

# **Data Dictionary**



# Welcome to the ANZGOSA Audit Data Dictionary

The ANZGOSA Audit is a bi-national audit, with data collected from practising surgeons in the Australian and New Zealand Gastric and Oesophageal Surgical Association (ANZGOSA). The aim of the audit is to collect and store both clinical and pathological data of patients undergoing resection for upper gastro-intestinal cancer and gastrointestinal stromal tumours (GIST).

The audit database is a resource for surgeons to easily analyse their own practice data and compare their results against national and international benchmarks. It will also aid in the development of best practice standards and guidelines for best practice in upper gastrointestinal cancer surgery. Finally, the data will be used for research at a publication level as well as disseminating information to surgeons and the general public where appropriate.

### Data collected

The audit collects data on patients undergoing surgical resection for cancers of the oesophagus (oesophageal tumours) and stomach (gastric tumours) and GIST. If a patient does not undergo surgery or the primary tumour is anything other than gastric or oesophageal cancer or GIST, the case should not be recorded. A gastrointestinal stromal tumour should be recorded if it is found in the stomach, oesophagus or small bowel.

Please ensure that all relevant data items are completed as cases with missing fields will be marked as incomplete and may not be included in any data analysis. It is expected that surgeons may have some incomplete cases in the system while waiting on 30 day mortality and readmission data, however this information must be entered once available or the case will remain incomplete.

# How to use this data dictionary

The data dictionary provides information on the data types, coding and definitions for each item in the dataset, as well as instructions on how to answer each question.

The dictionary is ordered according to the structure of the dataset. That is, you will encounter each data item in the dictionary in the same order you would encounter them as you enter data into the database. A table of contents is included prior to the data item entries; however, if you are searching for one particular data item, it may be simpler to use the alphabetical index located at the end of the dictionary.

If there is any doubt as to how to answer one of the questions in the dataset, in the first instance, check this data dictionary. If still unsure, you can contact the help desk at <a href="mailto:anzgosa.audit@surgeons.org">anzgosa.audit@surgeons.org</a> or call +61 8 8219 0918.

A user manual for negotiating the online data entry portal can also be found on the College website (www.surgeons.org/anzgosa).

#### References

The definitions and instructions used in this data dictionary have been based on the following resources:

- The National Health Data Dictionary
- The National Oesophago-Gastric Cancer Audit Data Manual (United Kingdom)
- The National Breast Cancer Audit Data Dictionary
- Japanese gastric cancer treatment guidelines 2014 (ver. 4)

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#### **Surname**

#### **Identifying and Definitional Attributes**

Database field name: pat\_surname

Definition: The name common to members of a family, as opposed to a given name which is

unique to the individual. This can also be referred to as last name or family name.

Context: This item will be used to ensure the person in the dataset is correctly identified.

#### **Relational and Representational Attributes**

Data type: Text

Data Domain: Free text

Format: Alpha (128 characters)

Guide for use

Data screen: Patient Information

Obligation: Mandatory for identified data

How to answer: Record the patient's full formal surname, in the format preferred by the patient

and as appearing on medical records. In the event of the surname changing (e.g.

through marriage), the surname used should be the surname at time of

presentation.

If there is uncertainty about what is the person's surname, use either the name first provided to the medical centre or, where proof of identity is available use

name listed on proof of identity documents.

If special characters, such as hyphens, are used in the surname, these should be

included.

If you wish to enter patient de-identified data, use the ID Code field rather than

the Surname and First Name field.

#### First name

#### **Identifying and Definitional Attributes**

Database field name: pat\_firstname

Definition: A patient's identifying name in a family group, as opposed to their surname

which is common to all family members.

Context: Record here full first name for accurate identifying of patient. Can also be

referred to as given name.

#### **Relational and Representational Attributes**

Data type: Text

Data Domain: Free text

Format: Alpha (128 characters)

#### Guide for use

Data screen: Patient Information

Obligation: Mandatory for identified data

How to answer: First name should be recorded in full, in the format preferred by the patient and as

appearing on medical records.

If there is uncertainty about a person's first name, use either the name first provided to the medical centre or, where proof of identity is available use name

listed on proof of identity documents.

If special characters, such as hyphens, are used in the given names, these should

be included.

If you wish to enter patient de-identified data, use the ID Code field rather than

the Surname and First Name field.

# Middle initials

# **Identifying and Definitional Attributes**

Database field name: pat\_middleInitials

Definition: First letter of each given name of the patient subsequent to first name.

Context: Used for accurate identification of patient.

# **Relational and Representational Attributes**

Data type: Text

Data Domain: Free text

Format: Alpha (3 characters)

Guide for use

Data screen: Patient Information

Obligation: Optional

#### **ID Code**

# **Identifying and Definitional Attributes**

Database field name: pat\_idcode

Definition: A code assigned to patients for identification purposes.

Context: Allows for entry of patient de-identified data.

#### **Relational and Representational Attributes**

Data type: Text

Data Domain: Free text

Format: Alphanumeric

#### Guide for use

Data screen: Patient Information

Obligation: Must enter either ID Code or patient Surname and First name.

How to answer: The ID\_Code can be anything you like as long as it is individual to that patient

(i.e. don't keep using the same code) and will help you remember who the patient

is for later amendments to the case.

#### Gender

# **Identifying and Definitional Attributes**

Database field name: pat\_gender

Definition: The biological distinction between male and female, as represented by a code.

Context: This is used for classification, enabling analysis by gender.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Male

Female 2

Format: Drop-down box

Guide for use

Data screen: Patient Information

Obligation: Mandatory

How to answer: Record male or female as reported by patient or by observation.

#### **Date of Birth**

#### **Identifying and Definitional Attributes**

Database field name: pat\_dob

Date on which the patient was born.

Context: This is used to calculate age at diagnosis.

#### **Relational and Representational Attributes**

Data type: Date/Time

Data Domain: Valid date

Format: DD/MM/YYYY

#### Guide for use

Data screen: Patient Information

Obligation: Mandatory

How to answer: The day, month and year of birth should be separated by a forward slash (/).

Every effort should be made to obtain an accurate date of birth, however if this cannot be achieved, an estimated date of birth should be given. If year of birth is known but specific date is not, record the date of birth as 01/01/YYYY so that an

estimate of age can be achieved.

If date of birth is entirely unknown and cannot be estimated leave the field blank.

Date of birth must not be within last 18 years (data on children is not collected).

# **Country**

# **Identifying and Definitional Attributes**

Database field name: pat\_country

Definition: Residential country of patient at diagnosis.

Context: Used for classification and identification.

# **Relational and Representational Attributes**

Data type: Text

Data Domain: Australia

New Zealand

India

Format: Drop-down box

#### Guide for use

Data screen: Patient Information

Obligation: Mandatory

#### **Street Address**

# **Identifying and Definitional Attributes**

Database field name: pat\_street

Definition: Residential street address of patient at diagnosis.

Context: This data item is recorded for patient identification.

### **Relational and Representational Attributes**

Data type: Text

Data Domain: Free text

Format: Alphanumeric

Guide for use

Data screen: Patient Information

Obligation: Mandatory

How to answer: The following items should be present when recording a full address:

• Street number, name and type OR post box number

#### Suburb/town

#### **Identifying and Definitional Attributes**

Database field name: pat\_suburb

Definition: Full name of suburb/town in patient residential address at diagnosis.

Context: This data item is recorded for patient identification and classification.

#### **Relational and Representational Attributes**

Text Data type:

Data Domain: Free text

Format: Alphanumeric (80 characters)

Guide for use

Patient Information Data screen:

Obligation: Mandatory

Record the suburb of residence for patient during treatment. How to answer:

> The suburb/town/locality name may be a town, city, suburb or commonly used location name such as a large agricultural property or Aboriginal community.

Enter 'Unknown' when the locality name or geographic area for a person or event is not known. Enter 'No fixed address' when a person has no fixed address or is

#### State

# **Identifying and Definitional Attributes**

Database field name: pat\_state

Definition: Residential state of patient.

Context: This data item is recorded for patient identification and classification.

#### **Relational and Representational Attributes**

Data type: Text

Data Domain: NSW

Vic Qld SA WA Tas NT ACT

Format: Drop-down box

Guide for use

Data screen: Patient Information

Obligation: Mandatory for Australian patients

How to answer: Record the state of residential address for patient during treatment, if the patient is

from Australia.

