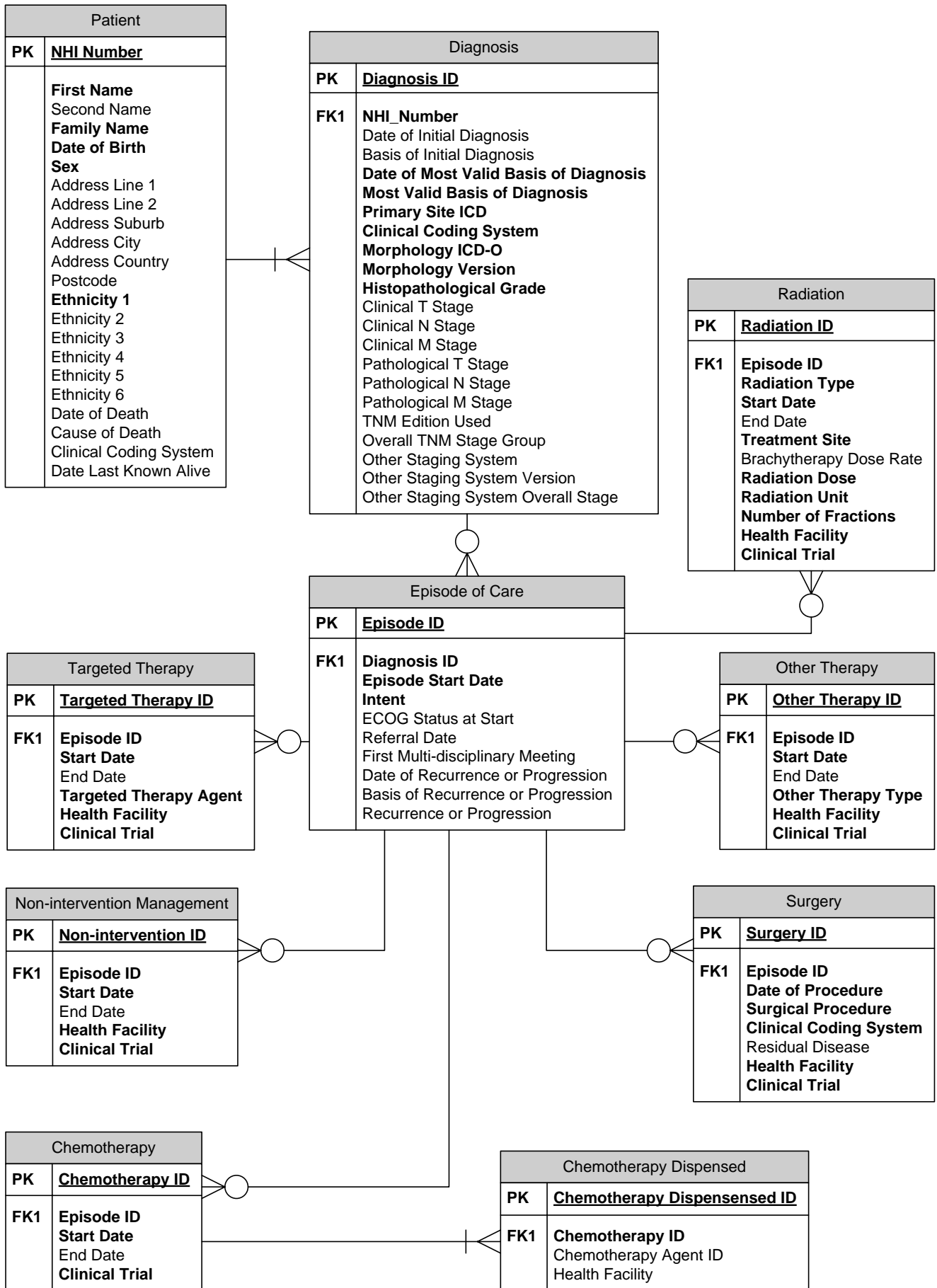


Figure 1: Core Cancer Care Entities

2 PATIENT

The Patient entity contains details of each person receiving cancer care services following a diagnosis of cancer.

The data elements for 'Patient' are:

1. NHI Number
2. First Name
3. Second Name
4. Family Name
5. Date of Birth
6. Sex
7. Address Line 1
8. Address Line 2
9. Address Suburb
10. Address City/Town
11. Address Country/Region
12. Postcode
13. Ethnicity 1
14. Ethnicity 2
15. Ethnicity 3
16. Ethnicity 4
17. Ethnicity 5
18. Ethnicity 6
19. Date of Death
20. Cause of Death
21. Clinical Coding System
22. Date Last Known to be Alive

2.1 *NHI Number*

| | | | |
|----------------------------|---|---------------------------------|---------|
| Definition: | Unique 7-character identification number assigned to a healthcare user by the National Health Index (NHI) database. | | |
| Source standards: | (National Health Index Data Dictionary, v5.3, July 2009) | | |
| Data type: | Alphanumeric | Representational class: | Text |
| Field size: | 7 | Representational layout: | AAANNNN |
| Obligation: | Mandatory | | |
| Data domain: | Valid NHI number | | |
| Guide for use: | Primary key for this record, foreign key to related record(s) in the Diagnosis entity | | |
| Verification rules: | | | |

2.2 *First Name*

| | | | |
|----------------------------|--|---------------------------------|-------|
| Definition: | The first given name of a healthcare user. | | |
| Source standards: | (National Health Index Data Dictionary, v5.3, July 2009) | | |
| Data type: | Alphabetic | Representational class: | Text |
| Field size: | 20 | Representational layout: | A(20) |
| Obligation: | Mandatory | | |
| Data domain: | | | |
| Guide for use: | | | |
| Verification rules: | | | |

2.3 *Second Name*

| | | | |
|----------------------------|--|---------------------------------|-------|
| Definition: | The second name of a healthcare user. | | |
| Source standards: | (National Health Index Data Dictionary, v5.3, July 2009) | | |
| Data type: | Alphabetic | Representational class: | Text |
| Field size: | 20 | Representational layout: | A(20) |
| Obligation: | Optional | | |
| Data domain: | | | |
| Guide for use: | | | |
| Verification rules: | | | |

2.4 *Family Name*

| | | | |
|----------------------------|--|---------------------------------|-------|
| Definition: | The family name (surname) of a healthcare user. | | |
| Source standards: | (National Health Index Data Dictionary, v5.3, July 2009) | | |
| Data type: | Alphabetic | Representational class: | Text |
| Field size: | 25 | Representational layout: | A(25) |
| Obligation: | Mandatory | | |
| Data domain: | | | |
| Guide for use: | | | |
| Verification rules: | | | |

2.5 *Date of Birth*

| | | | |
|----------------------------|---|---------------------------------|--------------|
| Definition: | The date on which the person was born | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYY[MM[DD]] |
| Obligation: | Mandatory | | |
| Data domain: | Valid date | | |
| Guide for use: | The CCYY component of the date is mandatory. MM is conditional (use if known). DD is conditional (use if known and MM has been recorded). | | |
| Verification rules: | | | |

2.6 *Sex*

| | | | |
|----------------------------|--|---------------------------------|------|
| Definition: | The person's biological sex | | |
| Source standards: | (National Health Index Data Dictionary, v5.3, July 2009) | | |
| Data type: | Alphabetic | Representational class: | Code |
| Field size: | 1 | Representational layout: | A |
| Obligation: | Mandatory | | |
| Data domain: | Value | Meaning | |
| | F | Female | |
| | I | Indeterminate | |
| | M | Male | |
| | U | Unknown | |
| Guide for use: | | | |
| Verification rules: | | | |

2.7 *Address Line 1*

| | | | |
|----------------------------|--|---------------------------------|-------|
| Definition: | The first line of the address at which a healthcare user has been, or plans to be, living at for 3 months or more. (Statistics NZ definition of 'usually resident'.) | | |
| Source standards: | (National Health Index Data Dictionary, v5.3, July 2009) | | |
| Data type: | Alphanumeric | Representational class: | Text |
| Field size: | 35 | Representational layout: | A(35) |
| Obligation: | Conditional. Mandatory if Address Line 2 is blank – otherwise optional | | |
| Data domain: | Free text | | |
| Guide for use: | | | |
| Verification rules: | Address Line 1 and Address Line 2 can not both be blank | | |

2.8 *Address Line 2*

| | | | |
|----------------------------|---|---------------------------------|-------|
| Definition: | The second line of the address at which a healthcare user has been, or plans to be, living at for 3 months or more. (Statistics NZ definition of 'usually resident'.) | | |
| Source standards: | (National Health Index Data Dictionary, v5.3, July 2009) | | |
| Data type: | Alphanumeric | Representational class: | Text |
| Field size: | 30 | Representational layout: | A(30) |
| Obligation: | Conditional. Mandatory if Address Line 1 is blank – otherwise optional | | |
| Data domain: | Free text | | |
| Guide for use: | | | |
| Verification rules: | Address Line 1 and Address Line 2 can not both be blank | | |

2.9 *Address Suburb*

| | | | |
|----------------------------|---|---------------------------------|-------|
| Definition: | The third line of the address representing the suburb | | |
| Source standards: | (National Health Index Data Dictionary, v5.3, July 2009) | | |
| Data type: | Alphanumeric | Representational class: | Text |
| Field size: | 30 | Representational layout: | A(30) |
| Obligation: | Conditional. Mandatory if Address City/Town is blank – otherwise optional | | |
| Data domain: | Free text | | |
| Guide for use: | | | |
| Verification rules: | Address suburb and City/town cannot both be blank | | |

2.10 *Address City/Town*

| | | | |
|----------------------------|--|---------------------------------|-------|
| Definition: | The fourth line of the address, representing the city, town or region. Either the third or the fourth line of the address is mandatory | | |
| Source standards: | (National Health Index Data Dictionary, v5.3, July 2009) | | |
| Data type: | Alphanumeric | Representational class: | Text |
| Field size: | 30 | Representational layout: | A(30) |
| Obligation: | Conditional. Mandatory if Address Suburb is blank – otherwise optional | | |
| Data domain: | Free text | | |
| Guide for use: | | | |
| Verification rules: | Address suburb and City/town cannot both be blank | | |

2.11 *Address Country/Region*

| | | | |
|----------------------------|--|---------------------------------|-------|
| Definition: | The fifth line of the address, representing the external region or country | | |
| Source standards: | (National Health Index Data Dictionary, v5.3, July 2009) | | |
| Data type: | Alphanumeric | Representational class: | Text |
| Field size: | 30 | Representational layout: | A(30) |
| Obligation: | Optional | | |
| Data domain: | Free text | | |
| Guide for use: | | | |
| Verification rules: | | | |

2.12 *Postcode*

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | The descriptor for a postal delivery area aligned with the locality, suburb or place for this address. | | |
| Source standards: | NZ Post | | |
| Data type: | Alphanumeric | Representational class: | Code |
| Field size: | 12 | Representational layout: | AN(12) |
| Obligation: | Optional | | |
| Data domain: | NZ Post postcode file International postcodes should be recorded as provided | | |
| Guide for use: | | | |
| Verification rules: | Data for New Zealand postcodes should be verified against the NZ Post postcode file. | | |

2.13 Ethnicity 1

| Definition: | <p>Ethnicity is the ethnic group or groups that people identify with or feel they belong to. Ethnicity is a measure of cultural affiliation, as opposed to race, ancestry, nationality or citizenship. Ethnicity is self-perceived and people can belong to more than one ethnic group.</p> <p>An ethnic group is made up of people who have some or all of the following characteristics:</p> <ul style="list-style-type: none"> • a common proper name • one or more elements of common culture that need not be specified, but may include • religion, customs, or language • unique community of interests, feelings and actions • a shared sense of common origins or ancestry, and • a common geographic origin. Māori in this report refers to the Māori ethnic group. | | | | | | | | | | | | |
|----------------------------|---|---------------------------------|------|------|-------------|-------|------------|-------|------------|-------|-------------------|-------|-------------------------|
| Source standards: | Ethnicity New Zealand Standard Classification 2005, ETHNIC05 V1.0, 01/06/2005 | | | | | | | | | | | | |
| Data type: | Numeric | Representational class: | Code | | | | | | | | | | |
| Field size: | 5 | Representational layout: | N(5) | | | | | | | | | | |
| Obligation: | <p>Conditional. Record if offered by patient. If the patient does not offer an ethnicity, record one of the following.</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>94444</td> <td>Don't Know</td> </tr> <tr> <td>99999</td> <td>Not Stated</td> </tr> <tr> <td>95555</td> <td>Refused to Answer</td> </tr> <tr> <td>97777</td> <td>Response Unidentifiable</td> </tr> </tbody> </table> | | | Code | Description | 94444 | Don't Know | 99999 | Not Stated | 95555 | Refused to Answer | 97777 | Response Unidentifiable |
| Code | Description | | | | | | | | | | | | |
| 94444 | Don't Know | | | | | | | | | | | | |
| 99999 | Not Stated | | | | | | | | | | | | |
| 95555 | Refused to Answer | | | | | | | | | | | | |
| 97777 | Response Unidentifiable | | | | | | | | | | | | |
| Data domain: | Refer Appendix A – Level 4 Ethnicity | | | | | | | | | | | | |
| Guide for use: | <p>Ethnicity 1 should record the patient's first stated ethnicity. It is important to note that "first" does not refer to "preferred" – simply the first ethnicity offered by the patient.</p> <p>Refer to <i>Ethnicity Data Protocols for the Health and Disability Sector</i>, Ministry of Health, 2004 for more guides to use.</p> | | | | | | | | | | | | |
| Verification rules: | | | | | | | | | | | | | |

2.14 Ethnicity 2

| | | | |
|----------------------------|---|---------------------------------|------|
| Definition: | <p>Ethnicity is the ethnic group or groups that people identify with or feel they belong to. Ethnicity is a measure of cultural affiliation, as opposed to race, ancestry, nationality or citizenship. Ethnicity is self-perceived and people can belong to more than one ethnic group.</p> <p>An ethnic group is made up of people who have some or all of the following characteristics:</p> <ul style="list-style-type: none"> • a common proper name • one or more elements of common culture that need not be specified, but may include • religion, customs, or language • unique community of interests, feelings and actions • a shared sense of common origins or ancestry, and • a common geographic origin. Māori in this report refers to the Māori ethnic group. | | |
| Source standards: | Ethnicity New Zealand Standard Classification 2005, ETHNIC05 V1.0, 01/06/2005 | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 5 | Representational layout: | N(5) |
| Obligation: | Conditional. Record if second ethnicity offered by patient. | | |
| Data domain: | Refer Appendix A – Level 4 Ethnicity | | |
| Guide for use: | <p>Ethnicity 2 should record the patient's second stated ethnicity - the second ethnicity offered by the patient.</p> <p>Refer to <i>Ethnicity Data Protocols for the Health and Disability Sector</i>, Ministry of Health, 2004 for more guides to use.</p> | | |
| Verification rules: | | | |

