

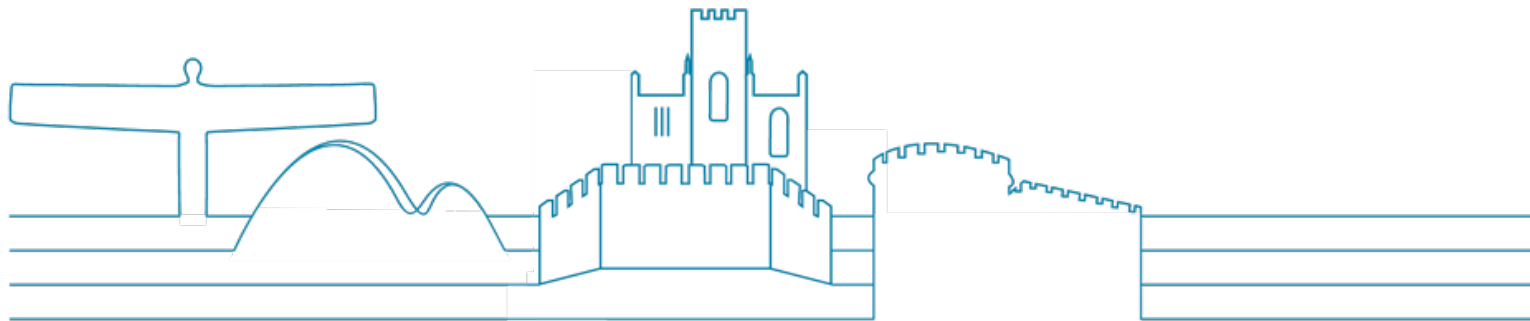


Cancer Decision Support (CDS) Tools

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Introduction

- NHS Early Diagnosis ambitious targets
 - increase proportion of cancers diagnosed at **stage I & II to 75% by 2028.**
- How can we use CDS tools and resources to help identify cancer suspected patients and refer for diagnosis earlier?
- All these tools are based on NG12 Guidelines not local guidelines.
- **These sessions are recorded**



Collaborating to improve cancer care

Free Web-based CDS Tools

- First 15mins
 - Outline of 2 free online tools
 - Q Cancer
 - Cancer maps (C Gateway)
- Next 45 mins
 - Then Ardens will demonstrate how you can utilise their tools within your GP IT Systems.
 - **ALL** levels of Ardens package has access to these tools.



Collaborating to improve cancer care



Q Cancer – a patient centred score

- <https://www.qcancer.org>
- Gender specific patient centred score
- **Today's QCancer[®] score**
 - gives a risk of undiagnosed cancer for the individual across a whole range of tumour sites.
- **The QCancer[®] 10 year score**
 - risk of a patient developing cancer over the next 10 years given their individual risk factors
- Can be integrated within EMIS
- **NOTE – DOES NOT FOLLOW LOCAL PATHWAYS**



Collaborating to improve cancer care

This website is primarily intended for doctors and nurses working in general practice and for academics who are interest in the underlying research. Patients are welcome to read this information and use the calculator together with their doctor so that any symptoms or concerns can be addressed within a health care setting. All medical decisions need to be taken by a patient in consultation with their doctor. The authors and the sponsors accept no responsibility for clinical use or misuse of this score.

There are several scores under the QCancer[®] banner.

All of the algorithms have been developed by Julia Hippisley-Cox and Carol Coupland and are based on routinely collected data from many thousands of GPs across the country who have freely contributed data to the QResearch database for medical research.

This suite of QCancer[®] tools has been developed for the UK population, and is intended for use in the UK.

The QCancer[®] scores

Today's QCancer[®] score

First published in 2013, this score works differently to tumour site specific scores, as it gives a risk of undiagnosed cancer for the individual across a whole range of tumour sites. It is, therefore, a patient centred score, rather than a tumour site centred score. It works out the risk of a patient having a current but as yet undiagnosed cancer taking account of their risk factors and current symptoms. It does not give a diagnosis of cancer, but a risk of having one as yet undiagnosed.