#### **Postcode**

#### **Identifying and Definitional Attributes**

Database field name: pat\_postcode

Definition: Numeric postal descriptor for the locality of patient residential address at

diagnosis.

Context: This data item is recorded for patient identification and classification and enables

analysis by region.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Free text

Format: NNNN

#### **Guide for use**

Data screen: Patient Information

Obligation: Mandatory for Australian patients.

How to answer: Record the Australian postcode for the patient residence at diagnosis. If the

patient changes postcode, ensure that the postcode at the time of diagnosis is still

available.

# Weight

# **Identifying and Definitional Attributes**

Database field name: pat\_weight

Definition: The weight of the patient measured in kilograms.

Context: Used to calculate body mass index.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Free text (Max. 5)

Format: N[NN].N

#### Guide for use

Data screen: Patient Information

Obligation: Mandatory

How to answer: Record weight to the nearest 0.1 kg. If weight is not measured leave this question

blank.

# Height

# **Identifying and Definitional Attributes**

Database field name: pat\_height

Definition: The height of the patient measured in centimetres.

Context: Used to calculate body mass index.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Free text (Max. 5)

Format: N[NN].N

Guide for use

Data screen: Patient Information

Obligation: Mandatory

How to answer: Record height to the nearest 0.1 cm. If height is not measured leave this question

blank.

#### **Body Mass Index (automatically created field)**

# **Identifying and Definitional Attributes**

Database field name: pat\_bmi

Definition: A measure of a patient's weight (body mass) relative to height.

Context: Used to assess the extent of weight deficit or excess. Automatically created

where height and weight have been recorded.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Ratio (Max: 6)

Format: NN[N].N[N]

Guide for use

Data screen: Patient Information

Obligation: N/A

How to answer: N/A – automatically created field.

#### **Hospital**

#### **Identifying and Definitional Attributes**

Database field name: hos\_name

Definition: The treating hospital or clinic at which the patient received his/her surgery.

Context: The hospital list was compiled from a list supplied by the ANZGOSA and has

been added to at the request of users.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: N/A

Format: Drop-down box

Guide for use

Data screen: Patient Information

Obligation: Mandatory

How to answer: Select hospital from your personalised drop-down box showing your hospitals.

If a hospital needs to be added to your personalised drop-down box, use the My

Hospitals link on the left-hand side menu of the data entry portal.

Please contact the audit office to have a hospital added if it does not appear in the

All Hospitals list.

### Surgeon

# **Identifying and Definitional Attributes**

Database field name: surg\_id

Definition: The treating surgeon.

Context: Used to provide identification and grouping of a surgeon's data for analysis.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: N/A

Format: Drop-down box

Guide for use

Data screen: Patient Information

Obligation: Mandatory

How to answer: For surgeons: This field will automatically fill from surgeon log-in and will not be

shown on screen.

For data managers: The drop-down box will show the surgeons associated with

that data manager only.

#### **Tumour site**

#### **Identifying and Definitional Attributes**

Database field name: epi\_tumour\_site

Definition: The main anatomical site of the cancer for which the patient is receiving care.

Context: Used to categorise cases according to cancer characteristics and allow for

analysis of treatment and outcome for these cancers.

#### **Relational and Representational Attributes**

Data type: Numeric

| Data Domain: | Oesophageal tumours: | Hypopharynx             | 1 |
|--------------|----------------------|-------------------------|---|
|              |                      | Proximal 1/3 Oesophagus | 2 |
|              |                      | Middle 1/3 Oesophagus   | 3 |
|              |                      | Distal 1/3 Oesophagus   | 4 |

| Oesophageal junction tumours: | Siewert 1 (Distal oesophagus which may infiltrate the OGJ)                   | 5 |
|-------------------------------|--|---|
| tumours.                      | Seiwert 2 (arising immediately at the OGJ)                                   | 6 |
|                               | Siewert 3 (subcardial tumour that infiltrates OGJ and oesophagus from below) | / |

| Gastric tumours: | Stomach – fundus  | 8  |
|------------------|-------------------|----|
|                  | Stomach – body    | 9  |
|                  | Stomach – antrum  | 10 |
|                  | Stomach - pylorus | 11 |
| Other:           | Small intestine   | 12 |
|                  | Colon             | 13 |

Rectum 14

Format: Drop-down box

#### Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Mandatory

How to answer: Only one option for site may be selected. Where the lesion overlaps two or more

areas of the stomach or oesophagus, the user should select the area which contains the bulk of the tumour. If the patient has linitis plastica, select the site as "body".

The Siewert classification applies only to adenocarcinomas. Squamous cell carcinomas at the bottom of the oesophagus should be classified as "oesophageal

distal third."

Stomach-pylorus should only be selected for localised pyloric carcinoma.

The "other" categories are provided for GIST cases only.

# Histological diagnosis

#### **Identifying and Definitional Attributes**

Database field name: epi\_histological\_diagnosis

Definition: Cell type of the malignant disease, as determined at the point of diagnosis.

Context: It is used for classification, epidemiological research and incidence reporting.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Adenocarcinoma 1

2 Squamous Cell Carcinoma 3 Barrett's with HGD Dysplasia 4 Adeno Squamous Carcinoma 5 Undifferentiated 6 Lymphoma 7 **GIST** 8 Neuroendocrine 9 No preoperative histological diagnosis

Other (will bring up a text box to specify – max. 200 characters)

Format: Drop-down box

#### Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Mandatory

How to answer: Enter overall tumour type.

If histology is not known because a biopsy has not been taken, record "No preoperative histological diagnosis". This may occur if the tumour diagnosis was

reached on the basis of radiological examination only.

#### **Tumour dimensions to record**

#### **Identifying and Definitional Attributes**

Database field name: epi\_tumour\_dimensions\_recorded

Definition: Specifies whether the dimensions of the tumour have been recorded.

Context: This is used to define those cases that do not have a dimension measurement for

data completeness purposes.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Distance (ab oral)

Tumour size 2
None recorded 3

Format: Drop-down box

#### Guide for use

Data screen: Pre-treatment diagnosis

Obligation: Mandatory

How to answer: If the surgeon does not have access to measurements of the tumour, record this

question as "none recorded". If this question is left blank, the case will be

considered incomplete.

If either "distance" or "size" is selected, measurements of the tumour need to be

given in a subsequent question.

#### Proximal distance (ab oral)

# **Identifying and Definitional Attributes**

Database field name: epi\_prox\_distance

Definition: The distance, in centimetres, between the teeth and the edge of tumour closest to

the mouth.

Context:

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Free text (Max. 5)

Format: NN.NN

Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Must answer both proximal and distal distance OR tumour size.

#### Distal distance (ab oral)

# **Identifying and Definitional Attributes**

Database field name: epi\_distal\_distance

Definition: The distance, in centimetres, between the teeth and the edge of tumour furthest

from the mouth.

Context:

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Free text (Max. 5)

Format: NN.NN

Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Must answer both proximal and distal distance OR tumour size.

#### **Tumour size**

#### **Identifying and Definitional Attributes**

Database field name: epi\_vertical\_tumour\_size; epi\_horizontal\_tumour\_size

Definition: Tumour size, in millimetres.

Context: Tumour size is a significant prognostic variable; the risk of local recurrence and

lymph node involvement increases with tumour size.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Free text (Max. 3)

Format: NNN x NNN

#### Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Must answer tumour size OR both proximal and distal distance.

How to answer: As recorded in the pathology report.

In the instance of multiple tumours, record the size of the principal tumour.

# Method of diagnosis

# **Identifying and Definitional Attributes**

Database field name: epi\_type\_diagnosis

Definition: The method used for diagnosis.

Context: Used to identify cases where the patient was diagnosed with a method other than

endoscopy.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Endoscopy

2 Other

Format: Drop-down box

#### Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Mandatory

#### **Date of diagnosis**

#### **Identifying and Definitional Attributes**

Database field name: epi\_diagnosis\_date

Definition: Date at which the cancer was diagnosed at the primary site (i.e. oesophagus/

stomach).

Context: This is used to calculate age at diagnosis, as well as to determine annual

incidence rates and survival calculations.

#### **Relational and Representational Attributes**

Data type: Date/Time

Data Domain: Valid date

Format: DD/MM/YYYY

#### **Guide for use**

Data screen: Pre-surgery diagnosis and treatment

Obligation: Mandatory

How to answer: Record date tumour was diagnosed either by endoscopy/imaging/other.

# **Pre-treatment staging investigations**

#### **Identifying and Definitional Attributes**

Database field name: s\_inves\_name [s\_inves\_type will be 1, Pre-treatment]

Definition: Investigations performed to establish the stage of cancer.