2.15 Ethnicity 3

| | | | |
|----------------------------|---|---------------------------------|------|
| Definition: | <p>Ethnicity is the ethnic group or groups that people identify with or feel they belong to. Ethnicity is a measure of cultural affiliation, as opposed to race, ancestry, nationality or citizenship. Ethnicity is self-perceived and people can belong to more than one ethnic group.</p> <p>An ethnic group is made up of people who have some or all of the following characteristics:</p> <ul style="list-style-type: none"> • a common proper name • one or more elements of common culture that need not be specified, but may include • religion, customs, or language • unique community of interests, feelings and actions • a shared sense of common origins or ancestry, and • a common geographic origin. Māori in this report refers to the Māori ethnic group. | | |
| Source standards: | Ethnicity New Zealand Standard Classification 2005, ETHNIC05 V1.0, 01/06/2005 | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 5 | Representational layout: | N(5) |
| Obligation: | Conditional. Record if third ethnicity offered by patient. | | |
| Data domain: | Refer Appendix A – Level 4 Ethnicity | | |
| Guide for use: | <p>Ethnicity 3 should record the patient's third stated ethnicity - the third ethnicity offered by the patient.</p> <p>Refer to <i>Ethnicity Data Protocols for the Health and Disability Sector</i>, Ministry of Health, 2004 for more guides to use.</p> | | |
| Verification rules: | | | |

2.16 Ethnicity 4

| | | | |
|----------------------------|---|---------------------------------|------|
| Definition: | <p>Ethnicity is the ethnic group or groups that people identify with or feel they belong to. Ethnicity is a measure of cultural affiliation, as opposed to race, ancestry, nationality or citizenship. Ethnicity is self-perceived and people can belong to more than one ethnic group.</p> <p>An ethnic group is made up of people who have some or all of the following characteristics:</p> <ul style="list-style-type: none"> • a common proper name • one or more elements of common culture that need not be specified, but may include • religion, customs, or language • unique community of interests, feelings and actions • a shared sense of common origins or ancestry, and • a common geographic origin. Māori in this report refers to the Māori ethnic group. | | |
| Source standards: | Ethnicity New Zealand Standard Classification 2005, ETHNIC05 V1.0, 01/06/2005 | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 5 | Representational layout: | N(5) |
| Obligation: | Conditional. Record if fourth ethnicity offered by patient. | | |
| Data domain: | Refer Appendix A – Level 4 Ethnicity | | |
| Guide for use: | <p>Ethnicity 4 should record the patient's fourth stated ethnicity - the fourth ethnicity offered by the patient.</p> <p>Refer to <i>Ethnicity Data Protocols for the Health and Disability Sector</i>, Ministry of Health, 2004 for more guides to use.</p> | | |
| Verification rules: | | | |

2.17 Ethnicity 5

| | | | |
|----------------------------|---|---------------------------------|------|
| Definition: | <p>Ethnicity is the ethnic group or groups that people identify with or feel they belong to. Ethnicity is a measure of cultural affiliation, as opposed to race, ancestry, nationality or citizenship. Ethnicity is self-perceived and people can belong to more than one ethnic group.</p> <p>An ethnic group is made up of people who have some or all of the following characteristics:</p> <ul style="list-style-type: none"> • a common proper name • one or more elements of common culture that need not be specified, but may include • religion, customs, or language • unique community of interests, feelings and actions • a shared sense of common origins or ancestry, and • a common geographic origin. Māori in this report refers to the Māori ethnic group. | | |
| Source standards: | Ethnicity New Zealand Standard Classification 2005, ETHNIC05 V1.0, 01/06/2005 | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 5 | Representational layout: | N(5) |
| Obligation: | Conditional. Record if fifth ethnicity offered by patient. | | |
| Data domain: | Refer Appendix A – Level 4 Ethnicity | | |
| Guide for use: | <p>Ethnicity 5 should record the patient's fifth stated ethnicity - the fifth ethnicity offered by the patient.</p> <p>Refer to <i>Ethnicity Data Protocols for the Health and Disability Sector</i>, Ministry of Health, 2004 for more guides to use.</p> | | |
| Verification rules: | | | |

2.18 Ethnicity 6

| | | | |
|----------------------------|---|---------------------------------|------|
| Definition: | <p>Ethnicity is the ethnic group or groups that people identify with or feel they belong to. Ethnicity is a measure of cultural affiliation, as opposed to race, ancestry, nationality or citizenship. Ethnicity is self-perceived and people can belong to more than one ethnic group.</p> <p>An ethnic group is made up of people who have some or all of the following characteristics:</p> <ul style="list-style-type: none"> • a common proper name • one or more elements of common culture that need not be specified, but may include • religion, customs, or language • unique community of interests, feelings and actions • a shared sense of common origins or ancestry, and • a common geographic origin. Māori in this report refers to the Māori ethnic group. | | |
| Source standards: | Ethnicity New Zealand Standard Classification 2005, ETHNIC05 V1.0, 01/06/2005 | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 5 | Representational layout: | N(5) |
| Obligation: | Conditional. Record if sixth ethnicity offered by patient. | | |
| Data domain: | Refer Appendix A – Level 4 Ethnicity | | |
| Guide for use: | <p>Ethnicity 6 should record the patient's sixth stated ethnicity - the sixth ethnicity offered by the patient.</p> <p>Refer to <i>Ethnicity Data Protocols for the Health and Disability Sector</i>, Ministry of Health, 2004 for more guides to use.</p> | | |
| Verification rules: | | | |

2.19 Date of Death

| | | | |
|----------------------------|--|---------------------------------|--------------|
| Definition: | The date on which the person died. Sourced from Births, Deaths and Marriages. | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYY[MM[DD]] |
| Obligation: | Conditional. Record if the patient is known to be dead and the date of death is known. | | |
| Data domain: | Valid date | | |
| Guide for use: | <p>Must be on or after the Date of Birth, and before the current date.</p> <p>If diagnosed post mortem, the Date of Death is the Diagnosis Date.</p> <p>The CCYY component of the date is mandatory (if known). MM is conditional (use if known). DD is conditional (use if known and MM has been recorded).</p> | | |
| Verification rules: | | | |

2.20 Cause of Death

| | | | |
|----------------------------|---|---------------------------------|-------|
| Definition: | The underlying cause of death | | |
| Source standards: | (NZ Mortality Data Dictionary, March 2009) | | |
| Data type: | Alphanumeric | Representational class: | Code |
| Field size: | 4 | Representational layout: | ANN.N |
| Obligation: | Optional | | |
| Data domain: | The International Statistical Classification of Diseases and Related Health Problems (Currently: Tenth Revision, Australian Modification (ICD-10-AM) – Sixth Edition) | | |
| Guide for use: | | | |
| Verification rules: | | | |

2.21 Clinical Coding System

| Definition: | The version number of clinical coding system used to record the underlying cause of death | | | | | | | | | | | | | | |
|----------------------------|--|---------------------------------|------|-------|---------|---|--------------|---|---------------|---|---------------|---|---------------|---|---------------|
| Source standards: | N/A | | | | | | | | | | | | | | |
| Data type: | Numeric | Representational class: | Code | | | | | | | | | | | | |
| Field size: | 2 | Representational layout: | NN | | | | | | | | | | | | |
| Obligation: | Conditional. Mandatory if Cause of death populated – otherwise optional. | | | | | | | | | | | | | | |
| Data domain: | Valid suffix to the International Statistical Classification of Diseases and Related Health Problems. | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ICD 9-CMA-II</td> </tr> <tr> <td>2</td> <td>ICD 10-AM 1.0</td> </tr> <tr> <td>3</td> <td>ICD 10-AM 2.0</td> </tr> <tr> <td>4</td> <td>ICD 10-AM 3.0</td> </tr> <tr> <td>5</td> <td>ICD 10-AM 6.0</td> </tr> </tbody> </table> | | | Value | Meaning | 1 | ICD 9-CMA-II | 2 | ICD 10-AM 1.0 | 3 | ICD 10-AM 2.0 | 4 | ICD 10-AM 3.0 | 5 | ICD 10-AM 6.0 |
| Value | Meaning | | | | | | | | | | | | | | |
| 1 | ICD 9-CMA-II | | | | | | | | | | | | | | |
| 2 | ICD 10-AM 1.0 | | | | | | | | | | | | | | |
| 3 | ICD 10-AM 2.0 | | | | | | | | | | | | | | |
| 4 | ICD 10-AM 3.0 | | | | | | | | | | | | | | |
| 5 | ICD 10-AM 6.0 | | | | | | | | | | | | | | |
| Guide for use: | | | | | | | | | | | | | | | |
| Verification rules: | | | | | | | | | | | | | | | |

2.22 *Date Last Known to be Alive*

| | | | |
|----------------------------|---|---------------------------------|--------------|
| Definition: | The date on which the patient was last known to be alive | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYY[MM[DD]] |
| Obligation: | Optional | | |
| Data domain: | Valid date | | |
| Guide for use: | The CCYY component of the date is mandatory. MM is conditional (use if known). DD is conditional (use if known and MM has been recorded). | | |
| Verification rules: | | | |

3 DIAGNOSIS

Contains details of each diagnosis recorded.

A note on staging: Cancer staging can be divided into a clinical stage and a pathologic stage. In the Tumour, Node, Metastasis (TNM) system, clinical stage and pathologic stage are denoted by a small "c" or "p" before the stage (e.g., cT3N1M0 or pT2N0).

- Clinical stage is based on all of the available information obtained before a surgery to remove the tumour. Thus, it may include information about the tumour obtained by physical examination, radiologic examination, and endoscopy.
- Pathologic stage adds additional information gained by examination of the tumour microscopically by a pathologist.

Because they use different information, clinical stage and pathologic stage are often different. Pathologic staging is usually considered the "better" or "truer" stage because it allows direct examination of the tumour and its spread, contrasted with clinical staging which is limited by the fact that the information is obtained by making indirect observations at a tumour which is still in the body. However, clinical staging and pathologic staging should complement each other. Not every tumour is treated surgically, so sometimes pathologic staging is not available. Also, sometimes surgery is preceded by other treatments such as chemotherapy and radiation therapy which shrink the tumour, so the pathologic stage may underestimate the true stage.

Cancer prognosis and survival can be related to the extent of the disease at diagnosis. Survival rates are generally higher if the disease is localised to the organ of origin compared with cases in which the tumour has spread beyond the primary site.

Staging systems seek to classify patients having a similar prognosis into groups or stages. TNM staging is an internationally agreed staging classification system based on the anatomical site of the primary tumour and its extent of spread. The T component refers to the size of the tumour and whether or not it has spread to surrounding tissues. The N component describes the presence or absence of tumour in regional lymph nodes. The M component refers to the presence or absence of tumour at sites distant from the primary site.

TNM staging applies to solid tumours excluding brain tumours.

The data elements for 'Diagnosis' are:

1. Diagnosis ID
2. NHI Number
3. Date of Initial Diagnosis
4. Basis of Initial Diagnosis
5. Date of Most Valid Basis of Diagnosis
6. Most Valid Basis of Diagnosis
7. Primary Site ICD
8. Clinical Coding System
9. Morphology ICD-0
10. Morphology Version Number
11. Histopathological Grade
12. Clinical T Stage
13. Clinical N Stage
14. Clinical M Stage
15. Pathological T Stage
16. Pathological N Stage
17. Pathological M Stage
18. TNM Edition Used
19. Overall TNM Stage Group

Interim Standard

- 20. Other Staging System
- 21. Other Staging System Overall Stage Group
- 22. Other Staging System Value

3.1 *Diagnosis ID*

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | Unique identifier for this record | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | System generated primary key for this record | | |
| Verification rules: | | | |

3.2 *NHI Number*

| | | | |
|----------------------------|---|---------------------------------|---------|
| Definition: | Unique 7-character identification number assigned to a healthcare user by the National Health Index (NHI) database. | | |
| Source standards: | (National Health Index Data Dictionary, v5.3, July 2009) | | |
| Data type: | Alphanumeric | Representational class: | Code |
| Field size: | 7 | Representational layout: | AAANNNN |
| Obligation: | Mandatory | | |
| Data domain: | Valid NHI number | | |
| Guide for use: | Foreign key to related record in the Patient entity | | |
| Verification rules: | | | |

3.3 *Date of Initial Diagnosis*

| | | | |
|--------------------------|--|---------------------------------|--------------|
| Definition: | The date of initial suspected diagnosis of cancer. | | |
| Source standards: | N/A | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYY[MM[DD]] |
| Obligation: | Conditional | | |
| Data domain: | Valid date | | |

| | |
|----------------------------|---|
| Guide for use: | Date of first suspected diagnosis as stated by a recognised medical practitioner or dentist. Note: This date may be found attached to a letter of referral or a patient's medical record from an institution or hospital. The CCYY component of the date is mandatory. MM is conditional (use if known). DD is conditional (use if known and MM has been recorded). |
| Verification rules: | >= Patient:Date of Birth <= Patient:Date of Death |

3.4 *Basis of Initial Diagnosis*¹

| | | | |
|----------------------------|---|---|------|
| Definition: | Knowledge of the basis of a diagnosis underlying a cancer code is one of the most important aids in assessing the reliability of cancer statistics. | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 2 | Representational layout: | NN |
| Obligation: | Conditional. Required if Date of Initial Diagnosis is populated otherwise not required. | | |
| Data domain: | Value | Meaning | |
| | 0 | Death certificate only: Information provided is from a death certificate | |
| | 1 | Clinical: Diagnosis made before death, but without any of the following (codes 2-7) | |
| | 2 | Clinical investigation: All diagnostic techniques, including x-ray, endoscopy, imaging, ultrasound, exploratory surgery (e.g. laparotomy), and autopsy, without a tissue diagnosis | |
| | 3 | Exploratory surgery / autopsy. NZ codes a small number of diagnoses to this value where the autopsy indicates cancer but there is no histology. | |
| | 4 | Specific tumour markers: Including biochemical and/or immunological markers that are specific for a tumour site | |
| | 5 | Cytology: Examination of cells from a primary or secondary site, including fluids aspirated by endoscopy or needle; also includes the microscopic examination of peripheral blood and bone marrow aspirates | |
| | 6 | Histology of metastasis: Histological examination of tissue from a metastasis, including autopsy specimens | |
| | 7 | Histology of a primary tumour: Histological examination of tissue from primary tumour, however obtained, including all cutting techniques and bone marrow biopsies; also includes autopsy specimens of primary tumour | |
| | 8 | Histology: either unknown whether of primary or metastatic site, or not otherwise specified | |
| | 9 | Unknown | |
| Guide for use: | | | |
| Verification rules: | | | |

¹ Selected Australian definition of NZCR definition

3.5 Date of Most Valid Basis of Diagnosis

| | | | |
|----------------------------|---|---------------------------------|--------------|
| Definition: | The date on which the patient was definitively diagnosed with a particular condition or disease. | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYY[MM[DD]] |
| Obligation: | Conditional | | |
| Data domain: | Valid date | | |
| Guide for use: | <p>The date of diagnosis is the date of the pathology report, if any, that first confirmed the diagnosis of cancer. This date may be found attached to a letter of referral or a patient's medical record from another institution or hospital. If this date is unavailable, or if no pathological test was done, then the date may be determined from one of the sources listed in the following sequence:</p> <ol style="list-style-type: none"> 1) Date of the consultation at, or admission to, the hospital, clinic or institution when the cancer was first diagnosed. Note: DO NOT use the admission date of the current admission if the patient had a prior diagnosis of this cancer. 2) Date of first diagnosis as stated by a recognised medical practitioner or dentist. Note: This date may be found attached to a letter of referral or a patient's medical record from an institution or hospital. 3) Date the patient states they were first diagnosed with cancer. Note: This may be the only date available in a few cases (for example, patient was first diagnosed in a foreign country). <p>The CCYY component of the date is mandatory. MM is conditional (use if known). DD is conditional (use if known and MM has been recorded).Diagnosis of cancer after death:</p> <p>If the patient is first diagnosed with the cancer in an autopsy report the date of diagnosis is the date of death as stated on the patient's death certificate.</p> <p>Incidental diagnosis of cancer:</p> <p>If a patient is admitted for another condition (for example a broken leg or pregnancy), and a cancer is diagnosed incidentally then the date of diagnosis is the date the cancer was diagnostically determined, not the admission date.</p> | | |
| Verification rules: | >= Patient:Date of Birth <= Patient:Date of Death | | |