The science underpinning the QCancer[®] score was published in January 2013 edition of the BJGP. The algorithms are updated and recalibrated annually, and this site implements the 2017 update.

There are two calculators, one for men and one for women:

- [QCancer for men](#)
- [QCancer for women](#)

Some useful documents describing this tool:

- A presentation giving a good overview of QCancer: [QCancer-Overview-Dec-2012.pdf](#)
- How best to use the calculators: [Using-QCancer-in-a-clinical-setting.pdf](#)

QCancer[®] implemented in EMIS Web

We are delighted that QCancer[®] has been fully integrated into EMIS Web. We have worked closely with EMIS and Macmillan Cancer Support on their implementation.

If you are an EMIS customer, you can find further information on their implementation of QCancer within EMIS Web at the EMIS Support centre:

- <https://supportcentre.emishealth.com/news/emis-web-library/using-the-qcancer-decision-support-tool/>

The QCancer[®] 10 year score

QCancer[®]-10yr works out the risk of a patient developing cancer over the next 10 years given their individual risk factors. It does not give a diagnosis of cancer, but a risk of developing cancer over the next 10 years. Like the main QCancer[®] score above, it is a patient centred score, not a tumour site specific score.

There are two calculators, one for men and one for women:

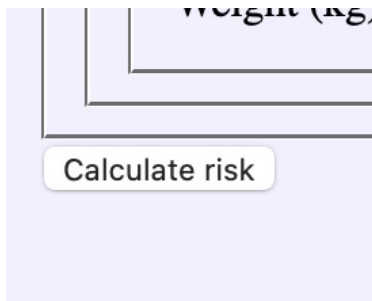
- [QCancer-10yr for men](#)
- [QCancer-10yr for women](#)

We have also made a third calculator, extracted from the two above, that presents colorectal cancer by iteslf:

- [QCancer\(15yr.colorectal\)](#)



Q Cancer



ClinRisk  Welcome to the QCancer[®]-2018 risk calculator for men: <http://qcancer.org/male>

Reset For women Information Publications About Copyright Contact Us Algorithm Software

Calculate risk

About you

Age (25-89):

UK postcode: leave blank if unknown

Postcode:

Clinical information

Smoking status:

Alcohol status:

Do you have...

a family history of gastrointestinal cancer?

a family history of prostate cancer?

type 2 diabetes?

chronic pancreatitis?

chronic obstructive airways disease (COPD)?

Do you currently have...

loss of appetite?

unintentional weight loss?

abdominal pain?

abdominal swelling?

difficulty swallowing?

heartburn or indigestion:

rectal bleeding?

blood when you vomit?

blood when you cough?

blood in your urine?

a testicular lump?

testicular pain?

a lump in your neck?

night sweats?

a venous thromboembolism?

In the last year have you seen your GP with...

change in bowel habit?

constipation?

cough?

unexplained bruising?

anaemia (Haemoglobin < 11g/dL)?

urinary retention?

urinary frequency?

nocturia (passing urine at night)?

impotence?

Leave blank if unknown

Body mass index

Height (cm):

Weight (kg):

Calculate risk

Welcome to the QCancer[®] risk calculator

Welcome to the QCancer[®] Web Calculator.

This website is primarily intended for doctors and nurses working in general practice and for academics who are interested in the underlying research. Patients are welcome to read this information and use the calculator together with their doctor so that any symptoms or concerns can be addressed within a health care setting. All medical decisions need to be taken by a patient in consultation with their doctor. The authors and the sponsors accept no responsibility for clinical use or misuse of this score.

QCancer works out the risk of a patient having a current but as yet undiagnosed cancer taking account of their risk factors and current symptoms. It does not give a diagnosis cancer, but a risk.

The QCancer[®] algorithms have been developed by Julia Hippisley-Cox and Carol Coupland and are based on routinely collected data from many thousands of GPs across the country who have freely contributed data to the QResearch database for medical research.

QCancer[®] has been developed for the UK population, and is intended for use in the UK.

The science underpinning the QCancer[®] equations was published in the January 2013 edition of the BJGP.