Context: Used for monitoring the investigations used for establishing the stage of cancer.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: CT Scan 1

EUS 2
PET Scan 3
Laparoscopy 4
Peritoneal washings and cytology 5
Bone scan 6

Other (will bring up a text box to specify – max. 200 characters)

Format: Tick boxes

#### **Guide for use**

Data screen: Pre-surgery diagnosis and treatment

Obligation: Mandatory

How to answer: Indicate one or more investigation.

#### **Pre-treatment T-stage**

# **Identifying and Definitional Attributes**

Database field name: epi\_pre\_t\_stage\_oeso\_gastric; epi\_pre\_t\_stage\_gist

Definition: Extent of primary cancer including tumour size, prior to treatment.

Context: Allows for the pre-treatment stage of the tumour to be taken into account in the

analysis of treatment, outcomes and the determinants of care.

#### **Relational and Representational Attributes**

Data type: Numeric

| Data Domain: | Gastric or oesophageal cancer | Ca in situ or HGD        | 1 |
|--------------|-------------------------------|--------------------------|---|
|              | • 0                           | T1                       | 2 |
|              |                               | T2 or 3                  | 3 |
|              |                               | T4                       | 4 |
|              | GIST                          | T ≤ 2cm                  | 5 |
|              |                               | $T > 2cm, \le 5cm$       | 6 |
|              |                               | $T > 5$ cm, $\leq 10$ cm | 7 |
|              |                               | T > 10cm                 | 8 |

Format: Drop-down box

#### Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Only relevant if pre-treatment staging investigations are recorded

How to answer: This information is recorded in the patient's medical file. Choose the lower (less

advanced) T category when there is any uncertainty.

Please note that if GIST was selected in the histological diagnosis question, the drop-down box will show the GIST options above. If any other diagnosis is selected, the drop-down box will display the gastric/oesophageal options.

#### **Pre-treatment N-stage**

#### **Identifying and Definitional Attributes**

Database field name: epi\_pre\_n\_stage\_oeso\_gastric; epi\_pre\_n\_stage\_gist

Definition: Extent of regional lymph node metastasis prior to treatment.

Context: Allows for the pre-treatment stage of the tumour to be taken into account in the

analysis of treatment, outcomes and the determinants of care.

#### **Relational and Representational Attributes**

Data type: Numeric

| Data Domain: | Gastric or oesophageal | No involved lymph nodes identified | 1 |
|--------------|------------------------|------------------------------------|---|
|              |                        | Loco-regional nodes identified     | 2 |
|              | <u> </u>               | Distant lymph nodes identified     | 3 |
|              | GIST                   | No regional lymph nodes identified | 4 |
|              |                        | Regional lymph nodes identified    | 5 |

Format: Drop-down box

#### Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Only relevant if pre-treatment staging investigations are recorded

How to answer: This information is recorded in the patient's medical file. Choose the lower (less

advanced) N category when there is any uncertainty.

Please note that if GIST was selected in the histological diagnosis question, the drop-down box will show the GIST options above. If any other diagnosis is selected, the drop-down box will display the gastric/oesophageal options.

#### **Pre-treatment M-stage**

#### **Identifying and Definitional Attributes**

Database field name: epi\_pre\_m\_stage

Definition: Absence or presence of distant metastasis prior to treatment.

Context: Allows for the pre-treatment stage of the tumour to be taken into account in the

analysis of treatment, outcomes and the determinants of care.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes 1

No 2

Format: Drop-down box

Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Only relevant if pre-treatment staging investigations are recorded

How to answer: This information is recorded in the patient's medical file. Choose the lower (less

advanced) M category when there is any uncertainty.

# Multidisciplinary discussion regarding treatment

# **Identifying and Definitional Attributes**

Database field name: epi\_mdt\_discussion

Definition: Indicates the involvement of providers from more than one profession in a

discussion of patient treatment.

Context:

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes 1

No 0

Format: Tick box

#### Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Mandatory

#### **Treatment decision**

#### **Identifying and Definitional Attributes**

Database field name: epi\_tx\_decision

Definition: The intention of the treatment being planned.

Context: It is used for correlating outcome with original intent of the treatment.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Curative 1

Palliative 2
Not determined at treatment outset 3

Format: Drop-down box

#### Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Mandatory

How to answer: This question refers to surgical treatment as well as neoadjuvant therapy.

Code 1 is used when treatment is given for control of the disease.

Code 2 is used when the cure is unlikely to be achieved and treatment is given primarily for the purpose of pain control. Other benefits of the treatment are

considered secondary contributions to the patient's quality of life.

Code 3 is used when the patient had treatment for cancer but the intention was not

stated.

# **Patient on Prospective Randomised Controlled Trial**

# **Identifying and Definitional Attributes**

Database field name: epi\_prct

Definition: Indicates whether the patient is on a Prospective Randomised Controlled Trial.

Context:

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes 1

No 0

Format: Tick box

#### **Guide for use**

Data screen: Pre-surgery diagnosis and treatment

Obligation: Mandatory

# **Planned chemotherapy**

#### **Identifying and Definitional Attributes**

Database field name: epi\_planned\_chemo

Definition: The planned use of cytotoxic drugs that aim to kill, prevent or slow the growth of

cancer cells.

Context: Enables analysis of discrete groups of patients particularly where several

modalities are used.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Pre-surgery chemotherapy 1

Post-surgery chemotherapy 2
Both pre- and post-surgery chemotherapy 3

No chemotherapy 4

Format: Drop-down box

#### Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Mandatory

## **Planned radiotherapy**

### **Identifying and Definitional Attributes**

Database field name: epi\_planned\_radio

Definition: The planned use of radiation therapy to kill tumour cells.

Context: Enables analysis of discrete groups of patients, particularly where several

modalities are used.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Pre-surgery radiotherapy 1

Post-surgery radiotherapy 2
Both pre- and post-surgery radiotherapy 3

No radiotherapy 4

Format: Drop-down box

#### Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Mandatory

## Post neoadjuvant staging investigations

### **Identifying and Definitional Attributes**

Database field name: s\_inves\_name [s\_inves\_type will be 2, Post neoadjuvant treatment]

Definition: Investigations performed to establish cancer stage subsequent to neoadjuvant

treatment.

Context: Used for monitoring the investigations used for establishing the stage of cancer.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: CT Scan 1

EUS 2
PET Scan 3
Laparoscopy 4
Peritoneal washings and cytology 5
Bone scan 6

Bone scan 6
Other (will bring up a text box to specify – max. 200 characters) 7

Format: Tick boxes

#### Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Mandatory

How to answer: Indicate one or more investigation.

#### Post neoadjuvant treatment T-stage

## **Identifying and Definitional Attributes**

Database field name: epi\_post\_neo\_t\_stage\_oeso\_gastric; epi\_post\_neo\_t\_stage\_gist

Definition: Extent of primary cancer including tumour size, after neoadjuvant treatment.

Context: Allows for the post neo-adjuvant treatment stage of the tumour to be taken into

account in the analysis of treatment, outcomes and the determinants of care.

### **Relational and Representational Attributes**

Data type: Numeric

| Data Domain: | Gastric or oesophageal | Ca in situ or HGD  | 1 |
|--------------|------------------------|--------------------|---|
|              | • 0                    | T1                 | 2 |
|              |                        | T2 or 3            | 3 |
|              |                        | T4                 | 4 |
|              | GIST                   | T ≤ 2cm            | 5 |
|              |                        | $T > 2cm, \le 5cm$ | 6 |
|              |                        | T >5cm, ≤ 10cm     | 7 |
|              |                        | T > 10cm           | 8 |

Format: Drop-down box

#### Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Only relevant if post-neoadjuvant staging investigations are recorded

How to answer: This information is recorded in the patient's medical file. Choose the lower (less

advanced) T category when there is any uncertainty.

Please note that if GIST was selected in the histological diagnosis question, the drop-down box will show the GIST options above. If any other diagnosis is selected, the drop-down box will display the gastric/oesophageal options.

### Post neoadjuvant treatment N-stage

## **Identifying and Definitional Attributes**

Database field name: epi\_post\_neo\_n\_stage\_oeso\_gastric; epi\_post\_neo\_n\_stage\_gist

Definition: Extent of regional lymph node metastasis after neoadjuvant therapy.

Context: Allows for the post neo-adjuvant treatment stage of the tumour to be taken into

account in the analysis of treatment, outcomes and the determinants of care.