3.6 *Most Valid Basis of Diagnosis²*

| | | | |
|--------------------------|--|---|------|
| Definition: | The basis of diagnosis of a cancer is the microscopic or non-microscopic or death certificate source of the diagnosis. The most valid basis of diagnosis is that accepted by the cancer registry as the most reliable diagnostic source of the death certificate, non-microscopic, and microscopic sources available. Knowledge of the basis of a diagnosis underlying a cancer code is one of the most important aids in assessing the reliability of cancer statistics. | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 2 | Representational layout: | NN |
| Obligation: | Mandatory | | |
| Data domain: | Value | Meaning | |
| | 0 | Death certificate only: Information provided is from a death certificate | |
| | 1 | Clinical: Diagnosis made before death, but without any of the following (codes 2-7) | |
| | 2 | Clinical investigation: All diagnostic techniques, including x-ray, endoscopy, imaging, ultrasound, exploratory surgery (e.g. laparotomy), and autopsy, without a tissue diagnosis | |
| | 3 | Exploratory surgery / autopsy. NZ codes a small number of diagnoses to this value where the autopsy indicates cancer but there is no histology. | |
| | 4 | Specific tumour markers: Including biochemical and/or immunological markers that are specific for a tumour site | |
| | 5 | Cytology: Examination of cells from a primary or secondary site, including fluids aspirated by endoscopy or needle; also includes the microscopic examination of peripheral blood and bone marrow aspirates | |
| | 6 | Histology of metastasis: Histological examination of tissue from a metastasis, including autopsy specimens | |
| | 7 | Histology of a primary tumour: Histological examination of tissue from primary tumour, however obtained, including all cutting techniques and bone marrow biopsies; also includes autopsy specimens of primary tumour | |
| | 8 | Histology: either unknown whether of primary or metastatic site, or not otherwise specified | |
| 9 | Unknown | | |

² Selected Australian definition of NZCR definition

| | |
|-----------------------------------|--|
| <p>Guide for use:</p> | <p>CODES 1 - 4 Non-microscopic. CODES 5 - 8 Microscopic. CODE 9 Other.</p> <p>In a hospital setting this metadata item should be collected on the most valid basis of diagnosis at this admission. If more than one diagnosis technique is used during an admission, select the most definitive technique.</p> <p>The most valid basis of diagnosis may be the initial histological examination of the primary site, or it may be the post-mortem examination (sometimes corrected even at this point when histological results become available). In a cancer registry setting, this metadata item should be revised if later information allows its upgrading.</p> <p>When considering the most valid basis of diagnosis, the minimum requirement of a cancer registry is differentiation between neoplasms that are verified microscopically and those that are not. To exclude the latter group means losing valuable information; the making of a morphological (histological) diagnosis is dependent upon a variety of factors, such as age, accessibility of the tumour, availability of medical services, and, last but not least, upon the beliefs of the patient.</p> <p>A biopsy of the primary tumour should be distinguished from a biopsy of a metastasis, e.g., at laparotomy; a biopsy of cancer of the head of the pancreas versus a biopsy of a metastasis in the mesentery. However, when insufficient information is available, Code 8 should be used for any histological diagnosis. Cytological and histological diagnoses should be distinguished.</p> <p>Morphological confirmation of the clinical diagnosis of malignancy depends on the successful removal of a piece of tissue that is cancerous. Especially when using endoscopic procedures (bronchoscopy, gastroscopy, laparoscopy, etc.), the clinician may miss the tumour with the biopsy forceps. These cases must be registered on the basis of endoscopic diagnosis and not excluded through lack of a morphological diagnosis.</p> <p>Care must be taken in the interpretation and subsequent coding of autopsy findings, which may vary as follows:</p> <ul style="list-style-type: none"> a) the post-mortem report includes the post-mortem histological diagnosis (in which case, one of the Histology codes should be recorded instead); b) the autopsy is macroscopic only, histological investigations having been carried out only during life (in which case, one of the Histology codes should be recorded instead); c) the autopsy findings are not supported by any histological diagnosis. |
| <p>Verification rules:</p> | |

3.7 Primary Site ICD

| | | | |
|----------------------------|---|---------------------------------|--------------------------------|
| Definition: | <p>The primary site is the site of origin of the tumour, as opposed to the secondary or metastatic sites. It is described by reporting the anatomical position (topography) of the tumour.</p> <p>Where the primary site is unknown, the site should be coded as C80 - Malignant neoplasm without specification of site.</p> <p>This information is collected for the purpose of:</p> <ul style="list-style-type: none"> • classifying tumours into clinically-relevant groupings on the basis of both their site of origin and their histological type • monitoring the number of new cases of cancer for planning treatment services • epidemiological studies | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Alphanumeric | Representational class: | Code |
| Field size: | 4 | Representational layout: | ANN.N Where A is 'C' or 'D' |
| Obligation: | Mandatory (check as per questions in Definition) | | |
| Data domain: | <p>The International Statistical Classification of Diseases and Related Health Problems, Tenth Revision, Australian Modification (ICD-10-AM) – Sixth Edition</p> <p>The National Centre for Classification in Health classification for diseases and related health problems</p> | | |
| Guide for use: | <p>Report the primary site of cancer, if known, for patients who have been diagnosed with a cancer. In ICD-10-AM (6th edition), primary site is identified using a single 4 digit code Cxx.x or Dxx.x.</p> <p>Where the primary site is unknown, the site should be coded as C80 - Malignant neoplasm without specification of site.</p> <p>In a hospital setting, primary site of cancer should be recorded on the patient's medical record by the patient's attending clinician or medical practitioner, and coded by the hospital's medical records department.</p> <p>In hospital reporting, the diagnosis code for each separate primary site cancer will be reported as a Principal diagnosis or an Additional diagnosis as defined in the current edition of the Australian Coding Standards. In death reporting, the Australian Bureau of Statistics uses ICD-10.</p> <p>Some ICD-10-AM (5th edition) diagnosis codes e.g. mesothelioma and Kaposi's sarcoma, are based on morphology and not site alone, and include tumours of these types even where the primary site is unknown.</p> <p>Expert group recommends that element should not be specific to ICD version and a separate element for recorded version should form part of the implementation detail.</p> | | |
| Verification rules: | Valid codes must start with C or D. | | |

3.8 *Clinical Coding System*

| Definition: | The version number of clinical coding system used to record the primary site of the malignancy | | | | | | | | | | | | | | |
|----------------------------|--|---------------------------------|------|-------|---------|---|--------------|---|---------------|---|---------------|---|---------------|---|---------------|
| Source standards: | N/A | | | | | | | | | | | | | | |
| Data type: | Numeric | Representational class: | Code | | | | | | | | | | | | |
| Field size: | 2 | Representational layout: | NN | | | | | | | | | | | | |
| Obligation: | Mandatory | | | | | | | | | | | | | | |
| Data domain: | Valid suffix to the International Statistical Classification of Diseases and Related Health Problems. | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ICD 9-CMA-II</td> </tr> <tr> <td>2</td> <td>ICD 10-AM 1.0</td> </tr> <tr> <td>3</td> <td>ICD 10-AM 2.0</td> </tr> <tr> <td>4</td> <td>ICD 10-AM 3.0</td> </tr> <tr> <td>5</td> <td>ICD 10-AM 6.0</td> </tr> </tbody> </table> | | | Value | Meaning | 1 | ICD 9-CMA-II | 2 | ICD 10-AM 1.0 | 3 | ICD 10-AM 2.0 | 4 | ICD 10-AM 3.0 | 5 | ICD 10-AM 6.0 |
| Value | Meaning | | | | | | | | | | | | | | |
| 1 | ICD 9-CMA-II | | | | | | | | | | | | | | |
| 2 | ICD 10-AM 1.0 | | | | | | | | | | | | | | |
| 3 | ICD 10-AM 2.0 | | | | | | | | | | | | | | |
| 4 | ICD 10-AM 3.0 | | | | | | | | | | | | | | |
| 5 | ICD 10-AM 6.0 | | | | | | | | | | | | | | |
| Guide for use: | | | | | | | | | | | | | | | |
| Verification rules: | | | | | | | | | | | | | | | |

3.9 *Morphology of Cancer ICD-O*

| | | | |
|----------------------------|--|---------------------------------|------|
| Definition: | The histological classification of the cancer tissue (histopathological type) | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) (World Health Organisation International Classification of Diseases Oncology, Third edition (ICD-O-3), 2000) | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 4 | Representational layout: | N(4) |
| Obligation: | Mandatory | | |
| Data domain: | The ICD-O (3rd edition) code set representing the histology of the cancer tissue. Because Primary Site uses ICD-10 there is no need to additionally record the behaviour of the cancer. | | |
| Guide for use: | <p>In ICD-O, morphology is a 4–digit number ranging from 8000 to 9989. Record morphology codes in accordance with ICD-O coding standards.</p> <p><u>Cancer registry use:</u></p> <p>Collection of this data item should only be from notification and pathology reports relating to initial diagnosis and not for recurrent or metastatic disease.</p> <p>Morphology information should be obtained from a pathology report or pathology system, and recorded with/on the patient's medical record and/or the hospital's patient administration system. Additional information may also be sought from the patient's attending clinician or medical practitioner. If the morphology differs on multiple pathology reports for the same tumour, use the value from the most representative tumour specimen examined. For example, if tumour is described as ductal on core biopsy but undifferentiated carcinoma on the excision specimen the morphology would be coded as undifferentiated carcinoma (a lower code) which has a less favourable diagnosis.</p> | | |
| Verification rules: | | | |

3.10 *Morphology Version Number*

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | The major version number of ICD-O used to record the histological classification of the cancer tissue (histopathological type) and a description of the course of development that a tumour is likely to take. | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 1 | Representational layout: | N |
| Obligation: | Mandatory | | |
| Data domain: | The ICD-O code set representing the histology and behaviour of cancer tissue. | | |
| Guide for use: | At the time of publication in New Zealand the ICD-O version number is 3 | | |
| Verification rules: | | | |

3.11 *Histopathological Grade*

| Definition: | The histopathological grade or differentiation describes how much the tumour resembles the normal tissue from which it arose, as represented by a code. For lymphohaematopoietic neoplasms (leukaemias and lymphomas) this data element is used to denote cell lineage. | | | | | | | | | | | | | | |
|----------------------------|---|---------------------------------|------|-------|---------|---|---|---|--|---|--|---|---------------------------------------|---|---|
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) (World Health Organisation International Classification of Diseases Oncology, Third edition (ICD-O-3), 2000) (Commission on Cancer, Standards of the Commission on Cancer Registry Operations and Data Standards (ROADS) Volume II, 1998) | | | | | | | | | | | | | | |
| Data type: | Numeric | Representational class: | Code | | | | | | | | | | | | |
| Field size: | 1 | Representational layout: | N | | | | | | | | | | | | |
| Obligation: | Mandatory | | | | | | | | | | | | | | |
| Data domain: | <table border="1"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Grade 1: Low grade; well differentiated</td> </tr> <tr> <td>2</td> <td>Grade 2: Intermediate grade, moderately differentiated, moderately well differentiated, intermediate differentiation</td> </tr> <tr> <td>3</td> <td>Grade 3: High grade, poorly differentiated</td> </tr> <tr> <td>4</td> <td>Grade 4: Undifferentiated, anaplastic</td> </tr> <tr> <td>9</td> <td>Grade/differentiation unknown: Grade/cell type not determined, not stated or not applicable</td> </tr> </tbody> </table> | | | Value | Meaning | 1 | Grade 1: Low grade; well differentiated | 2 | Grade 2: Intermediate grade, moderately differentiated, moderately well differentiated, intermediate differentiation | 3 | Grade 3: High grade, poorly differentiated | 4 | Grade 4: Undifferentiated, anaplastic | 9 | Grade/differentiation unknown: Grade/cell type not determined, not stated or not applicable |
| Value | Meaning | | | | | | | | | | | | | | |
| 1 | Grade 1: Low grade; well differentiated | | | | | | | | | | | | | | |
| 2 | Grade 2: Intermediate grade, moderately differentiated, moderately well differentiated, intermediate differentiation | | | | | | | | | | | | | | |
| 3 | Grade 3: High grade, poorly differentiated | | | | | | | | | | | | | | |
| 4 | Grade 4: Undifferentiated, anaplastic | | | | | | | | | | | | | | |
| 9 | Grade/differentiation unknown: Grade/cell type not determined, not stated or not applicable | | | | | | | | | | | | | | |
| Guide for use: | Only one code can be recorded. Where there is any doubt, or more than one value has been obtained, record the highest numeric value. For cancers for which histopathological grade is not relevant, choose 9 – Grade/differentiation unknown. | | | | | | | | | | | | | | |
| Verification rules: | | | | | | | | | | | | | | | |

3.12 *Clinical T Stage*

| | | | |
|----------------------------|--|---------------------------------|------|
| Definition: | T stage is the coding system used to identify the presence of primary tumour. It reflects the tumour size and extent of the primary cancer at the time of first therapeutic intervention. | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Alphanumeric | Representational class: | Text |
| Field size: | 5 | Representational layout: | X(5) |
| Obligation: | Conditional | | |
| Data domain: | Valid T codes from the current edition of the UICC TNM Classification of Malignant Tumours. Supplementary value: 88 Not applicable | | |
| Guide for use: | <p>Do not record the first character as “c” or “C”</p> <p>Refer to the UICC reference manual, TNM Classification of Malignant Tumours for coding rules.</p> <p>Choose the lower (less advanced) T category when there is any uncertainty.</p> <p>Collection of this data element is conditional on the disease site being listed in the UICC TNM classification.</p> <p>Clinical stage is based on all of the available information obtained before a surgery to remove the tumour. Thus, it may include information about the tumour obtained by physical examination, radiologic examination, and endoscopy.</p> <p>Pathologic stage adds additional information gained by examination of the tumour microscopically by a pathologist.</p> | | |
| Verification rules: | | | |

3.13 *Clinical N Stage*

| | | | |
|----------------------------|--|---------------------------------|------|
| Definition: | N stage is the coding system used to denote the absence or presence of regional lymph node metastases. It classifies the extent of regional lymph node metastases at the time of first therapeutic intervention. | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Alphanumeric | Representational class: | Text |
| Field size: | 5 | Representational layout: | X(5) |
| Obligation: | Conditional | | |
| Data domain: | Valid N codes from the current edition of the UICC TNM Classification of Malignant Tumours. Supplementary value: 88 Not applicable | | |
| Guide for use: | <p>Do not record the first character as “c” or “C”</p> <p>Refer to the UICC reference manual, TNM Classification of Malignant Tumours for coding rules.</p> <p>Choose the lower (less advanced) N category when there is any uncertainty.</p> <p>Collection of this data element is conditional on the disease site being listed in the UICC TNM classification.</p> <p>Clinical stage is based on all of the available information obtained before a surgery to remove the tumour. Thus, it may include information about the tumour obtained by physical examination, radiologic examination, and endoscopy.</p> <p>Pathologic stage adds additional information gained by examination of the tumour microscopically by a pathologist.</p> | | |
| Verification rules: | | | |

