

## Appendix 1

## Data dictionary

| Initial diagnosis  | Required data (definition/comment)  |
|--|---|
| 1. Patient age   | ___ Years (whole years at the time of diagnosis)  |
| 2. Patient sex   | Male/Female   |
| 3. Charlson Comorbidity Index  | Myocardial infarct/Heart failure/Peripheral vascular disease/CVA or TIA/Dementia/COPD/Connective tissue disorder/Peptic ulcer disease/liver disease/Diabetes Mellitus/Hemiplegia/Moderate to severe CKD/Leukaemia/Lymphoma/AIDS |
| 4. What is the site of the cancer?   | Oesophagus (proximal/middle/distal)/GEJ /Stomach (proximal/body/antrum/pylorus)   |
| 5. Was patient being managed within a Barrett's oesophagus surveillance programme? | No/Yes  |
| 6. Any history of dysplasia within Barrett's?                                      | No/Yes  |
| 7. Any previous history of anti-reflux surgery?                                    | No/Yes  |
| 8. Any current relevant medications?   | PPI/H2 antagonist/aspirin   |
| 9. Findings at diagnostic gastroscopy  | Hiatus hernia/Barrett's (Prague C___ M___)<br>Site of lesion (___ cm from incisors)<br>Size of lesion (___ mm)  |
| 10. Biopsy histology   | Adenocarcinoma/squamous cell carcinoma/HGD/Other _____  |
| 11. Additional staging investigations  | CT/PET/EUS/Staging laparoscopy (tick all that apply)  |

| Treatment                   | Required data (definition/comment)   |
|-----------------------------|--|
| 1. Index treatment received | None/Endoscopic resection/Surgical resection/oncological treatment<br>-> If any treatment other than endoscopic: What was pre-treatment staging? T1aN0/T1bN0 (sm1/sm2-3/sm not reported)/HGD |

| Endoscopic resection                                 | Required data (definition/comment)  |
|--|---|
| 1. Type of Endoscopic resection                      | EMR/ESD   |
| 2. Complications                                     | Bleeding requiring reintervention or transfusion/Perforation/sedation or drug related/other ____/<br>None   |
| 3. Histological outcome                              | Grade: LGD/HGD/T1a (m1/m2/m3/m not reported)/T1b (if T1b then option for sm1 (<=500um)/ >sm1 (>500um)/sm invasion depth not reported)/>T1b<br><br>If ESD: Malignant involvement of circumferential margin? y/n/equivocal or unclear/not reported<br><br>Malignant involvement of deep margin? y/n/equivocal or unclear/not reported<br><br>Lymphovascular invasion? y/n/ not reported<br><br>Differentiation (select worst option if mixed type)? well/moderate/poor/not reported<br><br>Signet ring cells? y/n |
| 4. Recommended management after endoscopic resection |   |

| Endoscopic surveillance   | Required data (definition/comment)   |
|---|--|
| 1. Was additional endoscopic treatment to remaining areas of Barretts performed | Argon plasma coagulation/radiofrequency ablation/ cryoablation/ PDT/no/other (please state)/n/a (no Barretts)  |
| 2. Was any routine imaging used as part of the surveillance program?            | No/CT/PET/EUS (select all that apply)  |
| 3. Was any local recurrence of cancer diagnosed at any point?                   | If yes -><br>→Was this diagnosed as part of a routine endoscopic follow-up programme?<br>→ How many months from original endoscopic resection to diagnosis of recurrence? _____<br>-> What clinical stage was the cancer recurrence diagnosed at? T1a/b/2/3/4 N1/2/3 M0/1<br>-> Was any further intervention undertaken to treat recurrence with curative intent?<br>endoscopic resection/surgery +/- oncological therapy/chemotherapy only/radiotherapy only/<br>chemoradiotherapy only then go to appropriate logic branch<br>If no -> follow-up outcomes logic branch |

| Radiological surveillance only                                | Required data (definition/comment)   |
|---|--|
| 1. What imaging was used as part of the surveillance program? | No/CT/PET (select all that apply)  |
| 2. Was any local recurrence of cancer diagnosed at any point? | If yes -> Was this diagnosed as part of a routine radiological follow-up programme?<br>→ How many months from original endoscopic resection to diagnosis of recurrence?<br>-> What clinical stage was the cancer recurrence diagnosed at? T1a/b/2/3/4 N1/2/3 M0/1<br>-> Was any further intervention undertaken to treat recurrence with curative intent?<br>endoscopic resection/surgery +/- oncological therapy/chemotherapy only/radiotherapy only/<br>chemoradiotherapy only then go to appropriate logic branch<br>If no -> follow-up outcomes logic branch |