### **Relational and Representational Attributes**

Data type: Numeric

| Data Domain: | Gastric or oesophageal | No involved lymph nodes identified | 1 |
|--------------|------------------------|------------------------------------|---|
|              |                        | Loco-regional nodes identified     | 2 |
|              |                        | Distant lymph node/s identified    | 3 |
|              | GIST                   | No regional lymph nodes identified | 4 |
|              |                        | Regional lymph nodes identified    | 5 |

Format: Drop-down box

#### Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Only relevant if post-neoadjuvant staging investigations are recorded

How to answer: This information is recorded in the patient's medical file. Choose the lower (less

advanced) N category when there is any uncertainty.

Please note that if GIST was selected in the histological diagnosis question, the drop-down box will show the GIST options above. If any other diagnosis is selected, the drop-down box will display the gastric/oesophageal options.

## Post neoadjuvant treatment M-stage

### **Identifying and Definitional Attributes**

Database field name: epi\_post\_neo\_m\_stage

Definition: Absence or presence of distant metastasis after neoadjuvant therapy.

Context: Allows for the post neo-adjuvant treatment stage of the tumour to be taken into

account in the analysis of treatment, outcomes and the determinants of care.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes 1

No 2

Format: Drop-down box

Guide for use

Data screen: Pre-surgery diagnosis and treatment

Obligation: Only relevant if post-neoadjuvant staging investigations are recorded

How to answer: This information is recorded in the patient's medical file. Choose the lower (less

advanced) M category when there is any uncertainty.

## Complications of neoadjuvant treatment

# **Identifying and Definitional Attributes**

Database field name: epi\_neo\_complications

Definition: Adverse medical response resulting from treatment received prior to surgery.

Context:

## **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes (will bring up a text box to specify – max. 200 characters)

2

Format: Drop-down box

#### **Guide for use**

Data screen: Pre-surgery diagnosis and treatment

Obligation: Mandatory

### **Date of Surgery**

### **Identifying and Definitional Attributes**

Database field name: epi\_surgery\_date

Definition: The date on which the cancer-directed surgical treatment was performed.

Context: This item allows determination of the time interval between diagnosis and the

start of surgical treatment.

## **Relational and Representational Attributes**

Data type: Date/Time

Data Domain: Valid date

Format: DD/MM/YYYY

#### Guide for use

Data screen: Surgical details

Obligation: Mandatory

How to answer: Record the date that the main surgical procedure commenced.

#### **Urgency of Surgery**

#### **Identifying and Definitional Attributes**

Database field name: epi\_surg\_urgency

Definition: The urgency of the operation as categorised by the NCEPOD code.

Context: This item allows risk adjustment of outcome assessment.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Immediate (within minutes)

Urgent (within hours) 2
Expedited (within days) 3
Elective (planned) 4

Format: Drop-down box

#### Guide for use

Data screen: Surgical details

Obligation: Mandatory

How to answer: Record the urgency of the surgical procedure, as categorised by the UK National

Confidential Enquiry into Patient Outcome and Death (NCEPOD) code.

Immediate: Immediate life, limb or organ-saving operation. Resuscitation simultaneous with surgical treatment. Operation within minutes of decision to operate (e.g. laparotomy / thoracotomy for control of haemorrhage).

Urgent: Acute onset or deterioration of conditions that threaten life, limb or organ survival or for relief of distressing symptoms. Operation within hours of decision to operate and normally once resuscitation completed (e.g. laparotomy for perforation).

Expedited: Stable patient requiring early intervention for a condition that is not an immediate threat to life, limb or organ survival. Operation within days of decision to operate.

Elective: Surgical procedure planned or booked in advance of routine admission to hospital. Operation at a time to suit both patient and surgeon.

#### **ASA** grade

### **Identifying and Definitional Attributes**

Database field name: epi\_asa\_grade

Definition: American Society of Anesthesiologists (ASA) grade is an assessment of fitness

for anaesthesia and surgery.

Context: Classification and risk adjustment. Medical co-morbidity increases the risk

associated with anaesthesia and surgery.

## **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Grade 1

 Grade 2
 2

 Grade 3
 3

 Grade 4
 4

Format: Drop-down box

#### Guide for use

Data screen: Surgical details

Obligation: Mandatory

How to answer: Record the patient's ASA grade (American Society of Anesthesiologists grade) as

determined by the anaesthetist who assessed the patient and recorded it on the

operation chart.

Grade 1 is used for a normal healthy individual.

Grade 2 is used for a patient with a mild systemic disease that does not limit

activity.

Grade 3 is used for a patient with severe systemic disease that limits function, but

is not incapacitating.

Grade 4 is used for a patient with an incapacitating systemic disease which is

constantly life-threatening.

### **Surgical intent**

### **Identifying and Definitional Attributes**

Database field name: epi\_surgical\_intent

Definition: The intention of surgical treatment.

Context: It is used for correlating outcome with original intent of the surgery.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Curative resection 1

Palliative resection 2

Format: Drop-down box

#### Guide for use

Data screen: Surgical details

Obligation: Mandatory

How to answer: Code 1 is used when surgery is performed for control of the disease.

Code 2 is used when the cure is unlikely to be achieved and surgery is given primarily for the purpose of pain control. Other benefits of the treatment are

considered secondary contributions to the patient's quality of life.

Code 3 is used when the surgery was not completed as planned.

## **Primary Procedure**

### **Identifying and Definitional Attributes**

Database field name: epi\_oesophagectomy; epi\_gastrectomy; epi\_local\_excision

Definition: The main surgical procedure carried out.

Context: Used for classification of cases.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Oesophagectomy

Gastrectomy

Local Excision of Tumour

Resection abandoned due to inoperability

Format: Drop-down box

Guide for use

Data screen: Surgical details

Obligation: Mandatory

How to answer: Record the main surgical procedure performed on the patient.

## Oesophagectomy approach

### **Identifying and Definitional Attributes**

 ${\it Database field name:} \hspace{0.5cm} {\it oeso\_thoracotomy; oeso\_thoracoscopy; oeso\_laparotomy; oeso\_laparoscopy;}$ 

 $oeso\_cervical\_anastomosis; oeso\_left\_thoraco\_abdominal$ 

Definition: The method of surgical procedure in which all or part of the oesophagus is

removed.

Context: Enable analysis of surgically related data.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Thoracotomy

Thoracoscopy Laparotomy Laparoscopy

Cervical Anastomosis Left thoraco-abdominal

Format: Tick boxes

#### Guide for use

Data screen: Surgical details

Obligation: Mandatory for oesophagectomy cases

How to answer: Tick as many as apply.

## Oesophageal conduit

## **Identifying and Definitional Attributes**

Database field name: oeso\_conduit

Definition: Conduit used to replace the removed section of diseased oesophagus.

Context: Enable analysis of surgically related data.

## **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Stomach 1

Colon 2 Jejunum 3

Format: Drop-down box

#### Guide for use

Data screen: Surgical details

Obligation: Mandatory for oesophagectomy cases

### Feeding jejunostomy

### **Identifying and Definitional Attributes**

Database field name: oeso\_feeding\_jejunostomy

Definition: Record whether feeding tube was inserted at the time of surgery.

Context: Enable analysis of surgically related data.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes 1

No 2

Format: Drop-down box

#### Guide for use

Data screen: Surgical details

Obligation: Mandatory for oesophagectomy cases

How to answer: Only feeding tubes inserted at the time of the main procedure are included. The

item does NOT cover feeding tubes inserted for pre-operative nutritional

supplementation.

## **Gastrectomy type**

### **Identifying and Definitional Attributes**

Database field name: gas\_type

Definition: Extent of surgical resection for primary gastric cancer.

Context: Enables analysis of surgically related data.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Total 1

Subtotal 2
Extended total 5
Distal 3
Proximal 4

Format: Drop-down box

#### Guide for use

Data screen: Surgical details

Obligation: Mandatory for gastrectomy cases

How to answer: Subtotal: a partial gastrectomy that involves the resection of left gastric artery.

As defined by Japanese gastric cancer treatment guidelines:

Total gastrectomy: Total resection of the stomach, including the cardia and

pylorus.

Extended total: Gastrectomy with combined resection of adjacent involved organs. Or gastrectomy with extended lymphadenectomy exceeding D2.

Distal gastrectomy: Stomach resection including pylorus. The cardia is preserved.

Proximal gastrectomy: Stomach resection including the cardia. The pylorus is

preserved.