3.14 *Clinical M Stage*

| | | | |
|----------------------------|--|---------------------------------|------|
| Definition: | M stage is the coding system used to record the absence or presence of distant metastases at the time of first therapeutic intervention. | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Alphanumeric | Representational class: | Text |
| Field size: | 5 | Representational layout: | X(5) |
| Obligation: | Conditional | | |
| Data domain: | Valid M codes from the current edition of the UICC TNM Classification of Malignant Tumours. Supplementary value: 88 Not applicable | | |
| Guide for use: | <p>Do not record the first character as “c” or “C”</p> <p>Refer to the UICC reference manual, TNM Classification of Malignant Tumours for coding rules.</p> <p>Choose the lower (less advanced) M category when there is any uncertainty.</p> <p>Collection of this data element is conditional on the disease site being listed in the UICC TNM classification.</p> <p>Clinical stage is based on all of the available information obtained before a surgery to remove the tumour. Thus, it may include information about the tumour obtained by physical examination, radiologic examination, and endoscopy.</p> <p>Pathologic stage adds additional information gained by examination of the tumour microscopically by a pathologist.</p> | | |
| Verification rules: | | | |

3.15 Pathological T Stage

| | | | |
|----------------------------|--|---------------------------------|------|
| Definition: | T stage is the coding system used to identify the presence of primary tumour. It reflects the tumour size and extent of the primary cancer following resection. | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Alphanumeric | Representational class: | Text |
| Field size: | 5 | Representational layout: | X(5) |
| Obligation: | Conditional | | |
| Data domain: | Valid T codes from the current edition of the UICC TNM Classification of Malignant Tumours. Supplementary value: 88 Not applicable | | |
| Guide for use: | <p>Do not record the first character as “p” or “P”</p> <p>Refer to the UICC reference manual, TNM Classification of Malignant Tumours for coding rules.</p> <p>Collection of this data element is conditional on the disease site being listed in the UICC TNM classification.</p> <p>Clinical stage is based on all of the available information obtained before a surgery to remove the tumour. Thus, it may include information about the tumour obtained by physical examination, radiologic examination, and endoscopy.</p> <p>Pathologic stage adds additional information gained by examination of the tumour microscopically by a pathologist.</p> | | |
| Verification rules: | | | |

3.16 Pathological N Stage

| | | | |
|----------------------------|---|---------------------------------|------|
| Definition: | N stage is the coding system used to denote the absence or presence of regional lymph node metastases. It classifies the extent of regional lymph node metastases following resection. | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Alphanumeric | Representational class: | Text |
| Field size: | 7 | Representational layout: | X(7) |
| Obligation: | Conditional | | |
| Data domain: | Valid N codes from the current edition of the UICC TNM Classification of Malignant Tumours. Supplementary value: 88 Not applicable | | |
| Guide for use: | Do not record the first character as “p” or “P” Refer to the UICC reference manual, TNM Classification of Malignant Tumours for coding rules. Collection of this data element is conditional on the disease site being listed in the UICC TNM classification. Clinical stage is based on all of the available information obtained before a surgery to remove the tumour. Thus, it may include information about the tumour obtained by physical examination, radiologic examination, and endoscopy. Pathologic stage adds additional information gained by examination of the tumour microscopically by a pathologist. | | |
| Verification rules: | | | |

3.17 *Pathological M Stage*

| | | | |
|----------------------------|---|---------------------------------|------|
| Definition: | M stage is the coding system used to record the absence or presence of distant metastases following resection. | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Alphanumeric | Representational class: | Text |
| Field size: | 5 | Representational layout: | X(5) |
| Obligation: | Conditional | | |
| Data domain: | Valid M codes from the current edition of the UICC TNM Classification of Malignant Tumours. Supplementary value: 88 Not applicable | | |
| Guide for use: | Do not record the first character as “p” or “P” Refer to the UICC reference manual, TNM Classification of Malignant Tumours for coding rules. Collection of this data element is conditional on the disease site being listed in the UICC TNM classification. Clinical stage is based on all of the available information obtained before a surgery to remove the tumour. Thus, it may include information about the tumour obtained by physical examination, radiologic examination, and endoscopy. Pathologic stage adds additional information gained by examination of the tumour microscopically by a pathologist. | | |
| Verification rules: | | | |

3.18 *TNM Edition Used*

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | Edition number of staging system used. This definition is taken from the Australian dataset where it is used to capture the edition number of any staging system, not only TNM. | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 2 | Representational layout: | NN |
| Obligation: | Conditional. Optional if none of the TNM fields is populated. Mandatory if any of the TNM fields is populated. | | |
| Data domain: | Number, 1 - 87 88 Not applicable 99 Unknown edition | | |
| Guide for use: | Record the edition number | | |
| Verification rules: | | | |

3.19 Overall TNM Stage Group

| | | | |
|----------------------------|--|---------------------------------|------|
| Definition: | <p>The overall TNM score based on the UICC stage for the malignancy at the time of first therapeutic intervention.</p> <p>Clinical stage is based on evidence at the time of first therapeutic intervention from physical examination, imaging, endoscopy, biopsy, surgical exploration or other relevant examinations.</p> <p>Pathologic stage adds additional information gained by examination of the tumour microscopically by a pathologist.</p> <p>The anatomical extent of disease at the time of first therapeutic intervention based on the previously coded clinical and pathological T, N and M stage categories, as represented by a code.</p> | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Alphanumeric | Representational class: | Text |
| Field size: | 7 | Representational layout: | X(7) |
| Obligation: | Optional | | |
| Data domain: | <p>Current edition of the UICC TNM Classification of Malignant Tumours</p> <p>Supplementary values:</p> <p>8888 Not applicable</p> <p>9999 Unknown, Stage X</p> | | |
| Guide for use: | <p>Choose the lower (less advanced) T category when there is any uncertainty.</p> <p>Refer to the UICC reference manual, TNM Classification of Malignant Tumours for coding rules.</p> <p>Collect this data element from information provided by the treating doctor and recorded on the patient's medical record.</p> <p>Collection of this data element is conditional on the disease site being listed in the UICC TNM classification</p> | | |
| Verification rules: | Valid stage grouping codes from the current edition of the UICC TNM Classification of Malignant Tumours. | | |

3.20 Other Staging System

| | | | |
|----------------------------|---|---|------|
| Definition: | Staging classification system other than TNM. TNM is the most prevalent staging system and is regarded as worthy of its own data item(s) | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 2 | Representational layout: | NN |
| Obligation: | Optional | | |
| Data domain: | Value | Meaning | |
| | 2 | Durie & Salmon for multiple myeloma staging | |
| | 3 | FAB for leukaemia classification | |
| | 4 | Australian Clinico-pathological Staging (ACPS) system for colorectal cancer | |
| | 6 | Ann Arbor staging system for lymphomas | |
| | 7 | Binet Staging Classification for chronic lymphocytic leukemia | |
| | 8 | CML for chronic myeloid leukaemia | |
| | 10 | FIGO for gynaecological cancers | |
| | 11 | ISS for myeloma | |
| | 12 | Rai staging system for chronic lymphocytic leukaemia | |
| | 13 | Other | |
| Supplementary values: | | | |
| 99 | Unknown | | |
| Guide for use: | <p>It is recommended that the TNM manual of the International Union Against Cancer (UICC) be used for all applicable tumour sites. The classifications published in the American Joint Committee on Cancer (AJCC) Cancer Staging manual are identical to the TNM classifications of the UICC.</p> <p>TNM staging is not applicable to all tumour sites. Staging is of limited use in some cancers, for example haematological malignancies. In these cases use the most appropriate classification system.</p> <p>The NHMRC guidelines for the prevention, early detection and management of colorectal cancer (CRC) support the use of the Australian Clinico-Pathological Staging (ACPS) System. They recommend that both TNM and ACPS staging data be recorded to enable national and international comparisons. A table of correspondences between ACPS and TNM classifications is available.</p> <p>The current edition of each staging scheme should be used.</p> | | |
| Verification rules: | | | |

3.21 *Other Staging System Version*

| | | | |
|----------------------------|---|---------------------------------|-------|
| Definition: | Version number of staging classification system other than TNM. | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Alphanumeric | Representational class: | Text |
| Field size: | 10 | Representational layout: | X(10) |
| Obligation: | Optional | | |
| Data domain: | Supplementary value: 88 Not applicable | | |
| Guide for use: | Record the version number of the staging system used to stage this diagnosis of cancer. | | |
| Verification rules: | | | |

3.22 *Other Staging System Overall Stage Group*

| | | | |
|----------------------------|--|---------------------------------|-------|
| Definition: | This item describes the anatomical extent of disease at diagnosis based on stage categories of a staging classification other than the standard TNM classification. | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Alphanumeric | Representational class: | Text |
| Field size: | 10 | Representational layout: | X(10) |
| Obligation: | Conditional. Mandatory if "Other staging system" populated, otherwise optional. | | |
| Data domain: | Supplementary values: 8888888888 Not applicable 9999999999 Unknown | | |
| Guide for use: | Applies to all cancer stage groupings where a staging classification other than the standard TNM classification is used. A separate data element captures TNM stage grouping. Record valid stage grouping codes from the current edition of the appropriate staging source for the particular cancer. | | |
| Verification rules: | | | |

4 EPISODE OF CARE

The Episode of Care entity contains details of each Episode of Care. An Episode of Care is a period of treatment of an individual for a given malignancy where the intent remains the same. It may involve multiple modalities and multiple treatments within those modalities. The episode ends with relapse, intent change or death.

From a systems perspective, it is not possible to be certain when the last treatment for an Episode of Care has been delivered so it (last treatment) is not useful for determining episode end. Relapse and intent change trigger the start of a new Episode of Care and so the end of one Episode of Care can be determined by the start of the next Episode of Care. There is therefore no need to record the end date of an Episode of Care. Similarly, status at end of an Episode of Care can be determined by the status at the start of the next Episode of Care.

The data elements for 'Episode of Care' are:

1. Episode ID
2. Diagnosis ID
3. Episode Start Date
4. Intent
5. ECOG Status at Start of Episode
6. Referral Date
7. First Multi-disciplinary Meeting
8. Date of Recurrence or Progression
9. Basis of Diagnosis of Recurrence or Progression
10. Recurrence or progression

4.1 Episode ID

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | Unique identifier for this record | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | System generated primary key for this record | | |
| Verification rules: | | | |

4.2 Diagnosis ID

| | | | |
|--------------------------|---|---------------------------------|--------|
| Definition: | Unique identifier for the diagnosis to which this episode of care relates | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | Foreign key to related record in the Diagnosis entity | | |

| | |
|----------------------------|--|
| Verification rules: | |
|----------------------------|--|

4.3 *Episode Start Date*

| | | | |
|----------------------------|--|---------------------------------|-----------|
| Definition: | The start date of the first Episode of Care for this patient with this diagnosis should be the Date of Initial Diagnosis. (The date of initial suspected diagnosis of cancer). Start dates for subsequent episodes of care for this patient with this diagnosis should be the Date of Recurrence or Progression or change of intent. | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYYMMDD |
| Obligation: | Mandatory | | |
| Data domain: | Valid date | | |
| Guide for use: | | | |
| Verification rules: | Episode start date must be: >= Patient:Date of Birth <= Patient:Date of Death | | |

4.4 Intent

| Definition: | <p>The intention of the treatment for cancer for the particular patient</p> <p>This item is collected for surgical treatment, radiation therapy and systemic therapy agent treatment</p> <p>It is used for correlating outcome with original intent of the treatment</p> | | | | | | | | | | | | | | |
|----------------------------|---|---------------------------------|------|-------|---------|---|--------------|---|--------------------|---|--------------------------------------|---|------------------------|---|------------|
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | | | | | | | | | | | | | |
| Data type: | Numeric | Representational class: | Code | | | | | | | | | | | | |
| Field size: | 1 | Representational layout: | N | | | | | | | | | | | | |
| Obligation: | Mandatory | | | | | | | | | | | | | | |
| Data domain: | <table border="1"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Prophylactic</td> </tr> <tr> <td>2</td> <td>Curative treatment</td> </tr> <tr> <td>3</td> <td>Non-curative or palliative treatment</td> </tr> <tr> <td>0</td> <td>Did not have treatment</td> </tr> <tr> <td>9</td> <td>Not stated</td> </tr> </tbody> </table> | | | Value | Meaning | 1 | Prophylactic | 2 | Curative treatment | 3 | Non-curative or palliative treatment | 0 | Did not have treatment | 9 | Not stated |
| Value | Meaning | | | | | | | | | | | | | | |
| 1 | Prophylactic | | | | | | | | | | | | | | |
| 2 | Curative treatment | | | | | | | | | | | | | | |
| 3 | Non-curative or palliative treatment | | | | | | | | | | | | | | |
| 0 | Did not have treatment | | | | | | | | | | | | | | |
| 9 | Not stated | | | | | | | | | | | | | | |
| Guide for use: | <p>CODE 1 Prophylactic</p> <p>This code is used when the diagnosis is a cancer precursor or incipient form of cancer e.g. carcinoma in situ (CiS)</p> <p>Ductal carcinoma in situ (DCIS) of the breast is common and has a high probability of transforming into true cancer. Consequently, DCIS is treated aggressively usually with breast conserving surgery (lumpectomy) followed by radiotherapy. Hence the treatment is regarded as prophylactic because the invasive cancer has not yet developed.</p> <p>CODE 2 Curative</p> <p>This code is used when the intent of the treatment is to cure the disease</p> <p>CODE 3 Non-curative or Palliative</p> <p>This code is used when treatment is given primarily for control of the disease, prolongation of life or relief of symptoms</p> <p>CODE 0 Did not have treatment</p> <p>The patient did not have treatment because;</p> <ul style="list-style-type: none"> • They were under active non-intervention management • They declined treatment • They did not need treatment • Treatment would be of no clinical benefit <p>CODE 9 Intention was not stated</p> <p>Patient had treatment for cancer but the intention was not stated.</p> | | | | | | | | | | | | | | |
| Verification rules: | | | | | | | | | | | | | | | |

4.5 *ECOG Status at Start of Episode*

| | | | |
|----------------------------|---|---|------|
| Definition: | The performance status of the patient as defined by Eastern Cooperative Oncology Group (ECOG) This is the most recent ECOG status at the start of the episode | | |
| Source standards: | As published in Am. J. Clin. Oncol.: Oken, M.M., Creech, R.H., Tormey, D.C., Horton, J., Davis, T.E., McFadden, E.T., Carbone, P.P.: Toxicity And Response Criteria Of The Eastern Cooperative Oncology Group. Am J Clin Oncol 5:649-655, 1982. | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 1 | Representational layout: | N |
| Obligation: | Optional | | |
| Data domain: | Value | Meaning | |
| | 0 | Fully active, able to carry on all pre-disease performance without restriction | |
| | 1 | Restricted in physically strenuous activity but ambulatory and able to carry out work of a light or sedentary nature, e.g., light house work, office work | |
| | 2 | Ambulatory and capable of all self-care but unable to carry out any work activities. Up and about more than 50% of waking hours | |
| | 3 | Capable of only limited self-care, confined to bed or chair more than 50% of waking hours | |
| | 4 | Completely disabled. Cannot carry on any self-care. Totally confined to bed or chair | |
| | 5 | Dead | |
| | * Eastern Cooperative Oncology Group, Robert Comis M.D., Group Chair | | |
| Guide for use: | | | |
| Verification rules: | | | |

