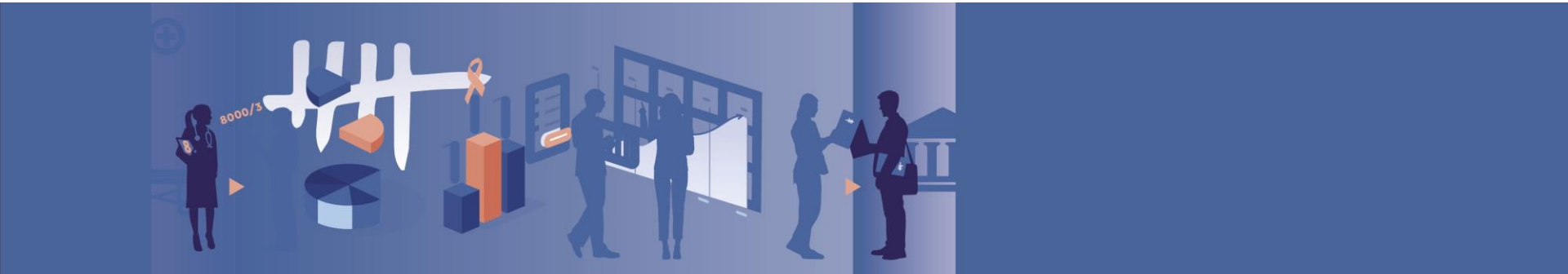




Epidemiology of mesenchymal tumours & lymphomas of the GI tract



Outline

- Belgian Cancer Registry
- Tumours of the gastro-intestinal tract
- Mesenchymal tumours of the gastro-intestinal tract
- Lymphomas of the gastro-intestinal tract



Belgian Cancer Registry: data collection

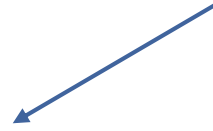
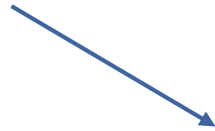
~ 70 Laboratories for Pathological Anatomy

~ 100 Oncological care programmes

1,100,000 records per year



Pathology report
+
Structured dataset



Belgian Cancer Registry

130,000 records per year



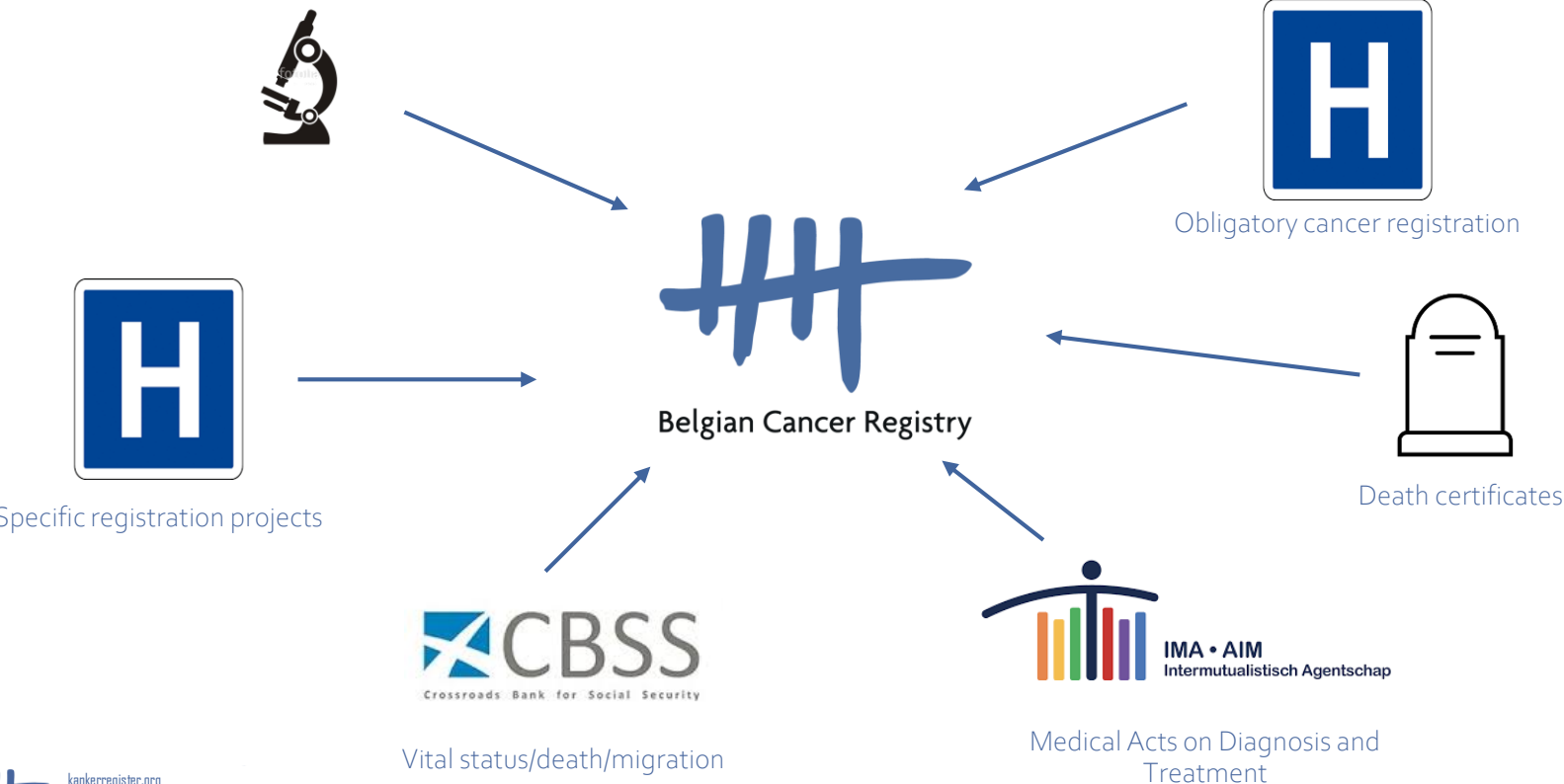
BCR registration form



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Belgian Cancer Registry: data flow