## Gastrectomy approach

## **Identifying and Definitional Attributes**

Database field name: gas\_approach

Definition: The approach used to perform the abdominal part of the main procedure.

Context: Enables analysis of surgically related data.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: laparoscopic 1

open 2

laparoscopic converted to open 3

Format: Drop-down box

#### Guide for use

Data screen: Surgical details

Obligation: Mandatory for gastrectomy cases

### **Reconstruction after gastrectomy**

### **Identifying and Definitional Attributes**

Database field name: gas\_reconstruction

Definition: Technique used for reconstruction of the upper part of the digestive tract after

gastrectomy.

Context: Enables analysis of surgically related data.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Roux –en-Y

Billroth 1 2
Billroth 2 3

Other (will bring up a text box to specify – max. 200 characters) 4

Format: Drop-down box

#### Guide for use

Data screen: Surgical details

Obligation: Mandatory for gastrectomy cases

### Lymph node dissection

#### **Identifying and Definitional Attributes**

Database field name: oeso\_lymph\_node\_dissection; gas\_lymph\_node\_dissection

Definition: The extent of the lymphadenectomy performed.

Context: This item allows the extent of resection to be taken into account in the analysis of

treatment and outcome.

### **Relational and Representational Attributes**

Data type: Numeric

| Data Domain: | Oesophagectomy | Radical 3 field lymphadenectomy | 1 |
|--------------|----------------|---------------------------------|---|
|              |                | Radical 2 field lymphadenectomy | 2 |
|              |                | Radical infracarinal 2 field    | 3 |
|              |                | Non radical lymphadenectomy     | 4 |
|              | Gastrectomy    | D1                              | 1 |
|              | •              | D1+                             | 4 |
|              |                |                                 | 2 |

D2 2
No lymph node dissection 3

Format: Drop-down box

#### Guide for use

Data screen: Surgical details

Obligation: Mandatory for oesophagectomy/gastrectomy cases

How to answer: The options shown in the drop-down box for this question are dependent on the

surgery being recorded.

Options for gastrectomy are based on the Japanese gastric cancer treatment

guidelines.

Lymph node stations for total gastrectomy

D1: 1–7

D1+: 1-7, 8a, 9, 11p

D2: 1-7, 8a, 9, 10, 11p, 11d, 12a

Lymph node stations for distal gastrectomy

D1: 1, 3, 4sb, 4d, 5, 6, 7 D1+: 1, 3, 4sb, 4d, 5, 6, 7, 8a, 9 D2: 1, 3, 4sb, 4d, 5, 6, 7, 8a, 9, 11p, 12a

Lymph node stations for proximal gastrectomy

D1: 1, 2, 3a, 4sa, 4sb, 7

D1+: 1, 2, 3a, 4sa, 4sb, 7, 8a, 9, 11p

## **Local excision - Type**

### **Identifying and Definitional Attributes**

Database field name: loc\_excision\_type

Definition: Technique used for excision of tumour

Context: Enables analysis of surgically related data.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Endoscopic resection 1

Full thickness excision 2

Format: Drop-down box

#### **Guide for use**

Data screen: Surgical details

Obligation: Mandatory for local excision of tumour cases

## **Local excision - Approach**

## **Identifying and Definitional Attributes**

Database field name: loc\_excision\_approach

Definition: Approach used to perform the excision

Context: Enables analysis of surgically related data.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Laparoscopic 1

Open 2

Laparoscopic converted to open 3

Format: Drop-down box

#### Guide for use

Data screen: Surgical details

Obligation: Mandatory for full thickness excision cases

### **Excision site**

## **Identifying and Definitional Attributes**

Database field name: loc\_excision\_site

Definition: Site from which the tumour was surgically removed.

Context: Enables analysis of surgically related data.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Gastric 1

Oesophageal 2 Small bowel 3

Other (will bring up a text box to specify – max. 200 characters) 4

Format: Drop-down box

#### Guide for use

Data screen: Surgical details

Obligation: Mandatory for local excision of tumour cases

### **Operative comments**

### **Identifying and Definitional Attributes**

Database field name: oeso\_op\_comments; gas\_op\_comments; loc\_op\_comments

Definition: Any information which needs to be recorded that is not covered by previous

questions.

Context: Allows for extra information not recorded in set questions.

## **Relational and Representational Attributes**

Data type: Text

Data Domain: Free text

Format: Alphanumeric (200 characters)

Guide for use

Data screen: Surgical details

Obligation: Optional

How to answer: Record here any additional features observed during surgery.

## **Intraoperative complications**

## **Identifying and Definitional Attributes**

Database field name: epi\_intra\_op\_complications

Definition: Adverse medical response that occurs during the surgery.

Context: To determine the short-term outcomes of surgery.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes (will bring up a text box to specify – max. 200 characters)

No

Format: Tick boxes

### Guide for use

Data screen: Surgical details

Obligation: Mandatory

## **Postoperative complications**

# **Identifying and Definitional Attributes**

Database field name: epi\_post\_op\_complications

Definition: Adverse medical response that occurs subsequent to surgery.

Context: To determine the short-term outcomes of surgery.

## **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes 1

No 0

Format: Tick boxes

#### Guide for use

Data screen: Surgical details

Obligation: Mandatory

## **Postoperative surgical complications**

## **Identifying and Definitional Attributes**

Database field name: comp\_name [comp\_type will be 1, surgical]

Definition: Adverse medical response directly related to surgical procedure.

Context: To determine the short-term outcomes of surgery.

### **Relational and Representational Attributes**

Data type: Numeric

| Data Domain: | No surgical complication  | 1  |
|--------------|---|----|
|              | Anastomotic leak (Clinical)                                       | 2  |
|              | Anastomotic leak (Radiological)                                   | 3  |
|              | Wound Infection   | 4  |
|              | Peritonitis   | 5  |
|              | Chylothorax   | 6  |
|              | Pancreatic Fistula  | 7  |
|              | Pleural Effusion Requiring Drainage                               | 8  |
|              | Abscess   | 9  |
|              | Bleeding  | 10 |
|              | Jejunal Tube Complication   | 11 |
|              | Other (will bring up a text box to specify – max. 200 characters) | 12 |

Other (will bring up a text box to specify – max. 200 characters)

Format: Tick boxes

### Guide for use

Data screen: Surgical details

Obligation: Only for those patients with a postoperative complication

How to answer: Indicate as many as apply.

### Postoperative non-surgical complications

### **Identifying and Definitional Attributes**

Database field name: comp\_name [comp\_type will be 2, non-surgical]

Definition: Adverse medical response occurring after surgery but having nodirect link to the

surgical procedure.

Context: To determine the short-term outcomes of surgery.

### **Relational and Representational Attributes**

| Data type:   | Numeric   |    |
|--------------|---|----|
| Data Domain: | No non-surgical complication                                      | 13 |
|              | Cardiac ischaemic event   | 14 |
|              | Cardiac arrhythmia  | 15 |
|              | Other CVS   | 16 |
|              | LRTI requiring antibiotics  | 17 |
|              | DVT/PE  | 18 |
|              | Other pulmonary   | 19 |
|              | Hepatic   | 20 |
|              | Renal   | 21 |
|              | CNS   | 22 |
|              | Other (will bring up a text box to specify – max. 200 characters) | 23 |

Format: Tick boxes

#### Guide for use

Data screen: Surgical details

Obligation: Only for those patients with a postoperative complication

How to answer: Indicate as many as apply.

### Intraoperative or post-operative blood transfusion

## **Identifying and Definitional Attributes**

Database field name: epi\_blood\_transfusion

Definition: The administration of whole blood or a component, such as packed red cells, to

replace blood lost through surgery.

Context: To determine the short-term outcomes of surgery.

## **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes 1

No 2

Format: Drop-down box

Guide for use

Data screen: Surgical details

Obligation: Mandatory

1

7

#### Clavien Dindo complication grade

#### **Identifying and Definitional Attributes**

Database field name: epi\_clavien\_dindo\_complications

Definition: A grading of the severity of surgical complications.