4.6 *Referral Date*

| | | | |
|----------------------------|---|---------------------------------|-----------|
| Definition: | The date the agency received a referral for this patient/client from another party for this episode of cancer care. | | |
| Source standards: | | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYYMMDD |
| Obligation: | Optional | | |
| Data domain: | Valid date | | |
| Guide for use: | | | |
| Verification rules: | Date of referral must be: > Patient: Date of Birth | | |

4.7 *First Multi-disciplinary Meeting Date*

| | | | |
|----------------------------|---|---------------------------------|--------------|
| Definition: | Date on which the patient was first discussed at a multi-disciplinary meeting. | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYY[MM[DD]] |
| Obligation: | Conditional | | |
| Data domain: | Valid date | | |
| Guide for use: | The CCYY component of the date is mandatory. MM is conditional (use if known). DD is conditional (use if known and MM has been recorded). | | |
| Verification rules: | | | |

4.8 *Date of Recurrence or Progression*

| | | | |
|----------------------------|--|---------------------------------|--------------|
| Definition: | The date a medical practitioner confirms the diagnosis of a recurrent or metastatic cancer of the same histology. | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYY[MM[DD]] |
| Obligation: | Conditional | | |
| Data domain: | Valid date | | |
| Guide for use: | <p>The term `recurrence' defines the return, reappearance or metastasis of cancer (of the same histology) after a disease free period.</p> <p>This item is collected for determining the time interval from diagnosis to recurrence, from treatment to recurrence and from recurrence to death.</p> <p>The CCYY component of the date is mandatory. MM is conditional (use if known). DD is conditional (use if known and MM has been recorded).</p> | | |
| Verification rules: | | | |

4.9 *Basis of Diagnosis of Recurrence or Progression*

| | | | |
|----------------------------|---|---|------|
| Definition: | Knowledge of the basis of a diagnosis underlying a cancer code is one of the most important aids in assessing the reliability of cancer statistics. | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 2 | Representational layout: | NN |
| Obligation: | Optional | | |
| Data domain: | Value | Meaning | |
| | 0 | Death certificate only: Information provided is from a death certificate | |
| | 1 | Clinical: Diagnosis made before death, but without any of the following (codes 2-7) | |
| | 2 | Clinical investigation: All diagnostic techniques, including x-ray, endoscopy, imaging, ultrasound, exploratory surgery (e.g. laparotomy), and autopsy, without a tissue diagnosis | |
| | 3 | Exploratory surgery / autopsy. NZ codes a small number of diagnoses to this value where the autopsy indicates cancer but there is no histology. | |
| | 4 | Specific tumour markers: Including biochemical and/or immunological markers that are specific for a tumour site | |
| | 5 | Cytology: Examination of cells from a primary or secondary site, including fluids aspirated by endoscopy or needle; also includes the microscopic examination of peripheral blood and bone marrow aspirates | |
| | 6 | Histology of metastasis: Histological examination of tissue from a metastasis, including autopsy specimens | |
| | 7 | Histology of a primary tumour: Histological examination of tissue from primary tumour, however obtained, including all cutting techniques and bone marrow biopsies; also includes autopsy specimens of primary tumour | |
| | 8 | Histology: either unknown whether of primary or metastatic site, or not otherwise specified | |
| 9 | Unknown | | |
| Guide for use: | | | |
| Verification rules: | | | |

4.10 *Recurrence or Progression*

| | | | |
|----------------------------|--|---------------------------------|------|
| Definition: | Extent of cancer that has recurred or progressed | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 1 | Representational layout: | N |
| Obligation: | Optional | | |
| Data domain: | Value | Meaning | |
| | 1 | Loco-regional | |
| | 2 | Distant | |
| Guide for use: | | | |
| Verification rules: | | | |

5 SURGERY

Contains details of surgical procedures performed as part of this Episode of Care.

Cancer surgery attempts to remove localised tumours completely or reduce the size of large tumours so that follow-up treatment by radiation or chemotherapy will be more effective. The surgery may be done as a diagnostic (staging) process as well as a treatment process, and these two processes may take place simultaneously. For that reason, the surgeon may remove the primary tumour, some normal tissue surrounding the tumour (to make sure that they get it all, and also to compare the cancer cells with the healthy cells to aid in diagnosis), the lymph nodes near the primary tumour (to detect and guard against the spread of individual cancer cells that may have already lodged in these lymph nodes), and any organs in the body that may already be affected by the cancer.

Sometimes the surgeon will take out not only the lymph nodes adjacent to the tumour but all the lymph nodes in the region. This may be done to check the spread of cancer or to determine whether the cancer has spread further than the clinical diagnostic tests have shown.

In addition to curative surgery, surgery may also be performed as a preventive measure (to remove precancerous conditions) and/or a palliative measure (to reduce pain and other symptoms).

The data elements for 'Surgery' are:

1. Surgery ID
2. Episode ID
3. Date of Procedure
4. Surgical Procedure
5. Clinical Coding System
6. Residual Disease
7. Health Facility
8. Clinical Trial

5.1 *Surgery ID*

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | Unique identifier for this record | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | System generated primary key for this record | | |
| Verification rules: | | | |

5.2 Episode ID

| | | | |
|----------------------------|---|---------------------------------|--------|
| Definition: | The identifier for the Episode of Care to which this surgical procedure relates | | |
| Source standards: | | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | Foreign key to related record in the Episode of Care entity | | |
| Verification rules: | | | |

5.3 Date of Procedure

| | | | |
|----------------------------|---|---------------------------------|-----------|
| Definition: | The date the procedure was performed | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYYMMDD |
| Obligation: | Mandatory | | |
| Data domain: | Valid date | | |
| Guide for use: | <p>The start date of the treatment is recorded regardless of whether treatment is completed as intended or not. Treatment subsequent to a recurrence will be recorded within a new episode of care</p> <p>This metadata item is collected for the analysis of outcome by treatment type.</p> <p>Collecting dates for treatment will allow evaluation of treatments delivered and of time intervals from diagnosis to treatment, from treatment to recurrence and from treatment to death.</p> | | |
| Verification rules: | <p>This field must be:</p> <p>>= Diagnosis:Date of Initial Diagnosis, and</p> <p><= Episode of Care: Episode End Date.</p> | | |

5.4 *Surgical Procedure*

| | | | |
|----------------------------|--|---------------------------------|----------|
| Definition: | The surgical procedure used in the treatment of the cancer. This item is collected for determining outcome by treatment type. | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 7 | Representational layout: | NNNNN-NN |
| Obligation: | Mandatory | | |
| Data domain: | The International Statistical Classification of Diseases and Related Health Problems, Tenth Revision, Australian Modification (ICD-10-AM) – Sixth Edition The National Centre for Classification in Health classification for diseases and related health problems | | |
| Guide for use: | Each surgical treatment procedure used in the treatment of the cancer should be recorded. Surgical procedures performed for diagnostic purposes only should not be included. Any systemic treatment which can be coded as a procedure through ICD-10-AM should be so coded (e.g., stem cell or bone marrow infusion). | | |
| Verification rules: | | | |

5.5 *Clinical Coding System*

| Definition: | The version number of clinical coding system used to record the surgical procedure | | | | | | | | | | | | | | |
|----------------------------|--|---------------------------------|------|-------|---------|---|--------------|---|---------------|---|---------------|---|---------------|---|---------------|
| Source standards: | N/A | | | | | | | | | | | | | | |
| Data type: | Numeric | Representational class: | Code | | | | | | | | | | | | |
| Field size: | 2 | Representational layout: | NN | | | | | | | | | | | | |
| Obligation: | Mandatory | | | | | | | | | | | | | | |
| Data domain: | Valid suffix to the International Statistical Classification of Diseases and Related Health Problems. | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ICD 9-CMA-II</td> </tr> <tr> <td>2</td> <td>ICD 10-AM 1.0</td> </tr> <tr> <td>3</td> <td>ICD 10-AM 2.0</td> </tr> <tr> <td>4</td> <td>ICD 10-AM 3.0</td> </tr> <tr> <td>5</td> <td>ICD 10-AM 6.0</td> </tr> </tbody> </table> | | | Value | Meaning | 1 | ICD 9-CMA-II | 2 | ICD 10-AM 1.0 | 3 | ICD 10-AM 2.0 | 4 | ICD 10-AM 3.0 | 5 | ICD 10-AM 6.0 |
| Value | Meaning | | | | | | | | | | | | | | |
| 1 | ICD 9-CMA-II | | | | | | | | | | | | | | |
| 2 | ICD 10-AM 1.0 | | | | | | | | | | | | | | |
| 3 | ICD 10-AM 2.0 | | | | | | | | | | | | | | |
| 4 | ICD 10-AM 3.0 | | | | | | | | | | | | | | |
| 5 | ICD 10-AM 6.0 | | | | | | | | | | | | | | |
| Guide for use: | | | | | | | | | | | | | | | |
| Verification rules: | | | | | | | | | | | | | | | |

5.6 *Residual Disease*

| | | | |
|----------------------------|--|---------------------------------|------|
| Definition: | Describes the disease remaining at the site on completion of the procedure | | |
| Source standards: | (NZ Cancer Registry Data Dictionary, March 2004) | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 1 | Representational layout: | N |
| Obligation: | Optional | | |
| Data domain: | Value | Meaning | |
| | 1 | R0 – No residual | |
| | 2 | R1 – Microscopic | |
| | 3 | R2 - Macroscopic | |
| Guide for use: | | | |
| Verification rules: | | | |

5.7 *Health Facility*

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | <p>A code that uniquely identifies a healthcare facility.</p> <p>A healthcare facility is a place, which may be a permanent, temporary, or mobile structure that healthcare users attend or are resident in for the primary purpose of receiving healthcare or disability support services. This definition excludes supervised hostels, halfway houses, staff residences, and rest homes where the rest home is the patient's usual place of residence.</p> | | |
| Source standards: | N/A | | |
| Data type: | Alphanumeric | Representational class: | Code |
| Field size: | 6 | Representational layout: | FXXNNN |
| Obligation: | Mandatory | | |
| Data domain: | See the HISO 10006 HPI Code Set Facility Code Table at http://www.ithealthboard.health.nz/hpi for a list of valid values | | |
| Guide for use: | <p>F is a constant prefix. X is either an alpha or a numeric.</p> <p>The Facility Identifier is assigned by the HPI system at the time that the facility record in the HPI is created.</p> | | |
| Verification rules: | | | |

5.8 *Clinical Trial*

| | | | |
|----------------------------|--|---------------------------------|-----|
| Definition: | True if patient was included in a clinical trial | | |
| Source standards: | 2004 | | |
| Data type: | Boolean | Representational class: | N/A |
| Field size: | 1 | Representational layout: | Y |
| Obligation: | Mandatory | | |
| Data domain: | Y / N | | |
| Guide for use: | | | |
| Verification rules: | | | |

6 RADIATION

Contains details of radiation therapy performed as part of this Episode of Care.

Radiation therapy is the use of ionising radiation to kill cancer cells and shrink tumours. Radiation therapy injures or destroys cells in the area being treated by damaging their genetic material, making it impossible for these cells to continue to grow and divide. The goal of radiation therapy is to damage as many cancer cells as possible, while limiting harm to nearby healthy tissue.

About half of all cancer patients receive some type of radiation therapy. Radiation therapy may be used alone or in combination with other cancer treatments, such as chemotherapy or surgery. In some cases, a patient may receive more than one type of radiation therapy.

Radiation may come from a machine outside the body (external radiation), may be placed inside the body (internal radiation or brachytherapy), or may use unsealed radioactive materials that go throughout the body (systemic radiation therapy). The type of radiation to be given depends on the type of cancer, its location, how far into the body the radiation will need to go, the patient's general health and medical history, whether the patient will have other types of cancer treatment, and other factors.

The data elements for 'Radiation Therapy' are:

1. Radiation ID
2. Episode ID
3. Radiation Type
4. Start Date
5. End Date
6. Treatment Site
7. Brachytherapy Dose Rate
8. Radiation Dose
9. Radiation Unit
10. Number of Fractions
11. Health Facility
12. Clinical Trial

6.1 Radiation ID

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | Unique identifier for this record | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | System generated primary key for this record | | |
| Verification rules: | | | |

6.2 *Episode ID*

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | The identifier for the Episode of Care to which this radiation therapy relates | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | Foreign key to related record in the Episode of Care entity | | |
| Verification rules: | | | |

6.3 *Radiation Type*

| Definition: | <p>The type of radiation therapy used in treatment of the cancer, as represented by a code.</p> <p>This metadata item is collected for the analysis of outcome by treatment type.</p> | | | | | | | | | | | | |
|----------------------------|--|---------------------------------|---------|---|---------------------------------------|---|--------------------------------------|---|------------------------|---|---|--|--|
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | | | | | | | | | | | |
| Data type: | Numeric | Representational class: | Code | | | | | | | | | | |
| Field size: | 1 | Representational layout: | N | | | | | | | | | | |
| Obligation: | Mandatory | | | | | | | | | | | | |
| Data domain: | <table border="1"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>External radiotherapy treatment given</td> </tr> <tr> <td>2</td> <td>Brachytherapy (radioactive implants)</td> </tr> <tr> <td>3</td> <td>Unsealed radioisotopes</td> </tr> <tr> <td>9</td> <td>Radiotherapy was administered but method was not stated</td> </tr> </tbody> </table> | Value | Meaning | 1 | External radiotherapy treatment given | 2 | Brachytherapy (radioactive implants) | 3 | Unsealed radioisotopes | 9 | Radiotherapy was administered but method was not stated | | |
| Value | Meaning | | | | | | | | | | | | |
| 1 | External radiotherapy treatment given | | | | | | | | | | | | |
| 2 | Brachytherapy (radioactive implants) | | | | | | | | | | | | |
| 3 | Unsealed radioisotopes | | | | | | | | | | | | |
| 9 | Radiotherapy was administered but method was not stated | | | | | | | | | | | | |
| Guide for use: | <p>If codes 1, 2, 3 or 9 are used, the amount of radiation received should also be collected in data item 6.8 – Radiation Dose.</p> <p>Most external beam radiotherapy is delivered on an outpatient basis.</p> <p>CODE 2 Brachytherapy (radioactive implants)</p> <p>This code is likely to be listed as a procedure for admitted patients.</p> | | | | | | | | | | | | |
| Verification rules: | | | | | | | | | | | | | |

6.4 *Start Date*

| | | | |
|--------------------------|------------------------------------|---------------------------------|-----------|
| Definition: | The date the treatment was started | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYYMMDD |
| Obligation: | Mandatory | | |
| Data domain: | Valid date | | |

| | |
|----------------------------|--|
| Guide for use: | <p>The start date is for the start date of this instance of radiation therapy. Each instance of radiation therapy in a course of radiation therapy should be recorded separately and have its own start and end dates.</p> <p>The start date of the treatment is recorded regardless of whether treatment is completed as intended or not. Treatment subsequent to a recurrence will be recorded within a new episode of care</p> <p>This metadata item is collected for the analysis of outcome by treatment type.</p> <p>Collecting dates for treatment will allow evaluation of treatments delivered and of time intervals from diagnosis to treatment, from treatment to recurrence and from treatment to death.</p> |
| Verification rules: | <p>This field must be:</p> <p>>= Diagnosis:Date of Initial Diagnosis, and <= Episode of Care: Episode End Date.</p> |