Cancers of the gastro-intestinal tract

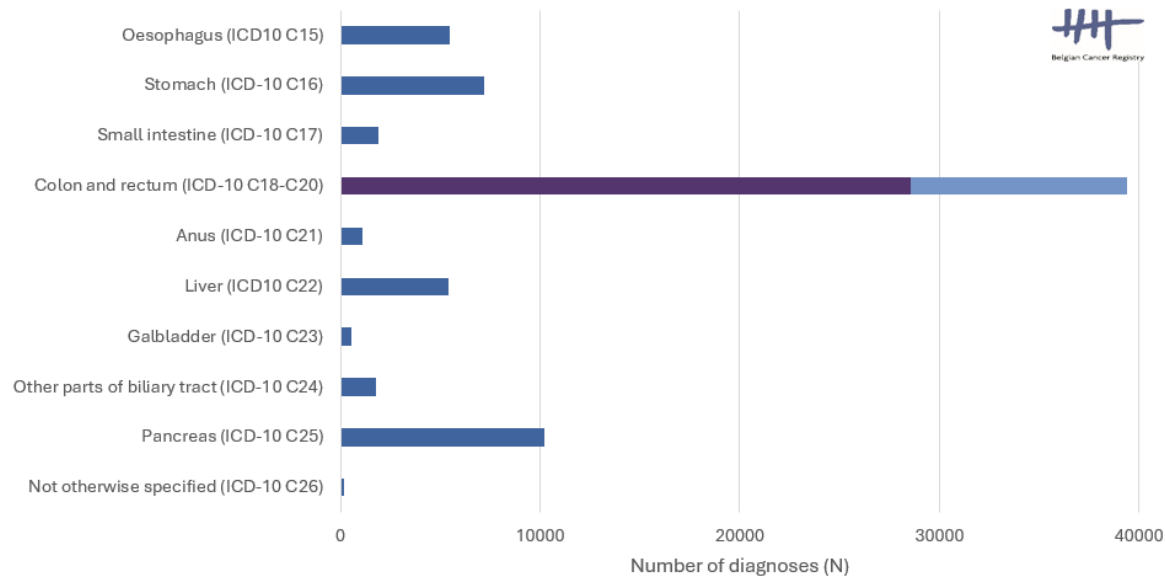
Incidence of malignant tumours of the GI tract

2021: 15 022 new diagnoses

- Males: 8 650
- Females: 6 372

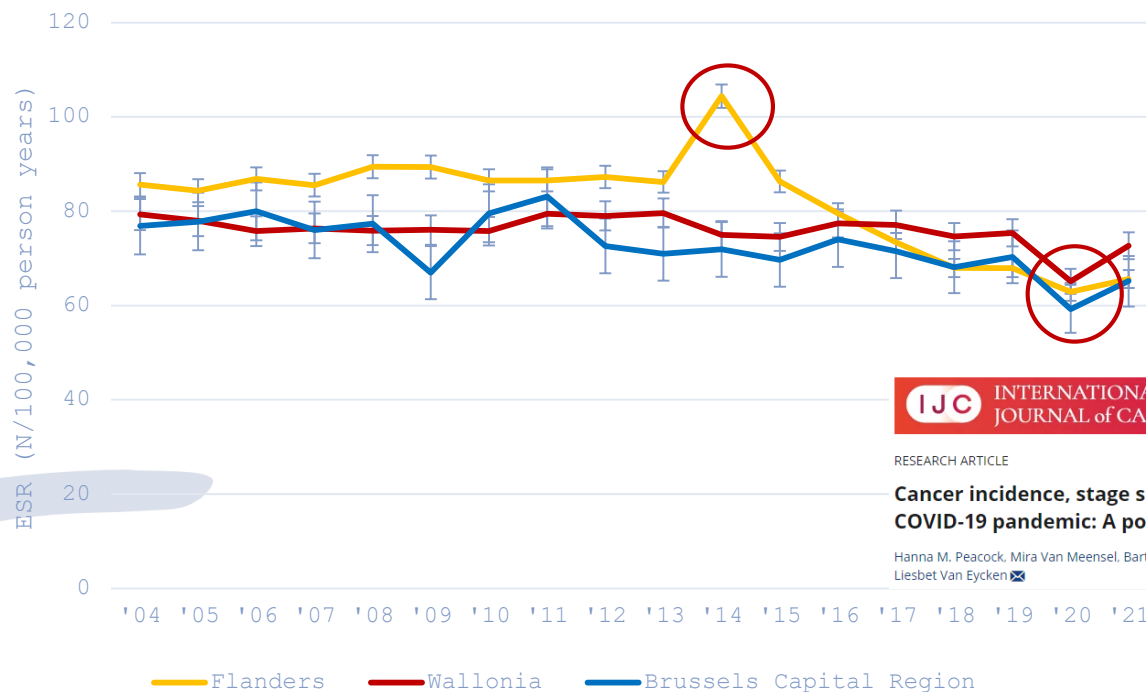
Inclusion criteria for tumours of the GI tract:

ICD-10 C15-C26



Incidence of tumours of the GI tract by primary tumour localization, Belgium, 2017-2021

Colorectal cancer: Incidence trends of malignant tumours



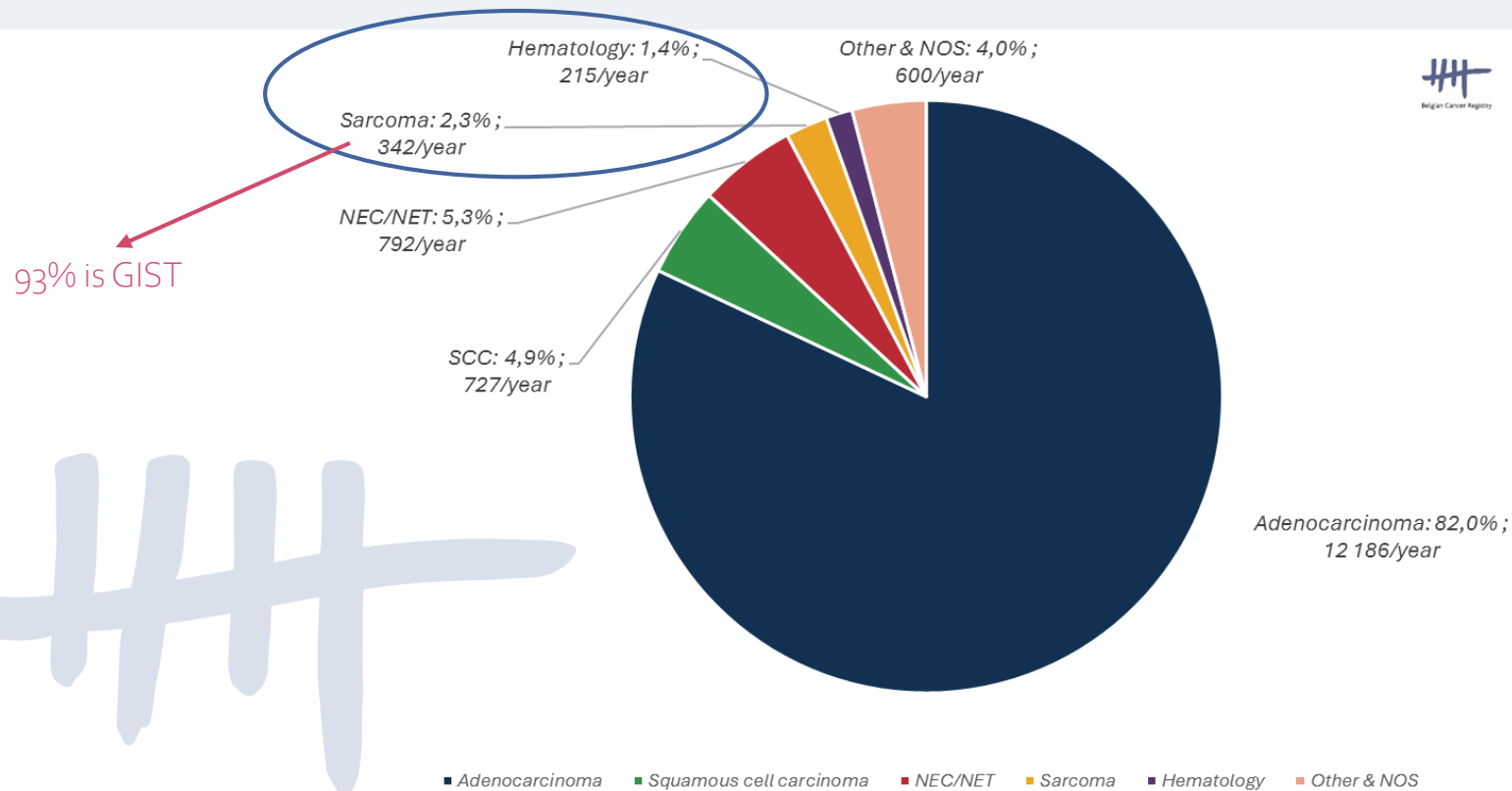
IJC INTERNATIONAL JOURNAL of CANCER UICC

