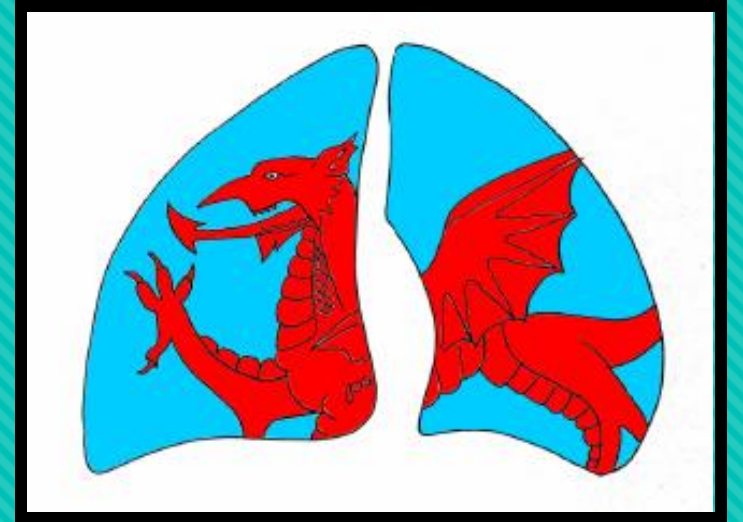


# Lung Cancer Screening in Wales

Respiratory Matters Webinar  
13<sup>th</sup> May 2026



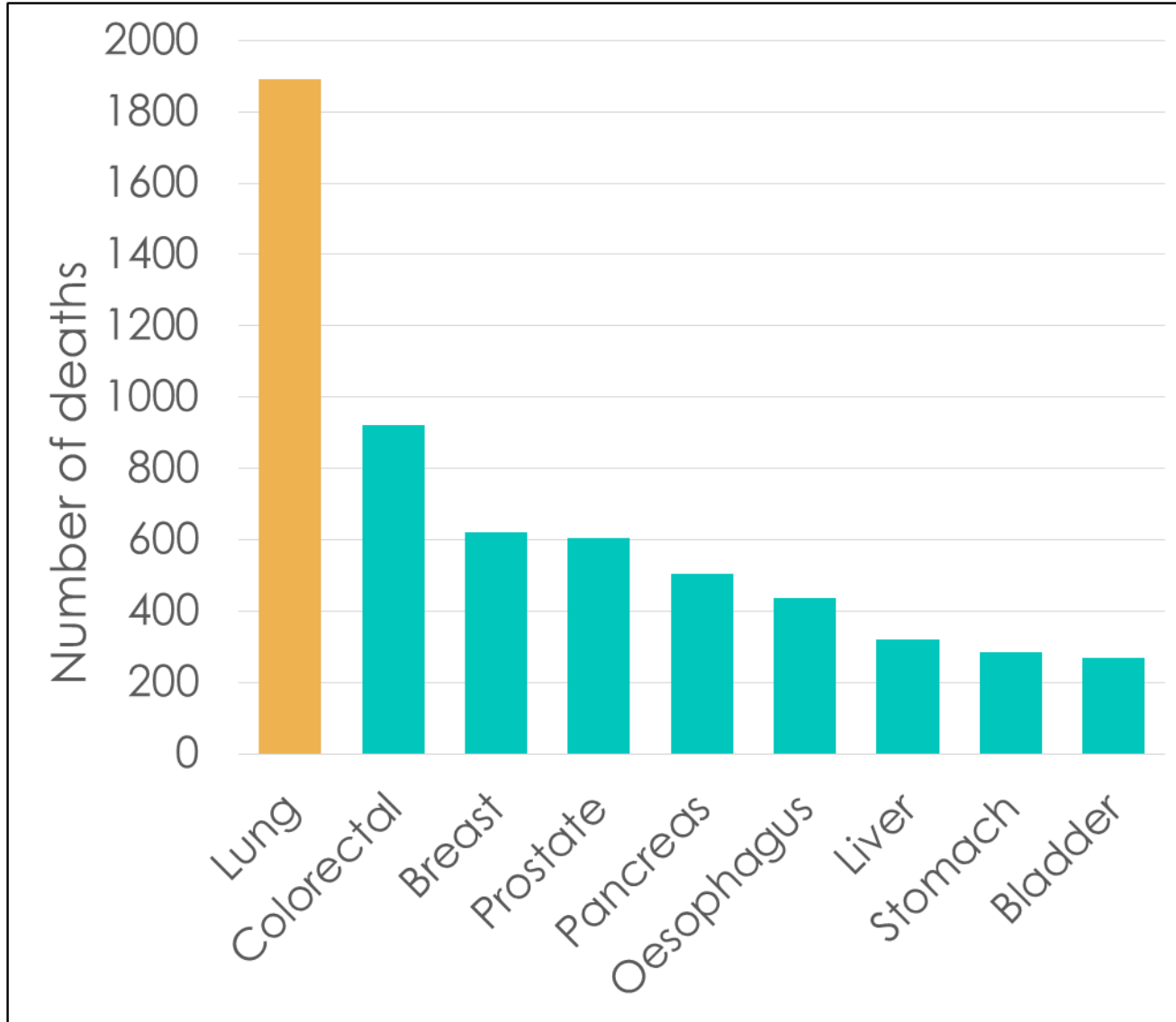
**Dr Sinan Eccles**

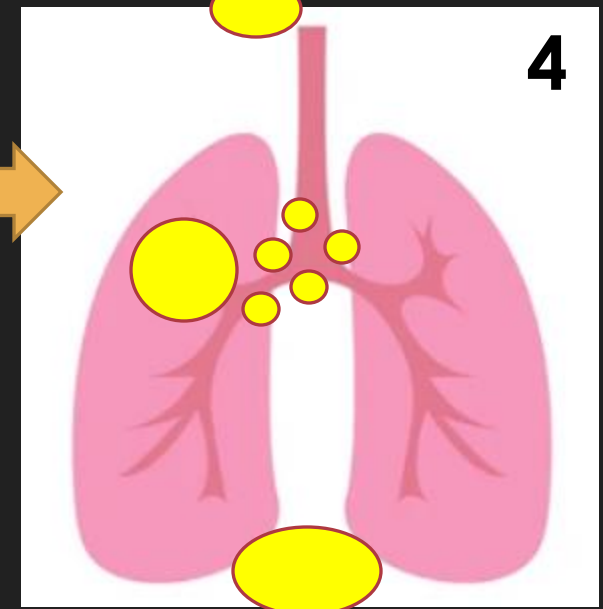
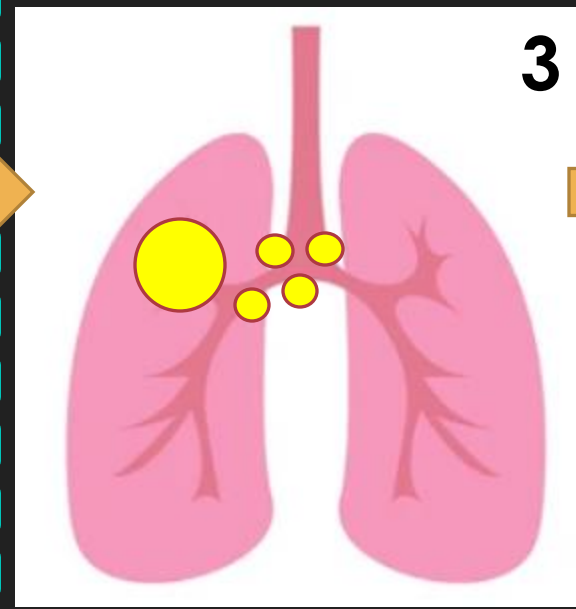