6.5 *End Date*

| | | | |
|----------------------------|---|---------------------------------|-----------|
| Definition: | The date the treatment was completed | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYYMMDD |
| Obligation: | Optional | | |
| Data domain: | Valid date | | |
| Guide for use: | <p>This item is collected for the analysis of outcome by treatment type.</p> <p>Collecting dates for treatment will allow evaluation of treatments delivered and of time intervals from diagnosis to treatment, from treatment to recurrence and from treatment to death.</p> | | |
| Verification rules: | <p>This field must be:</p> <p>>= Diagnosis:Date of Initial Diagnosis, and <= Episode of Care: Episode End Date.</p> | | |

6.6 *Radiotherapy Treatment Site*

| | | | |
|----------------------------|--|---------------------------------|------|
| Definition: | The anatomical site or region which is the target of radiotherapy treatment | | |
| Source standards: | Developed by Core Cancer Data Definitions Work Group, 2010 | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 3 | Representational layout: | NNN |
| Obligation: | Mandatory | | |
| Data domain: | ICD sites codes grouped into less specific sites more suited to describing the anatomical site or region which is the target of radiotherapy treatment. Refer Appendix B for values. | | |
| Guide for use: | This information is collected for radiotherapy treatments only as specific ICD site and procedure codes are regarded as suitable for surgical interventions only. | | |
| Verification rules: | | | |

6.7 *Brachytherapy Dose Rate*

| | | | |
|----------------------------|--|---|------|
| Definition: | The prescribed dose rate of a brachytherapy course | | |
| Source standards: | NHS Health and Social Care Data Dictionary 2009 | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 2 | Representational layout: | NN |
| Obligation: | Conditional. Mandatory if 6.3 - Radiation type = 2 (Brachytherapy) otherwise not required. | | |
| Data domain: | Value | Meaning | |
| | 1 | Low/medium dose rate. Involves delivering radiation continuously over a prescribed extended period (days or months) | |
| | 2 | High dose rate in which radiation is given e.g.1-3 times per day for 5-10 minutes for 3-5 days | |
| | 99 | Not known or not recorded | |
| Guide for use: | | | |
| Verification rules: | This item should be available only if 6.3 - Radiation Type = 2 (Brachytherapy) | | |

6.8 Radiation Dose

| | | | |
|----------------------------|---|---------------------------------|---------|
| Definition: | The dose of radiation a person receives during the course of treatment for cancer measured in Gray (Gy) or Megabecquerel (MBq) | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 5 | Representational layout: | N[NNNN] |
| Obligation: | Mandatory | | |
| Data domain: | Radiation dose in Gray (Gy) or Megabecquerel (MBq) Supplementary values: 99999 Radiation therapy was administered but the dose is unknown | | |
| Guide for use: | <p>The International Commission on Radiation Units (ICRU) recommends recording doses at the axis point where applicable (opposed fields, four field box, wedged pairs and so on). The ICRU50 reference dose should be recorded for photon therapy if available, otherwise a description of the received dose at the centre of the planning target volume.</p> <p>The ICRU58 should be recorded for brachytherapy.</p> <p>For maximum consistency in this field the ICRU recommendations should be followed whenever possible.</p> <p>Multiple entries are permitted.</p> <p>If all radiotherapy, is given by external beam, the final highest total reference dose should be recorded.</p> <p>If a boost is given with a different modality, for example, brachytherapy, then the brachytherapy dose should be recorded separately to the external beam dose.</p> | | |
| Verification rules: | | | |

6.9 Radiation Unit

| | | | |
|----------------------------|---|---------------------------------|------|
| Definition: | The unit of measurement for the Radiation Dose data item | | |
| Source standards: | | | |
| Data type: | Numeric | Representational class: | Code |
| Field size: | 1 | Representational layout: | N |
| Obligation: | Mandatory | | |
| Data domain: | Value | Meaning | |
| | 1 | Gray (Gy) | |
| | 2 | Megabecquerels (MBq) | |
| Guide for use: | <p>Use code 2 (Megabecquerels) where the Radiation Type is "Unsealed radioisotopes"</p> <p>Use code 1 (Gray) for all other forms of radiation therapy</p> | | |
| Verification rules: | | | |

6.10 *Number of Fractions*

| | | | |
|----------------------------|---|---------------------------------|--------|
| Definition: | The total number of radiotherapy treatment sessions (fractions) administered during the course of treatment. | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 2 | Representational layout: | NN |
| Obligation: | Mandatory | | |
| Data domain: | Total number of radiotherapy treatment sessions (fractions) administered Supplementary values: 99 Radiation therapy was administered but the number of fractions is unknown. | | |
| Guide for use: | The total number of treatment sessions (fractions) is the sum of the number of fractions of radiotherapy treatment and the number of boost treatments. Record the total number of radiotherapy fractions delivered to the patient during the course of treatment for cancer. The number of fractions delivered is recorded regardless of whether treatment is completed as intended or not and regardless of the intent of treatment. | | |
| Verification rules: | Valid values are: 1 to 99 | | |

6.11 *Health Facility*

| | | | |
|----------------------------|---|---------------------------------|--------|
| Definition: | A code that uniquely identifies a healthcare facility. A healthcare facility is a place, which may be a permanent, temporary, or mobile structure that healthcare users attend or are resident in for the primary purpose of receiving healthcare or disability support services. This definition excludes supervised hostels, halfway houses, staff residences, and rest homes where the rest home is the patient's usual place of residence. | | |
| Source standards: | N/A | | |
| Data type: | Alphanumeric | Representational class: | Code |
| Field size: | 6 | Representational layout: | FXXNNN |
| Obligation: | Mandatory | | |
| Data domain: | See the HISO 10006 HPI Code Set Facility Code Table at http://www.thehealthboard.health.nz/hpi for a list of valid values | | |
| Guide for use: | F is a constant prefix. X is either an alpha or a numeric. The Facility Identifier is assigned by the HPI system at the time that the facility record in the HPI is created. | | |
| Verification rules: | | | |

Interim Standard

6.12 *Clinical Trial*

| | | | |
|----------------------------|--|---------------------------------|-----|
| Definition: | True if patient was included in a clinical trial | | |
| Source standards: | 2004 | | |
| Data type: | Boolean | Representational class: | N/A |
| Field size: | 1 | Representational layout: | Y |
| Obligation: | Mandatory | | |
| Data domain: | Y or N | | |
| Guide for use: | | | |
| Verification rules: | | | |

7 CHEMOTHERAPY

Contains details of chemotherapy performed as part of this Episode of Care.

Chemotherapy is a treatment that uses drugs designed to destroy or prevent further growth of cancer cells. Chemotherapy treatment is a systemic therapy, meaning that the drugs flow through the bloodstream to nearly every part of the body.

Often, two or more chemotherapy drugs are used in combination to enhance their effectiveness. Chemotherapy drugs can be used in combination with surgery or radiation therapy. Chemotherapy given before surgery and/or radiation is called neoadjuvant chemotherapy. Chemotherapy given with radiation or after surgery is known as adjuvant chemotherapy.

Chemotherapy drugs may be given for several reasons:

- To treat cancers that respond well to chemotherapy
- To decrease the size of tumours for easier and safer removal by surgery
- To enhance the cancer-killing effectiveness of other treatments, such as radiation therapy
- In higher dosages, to overcome the resistance of cancer cells
- To control the cancer and enhance the patient's quality of life

The data elements for 'Chemotherapy' are:

1. Chemotherapy ID
2. Episode ID
3. Start Date
4. End Date
5. Clinical Trial

7.1 Chemotherapy ID

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | Unique identifier for this record | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | System generated primary key for this record | | |
| Verification rules: | | | |

7.2 Episode ID

| | | | |
|--------------------------|---|---------------------------------|--------|
| Definition: | The identifier for the Episode of Care to which this chemotherapy relates | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | Foreign key to related record in the Episode of Care entity | | |

| | |
|----------------------------|--|
| Verification rules: | |
|----------------------------|--|

7.3 *Start Date*

| | | | |
|----------------------------|---|---------------------------------|-----------|
| Definition: | The date the treatment was started | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYYMMDD |
| Obligation: | Mandatory | | |
| Data domain: | Valid date | | |
| Guide for use: | <p>The start date of the treatment is recorded regardless of whether treatment is completed as intended or not. Treatment subsequent to a recurrence will be recorded within a new episode of care</p> <p>This metadata item is collected for the analysis of outcome by treatment type.</p> <p>Collecting dates for treatment will allow evaluation of treatments delivered and of time intervals from diagnosis to treatment, from treatment to recurrence and from treatment to death.</p> | | |
| Verification rules: | <p>This field must be:</p> <p>>= Diagnosis:Date of Initial Diagnosis, and</p> <p><= Episode of Care: Episode End Date.</p> | | |

7.4 *End Date*

| | | | |
|----------------------------|---|---------------------------------|-----------|
| Definition: | The date the treatment was completed | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYYMMDD |
| Obligation: | Optional | | |
| Data domain: | Valid date | | |
| Guide for use: | <p>This item is collected for the analysis of outcome by treatment type.</p> <p>Collecting dates for treatment will allow evaluation of treatments delivered and of time intervals from diagnosis to treatment, from treatment to recurrence and from treatment to death.</p> | | |
| Verification rules: | <p>This field must be:</p> <p>>= Diagnosis:Date of Initial Diagnosis, and</p> <p><= Episode of Care: Episode End Date.</p> | | |

Interim Standard

7.5 *Clinical Trial*

| | | | |
|----------------------------|--|---------------------------------|-----|
| Definition: | True if patient was included in a clinical trial | | |
| Source standards: | 2004 | | |
| Data type: | Boolean | Representational class: | N/A |
| Field size: | 1 | Representational layout: | Y |
| Obligation: | Mandatory | | |
| Data domain: | Y / N | | |
| Guide for use: | | | |
| Verification rules: | | | |

8 CHEMOTHERAPY DISPENSED

Contains details

The data elements for 'Chemotherapy' are:

1. Chemotherapy Dispensed ID
2. Chemotherapy ID
3. Chemotherapy Agent ID
4. Clinical Trial

8.1 Chemotherapy Dispensed ID

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | Unique identifier for this record | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | System generated primary key for this record | | |
| Verification rules: | | | |

8.2 Chemotherapy ID

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | The identifier for the Chemotherapy record to which this chemotherapy dispensed record relates | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | Foreign key to related record in the Chemotherapy entity | | |
| Verification rules: | | | |

8.3 *Chemotherapy Agent ID*

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | The identifier for the chemotherapy agent used in this session of chemotherapy. | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | New Zealand Universal List of Medicines (NZULM) | | |
| Guide for use: | Create one record for each chemotherapy agent used in this session of chemotherapy | | |
| Verification rules: | | | |

8.4 *Health Facility*

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | <p>A code that uniquely identifies a healthcare facility.</p> <p>A healthcare facility is a place, which may be a permanent, temporary, or mobile structure that healthcare users attend or are resident in for the primary purpose of receiving healthcare or disability support services. This definition excludes supervised hostels, halfway houses, staff residences, and rest homes where the rest home is the patient's usual place of residence.</p> | | |
| Source standards: | N/A | | |
| Data type: | Alphanumeric | Representational class: | Code |
| Field size: | 6 | Representational layout: | FXXNNN |
| Obligation: | Mandatory | | |
| Data domain: | See the HISO 10006 HPI Code Set Facility Code Table at http://www.ithealthboard.health.nz/hpi for a list of valid values | | |
| Guide for use: | <p>F is a constant prefix. X is either an alpha or a numeric.</p> <p>The Facility Identifier is assigned by the HPI system at the time that the facility record in the HPI is created.</p> | | |
| Verification rules: | | | |

9 TARGETED THERAPY

Contains details of targeted therapy performed as part of this Episode of Care.

Targeted therapy is a general term that refers to a medication or drug that targets a specific pathway in the growth and development of a tumour. By attacking or blocking these important targets, the therapy helps to fight the tumour itself. The targets themselves are typically various molecules in the body that are known or suspected to play a role in cancer formation.

Hormone therapy is a significant form of targeted therapy. The use of hormone therapy to treat cancer is based on the observation that receptors for specific hormones that are needed for cell growth are on the surface of some tumour cells. Hormone therapy can work by stopping the production of a certain hormone, blocking hormone receptors, or substituting chemically similar agents for the active hormone, which cannot be used by the tumour cell.

The data elements for 'Targeted therapy' are:

1. Targeted Therapy ID
2. Episode ID
3. Start Date
4. End Date
5. Targeted Therapy Agent
6. Health Facility
7. Clinical Trial

9.1 Targeted Therapy ID

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | Unique identifier for this record | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | System generated primary key for this record | | |
| Verification rules: | | | |

9.2 Episode ID

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | The identifier for the intervention to which this targeted therapy relates | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | Foreign key to related record in the Episode of Care entity | | |
| Verification rules: | | | |

9.3 *Start Date*

| | | | |
|----------------------------|---|---------------------------------|-----------|
| Definition: | The date the treatment was started | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYYMMDD |
| Obligation: | Mandatory | | |
| Data domain: | Valid date | | |
| Guide for use: | <p>The start date of the treatment is recorded regardless of whether treatment is completed as intended or not. Treatment subsequent to a recurrence will be recorded within a new episode of care</p> <p>This metadata item is collected for the analysis of outcome by treatment type.</p> <p>Collecting dates for treatment will allow evaluation of treatments delivered and of time intervals from diagnosis to treatment, from treatment to recurrence and from treatment to death.</p> | | |
| Verification rules: | <p>This field must be:</p> <p>>= Diagnosis:Date of Initial Diagnosis, and</p> <p><= Episode of Care: Episode End Date.</p> | | |

9.4 *End Date*

| | | | |
|----------------------------|---|---------------------------------|-----------|
| Definition: | The date the treatment was completed | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYYMMDD |
| Obligation: | Optional | | |
| Data domain: | Valid date | | |
| Guide for use: | <p>This item is collected for the analysis of outcome by treatment type.</p> <p>Collecting dates for treatment will allow evaluation of treatments delivered and of time intervals from diagnosis to treatment, from treatment to recurrence and from treatment to death.</p> | | |
| Verification rules: | <p>This field must be:</p> <p>>= Diagnosis:Date of Initial Diagnosis, and</p> <p><= Episode of Care: Episode End Date.</p> | | |