RESEARCH ARTICLE

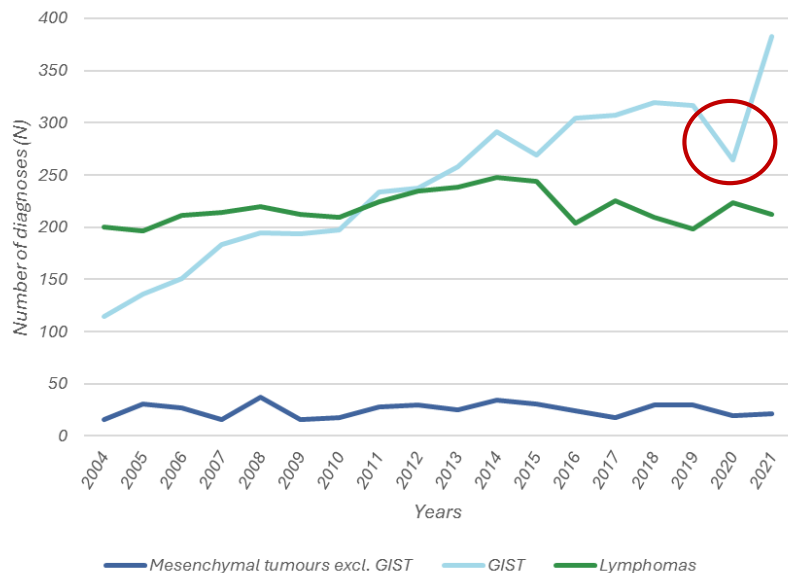
Cancer incidence, stage shift and survival during the 2020 COVID-19 pandemic: A population-based study in Belgium

Hanna M. Peacock, Mira Van Meensel, Bart Van Gool, Geert Silversmit, Kris Dekoninck, James D. Brierley, Liesbet Van Eycken ✉

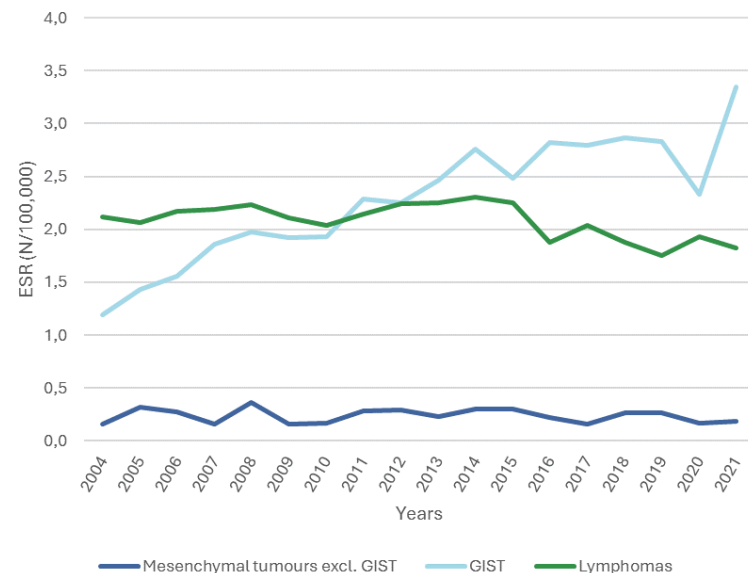
Incidence of malignant tumours in the GI tract by histological subtype



Incidence of malignant mesenchymal tumours and lymphomas of the GI tract



Trends in the incidence of mesenchymal tumours* and lymphomas of the GI tract, Belgium, 2004-2021



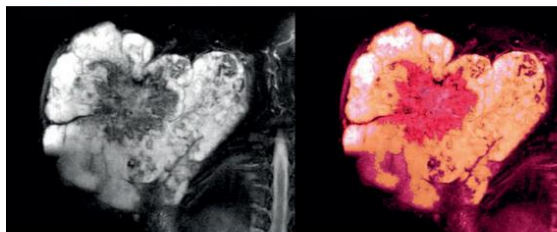
Trends in the incidence of mesenchymal tumours* and lymphomas of the GI tract, Belgium, 2004-2021



Malignant Mesenchymal tumours of the gastro-intestinal tract

BCR Report: Bone & Soft Tissue Tumour Epidemiology

Soft tissue and visceral sarcoma: Incidence distribution by primary tumour location, Belgium 2017-2021



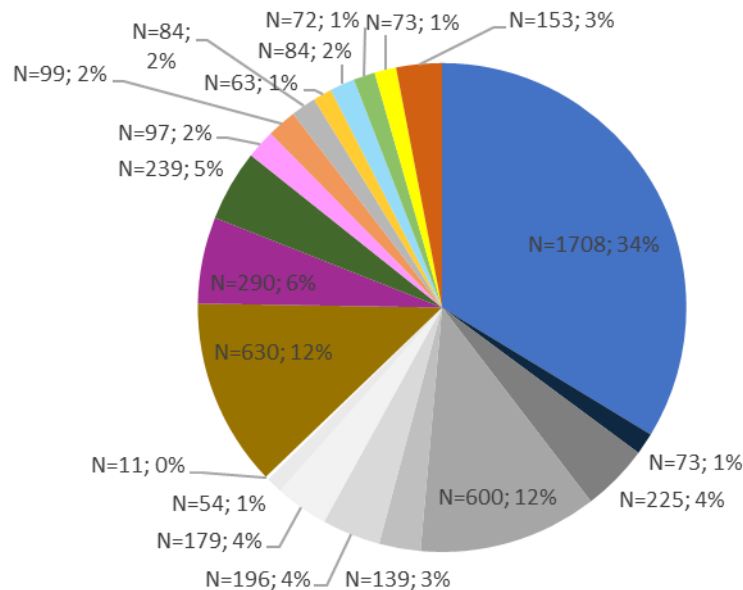
BELGIAN CANCER REGISTRY



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Fondation contre le Cancer
Stichting tegen Kanker