Q Cancer

ClinRisk **Welcome to the QCancer®-2018 risk calculator for men: <http://qcancer.org/male>**

Reset For women Information Publications About Copyright Contact Us Algorithm Software

Calculate risk

About you

Age (25-89): **49**

UK postcode: leave blank if unknown

Postcode: _____

Personal information

Smoking status: non-smoker

Alcohol status: 1-2 units per day

Do you have...

a family history of gastrointestinal cancer?

a family history of prostate cancer?

type 2 diabetes?

chronic pancreatitis?

chronic obstructive airways disease (COPD)?

Do you currently have...

loss of appetite?

unintentional weight loss?

abdominal pain?

abdominal swelling?

difficulty swallowing?

heartburn or indigestion: neither

rectal bleeding?

blood when you vomit?

blood when you cough?

blood in your urine?

a testicular lump?

testicular pain?

a lump in your neck?

night sweats?

a venous thromboembolism?

In the last year have you seen your GP with...

change in bowel habit?

constipation?

cough?

unexplained bruising?

anaemia (Haemoglobin < 11g/dL)?

urinary retention?

urinary frequency?

nocturia (passing urine at night)?

impotence?

Leave blank if unknown

Body mass index

Height (cm): _____

Weight (kg): _____

Calculate risk

Your risk of having one of the following cancers, as yet undiagnosed is:

Cancer	Type	Risk
No cancer		98.39%
Any Cancer		1.61%
	colorectal	1.24%
	other	0.13%
	blood	0.07%
	prostate	0.07%
	gastro-oesophageal	0.03%
	renal tract	0.03%
	lung	0.02%
	pancreatic	0.01%
	testicular	0.01%

You have a 1.61% risk of having a cancer as yet undiagnosed, and correspondingly, a 98.39% chance that you are clear.

In other words, in a crowd of 100 people with the same risk factors as you, 2 are likely to have a cancer as yet undiagnosed and 98 will not, as shown by the chart below.

Risk of a cancer as yet undiagnosed

Your score has been calculated using estimated data, as some information was left blank.

A typical person like you without any symptoms, prior illness or family history has a 0.41% risk of having a cancer as yet undiagnosed.

How does your score compare?

Your score	
Your QCancer® score	1.61%
The score of a typical person with the same age and sex*	0.41%
Relative risk**	3.9

* This is derived from all people of your age and sex without any symptoms, prior illness or family history.
 ** Your relative risk is your risk divided by the typical person's risk.



Cancer Maps – Gateway C

- <https://www.gatewayc.org.uk/cancer-maps/>
- **Interactive MIND MAP tool**
- Summarises NG12 guidance in **3 Maps**
- Can toggle view between **MAP 1, 2 or 3 or view all.**
- Each Map **summarises different cancer areas**
- **Click on branches** to see NG12 guidance
- Can use Maps to **review NG12 Guidance**, including investigations



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Cancer Maps – Gateway C

The screenshot displays the Gateway C Cancer Maps interface. At the top, there are navigation controls for 'NICE guidance', 'All maps', and 'Age' (0, Male, Female, Not given). The main content area is divided into three mind maps: Map 1 (Lung, Oral, Oesophagus & Stomach, Liver & Gallbladder & Liver), Map 2 (Pancreas, Breast, Ovarian, Cervical, Prostate, Vaginal), and Map 3 (Haematology, Lymphoma, Bone Marrow, Thyroid, Skin). A central banner reads 'THE Gateway C CANCER MAPS' with a gold award badge for 'NICE Bright Ideas Award Winner 2015'. Below the banner, it states 'Summarising the NICE NG12 Guidelines for Cancer' and 'Developed by Dr Ben Noble'. A 'Tutorial' button is visible. On the right, a 'Symptoms' list includes: abdominal pain, hepatosplenomegaly, adenopathy, hoarseness, anaemia, hypercalcaemia, appetite loss, jaundice, spicula, leucocytosis, back pain, leukopenia, bleeding, lump, bloating, mass, blood glucose, nausea, bone pain, night sweats, bowel habit change, organomegaly, bruising, pallor, chest infection, pelvic pain, chest pain, petechiae, chest signs, plasma viscosity, constipation, post menopausal bleed, cough, pruritis, diabetes, rectal bleeding, diarrhoea, recurrent infection, dyspepsia, reflux, dysphagia, shortness of breath, erectile dysfunction, thrombocytosis, fatigue, ulceration, fever, urinary symptoms, finger clubbing, vaginal discharge, fracture, vomiting, haematemesis, weight loss, haematuria, white cell count, and haemoptysis. A video player at the bottom shows a progress bar at 0:08 and a total duration of 3:38.