9.5 Targeted Therapy Agent

| | | | |
|--------------------------|--|---------------------------------|----------------------------|
| Definition: | The name of the targeted treatment agent used during the course of treatment for cancer. | | |
| Source standards: | (Cancer Clinical Data Set Specification, Australian Government METeOR, 2007) | | |
| Data Type | Numeric | Representational class: | Code |
| Field size: | 2 | Representational layout: | NN |
| Obligation: | Mandatory | | |
| Data domain: | Value | Agent | Class |
| | 1 | Aminoglutethimide | Adrenal Steroid Inhibitors |
| | 2 | Anastrozole | Aromatase Inhibitors |
| | 3 | Bicalutamide | Anti-androgens |
| | 4 | Cyproterone Acetate | Anti-androgens |
| | 5 | Degarelix | GnRH antagonist |
| | 6 | DES(diethylstilbestrol) | Estrogens |
| | 7 | Estradiol(estrace) | Estrogens |
| | 8 | Exemestane | Aromatase Inhibitors |
| | 9 | Fluoxymesterone | Androgens |
| | 10 | Flutamide | Anti-androgens |
| | 11 | Fulvestrant | Anti-estrogens |
| | 12 | Goserelin acetate | LHRH agonists |
| | 13 | Hydroxyprogesterone caproate | Pro-gestational agent |
| | 14 | Ietrozole | Aromatase Inhibitors |
| | 15 | Leuprolide acetate | LHRH agonists |
| | 16 | Medroxyprogesterone acetate | Pro-gestational agent |
| | 17 | Megestrol | Pro-gestational agent |
| | 18 | Mitotane | Adrenal Steroid Inhibitors |
| | 19 | Nilutamide | Anti-androgens |
| | 20 | Premarin | Estrogens |
| | 21 | Progestins | Pro-gestational agent |
| | 22 | Reloxifene | SERMs |
| | 23 | Tamoxifen | Anti-estrogens |
| | 24 | Testolactone | Androgens |
| | 25 | Testosterone | Androgens |
| | 26 | Toremifene | Anti-estrogens |
| | 27 | Triptorelin pamoate | LHRH agonists |
| | 99 | Other | |
| | | | Main Site |
| | | | Breast/Prostate |
| | | | Breast |
| | | | Breast |
| | | | Prostate |
| | | | Prostate |
| | | | Prostate |
| | | | Breast |
| | | | Breast |
| | | | Breast/Prostate |
| | | | Breast |
| | | | Breast/Prostate |
| | | | Breast |
| | | | Breast/Prostate |
| | | | Breast |
| | | | Breast |
| | | | Breast |
| | | | Breast |
| | | | Breast/Prostate |
| | | | |

| | |
|----------------------------|--|
| Guide for use: | <p>Hormone therapy is cancer treatment that achieves its antitumour effect through changes in hormonal balance. This includes the administration of hormones, agents acting via hormonal mechanisms, antihormones and steroids.</p> <p>Hormone therapy agent names and protocols may be derived from CiSCat or MIMS.</p> <p>Each hormone therapy agent used during the initial treatment of the cancer should be recorded.</p> <p>Systemic therapy often involves treatment with a combination of agents. These may be known by acronyms but since details of drugs and acronyms may vary it is recommended that each agent be recorded separately.</p> <p>The name each hormone therapy agent given as initial treatment is recorded regardless of whether treatment is completed as intended and of the intent or timing of the chemotherapy in relation to surgery.</p> <p>Oral hormone therapy normally given on an outpatient basis should also be included.</p> <p>The full, generic name of any agent should be recorded; if a generic name is not available because the drug is new and under patent protection; record the brand name.</p> <p>The name(s) of other systemic treatment agents are collected as separate data items.</p> <p>This information should be collected from the patient's medical record.</p> |
| Verification rules: | |

9.6 Health Facility

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | <p>A code that uniquely identifies a healthcare facility.</p> <p>A healthcare facility is a place, which may be a permanent, temporary, or mobile structure that healthcare users attend or are resident in for the primary purpose of receiving healthcare or disability support services. This definition excludes supervised hostels, halfway houses, staff residences, and rest homes where the rest home is the patient's usual place of residence.</p> | | |
| Source standards: | N/A | | |
| Data type: | Alphanumeric | Representational class: | Code |
| Field size: | 6 | Representational layout: | FXXNNN |
| Obligation: | Mandatory | | |
| Data domain: | See the HISO 10006 HPI Code Set Facility Code Table at http://www.ithealthboard.health.nz/hpi for a list of valid values | | |
| Guide for use: | <p>F is a constant prefix. X is either an alpha or a numeric.</p> <p>The Facility Identifier is assigned by the HPI system at the time that the facility record in the HPI is created.</p> | | |
| Verification rules: | | | |

Interim Standard

9.7 *Clinical Trial*

| | | | |
|----------------------------|--|---------------------------------|-----|
| Definition: | True if patient was included in a clinical trial | | |
| Source standards: | 2004 | | |
| Data type: | Boolean | Representational class: | N/A |
| Field size: | 1 | Representational layout: | Y |
| Obligation: | Mandatory | | |
| Data domain: | Y / N | | |
| Guide for use: | | | |
| Verification rules: | | | |

10 OTHER THERAPY

Contains details of other therapy performed as part of this Episode of Care.

Targeted therapy is a general term that refers to a medication or drug that targets a specific pathway in the growth and development of a tumour. By attacking or blocking these important targets, the therapy helps to fight the tumour itself. The targets themselves are typically various molecules in the body that are known or suspected to play a role in cancer formation.

Other therapy types include Gene Therapy which supplies cells with healthy copies of missing or altered genes. Viruses are used as vectors to introduce the genetic material to cells.

The data elements for 'Other therapy' are:

1. Other Therapy ID
2. Episode ID
3. Start Date
4. End Date
5. Other Therapy Type
6. Health Facility
7. Clinical Trial

10.1 Other Therapy ID

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | Unique identifier for this record | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | System generated primary key for this record | | |
| Verification rules: | | | |

10.2 Episode ID

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | The identifier for the Episode to which this therapy relates | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | Foreign key to related record in the Episode of Care entity | | |
| Verification rules: | | | |

10.3 Start Date

| | | | |
|----------------------------|---|---------------------------------|-----------|
| Definition: | The date the treatment was started | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYYMMDD |
| Obligation: | Mandatory | | |
| Data domain: | Valid date | | |
| Guide for use: | <p>The start date of the treatment is recorded regardless of whether treatment is completed as intended or not. Treatment subsequent to a recurrence will be recorded within a ne episode of care.</p> <p>This metadata item is collected for the analysis of outcome by treatment type.</p> <p>Collecting dates for treatment will allow evaluation of treatments delivered and of time intervals from diagnosis to treatment, from treatment to recurrence and from treatment to death.</p> | | |
| Verification rules: | <p>This field must be:</p> <p>>= Diagnosis:Date of Initial Diagnosis, and</p> <p><= Episode of Care: Episode End Date.</p> | | |

10.4 End Date

| | | | |
|----------------------------|---|---------------------------------|-----------|
| Definition: | The date the treatment was completed | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYYMMDD |
| Obligation: | Optional | | |
| Data domain: | Valid date | | |
| Guide for use: | <p>This item is collected for the analysis of outcome by treatment type.</p> <p>Collecting dates for treatment will allow evaluation of treatments delivered and of time intervals from diagnosis to treatment, from treatment to recurrence and from treatment to death.</p> | | |
| Verification rules: | <p>This field must be:</p> <p>>= Diagnosis:Date of Initial Diagnosis, and</p> <p><= Episode of Care: Episode End Date.</p> | | |

10.5 Other Therapy Type

| Definition: | Cancer treatment that is not surgery, radiotherapy, chemotherapy or hormone therapy | | | | | | | | | | | | | | | | |
|----------------------------|--|---------------------------------|---------|---|---------------|---|------------------------------------|---|---------------------------|---|--------------|---|---------------------------------|---|-----------------------------------|--|--|
| Source standards: | | | | | | | | | | | | | | | | | |
| Data type: | Numeric | Representational class: | Code | | | | | | | | | | | | | | |
| Field size: | 2 | Representational layout: | NN | | | | | | | | | | | | | | |
| Obligation: | Mandatory | | | | | | | | | | | | | | | | |
| Data domain: | <table border="1"> <thead> <tr> <th>Value</th> <th>Meaning</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Immunotherapy</td> </tr> <tr> <td>2</td> <td>Anti-angiogenesis molecule therapy</td> </tr> <tr> <td>3</td> <td>Apoptosis Inducer therapy</td> </tr> <tr> <td>4</td> <td>Gene therapy</td> </tr> <tr> <td>5</td> <td>Differentiation inducer therapy</td> </tr> <tr> <td>6</td> <td>Stem cell transplantation therapy</td> </tr> </tbody> </table> | Value | Meaning | 1 | Immunotherapy | 2 | Anti-angiogenesis molecule therapy | 3 | Apoptosis Inducer therapy | 4 | Gene therapy | 5 | Differentiation inducer therapy | 6 | Stem cell transplantation therapy | | |
| Value | Meaning | | | | | | | | | | | | | | | | |
| 1 | Immunotherapy | | | | | | | | | | | | | | | | |
| 2 | Anti-angiogenesis molecule therapy | | | | | | | | | | | | | | | | |
| 3 | Apoptosis Inducer therapy | | | | | | | | | | | | | | | | |
| 4 | Gene therapy | | | | | | | | | | | | | | | | |
| 5 | Differentiation inducer therapy | | | | | | | | | | | | | | | | |
| 6 | Stem cell transplantation therapy | | | | | | | | | | | | | | | | |
| Guide for use: | | | | | | | | | | | | | | | | | |
| Verification rules: | | | | | | | | | | | | | | | | | |

10.6 Health Facility

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | <p>A code that uniquely identifies a healthcare facility.</p> <p>A healthcare facility is a place, which may be a permanent, temporary, or mobile structure that healthcare users attend or are resident in for the primary purpose of receiving healthcare or disability support services. This definition excludes supervised hostels, halfway houses, staff residences, and rest homes where the rest home is the patient's usual place of residence.</p> | | |
| Source standards: | N/A | | |
| Data type: | Alphanumeric | Representational class: | Code |
| Field size: | 6 | Representational layout: | FXXNNN |
| Obligation: | Mandatory | | |
| Data domain: | See the HISO 10006 HPI Code Set Facility Code Table at http://www.ithealthboard.health.nz/hpi for a list of valid values | | |
| Guide for use: | <p>F is a constant prefix. X is either an alpha or a numeric.</p> <p>The Facility Identifier is assigned by the HPI system at the time that the facility record in the HPI is created.</p> | | |
| Verification rules: | | | |

Interim Standard

10.7 *Clinical Trial*

| | | | |
|----------------------------|--|---------------------------------|-----|
| Definition: | True if patient was included in a clinical trial | | |
| Source standards: | 2004 | | |
| Data type: | Boolean | Representational class: | N/A |
| Field size: | 1 | Representational layout: | Y |
| Obligation: | Mandatory | | |
| Data domain: | Y / N | | |
| Guide for use: | | | |
| Verification rules: | | | |

11 NON-INTERVENTION MANAGEMENT

Non-intervention Management is an expectant approach pending a change in the patient's circumstances requiring intervention. It is a period of active management rather than unmanaged non-treatment.

The data elements for 'Non-intervention Management' are:

1. Non-intervention ID
2. Episode ID
3. Start Date
4. End Date
5. Other Therapy Type
6. Health Facility
7. Clinical Trial

11.1 Non-intervention ID

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | Unique identifier for this record | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | System generated primary key for this record | | |
| Verification rules: | | | |

11.2 Episode ID

| | | | |
|----------------------------|--|---------------------------------|--------|
| Definition: | The identifier for the Episode to which this non-intervention management relates | | |
| Source standards: | N/A | | |
| Data type: | Numeric | Representational class: | Number |
| Field size: | 11 | Representational layout: | N(11) |
| Obligation: | Mandatory | | |
| Data domain: | Number | | |
| Guide for use: | Foreign key to related record in the Episode of Care entity | | |
| Verification rules: | | | |

11.3 Start Date

| | | | |
|--------------------------|--|--------------------------------|-----------|
| Definition: | The date the non-intervention management started | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |

| | | | |
|----------------------------|--|---------------------------------|----------|
| Field size: | 8 | Representational layout: | CCYYMMDD |
| Obligation: | Mandatory | | |
| Data domain: | Valid date | | |
| Guide for use: | <p>This metadata item is collected for the analysis of outcome by treatment type.</p> <p>Collecting dates for treatment will allow evaluation of treatments delivered and of time intervals from diagnosis to treatment, from treatment to recurrence and from treatment to death.</p> | | |
| Verification rules: | <p>This field must be:</p> <p>= Diagnosis: Date of Most Valid Basis of Diagnosis</p> | | |

11.4 *End Date*

| | | | |
|----------------------------|---|---------------------------------|-----------|
| Definition: | The date the non-intervention management finished | | |
| Source standards: | HL7 v2.4 DT – date | | |
| Data type: | Date | Representational class: | Full date |
| Field size: | 8 | Representational layout: | CCYYMMDD |
| Obligation: | Optional | | |
| Data domain: | Valid date | | |
| Guide for use: | <p>This item is collected for the analysis of outcome by treatment type.</p> <p>Collecting dates for treatment will allow evaluation of treatments delivered and of time intervals from diagnosis to treatment, from treatment to recurrence and from treatment to death.</p> | | |
| Verification rules: | <p>This field must be:</p> <p>= start date of first treatment received after the start of this instance of non-intervention management or the start of the next episode of care – whichever is the earlier.</p> | | |

11.5 Health Facility

| | | | |
|----------------------------|---|---------------------------------|--------|
| Definition: | A code that uniquely identifies a healthcare facility. A healthcare facility is a place, which may be a permanent, temporary, or mobile structure that healthcare users attend or are resident in for the primary purpose of receiving healthcare or disability support services. This definition excludes supervised hostels, halfway houses, staff residences, and rest homes where the rest home is the patient's usual place of residence. | | |
| Source standards: | N/A | | |
| Data type: | Alphanumeric | Representational class: | Code |
| Field size: | 6 | Representational layout: | FXXNNN |
| Obligation: | Mandatory | | |
| Data domain: | See the HISO 10006 HPI Code Set Facility Code Table at http://www.ihealthboard.health.nz/hpi for a list of valid values | | |
| Guide for use: | F is a constant prefix. X is either an alpha or a numeric. The Facility Identifier is assigned by the HPI system at the time that the facility record in the HPI is created. | | |
| Verification rules: | | | |

11.6 Clinical Trial

| | | | |
|----------------------------|--|---------------------------------|-----|
| Definition: | True if patient was included in a clinical trial | | |
| Source standards: | 2004 | | |
| Data type: | Boolean | Representational class: | N/A |
| Field size: | 1 | Representational layout: | Y |
| Obligation: | Mandatory | | |
| Data domain: | Y / N | | |
| Guide for use: | | | |
| Verification rules: | | | |

12 GLOSSARY

| Term | Definition |
|------------------------------------|---|
| AIHW | Australian Institute of Health and Welfare |
| AJCC | American Joint Committee on Cancer |
| Anti-angiogenesis molecule therapy | Systemic therapy that, unlike other chemotherapy, harms cancer cells but does not harm other cells that divide quickly |
| Apoptosis inducer therapy | Systemic therapy that induces cell death in cancer cells |
| CIS | Carcinoma in situ |
| DCIS | Ductal carcinoma in situ |
| Differentiation inducer therapy | Systemic therapy in which the malignant cells are treated so that they can resume the process of maturation and differentiation into mature cells |
| ECOG | Eastern Cooperative Oncology Group |
| Gene therapy | Therapy to supply cells with healthy copies of missing or altered genes. Viruses are used as vectors to introduce the genetic material to cells. |
| Gray | Unit of measurement for forms of radiation other than unsealed radioisotopes |
| Histopathology | The microscopic study of diseased tissue |
| ICD | International Classification of Diseases |
| ICRU | International Commission on Radiation Units |
| Immunotherapy | Stimulation of the patient's immune system to attack the malignant tumour cells that are responsible for the disease. This can be either through immunisation of the patient, in which case the patient's own immune system is trained to recognize tumour cells as targets to be destroyed, or through the administration of therapeutic antibodies as drugs, in which case the patient's immune system is recruited to destroy tumour cells by the therapeutic antibodies |
| Megabequerels | Unit of measurement for unsealed radioisotopes |
| METeOR | An application maintained by the Australian Institute of Health and Welfare where metadata is stored, managed and disseminated. |
| Morphology | Description of the structure and origin of cancer cells |
| NHI | National Health Index – unique identifier for NZ health care users |
| Recurrence | Defines the return, reappearance or metastasis of cancer (of the same histology) after a disease free period |
| Stage | The extent of a cancer, especially whether the disease has spread from the original site to other parts of the body |
| Targeted Therapy | Targeted therapy is a general term that refers to a medication or drug that targets a specific pathway in the growth and development of a tumour. |
| TNM | Tumour, Node, Metastasis - staging system that describes the extent of cancer |
| UICC | International Union Against Cancer |