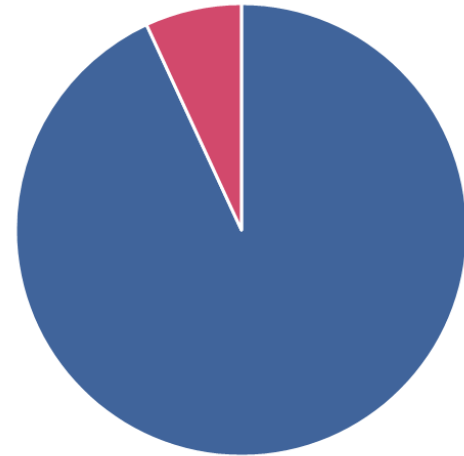


- Digestive system (C15-C26)
- Lower limb & hip (C49.2)
- Pelvis (C49.5)
- Skin (C44)
- Breast (C50)
- Peripheral & auton. nervous system (C47)
- Urinary system (C64-C68)
- Head & neck (C49.0)
- Thorax (C49.3)
- Trunk, not specified (C49.6)
- Female genital (C51-C58)
- Head & neck (C00-C14; C30-C32)
- Male genital (C60-C63)
- Other & unspecified
- Upper limb & shoulder (C49.1)
- Abdomen (C49.4)
- Unspecified (C49.8-C49.9)
- (Retro)peritoneum (C48)
- Trachea & lungs (C33-C34)
- Heart, mediastinum & pleura (C38)

Malignant mesenchymal tumours of the GI tract

Malignant mesenchymal tumours of the GI tract (2017-2021)

- Gastrointestinal stromal tumours: 1590
- Other malignant mesenchymal tumours: 118
 - Adipose tissue and (myo)fibroblastic tumours: 1
 - Smooth muscle and skeletal muscle tumours: 38
 - Vascular and perivascular tumours: 40
 - Neural tumours: 1
 - Tumours of uncertain differentiation: 6
 - Other: 32

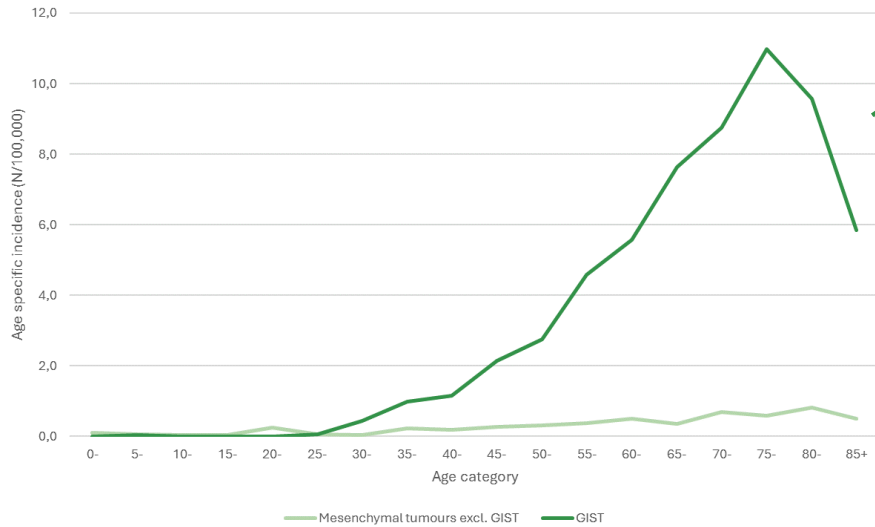


■ Gastrointestinal stromal tumour ■ Other mesenchymal tumours of the GI tract

Malignant mesenchymal tumours of the GI tract, Belgium, 2017-2021



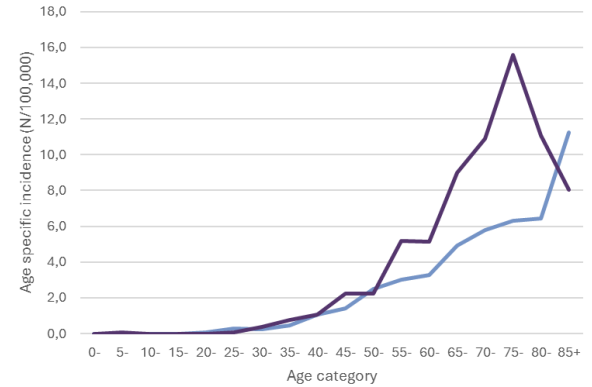
Malignant mesenchymal tumours: age-specific incidence



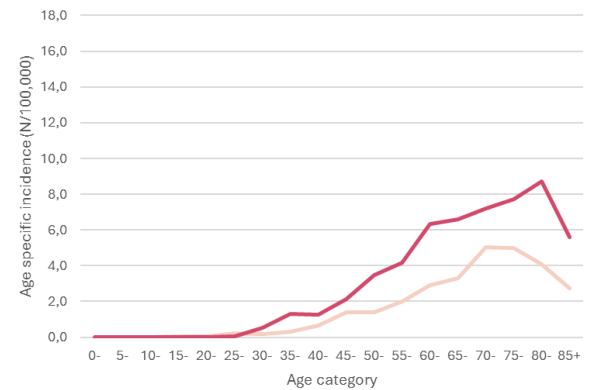
Age-specific incidence of mesenchymal tumours of the GI tract, Belgium, 2017-2021