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Cancer Maps – Gateway C

NICE guidance

-

+

All maps

1

2

3

Age:

Male

Female

Not given

Save results

Reset Search

Show/hide symptoms

THE GatewayC CANCER MAPS.®

(v57 updated 2021)

Summarising the NICE NG12 Guidelines for Cancer

NICE guidance

-

+

All maps

1

Symptoms

<input type="checkbox"/> abdominal pain	<input type="checkbox"/> hepatosplenomegaly
<input type="checkbox"/> adenopathy	<input type="checkbox"/> hoarseness
<input type="checkbox"/> anaemia	<input type="checkbox"/> hypercalcaemia
<input type="checkbox"/> appetite loss	<input type="checkbox"/> jaundice
<input type="checkbox"/> ascites	<input type="checkbox"/> leucocytosis
<input type="checkbox"/> back pain	<input type="checkbox"/> leukopenia
<input type="checkbox"/> bleeding	<input type="checkbox"/> lump
<input type="checkbox"/> bloating	<input type="checkbox"/> mass
<input type="checkbox"/> blood glucose	<input type="checkbox"/> nausea
<input type="checkbox"/> bone pain	<input type="checkbox"/> night sweats
<input type="checkbox"/> bowel habit change	<input type="checkbox"/> organomegaly
<input type="checkbox"/> bruising	<input type="checkbox"/> pallor
<input type="checkbox"/> chest infection	<input type="checkbox"/> pelvic pain
<input type="checkbox"/> chest pain	<input type="checkbox"/> petechiae
<input type="checkbox"/> chest signs	<input type="checkbox"/> plasma viscosity
<input type="checkbox"/> constipation	<input type="checkbox"/> post menopausal bleed
<input type="checkbox"/> cough	<input type="checkbox"/> pruritis
<input type="checkbox"/> diabetes	<input type="checkbox"/> rectal bleeding
<input type="checkbox"/> diarrhoea	<input type="checkbox"/> recurrent infection
<input type="checkbox"/> dyspepsia	<input type="checkbox"/> reflux
<input type="checkbox"/> dysphagia	<input type="checkbox"/> shortness of breath
<input type="checkbox"/> erectile dysfunction	<input type="checkbox"/> thrombocytosis
<input type="checkbox"/> fatigue	<input type="checkbox"/> ulceration
<input type="checkbox"/> fever	<input type="checkbox"/> urinary symptoms
<input type="checkbox"/> finger clubbing	<input type="checkbox"/> vaginal discharge
<input type="checkbox"/> fracture	<input type="checkbox"/> vomiting
<input type="checkbox"/> haematemesis	<input type="checkbox"/> weight loss
<input type="checkbox"/> haematuria	<input type="checkbox"/> white cell count
<input type="checkbox"/> haemoptysis	