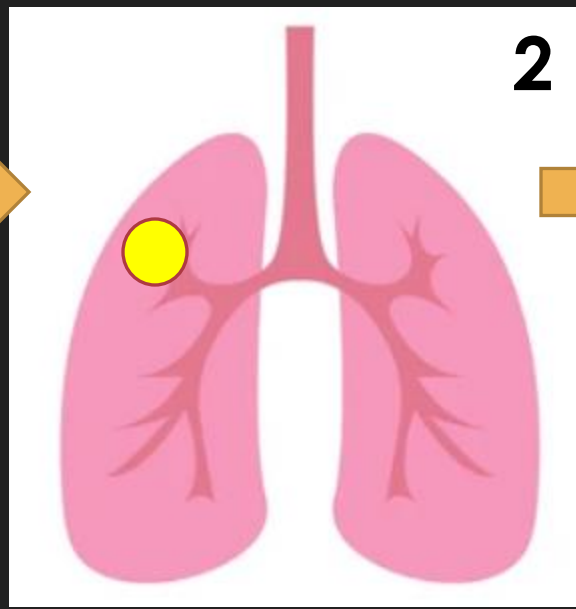
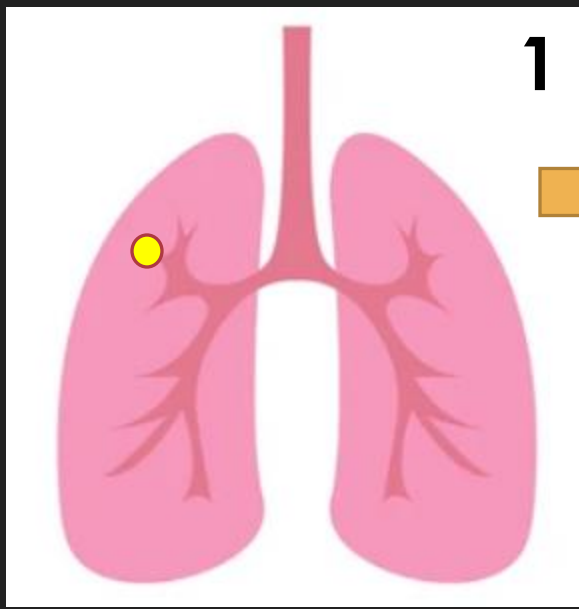
Respiratory Clinical Lead for Lung Cancer Screening Implementation Programme, Public Health Wales  
Consultant Respiratory Physician, Cwm Taf Morgannwg UHB