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— 2004-2008 — 2017-2021

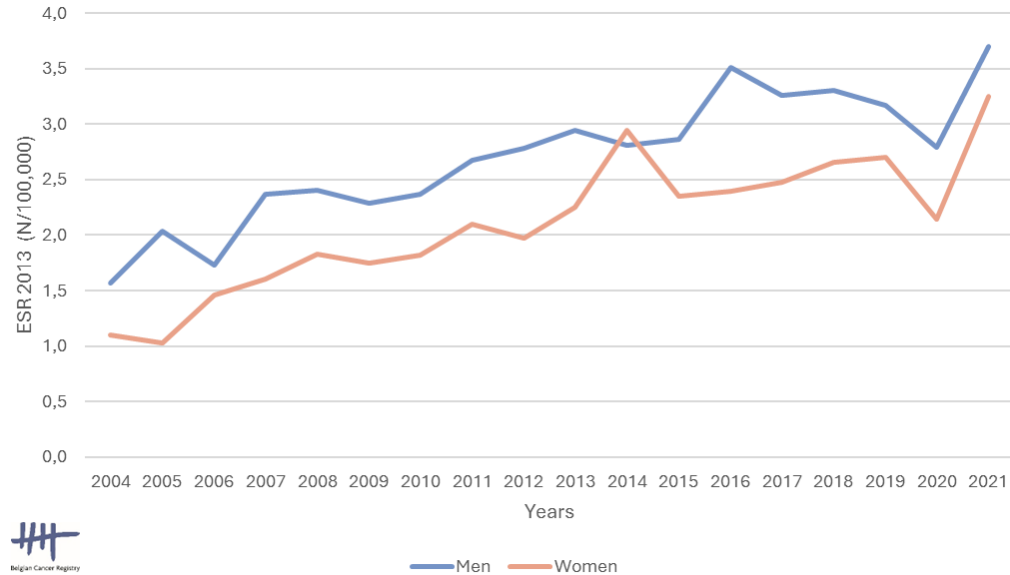


— 2004-2008 — 2017-2021

Age-specific incidence of GIST by sex, Belgium, 2004-2008 and 2017-2021

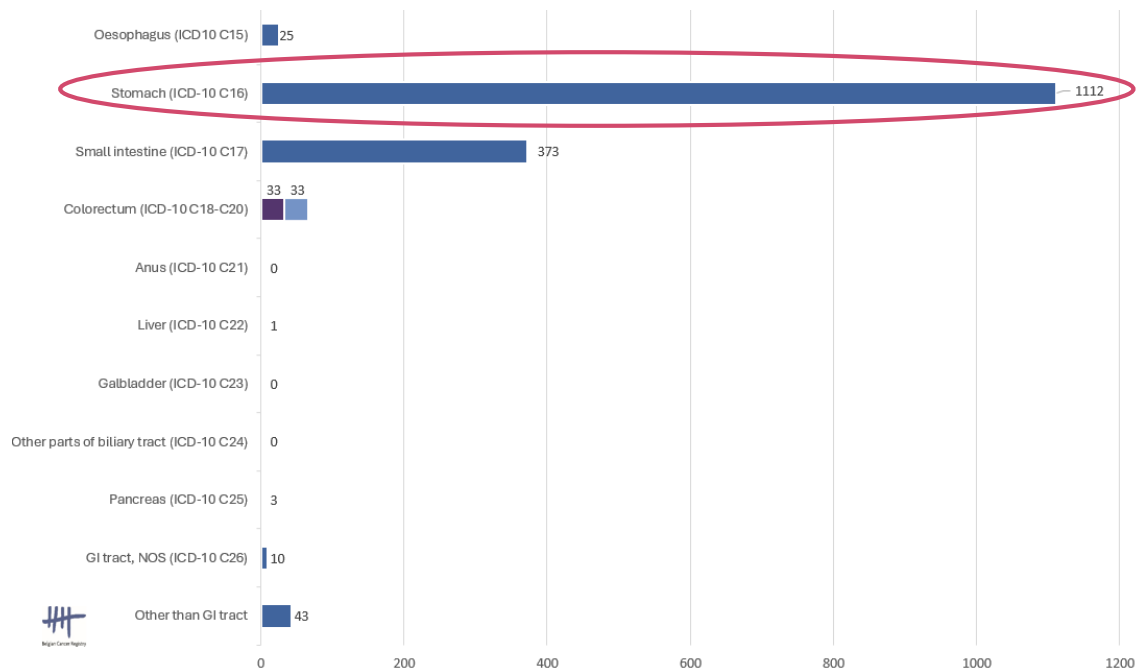


Gastro-intestinal stromal tumours (GIST): trends in the incidence



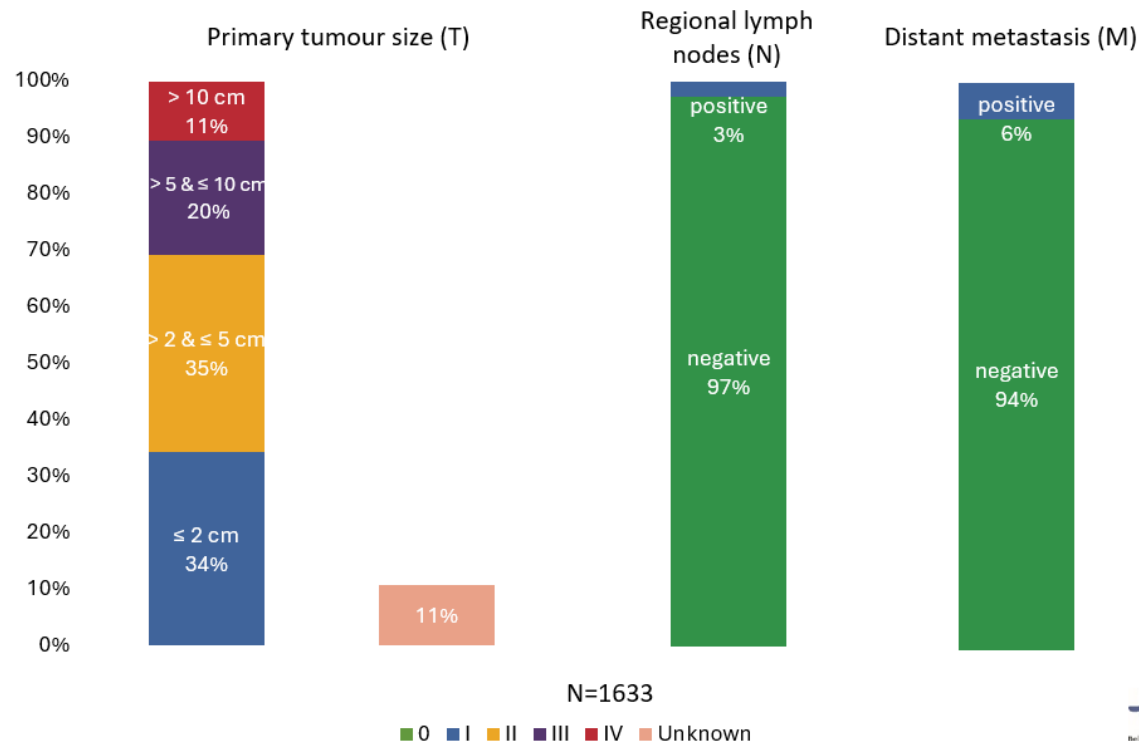
Trends in the incidence of gastro-intestinal stromal tumours (GIST), Belgium, 2004-2021