Context: To determine the short-term outcomes of surgery.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Grade 1: Any deviation from the normal postoperative course without the

need for pharmacological treatment or surgical, endoscopic, and

radiological interventions

Grade 2: Requiring pharmacological treatment 2

Grade 3a: Requiring surgical, endoscopic or radiological intervention

NOT UNDER general anaesthesia

Grade 3b: Requiring surgical, endoscopic or radiological intervention

UNDER general anaesthesia

Grade 4a: Life-threatening complication requiring ICU management — 5

Single organ dysfunction

Grade 4b: Life-threatening complication requiring ICU management — 6

Multi-organ dysfunction

Grade 5: Death of a patient

Grade 4 (inactive – only used for migration of old data where cannot map

9

to Grade 4a or 4b)

Format: Drop-down box

#### Guide for use

Data screen: Surgical details

Obligation: Mandatory

How to answer: If more than one complication, enter the highest grade of complication for the

patient.

Grade 1: Allowed therapeutic regimens are: drugs as antiemetics, antipyretics, analgetics, diuretics and electrolytes and physiotherapy. This grade also includes

wound infections opened at the bedside.

Grade 2: for complications which require pharmacologic treatment with drugs other than such allowed for grade 1. Blood transfusions and total parental

nutrition are also included.

Grade 4a and 4b: including CNS complications: brain haemorrhage, ischaemic stroke, subarachnoid bleeding, but excluding transient ischaemic attacks

Grade 4a: including dialysis

### **Date of extubation**

## **Identifying and Definitional Attributes**

Database field name: epi\_date\_extubation

Definition: The date of removal of the patient's breathing tube.

Context: Used to calculate days intubated, assuming patient intubated on day of surgery.

### **Relational and Representational Attributes**

Data type: Date/Time

Data Domain: Valid date

Format: DD/MM/YYYY

#### Guide for use

Data screen: Post-operative course

Obligation: Mandatory

How to answer: If date of extubation is entirely unknown and cannot be estimated leave the field

blank.

### Days intubated (automatically created field)

## **Identifying and Definitional Attributes**

Database field name: epi\_days\_intubated

Definition: Number of days of intubation.

Context: This field is automatically created from date of surgery and date extubated.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: N/A

Format: NN

### Guide for use

Data screen: Post-operative course

Obligation: N/A

How to answer: N/A – automatically created field.

### Stay in ICU/HDU

## **Identifying and Definitional Attributes**

Database field name: epi\_stay\_icu

Definition: Record if patient was admitted to the Intensive Care or High Dependency Unit

after surgery.

Context: To determine the short-term outcomes of surgery.

## **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes 1

No 0

Format: Tick boxes

Guide for use

Data screen: Post-operative course

Obligation: Mandatory

## Date of discharge from ICU/HDU

# **Identifying and Definitional Attributes**

Database field name: epi\_date\_discharge\_icu

Definition: Date patient leaves the Intensive Care or High Dependency Unit.

Context: Used to calculate days in ICU/HDU.

### **Relational and Representational Attributes**

Data type: Date/Time

Data Domain: Valid date

Format: DD/MM/YYYY

Guide for use

Data screen: Post-operative course

Obligation: Answer only if patient was admitted to ICU after surgery

### Days in ICU/HDU (automatically created field)

# **Identifying and Definitional Attributes**

Database field name: epi\_days\_in\_icu

Definition: The number of days spent in Intensive Care/High Dependency Unit.

Context: This field is automatically created from date of surgery and date of

ICUdischarge.

## **Relational and Representational Attributes**

Data type: Numeric

Data Domain: N/A

Format: NN

#### Guide for use

Data screen: Post-operative course

Obligation: N/A

How to answer: N/A – automatically created field.

### **Unplanned return to OT**

### **Identifying and Definitional Attributes**

Database field name: epi\_unplanned\_return\_ot

Definition: Whether or not the patient required a second (unplanned) operation during the

same admission as the primary procedure.

Context: To determine the short-term outcomes of surgery.

### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes 1

No 0

Format: Tick boxes

Guide for use

Data screen: Post-operative course

Obligation: Mandatory

How to answer: An "unplanned" return to theatre should only be recorded if the return was within

the period of hospitalisation relating to the main operation. Tracheostomy or minor procedures in the ICU / HDU, e.g. insertion of a Hickman line or

catheterisation, should not be considered as a re-operation.

### Date return to OT

## **Identifying and Definitional Attributes**

Database field name: epi\_unplanned\_return\_ot\_date

Definition: Date patient returned to operating theatre for further surgical treatment.

Context: To determine the short-term outcomes of surgery.

### **Relational and Representational Attributes**

Data type: Date/Time

Data Domain: Valid date

Format: DD/MM/YYYY

#### **Guide for use**

Data screen: Post-operative course

Obligation: Answer only if patient has an unplanned return to OT.

### Reasons for return to OT

### **Identifying and Definitional Attributes**

Database field name: epi\_unplanned\_return\_ot\_reasons

Definition: Explanation for an unplanned return to the operating theatre.

Context: To determine the short-term outcomes of surgery.

### **Relational and Representational Attributes**

Data type: Text

Data Domain: Free text

Format: Alphanumeric (200 characters)

Guide for use

Data screen: Post-operative course

Obligation: Answer only if patient has an unplanned return to OT.

# Unplanned admission or readmission to ICU/HDU

# **Identifying and Definitional Attributes**

Database field name: epi\_return\_icu

Definition: Whether or not the patient was admitted or readmitted to ICU/HDU from the

ward or subsequent to a second unplanned operation.

Context: To determine the short-term outcomes of surgery.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes 1

No 0

Format: Tick boxes

Guide for use

Data screen: Post-operative course

Obligation: Mandatory

How to answer: Record "yes" if patient was admitted to the Intensive Care or High Dependency

Unit from the ward or subsequent to a second unplanned operation.

# Date of readmission to ICU/HDU

# **Identifying and Definitional Attributes**

Database field name: epi\_return\_icu\_date

Definition: Date patient was readmitted (or admitted if there was no initial admission after

surgery) to ICU/HDU.

Context: To determine the short-term outcomes of surgery.

# **Relational and Representational Attributes**

Data type: Date/Time

Data Domain: Valid date

Format: DD/MM/YYYY

Guide for use

Data screen: Post-operative course

Obligation: Answer only if patient has an unplanned admission/readmission to ICU

#### Reasons for readmission to ICU/HDU

# **Identifying and Definitional Attributes**

Database field name: epi\_return\_icu\_reasons

Definition: Explanation for readmission (or unplanned admission if no initial admission after

surgery) to ICU/HDU.

Context: To determine the short-term outcomes of surgery.

# **Relational and Representational Attributes**

Data type: Text

Data Domain: Free text

Format: Alphanumeric (200 characters)

Guide for use

Data screen: Post-operative course

Obligation: Answer only if patient has an unplanned admission/readmission to ICU/HDU

# **Re-Intubation Required**

# **Identifying and Definitional Attributes**

Database field name: epi\_reintubation\_req

Definition: Record if a second intubation was necessary subsequent to planned extubation.

Context: To determine the short-term outcomes of surgery.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes 1

No 2

Format: Drop-down box

#### **Guide for use**

Data screen: Post-operative course

Obligation: Mandatory

# **Tracheostomy Required**

# **Identifying and Definitional Attributes**

Database field name: epi\_tracheostomy\_req

Definition: The need for surgical construction of an opening in the trachea to facilitate

ventilation.

Context: To determine the short-term outcomes of surgery.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes 1

No 2

Format: Drop-down box

Guide for use

Data screen: Post-operative course

Obligation: Mandatory

# Date of hospital discharge

# **Identifying and Definitional Attributes**

Database field name: epi\_date\_hosp\_discharge

Definition: Day patient is released from hospital care.

Context: Used to calculate hospital stay.

# **Relational and Representational Attributes**

Data type: Date/Time

Data Domain: Valid date

Format: DD/MM/YYYY

#### Guide for use

Data screen: Post-operative course

Obligation: Mandatory

How to answer: The date that should be recorded is either the patient's discharge date, or the date

of their death if they died without leaving hospital after the first operation. If the patient is readmitted and then dies in hospital, it should be the date that he/she

was discharged after the main procedure that is recorded.

# Hospital stay (automatically created field)

# **Identifying and Definitional Attributes**

Database field name: epi\_post\_op\_hosp\_stay

Definition: Number of days patient spent under hospital care.

Context: This field is automatically created from date of surgery and date of hospital

discharge.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Free text

Format: NN

#### Guide for use

Data screen: Post-operative course

Obligation: N/A

How to answer: N/A – automatically created field.

# Readmitted within 30 days

# **Identifying and Definitional Attributes**

Database field name: epi\_readmission\_30\_days

Definition: Record if patient returns to hospital care within 30 days of surgical treatment.

Context: To determine the short-term outcomes of surgery.