# Overview

- Lung cancer in Wales
- Evidence for screening
- Operational Pilot
- National programme development
- Incidental findings

# Cancer Deaths in Wales





Early-stage

Localised to the lung

Rarely causes symptoms

Usually curable

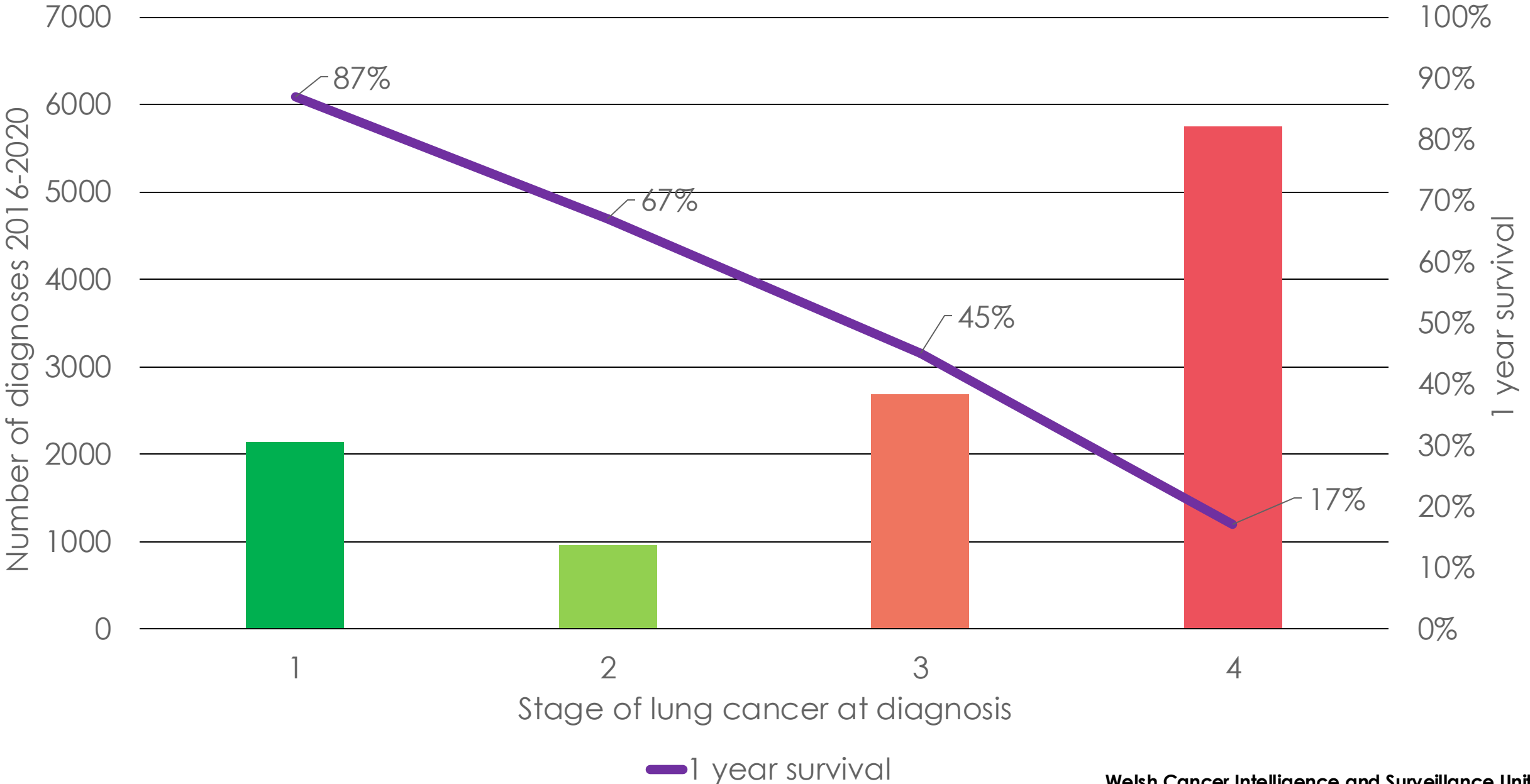
Late-stage

Spread beyond the lung

Various symptoms

Rarely curable

# Lung Cancer stage and survival in Wales





# Wilson and Jungner's principles of screening

World Health Organization - 1968



*"In theory, screening is an admirable method of combating disease...  
but in practice, there are snags"*

1. The condition sought should be an **important health problem**.
2. The **natural history** of the condition, including development from latent to declared disease, should be adequately understood.
3. There should be a recognizable **latent or early symptomatic stage**.
4. There should be a **suitable test** or examination.
5. The **test should be acceptable** to the population.
6. There should be an agreed policy on **whom to treat** as patients.
7. There should be an **accepted treatment** for patients with recognized disease.
8. **Facilities for diagnosis and treatment** should be available.
9. The cost of case-finding (including diagnosis and treatment of patients diagnosed) should be **economically balanced** in relation to possible expenditure on medical care as a whole.
10. Case-finding should be a **continuing process** and not a "once and for all" project.