Gastro-intestinal stromal tumours (GIST): distribution by topography



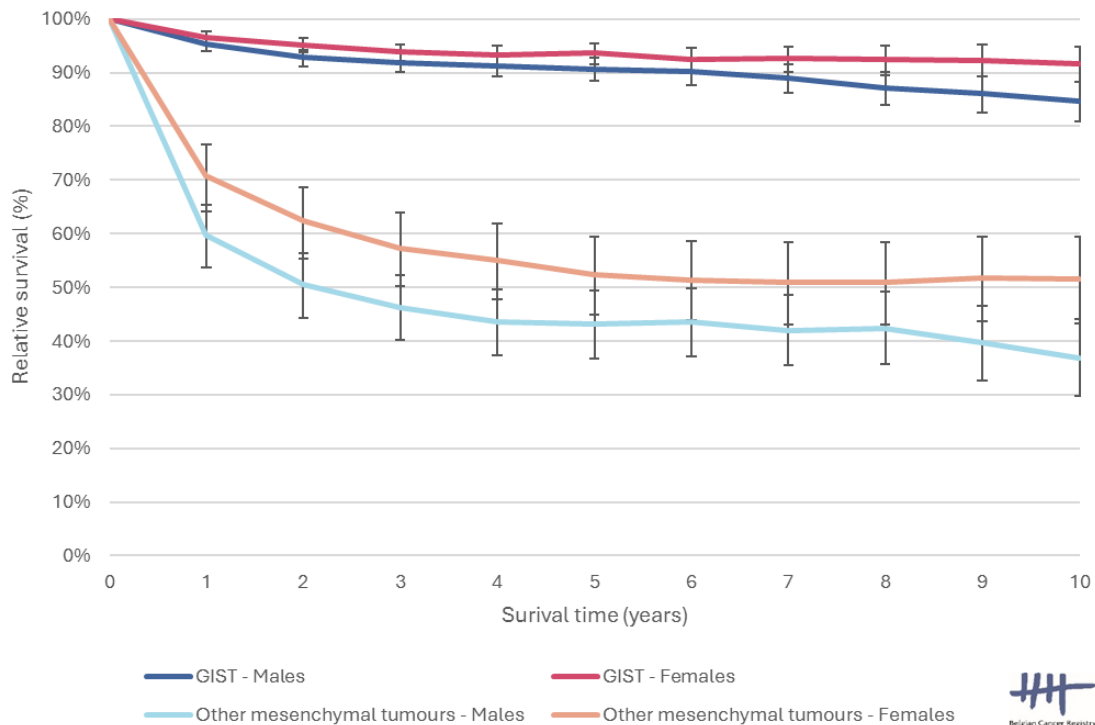
Distribution of GIST in the GI tract, Belgium, 2017-2021

GIST: distribution by tumour size, regional lymph nodes and metastasis



GIST: distribution by tumour size, regional lymph nodes and metastasis, Belgium, 2017-2021

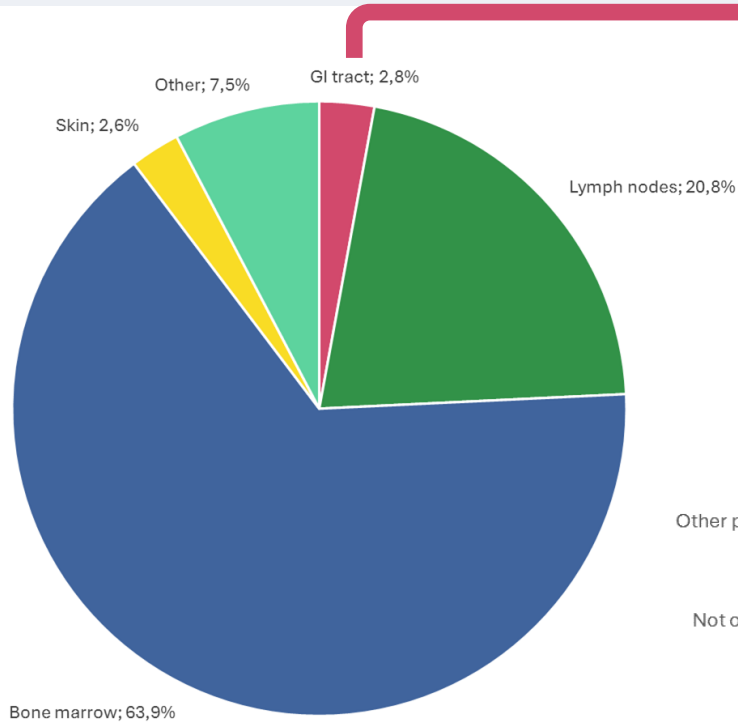
Malignant mesenchymale tumours of the GI tract: relative survival by sex



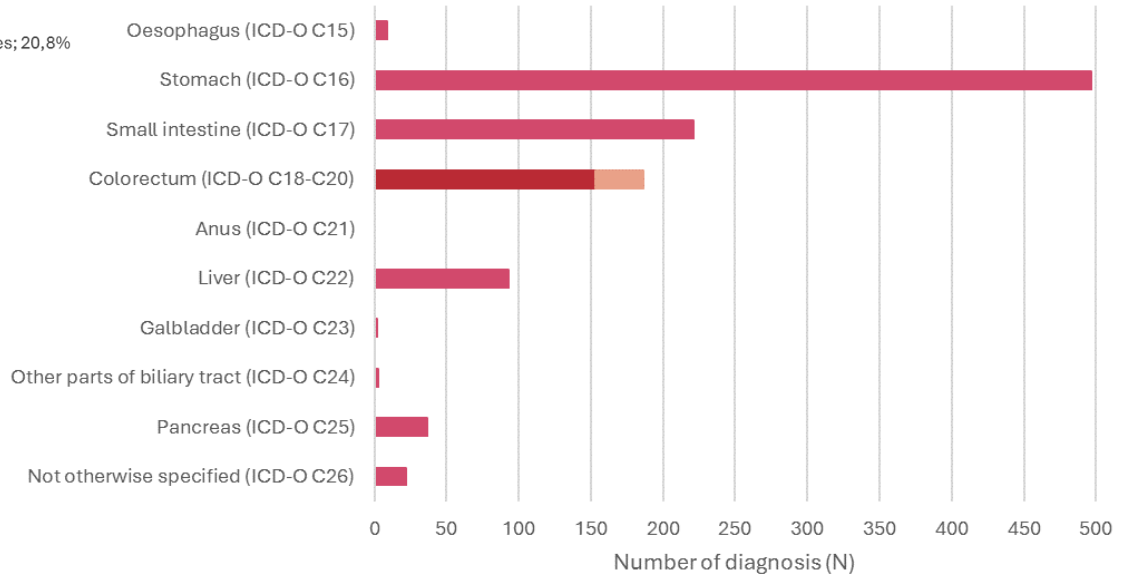


Lymphomas of the gastro-intestinal tract

Haematological malignancies of the GI tract



Proportion of Haematological malignancies by primary tumour localization, Belgium, 2017-2021



Distribution of lymphomas in the GI tract, Belgium, 2017-2021

What do we mean by "Primary lymphoma of the digestive system"?