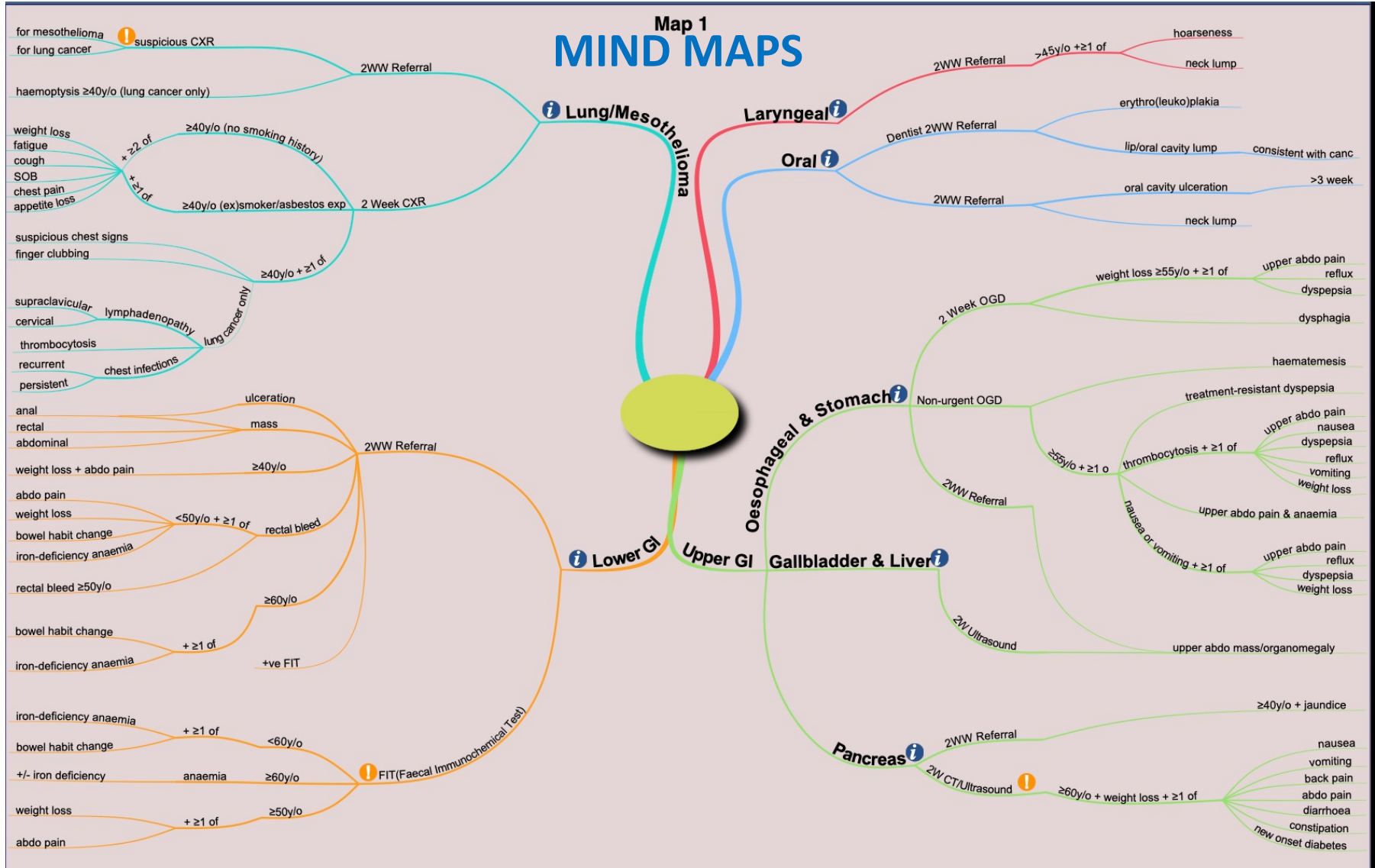


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