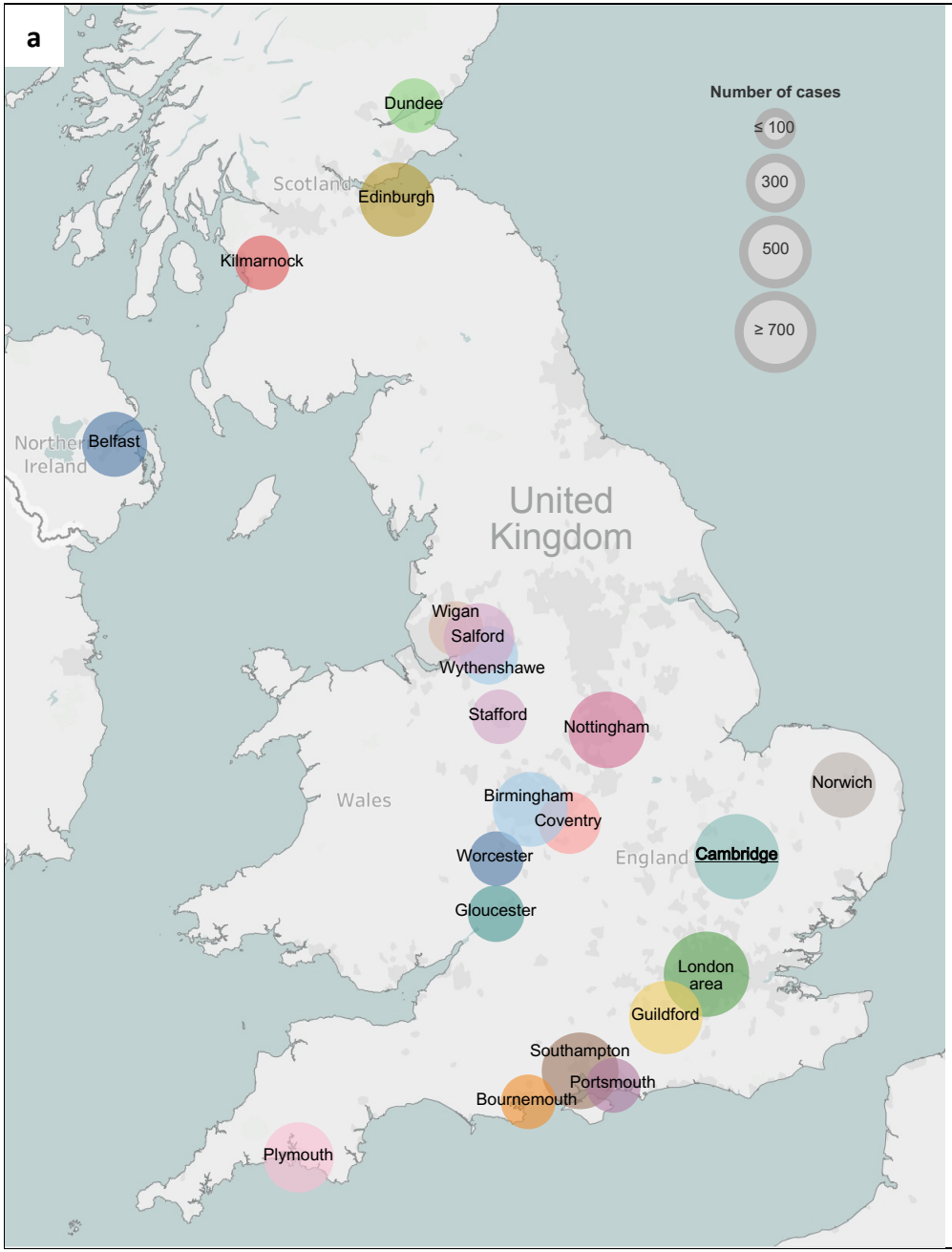

OCCAMS

Oesophageal Cancer Clinical and Molecular Stratification

b

4,440
Oesophageal Cancer Patients

44,000
Individual Samples

1,063
Patients with
Whole-Genome Sequencing
+
386
RNAseq. Data
+
284
Methylation Array Data
&
103 WGS **+** **38** RNAseq.
of Barrett's Oesophagus

Patient data:

- Demographics, epidemiological and lifestyle factors
- Diagnostic information (endoscopy, pathology & imaging)
- Treatment regimen and response
- Recurrence details
- Survival data linked to national databases (e.g., ONS)

Biobank samples:

- Endoscopic & surgical specimens
- Formalin-fixed paraffin embedded (FFPE) blocks
- Peripheral blood/plasma & 2x spun plasma for ctDNA
- Metastatic tumour samples
- Barrett's Oesophagus samples with dysplasia, paired with tissue from the adjacent invasive tumour

Omics resource:

- Average WGS depth of 50X for malignant lesions
- WGS of matched normal tissue
- Single-cell-seq, ChIP-seq and ATAC-seq
- Tissue microarrays
- 3D organoid models with WGS