# **Relational and Representational Attributes**

Data type:

Data Domain: Yes 1

No 2

Format: Drop-down box

Guide for use

Data screen: Post-operative course

Obligation:

How to answer: Tick yes box if patient was readmitted to hospital within 30 days of surgery.

# Reason for readmission

# **Identifying and Definitional Attributes**

Database field name: epi\_readmission\_reasons

Definition: Explanation for patient readmission to hospital within 30 days of surgery.

Context: To determine the short-term outcomes of surgery.

# **Relational and Representational Attributes**

Data type: Text

Data Domain: Free text

Format: Alphanumeric (200 characters)

Guide for use

Data screen: Post-operative course

Obligation: Optional

# In-hospital death

# **Identifying and Definitional Attributes**

Database field name: epi\_in\_hosp\_death

Definition: Death of patient while under original admission for surgery.

Context: To determine the short-term outcomes of surgery.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes 1

No 0

Format: Tick boxes

#### Guide for use

Data screen: Post-operative course

Obligation: Mandatory

How to answer: Record whether or not the patient died during the SAME admission as the

primary procedure.

Death occurring after discharge or on a subsequent admission should not be

recorded.

# **30-day mortality**

# **Identifying and Definitional Attributes**

Database field name: epi\_30\_day\_mortality

Definition: Death occurring within 30 days of surgery.

Context: To determine the short-term outcomes of surgery.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes 1

No 0

Format: Tick boxes

#### **Guide for use**

Data screen: Post-operative course

Obligation: Mandatory

# Date of death

# **Identifying and Definitional Attributes**

Database field name: epi\_date\_death

Definition: Date on which a patient died.

Context: Used to determine survival rates and mortality rates.

# **Relational and Representational Attributes**

Data type: Date/Time

Data Domain: Valid date

Format: DD/MM/YYYY

#### Guide for use

Data screen: Post-operative course

Obligation: Record for persons who have died.

How to answer: If date of death is entirely unknown and cannot be estimated leave the field blank.

# Reasons for death

# **Identifying and Definitional Attributes**

Database field name: epi\_reasons\_death

Definition: Cause of death.

Context: To determine the short-term outcomes of surgery.

# **Relational and Representational Attributes**

Data type: Text

Data Domain: Free text

Format: Alphanumeric (200 characters)

Guide for use

Data screen: Post-operative course

Obligation: Record for persons who have died.

How to answer: Record details of cause of death.

# Post-operative tumour site

# **Identifying and Definitional Attributes**

Database field name: epi\_post\_op\_tumour\_site

Definition: The main anatomical site of the cancer for which the patient is receiving care, as

confirmed by examination of the resection specmen.

Context: Used to categorise cases according to cancer characteristics and allow for

analysis of treatment and outcome for these cancers.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain:

| Oesophageal tumours:          | Hypopharynx  | 1  |
|-------------------------------|--|----|
|                               | Proximal 1/3 Oesophagus                                    | 2  |
|                               | Middle 1/3 Oesophagus                                      | 3  |
|                               | Distal 1/3 Oesophagus                                      | 4  |
| Oesophageal junction tumours: | Siewert 1 (Distal oesophagus which may infiltrate the OGJ) | 5  |
|                               | Seiwert 2 (arising immediately at the OGJ)                 | 6  |
|                               | Siewert 3 (subcardial tumour that infiltrates              | 7  |
|                               | OGJ and oesophagus from below)                             |    |
| Gastric tumours:              | Stomach – fundus   | 8  |
|                               | Stomach – body   | 9  |
|                               | Stomach – antrum   | 10 |
|                               | Stomach - pylorus  | 11 |
| Other:                        | Small intestine  | 12 |
|                               | Colon  | 13 |
|                               | Rectum   | 14 |

Format: Drop-down box

#### Guide for use

Data screen: Post-operative course

Obligation: Mandatory

How to answer: This answer for this question will be pre-populated from the pre-treatment tumour

site question. The answer can be changed if necessary.

Only one option for site may be selected. Where the lesion overlaps two or more areas of the stomach or oesophagus, the user should select the area which contains the bulk of the tumour. If the patient has linitis plastica, select the site as "body".

The Siewert classification applies only to adenocarcinomas. Squamous cell carcinomas at the bottom of the oesophagus should be classified as "oesophageal distal third."

Stomach-pylorus should only be selected for localised pyloric carcinoma.

The "other" categories are provided for GIST cases only.

# **Resection histopathology**

# **Identifying and Definitional Attributes**

Database field name: epi\_resec\_histopathology

Definition: The cell type of the malignant disease.

This data item records the definitive histology of the tumour after resection.

Context: Used for incidence calculation and epidemiological analyses.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Adenocarcinoma 1

Squamous Cell Carcinoma2Barrett's With HGD Dysplasia3Adeno Squamous Carcinoma4Undifferentiated5Lymphoma6GIST7Neuroendocrine8

Other (will bring up a text box to specify)

9

Format: Drop-down box

#### Guide for use

Data screen: Post-operative course

Obligation: Mandatory

How to answer: This answer for this question will be pre-populated from the histological

diagnosis question. The answer can be changed if necessary.

Record the tumour histology, as confirmed by postoperative examination of the

resection specimen or biopsies.

# **Proximal margin**

# **Identifying and Definitional Attributes**

Database field name: epi\_resec\_prox\_margin

Definition: The distance, in millimetres, of the closest edge of the tumour from the margin

closest to the mouth.

Context: To determine adequacy of resection.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Involved 1

<1mm 2

≥ 1mm (will bring up a text box to specify exact margin) 3

Not recorded 4

Format: Drop-down box

#### Guide for use

Data screen: Post-operative course

Obligation: Mandatory

How to answer: In the text box, specify the exact proximal margin in mm, to the nearest whole

number.

# **Distal margin**

# **Identifying and Definitional Attributes**

Database field name: epi\_resec\_distal\_margin

Definition: The distance, in millimetres, of the closest edge of the tumour from the margin

furthest from the mouth.

Context: To determine adequacy of resection.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Involved 1

<1mm 2

≥ 1mm (will bring up a text box to specify exact margin) 3

Not recorded 4

Format: Drop-down box

#### Guide for use

Data screen: Post-operative course

Obligation: Mandatory

How to answer: In the text box, specify the exact distal margin in mm, to the nearest whole

number.

# Radial margin

# **Identifying and Definitional Attributes**

Database field name: epi\_resec\_radial\_margin

Definition: The distance, in millimetres, of the closest edge of the tumour from the margin

closest to the deepest penetration of tumour.

Context: To determine adequacy of resection.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Involved 1

<1mm 2

 $\geq$  1mm (will bring up a text box to specify exact margin)

Not recorded 4

Format: Drop-down box

#### Guide for use

Data screen: Post-operative course

Obligation: Mandatory

How to answer: In the text box, specify the exact radial margin in mm, to the nearest whole

number.

# **Closest margin (GIST)**

# **Identifying and Definitional Attributes**

Database field name: epi\_resec\_closest\_margin

Definition: The distance, of the edge of the tumour from the closest margin.

Context: To determine adequacy of resection.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Positive 1

Negative 2 Not recorded 3

Format: Drop-down box

#### Guide for use

Data screen: Post-operative course

Obligation: GIST only

# **Post-operative T-stage**

# **Identifying and Definitional Attributes**

Database field name: epi\_resec\_t\_oeso; epi\_resec\_t\_gastric; epi\_resec\_t\_gist

Definition: The extent of the primary tumour after excision or biopsy of the primary cancer.