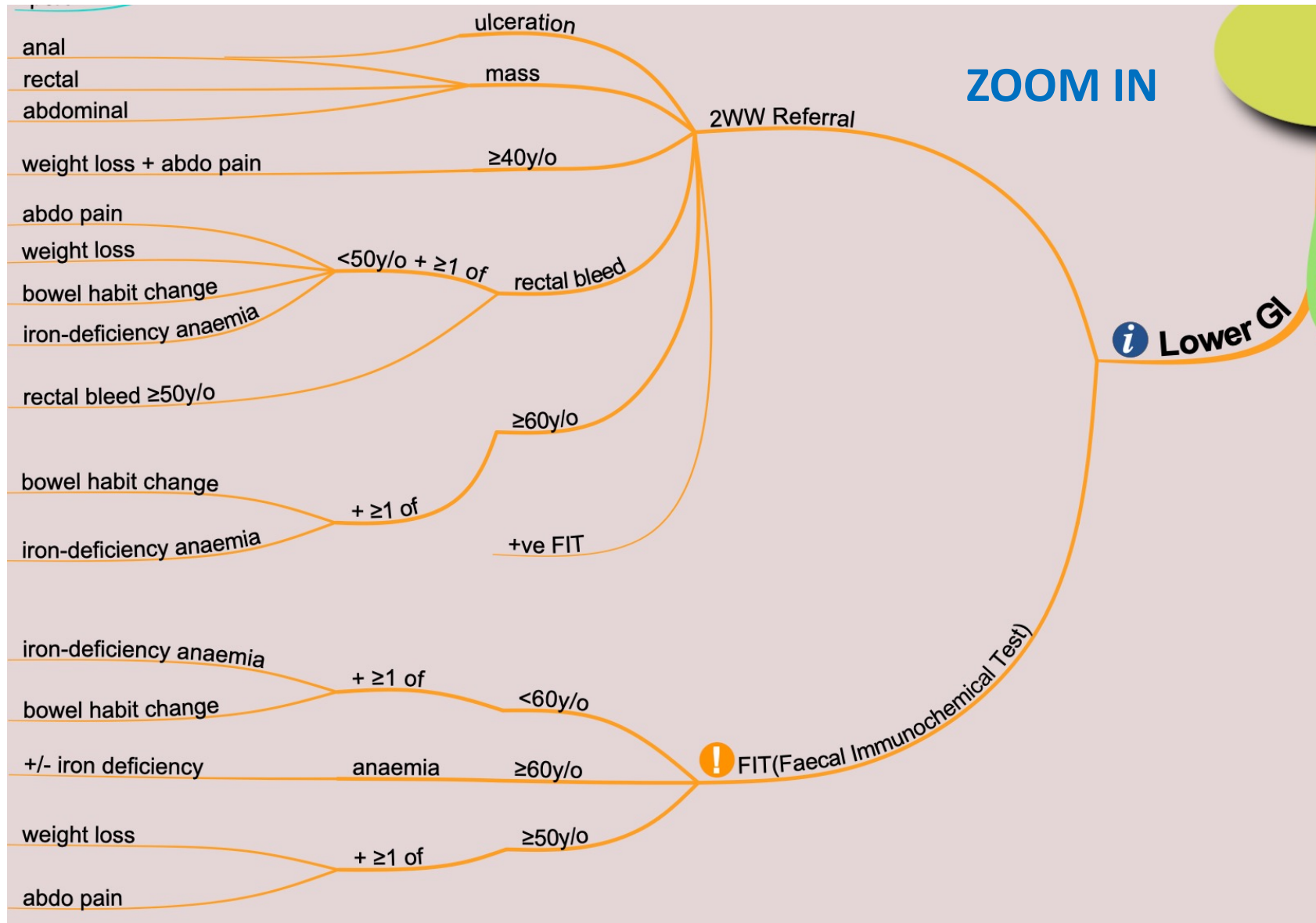