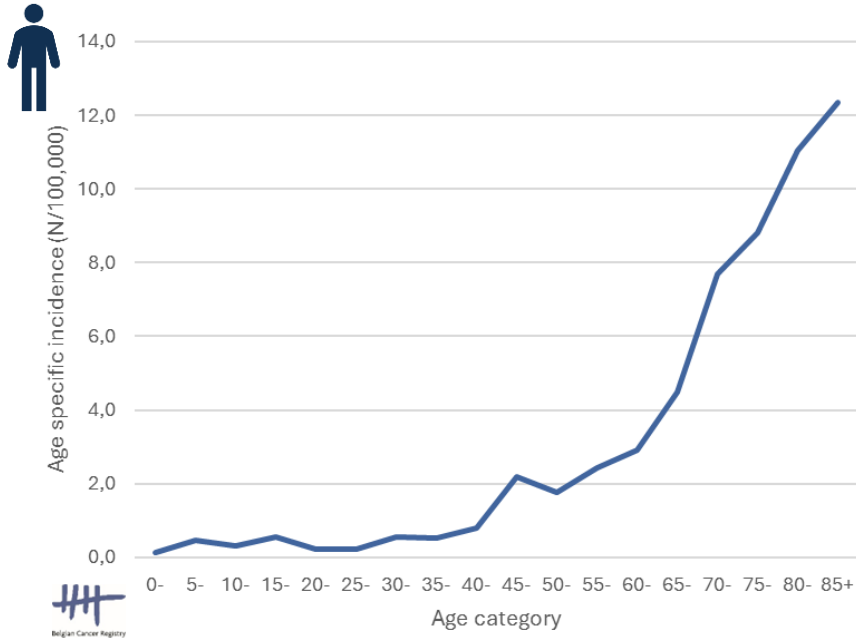
Various types of lymphomas, occur in the digestive system with variable frequencies, either as **primary disease** or as **part of systemic involvement**.

Definition in "WHO Classification - Digestive System Tumours (5th ed.)":

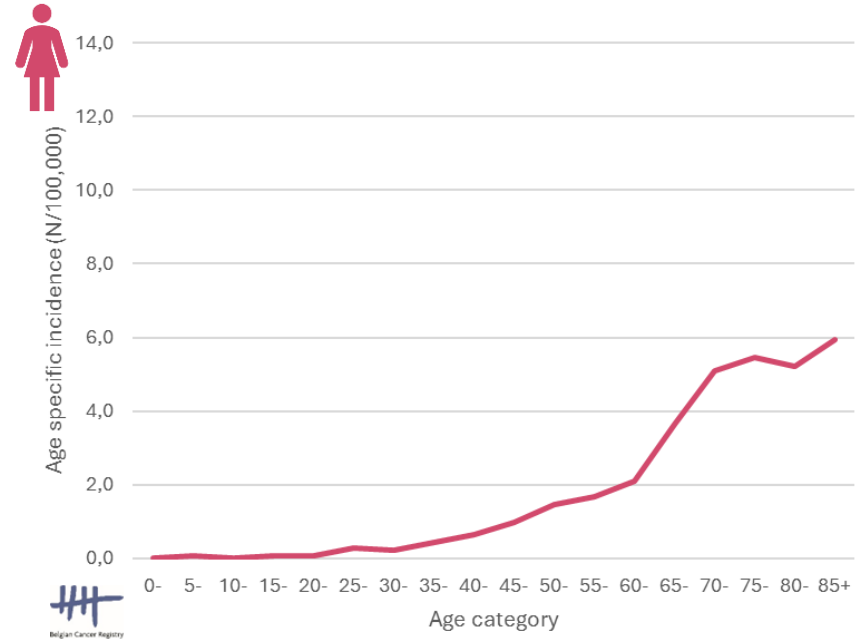
Primary lymphoma of the digestive system, if strictly defined, refers to an **extranodal** lymphoma arising in a specific site of the digestive system, with the bulk of disease localized to the site, with or without regional lymph node involvement.

- Therefore, results reported in different studies are not necessarily comparable, due to the use of different inclusion criteria
- Problem if also lymph node involvement or several extranodal sites → lymphoma may be recorded as primary of abdominal lymph nodes or other extranodal site!