Context: To allow for the stage of the tumour to be taken into account in the analysis of

treatment and outcome.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Oesophageal

|     | Oesophageal  |    |
|-----|--|----|
| TX  | Primary tumour cannot be assessed  | 12 |
| T0  | No evidence of primary tumor   | 13 |
| Tis | High-grade dysplasia   | 14 |
| T1  | Tumor invades lamina propria, muscularis mucosae, or submucosa   | 15 |
| T1a | Tumor invades lamina propria or muscularis mucosae   | 16 |
| T1b | Tumor invades submucosa  | 17 |
| T2  | Tumor invades muscularis propria   | 18 |
| T3  | Tumour invades adventitia  | 19 |
| T4  | Tumor invades adjacent structures  | 20 |
| T4a | Resectable tumour invading pleura, pericardium or diaphragm  | 21 |
| T4b | Unresectable tumour invading other adjacent structure such as aorta, vertebral body trachea etc.             | 22 |
|     | Gastric  |    |
| TX  | Primary tumour cannot be assessed  | 1  |
| T0  | No evidence of primary tumor   | 2  |
| Tis | Carcinoma in situ: intraepithelial tumor without invasion of lamina propria                                  | 3  |
| T1  | Tumor invades lamina propria, muscularis mucosae, or submucosa   | 4  |
| T1a | Tumor invades lamina propria or muscularis mucosae   | 5  |
| T1b | Tumor invades submucosa  | 6  |
| T2  | Tumor invades muscularis propria   | 7  |
| Т3  | Tumor penetrates subserosal connective tissue without invasion of visceral peritoneum or adjacent structures | 8  |
| T4  | Tumor invades serosa (visceral peritoneum) or adjacent structures  | 9  |
| T4a | Tumor invades serosa (visceral peritoneum)   | 10 |
| T4b | Tumor invades adjacent structures  | 11 |
|     | GIST   |    |
| TX  | Primary tumour cannot be assessed  | 23 |
| T0  | No evidence of primary tumor   | 24 |
| T1  | Tumor 2cm or less  | 25 |
| T2  | Tumor more than 2cm but not more than 5cm  | 26 |
| T3  | Tumor more than 5cm but not more than 10cm   | 27 |
| T4  | Tumor more than 10cm in greatest dimension   | 28 |
|     |  |    |

Format: Drop-down box

Guide for use

Data screen: Post-operative course

Obligation: Mandatory

How to answer: This information is recorded in the patient's medical file. Choose the lower (less

advanced) T category when there is any uncertainty.

The options seen in the drop-down box will be determined by the answer given in

the Post-operative tumour site question.

# Post-operative N-stage

# **Identifying and Definitional Attributes**

Database field name: epi\_resec\_n\_oeso; epi\_resec\_n\_gastric; epi\_resec\_n\_gist

Definition: Extent of regional lymph node metastasis subsequent to surgical treatment.

Context: To allow for the stage of the tumour to be taken into account in the analysis of

treatment and outcome.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Oesophageal

| NX  | Regional lymph nodes cannot be assessed          | 8  |
|-----|--|----|
| N0  | No regional lymph nodes metastasis               | 9  |
| N1  | Metastasis in 1-2 regional lymph nodes           | 10 |
| N2  | Metastasis in 3-6 regional lymph node            | 11 |
| N3  | Metastasis in seven or more regional lymph nodes | 12 |
|     | Gastric  |    |
| NX  | Regional lymph nodes cannot be assessed          | 1  |
| N0  | No regional lymph nodes metastasis               | 2  |
| N1  | Metastasis in 1-2 regional lymph nodes           | 3  |
| N2  | Metastasis in 3-6 regional lymph node            | 4  |
| N3  | Metastasis in seven or more regional lymph nodes | 5  |
| N3a | Metastasis in 7-15 regional lymph nodes          | 6  |
| N3b | Metastasis in 16 or more regional lymph nodes    | 7  |
|     | GIST   |    |
| NX  | Regional lymph nodes cannot be assessed          | 13 |
| N0  | No regional lymph nodes metastasis               | 14 |
| N1  | Regional lymph node metastasis                   | 15 |
|     |  |    |

Format: Drop-down box

#### Guide for use

Data screen: Post-operative course

Obligation: Mandatory

How to answer: This information is recorded in the patient's medical file. Choose the lower (less

advanced) N category when there is any uncertainty.

The options seen in the drop-down box will be determined by the answer given in

the Post-operative tumour site question.

# Post-operative M-stage

# **Identifying and Definitional Attributes**

Database field name: epi\_resec\_m\_stage

Definition: Absence or presence of distant metastasis subsequent to surgical treatment

Context: To allow for the stage of the tumour to be taken into account in the analysis of

treatment and outcome.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: M0 No distant metastasis 1

M1 Distant metastasis 2

Format: Drop-down box

#### Guide for use

Data screen: Post-operative course

Obligation: Mandatory

How to answer: This information is recorded in the patient's medical file. Choose the lower (less

advanced) M category when there is any uncertainty.

# Total lymph nodes examined

# **Identifying and Definitional Attributes**

Database field name: epi\_total\_lymph\_nodes\_examined

Definition: The number of local/regional nodes examined histopathologically.

Context: To obtain information relating to the quality of the diagnostic process.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Free text

Format: NNNN

#### Guide for use

Data screen: Post-operative course

Obligation: Mandatory for oesophageal and gastric cancers

How to answer: As recorded in the pathology report.

Missing data implies the number of nodes examined is unknown, it does not

imply the number was zero.

# Total lymph nodes positive

# **Identifying and Definitional Attributes**

Database field name: epi\_total\_lymph\_nodes\_positive

Definition: The number of local/regional nodes positive for cancer cells.

Context:

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Free text

Format: NNNN

#### Guide for use

Data screen: Post-operative course

Obligation: Mandatory for oesophageal and gastric cancers

How to answer: As recorded in the pathology report.

Missing data implies the number of nodes positive is unknown, it does not imply

the number was zero.

# Lymphovascular invasion

# **Identifying and Definitional Attributes**

Database field name: epi\_lymph\_invasion

Definition: Tumour cells observed within the lumen of blood or lymphatic vessels.

Context: Whether vascular/lymphatic invasion is present also lends more information

related to prognosis.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes 1

No 2

Not recorded 3

Format: Drop-down box

#### Guide for use

Data screen: Post-operative course

Obligation: Mandatory for oesophageal and gastric cancers

How to answer: As reported in pathology report or noted by surgeon.

# **Perineural invasion**

# **Identifying and Definitional Attributes**

Database field name: epi\_perineural\_invasion

Definition: Tumour cells observed in the space surrounding a nerve

Context: Whether perineural invasion is present also lends more information related to

prognosis.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Yes 1

No 2

Not recorded 3

Format: Drop-down box

#### Guide for use

Data screen: Post-operative course

Obligation: Mandatory for oesophageal and gastric cancers

How to answer: As reported in pathology report or noted by surgeon.

# Mitoses/50 high powered fields

# **Identifying and Definitional Attributes**

Database field name: epi\_gist\_mitoses

Definition: The number of mitotic figures (cells undergoing division) per 50 high-powered

fields.

Context: Used to measure risk of recurrence or metastases.

# **Relational and Representational Attributes**

Data type: Numeric

Data Domain: <5 mitoses/50 HPF

5-10 mitoses/50 HPF 2 >10 mitoses/50 HPF 3

Format: Drop-down box

#### Guide for use

Data screen: Post-operative course

Obligation: GIST only

How to answer: The mitotic count is expressed in the pathology report as the number of mitoses

counted in 50 fields. Record the number of mitoses.

#### Risk of metastatic behaviour

# **Identifying and Definitional Attributes**

Database field name: epi\_resec\_risk\_metastatic

Definition: Assessment of the probability of developing tumours in new locations subsequent

to successful removal of a primary GIST. National Institutes of Health Risk

Table is used.

Context: This question is automatically created based on answers for Post-operative M

Stage, Post-operative T-Stage (GIST) and Mitoses/50 HPF fields.

#### **Relational and Representational Attributes**

Data type: Numeric

Data Domain: Very low 1

Low 2
Intermediate 3
High 4

Format: Auto-calculated

#### Guide for use

Data screen: Post-operative course

Obligation: non-metastatic GIST only

How to answer: This question will be automatically calculated based on the below definitions.

Very low risk: Tumour size <2cm; Mitotic Count < 5/50 HPF.

Low risk: Tumour size 2-5cm; Mitotic Count < 5/50 HPF.

Intermediate risk: Tumour size <5cm; Mitotic Count 6-10/50 HPF.

OR Tumour size 5-10cm; Mitotic Count <5/50 HPF.

High risk: Tumour size >5cm; Mitotic Count >5/50 HPF.

OR Tumour size >10cm; any Mitotic Count

This scheme does not apply to GISTs that are already metastatic at the time of

diagnosis.

# **General comments on Resection Specimen Histopathology**

# **Identifying and Definitional Attributes**

Database field name: epi\_resec\_comments

Definition: Any information which needs to be recorded in regards to histopathology that is

not covered by previous questions.

Context: Allows for a record of extra information not recorded in set questions.

# **Relational and Representational Attributes**

Data type: Text

Data Domain: Free text

Format: Alphanumeric

Guide for use

Data screen: Post-operative course

Obligation: Optional

How to answer: Record here any additional relevant features of the case.

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