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Cancer Maps – Gateway C



Cancer Maps – Gateway C



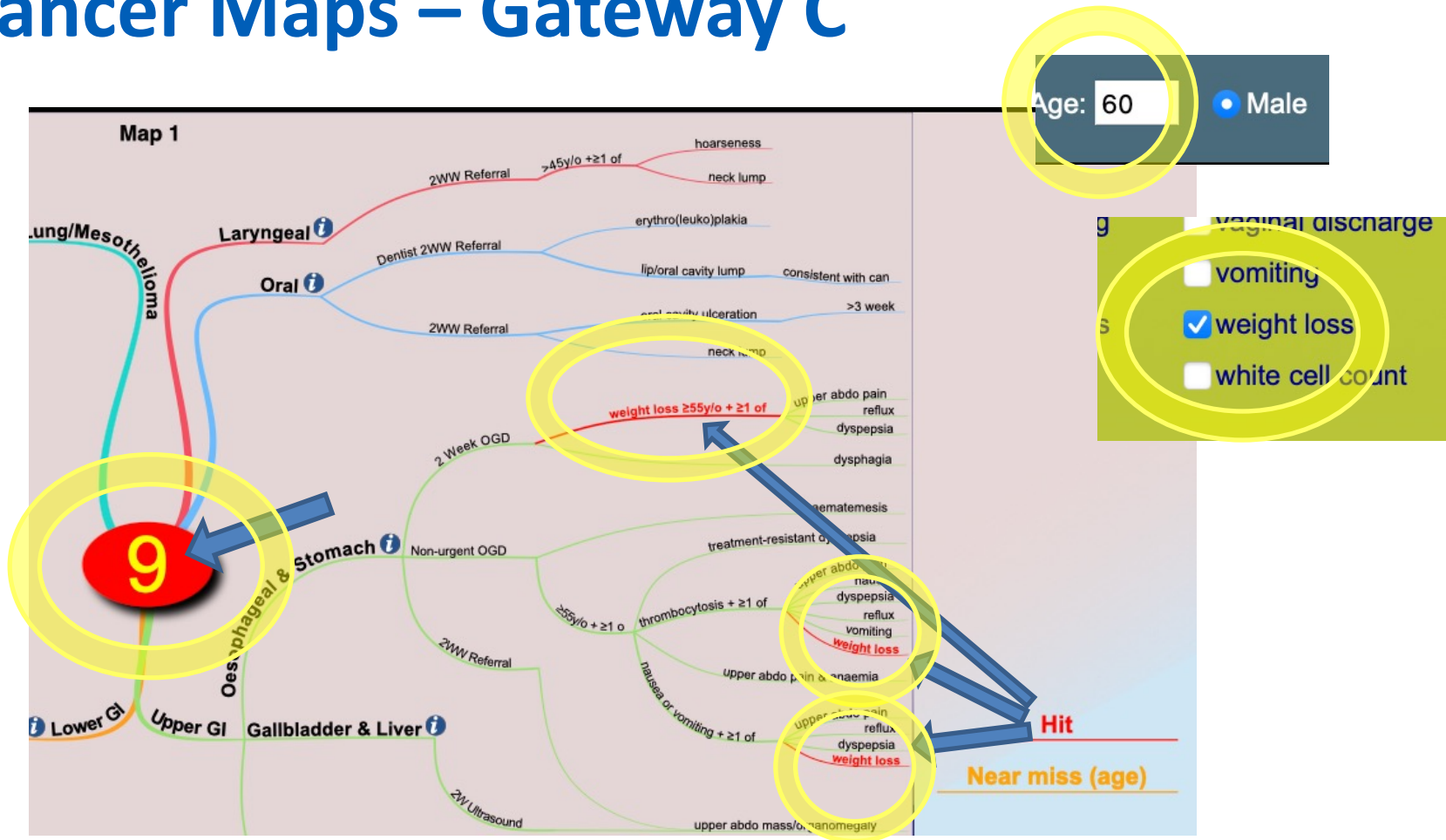
Cancer Maps – Gateway C

- <https://www.gatewayc.org.uk/cancer-maps/>
- Can use **symptom checker** to highlight relevant pathways and investigations.
- Maps highlight relevant pathways
- Flash **RED** if direct hit
- Flash **AMBER** if near miss (outside age criteria)
- **NOTE – DOES NOT FOLLOW LOCAL PATHWAYS**



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Cancer Maps – Gateway C



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Free Web-based CDS Tools

Any Questions?

...Next 45 mins

- Then Ardens will demonstrate how you can utilise their tools within your GP IT Systems.*
- ALL levels of Ardens package has access to these tools.*



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Ardens Cancer Tools Demonstration

- Breakout groups using your 12:15-13:00 meeting invite **TEAMS link**
- Choose the correct invite link for your GP IT:
 - EMIS Users
 - Systemone Users
 - These will be recorded.

Thank you



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