Lymphomas of the GI tract: age-specific incidence

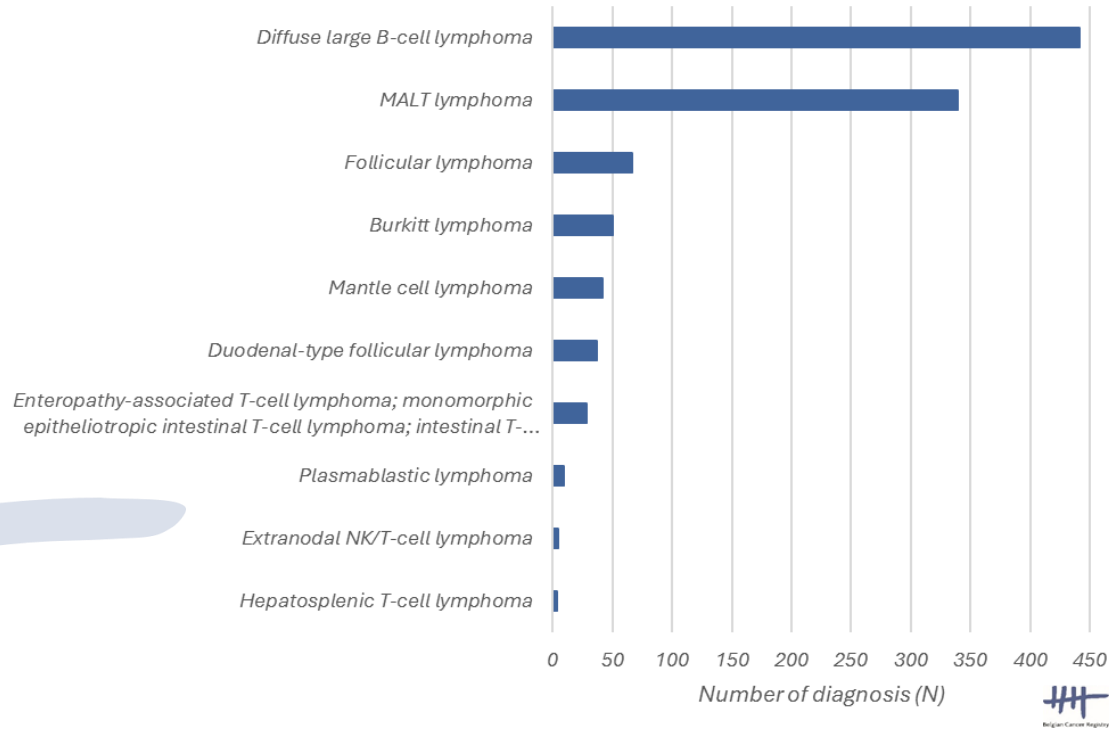


Age-specific incidence of lymphomas of the GI tract, males, Belgium, 2017-2021



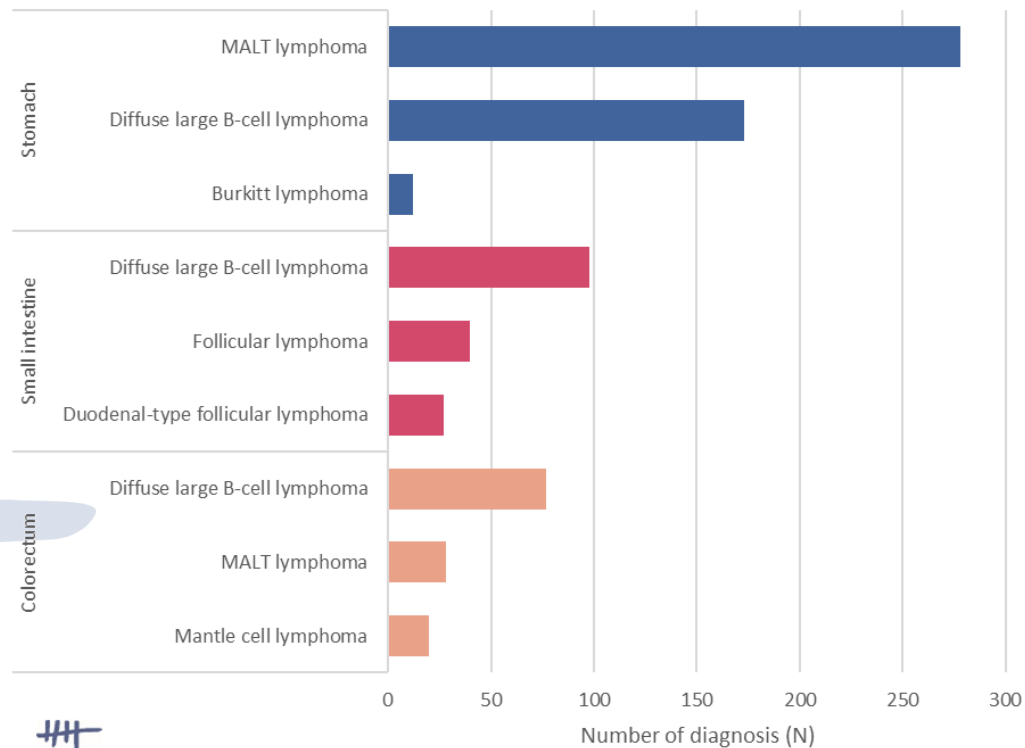
Age-specific incidence of lymphomas of the GI tract, females, Belgium, 2017-2021

Most frequent lymphomas in the GI tract



Most frequent lymphomas in the GI tract, Belgium, 2017-2021

Most frequent lymphomas by tumour localization



Most frequent lymphomas in the stomach, small intestine and colorectum, Belgium, 2017-2021

Inclusion criteria: ICD-10 C16; C17; C18-C20

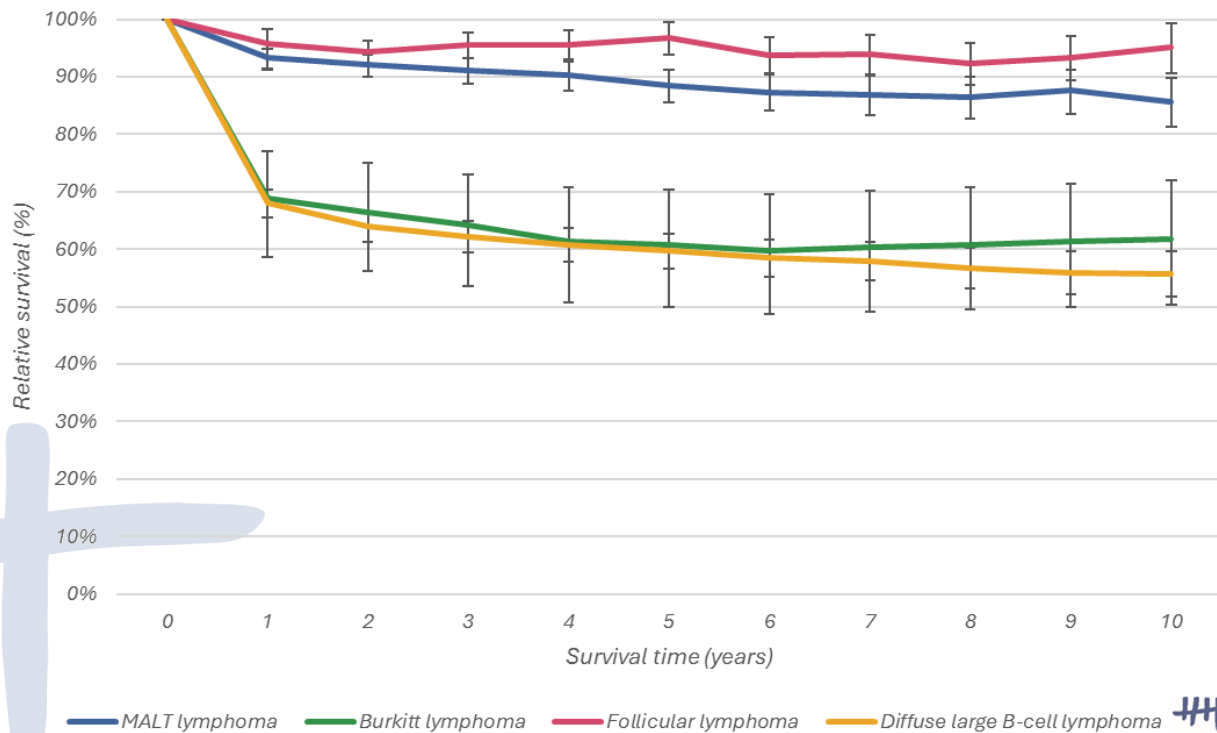


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Belgian Cancer Registry

Lymphomas of the GI tract: relative survival



Lymphomas of the GI tract: relative survival by sex, Belgium, 2004-2021

The relative survival values are presented with 95% confidence intervals

Conclusions

- Data from both labs for pathological anatomy and oncology care programs are crucial
- Complete data on malignant tumours are available at BCR enabling research on rare subtypes
- GIST incidence increases by 5%/year
 - Currently >350 diagnoses/year
 - 5y relative survival >90%





For sending the pathology data to the Belgian Cancer Registry



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