| Definitive oncological treatment |   |
|----------------------------------|---|
| 1. Primary modality              | Chemotherapy/chemoradiotherapy/radiotherapy [then offer appropriate options from below]   |
| 2. Chemotherapy agent            | Carboplatin/paclitaxel (i.e. as part of CROSS)<br>5FU, leucovorin, oxaliplatin, docetaxel (FLOT)<br>Cisplatin/capecitabine<br>Cisplatin and capecitabine/5FU<br>Carboplatin and capecitabine/5FU<br>Oxaliplatin and capecitabine/5FU<br>Epirubicin, cisplatin, capecitabine<br>Other (freetext) |
| 3. Radiotherapy                  | External beam radiotherapy 41.4 Gy (CROSS)<br>External beam radiotherapy 45 Gy<br>External beam radiotherapy 50 Gy<br>External beam radiotherapy 54 Gy<br>External beam radiotherapy 60 Gy<br>Brachytherapy 10 Gy<br>Brachytherapy 15 Gy<br>Other _____   |

|  |  |
|--|--|
| Curative Surgery                               |  |
| 1. Neoadjuvant therapy                         | Did the patient receive neoadjuvant treatment? y/n [offer below options if y]  |
| 2. Neoadjuvant chemotherapy                    | None<br>Carboplatin/paclitaxel (e.g. CROSS)<br>5FU, leucovorin, oxaliplatin, docetaxel (FLOT)<br>Cisplatin/capecitabine<br>Cisplatin and capecitabine/5FU<br>Carboplatin and capecitabine/5FU<br>Oxaliplatin and capecitabine/5FU<br>Epirubicin, cisplatin, capecitabine<br>Other (freetext)       |
| 3. Neoadjuvant radiotherapy                    | External beam radiotherapy 41.4 Gy (CROSS)<br>External beam radiotherapy 45 Gy<br>External beam radiotherapy 50 Gy<br>External beam radiotherapy 54 Gy<br>External beam radiotherapy 60 Gy   |
| 4. Operation type                              | 2-stage IL/3-stage/Transhiatal/Thoracoabdominal/Proximal gastrectomy/Distal gastrectomy/<br>Total gastrectomy/Extended total gastrectomy   |
| 5. Abdominal approach                          | Open/Laparoscopic/Laparoscopic converted to open/Robotic/Robotic converted to<br>laparoscopic/Robotic converted to open  |
| 6. Thoracic approach                           | Not applicable/Open/Laparoscopic/Laparoscopic converted to open/Robotic/Robotic converted<br>to laparoscopic/Robotic converted to open   |
| 7. Post-operative length of stay<br>(hospital) | Number (days between from the <u>first post-operative day</u> to <u>day of discharge</u> . If the patient has<br>not been discharged prior to the end of 30-day follow-up, enter '31').  |
| 8. Highest 30-day complication grade           | None/Grade I (does not require change to management)/Grade II (requiring medical or<br>pharmaceutical management)/Grade IIIa (requiring endoscopic or radiological intervention)/<br>Grade IIIb (requiring reoperation)/Grade IV (requiring unplanned intensive care admission)/Grade<br>V (death) |
| 9. Reoperation required                        | No/Yes   |
| 10. Unplanned readmission by day 30            | No/Yes   |

| Postoperative Pathology Data Fields  | Required data (definition/comment)  |
|--|---|
| 1. T stage   | T0/T1a/T1b/T2/T3/T4<br>If T1a: m1, m2, m3, not reported<br>If T1b: sm1, sm2-3, not reported                 |
| 2. N stage   | N0/N1/N2/N3   |
| 3. Lymph nodes examined  | (number)  |
| 4. Lymph nodes positive  | (number)  |
| 5. Proximal longitudinal margin  | R0 (>1mm)/R1a (<1mm)/R1b (involved margin)/R2   |
| 6. Distal longitudinal margin  | R0 (>1mm)/R1a (<1mm)/R1b (involved margin)/R2   |
| 7. Circumferential margin  | R0 (>1mm)/R1a (<1mm)/R1b (involved margin)/R2   |
| 8. Lymphovascular invasion   | No/Yes  |
| 9. Tumour differentiation  | Well/Moderate/Poor/Anaplastic   |
| 10. Were any signet ring cells present?                                    | No/Yes  |
| 11. Did the patient receive any adjuvant<br>(post-operative) chemotherapy? | No/Yes  |
| 12. Did the patient suffer cancer<br>recurrence at any point?              | Yes -> how long between surgery and recurrence (months)<br>No -> Then go to follow-up outcomes logic branch |

| Follow-up Outcomes Data Fields   | Required data (definition/comment) |
|--|------------------------------------|
| 1. At last follow-up, what is the patients status?                         | Dead/Alive                         |
| 2. What is the time duration from diagnosis to last known follow-up/death? | (months)                           |