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APPENDIX A. – LEVEL 4 ETHNICITY

| Code | Description |
|-------|-----------------------|
| 37111 | Admiralty Islander |
| 44411 | Afghani |
| 53116 | African American |
| 53199 | African nec |
| 53100 | African nfd |
| 12949 | Afrikaner |
| 32111 | Aitutaki Islander |
| 12911 | Albanian |
| 51111 | Algerian |
| 12943 | American |
| 43117 | Anglo Indian |
| 51112 | Arab |
| 52111 | Argentinian |
| 12912 | Armenian |
| 44499 | Asian nec |
| 40000 | Asian nfd |
| 51113 | Assyrian |
| 32112 | Atiu Islander |
| 37113 | Austral Islander |
| 12811 | Australian |
| 37112 | Australian Aboriginal |
| 12913 | Austrian |
| 37134 | Banaban |
| 44412 | Bangladeshi |
| 12914 | Belgian |
| 12916 | Belorussian |
| 43111 | Bengali |
| 37115 | Bismark Archipelagoan |
| 52112 | Bolivian |
| 12516 | Bosnian |
| 37116 | Bougainvillean |
| 52113 | Brazilian |
| 12199 | British nec |
| 12100 | British nfd |
| 12915 | Bulgarian |
| 12944 | Burgher |
| 41411 | Burmese |

| Code | Description |
|-------|-----------------------|
| 12513 | Macedonian |
| 37125 | Malaitian |
| 41414 | Malay |
| 42113 | Malaysian Chinese |
| 12930 | Maltese |
| 52122 | Malvinian |
| 32113 | Mangaia Islander |
| 32114 | Manihiki Islander |
| 37126 | Manus Islander |
| 12117 | Manx |
| 21111 | Māori |
| 37127 | Marianas Islander |
| 37128 | Marquesas Islander |
| 37129 | Marshall Islander |
| 32115 | Mauke Islander |
| 61115 | Mauritian |
| 52123 | Mexican |
| 51199 | Middle Eastern nec |
| 51100 | Middle Eastern nfd |
| 32116 | Mitiaro Islander |
| 51122 | Moroccan |
| 37130 | Nauruan |
| 44413 | Nepalese |
| 37131 | New Britain Islander |
| 12947 | New Caledonian |
| 37132 | New Georgian |
| 37133 | New Irelander |
| 11111 | New Zealand European |
| 61118 | New Zealander |
| 37145 | Ni Vanuatu |
| 52124 | Nicaraguan |
| 53115 | Nigerian |
| 34111 | Niuean |
| 61113 | North American Indian |
| 12931 | Norwegian |
| 99999 | Not Stated |
| 51123 | Omani |

Interim Standard

| Code | Description |
|-------|-------------------------|
| 41211 | Cambodian |
| 42112 | Cambodian Chinese |
| 12945 | Canadian |
| 37117 | Caroline Islander |
| 12111 | Celtic nfd |
| 61111 | Central American Indian |
| 37121 | Chamorro |
| 12112 | Channel Islander |
| 52114 | Chilean |
| 42199 | Chinese nec |
| 42100 | Chinese nfd |
| 52115 | Colombian |
| 32100 | Cook Islands Maori nfd |
| 12113 | Cornish |
| 12917 | Corsican |
| 52116 | Costa Rican |
| 12511 | Croatian |
| 12918 | Cypriot nfd |
| 12919 | Czech |
| 12512 | Dalmatian |
| 12920 | Danish |
| 94444 | Don't Know |
| 12211 | Dutch |
| 37118 | Easter Islander |
| 52118 | Ecuadorian |
| 51114 | Egyptian |
| 12114 | English |
| 53120 | Eritrean |
| 12921 | Estonian |
| 53121 | Ethiopian |
| 44416 | Eurasian |
| 12999 | European nec |
| 10000 | European nfd |
| 12946 | Falkland Islander |
| 36111 | Fijian |
| 43112 | Fijian Indian |
| 41111 | Filipino |
| 12922 | Finnish |
| 12923 | Flemish |

| Code | Description |
|-------|-------------------------|
| 12118 | Orkney Islander |
| 61199 | Other Ethnicity nec |
| 37199 | Pacific Peoples nec |
| 30000 | Pacific Peoples nfd |
| 44414 | Pakistani |
| 37114 | Palau Islander |
| 51124 | Palestinian |
| 32117 | Palmerston Islander |
| 52125 | Panamanian |
| 37135 | Papua New Guinean |
| 52126 | Paraguayan |
| 32118 | Penrhyn Islander |
| 52127 | Peruvian |
| 37136 | Phoenix Islander |
| 37137 | Pitcairn Islander |
| 12411 | Polish |
| 12932 | Portuguese |
| 52128 | Puerto Rican |
| 32119 | Pukapuka Islander |
| 43115 | Punjabi |
| 32120 | Rakahanga Islander |
| 32121 | Rarotongan |
| 95555 | Refused to Answer |
| 96666 | Repeated Value |
| 98888 | Response Outside Scope |
| 97777 | Response Unidentifiable |
| 12933 | Romanian |
| 37138 | Rotuman |
| 12935 | Russian |
| 31111 | Samoan |
| 37139 | Santa Cruz Islander |
| 12936 | Sardinian |
| 12119 | Scottish |
| 12514 | Serbian |
| 61116 | Seychellois |
| 12120 | Shetland Islander |
| 43116 | Sikh |
| 42114 | Singaporean Chinese |
| 44111 | Sinhalese |

| Code | Description |
|-------|-----------------------|
| 12924 | French |
| 12115 | Gaelic |
| 37119 | Gambier Islander |
| 12711 | German |
| 53122 | Ghanaian |
| 12311 | Greek |
| 12925 | Greenlander |
| 37120 | Guadalcanalian |
| 52119 | Guatemalan |
| 43113 | Gujarati |
| 52120 | Guyanese |
| 12934 | Gypsy |
| 37122 | Hawaiian |
| 52121 | Honduran |
| 42111 | Hong Kong Chinese |
| 12926 | Hungarian |
| 12927 | Icelandic |
| 43199 | Indian nec |
| 43100 | Indian nfd |
| 43114 | Indian Tamil |
| 41412 | Indonesian |
| 61112 | Inuit |
| 51115 | Iranian/Persian |
| 51116 | Iraqi |
| 12116 | Irish |
| 51117 | Israeli/Jewish |
| 12611 | Italian |
| 53113 | Jamaican |
| 44211 | Japanese |
| 51118 | Jordanian |
| 37123 | Kanak |
| 53114 | Kenyan |
| 37124 | Kiribati |
| 44311 | Korean |
| 51119 | Kurd |
| 41413 | Laotian |
| 52117 | Latin American Creole |
| 52199 | Latin American nec |
| 52100 | Latin American nfd |

| Code | Description |
|-------|------------------------|
| 12937 | Slavic |
| 12938 | Slovak |
| 12515 | Slovenian |
| 37141 | Solomon Islander |
| 53119 | Somali |
| 61117 | South African Coloured |
| 12948 | South African nec |
| 61114 | South American Indian |
| 12599 | South Slav nec |
| 12500 | South Slav nfd |
| 41499 | Southeast Asian nec |
| 41000 | Southeast Asian nfd |
| 12939 | Spanish |
| 44199 | Sri Lankan nec |
| 44100 | Sri Lankan nfd |
| 44112 | Sri Lankan Tamil |
| 12940 | Swedish |
| 12941 | Swiss |
| 51125 | Syrian |
| 37140 | Tahitian |
| 42116 | Taiwanese |
| 41415 | Thai |
| 44415 | Tibetan |
| 35111 | Tokelauan |
| 33111 | Tongan |
| 37142 | Torres Strait Islander |
| 37143 | Tuamotu Islander |
| 51126 | Tunisian |
| 51127 | Turkish |
| 37144 | Tuvaluan |
| 53117 | Ugandan |
| 12942 | Ukrainian |
| 53112 | United States Creole |
| 52129 | Uruguayan |
| 52130 | Venezuelan |
| 41311 | Vietnamese |
| 42115 | Vietnamese Chinese |
| 37146 | Wake Islander |
| 37147 | Wallis Islander |

Interim Standard

| Code | Description |
|-------|-------------|
| 12928 | Latvian |
| 51120 | Lebanese |
| 51121 | Libyan |
| 12929 | Lithuanian |
| | |

| Code | Description |
|-------|--------------|
| 12121 | Welsh |
| 53118 | West Indian |
| 37148 | Yap Islander |
| 51128 | Yemeni |
| 12950 | Zimbabwean |

APPENDIX B. – RADIATION THERAPY TREATMENT SITE

| Site ID | Site Description | Mapped to ICD-10 |
|---------|---|---|
| 1 | ACCESSORY, SINUSES, MIDDLE & INNER EAR | C30.1, C31.0-C31.3, C31.8-C31.9 |
| 2 | ADRENAL GLANDS | C74.0, C74.1, C74.9 |
| 3 | ANAL CANAL & ANUS | C21.0, C21.1,C21.2, C21.8 |
| 4 | APPENDIX | C18.1 |
| 5 | BLOOD, BONE MARROW, & HEMATOPOIETIC SYS | C81-C96 |
| 6 | BONES & JOINTS | C40.0-C40.3, C40.8-C41.4, C41.8-C41.9 |
| 7 | BRAIN, & CRANIAL NERVES, & SPINAL CORD, (EXCL. VENTRICLE, CEREBELLUM) | C71.0-C71.4, C71.7-C71.9, C72.0-C72.5 |
| 8 | BREAST | C50.0-C50.6, C50.8-C50.9 |
| 9 | CEREBELLUM | C71.6 |
| 10 | CERVIX UTERI | C53.0-C53.1,C53.8-C53.9 |
| 11 | CONNECTIVE & SOFT TISSUE | C47.0-C47.6, C47.8-C47.9, C49.0-C49.6, C49.8-C49.9 |
| 12 | CORPUS UTERI | C54.0-C54.3, C54.8-C54.9 |
| 13 | CRANIOPHARYNGEAL DUCT | C75.2 |
| 14 | EPIDIDYMIS, SPERMATIC CORD, MALE GENITAL, NOS | C63.0, C6.31, C63.7-C63.9 |
| 15 | OESOPHAGUS | C15.0-C15.5,C15.8-C15.9 |
| 16 | EYE, NOS | C69.9 |
| 17 | EYEBALL | C69.4 |
| 18 | GALLBLADDER & EXTRAHEPATIC BILE DUCTS | C23, C24, C24.0-C24.1, C24.8-C24.9 |
| 19 | GUM, FLOOR OF MOUTH, & OTHER MOUTH | C03.0-C03.1, C03.9-C04.1, C04.8-C05.2, C05.8-C06.2, C06.8-C06.9 |
| 20 | HEART | C38.0 |
| 21 | HEMI-BODY | |
| 22 | HYPOPHARYNX | C13.0-C13.2,C13.8-C13.9 |
| 23 | ILL-DEFINED | C76.0-C76.8 |
| 24 | INTRAHEPATIC BILE DUCTS | C22.1 |
| 25 | KIDNEY | C64 |
| 26 | LARGE INTESTINE, (EXCL. APPENDIX) | C18.0, C18.2-C18.9, C19 |
| 27 | LARYNX | C32.0-C32.3, C32.8-C32.9 |
| 28 | LIP | C00.0-C00.6,C00.8-C00.9 |
| 29 | LIVER | C22.0 |
| 30 | LUNG & BRONCHUS | C34, C34.0-C34.3, C34.8-C34.9 |
| 31 | LYMPH NODES | C77, C77.0-C77.5, C77.8-C77.9 |
| 32 | MEDIASTINUM | C38.1-C38.3, C38.8 |
| 33 | MENINGES (CEREBRAL,SPINAL) | C70.0-C70.1, C70.9 |
| 34 | NASAL CAVITY (INCLUDING NASAL CARTILAGE) | C30.0 |
| 35 | NASOPHARYNX | C11.0-C11.3, C11.8-C11.9 |

Interim Standard

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| 36 | ORBIT & LACRIMAL GLAND, (EXCL. RETINA, EYE, NOS) | C69.0-C69.1, C69.3, C69.5-C69.8 |
| 37 | OROPHARYNX | C09.0-C09.1, C09.8-C10.4, C10.8-C10.9 |
| 38 | OTHER ENDOCRINE GLANDS | C75.4-C75.5, C75.8-C75.9 |
| 39 | OTHER FEMALE GENITAL | C57.0-C57.4, C57.7-C57.9 |
| 40 | OTHER NERVOUS SYSTEM | C72.8-C72.9 |
| 41 | OTHER URINARY ORGANS | C68.0-C68.1, C68.8-C68.9 |
| 42 | OVARY | C56 |
| 43 | PANCREAS | C25.0-C25.4, C25.7-C25.9 |
| 44 | PARATHYROID GLAND | C75.0 |
| 45 | PENIS & SCROTUM | C60.0-C60.2, C60.8-C60.9, C63.2 |
| 46 | PHARYNX | C14.0, C14.2, C14.8 |
| 47 | PINEAL GLAND | C75.3 |
| 48 | PITUITARY GLAND | C75.1 |
| 49 | PLACENTA | C58 |
| 50 | PLEURA | C38.4 |
| 51 | PROSTATE GLAND | C61 |
| 52 | RECTUM | C20 |
| 53 | RENAL PELVIS, URETER | C65, C66 |
| 54 | RESPIRATORY, NOS | C39.0, C39.8-C39.9 |
| 55 | RETINA | C69.2 |
| 56 | RETROPERITONEUM & PERITONEUM | C48.0-C48.2, C48.8 |
| 57 | SALIVARY GLAND | C07, C08.0-C08.1, C08.8-C08.9 |
| 58 | SKIN | C44.0-C44.9 |
| 59 | SMALL INTESTINE | C17.0-C17.3, C17.8-C17.9 |
| 60 | SPLEEN | C26.1 |
| 61 | STOMACH | C16.0-C16.6, C16.8-C16.9 |
| 62 | TESTIS | C62.0-C62.1, C62.9 |
| 63 | THYMUS | C37 |
| 64 | THYROID GLAND | C73 |
| 65 | TONGUE | C01, C02.0-C02.4, C02.8-C02.9 |
| 66 | TOTAL BODY | |
| 67 | TRACHEA | C33 |
| 68 | UNKNOWN | C80.9 |
| 69 | UNSPECIFIED DIGEST. ORGANS | C26.0, C26.8-C26.9 |
| 70 | URINARY BLADDER | C67.0-C67.9 |
| 71 | UTERUS, NOS | C55 |
| 72 | VAGINA & LABIA | C51.0-C51.2, C51.8-51.9, C52 |
| 73 | VENTRICLE | C71.5 |
| 74 | VULVA, NOS | C51.9 |