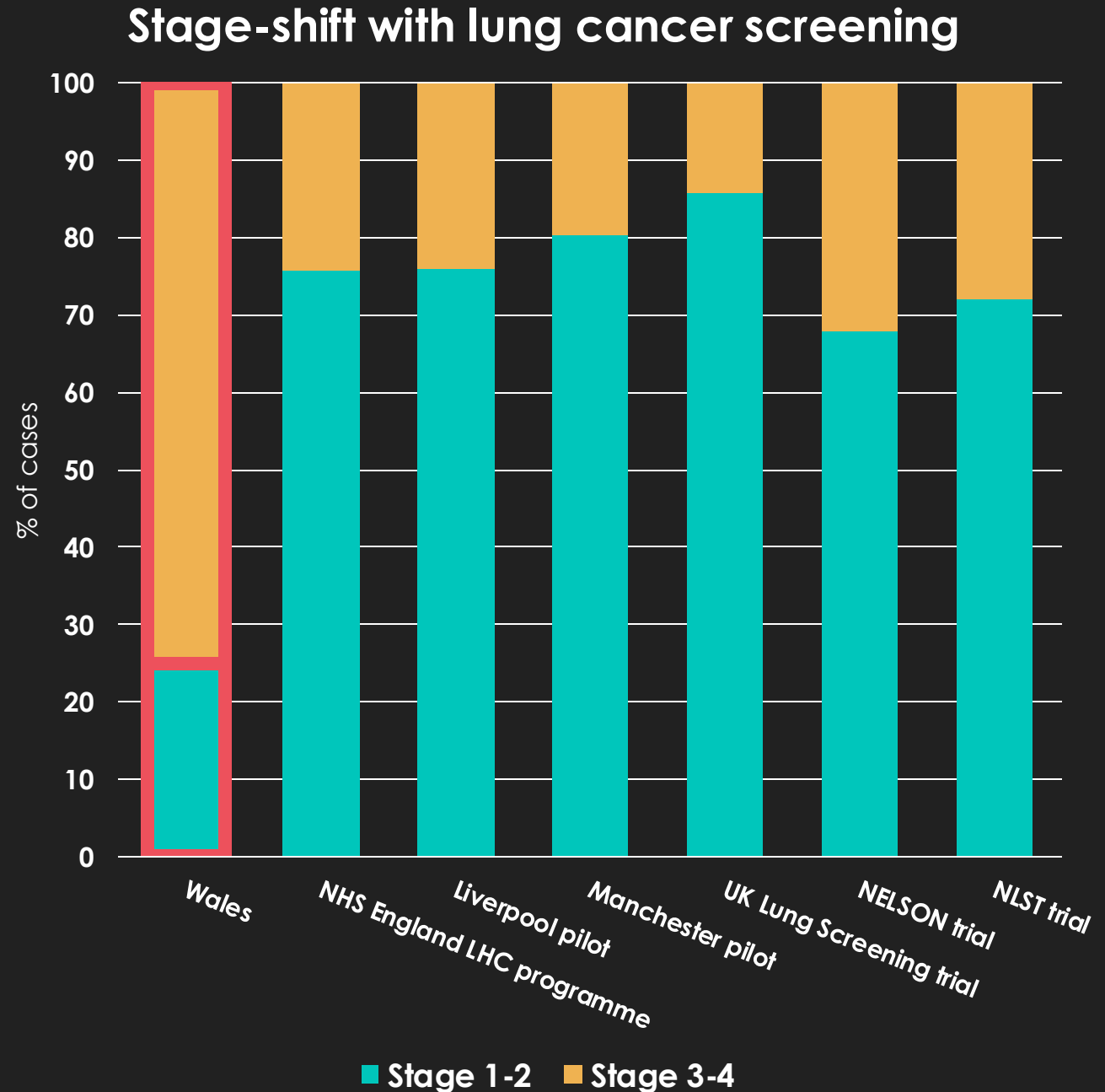
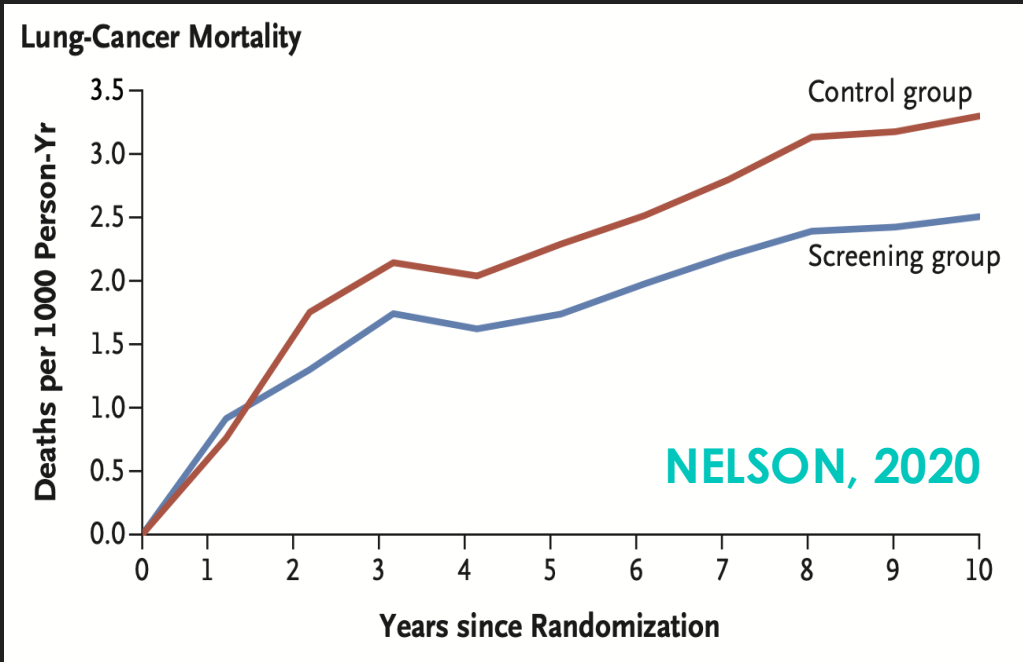
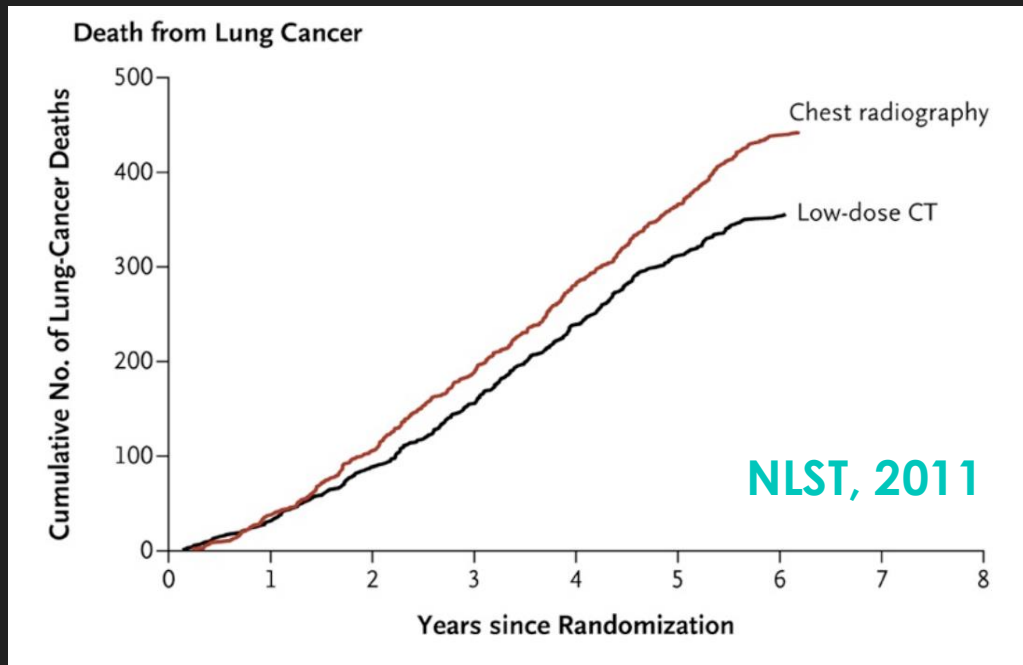


Table 16 Base case cost-effectiveness of strategies on the cost-effectiveness frontier (per ever-smoker 55-80 years)

| Strategy<br>(ranked by<br>ascending cost) | Costs (£) | QALYs | ICER vs<br>No<br>screening<br>(£) | Incr. Costs<br>vs next<br>least<br>costly (£) | Incr.<br>QALYs vs<br>next least<br>costly | Full ICER<br>(£) |
|-------------------------------------------|-----------|-------|-----------------------------------|-----------------------------------------------|-------------------------------------------|------------------|
| No screening                              | £3,463    | 8.511 | -                                 | -                                             | -                                         | -                |
| S-55-75-4%                                | £3,479    | 8.522 | £1,529                            | £17                                           | 0.011                                     | £1,529           |
| T-55-75-4%                                | £3,494    | 8.526 | £2,179                            | £14                                           | 0.003                                     | £4,313           |
| A-55-75-3%                                | £3,550    | 8.537 | £3,336                            | £56                                           | 0.012                                     | £4,722           |
| A-55-80-3%                                | £3,588    | 8.540 | £4,385                            | £39                                           | 0.003                                     | £14,984          |

ICER, incremental cost-effectiveness ratio; QALYs, quality-adjusted life year



# Lung Cancer Screening

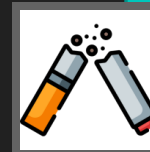
Identify people  
at **high risk of**  
lung cancer



Low-dose CT  
screening scan



Reduces  
lung cancer  
deaths by  
25%



Promotes  
smoking  
cessation



Highly  
cost-  
effective



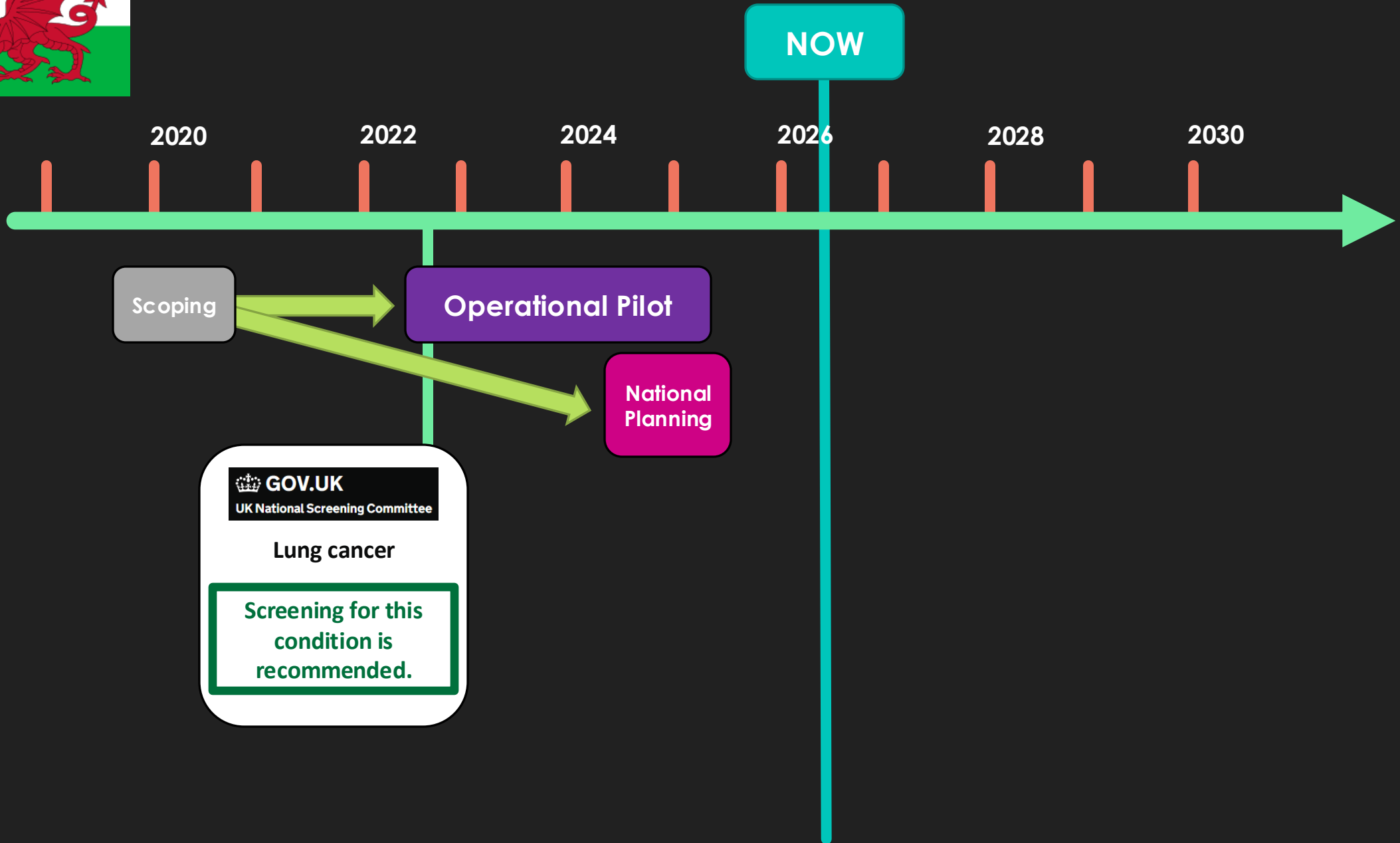
**GOV.UK**

**UK National Screening Committee**

Screening for this  
condition is  
recommended.

The UK National Screening Committee (UK NSC) advises ministers and the NHS in the 4 UK countries about all aspects of screening and supports implementation of screening programmes.

Targeted screening for lung cancer is  
**recommended** for people aged 55 to 74  
identified as being at high risk of lung cancer.

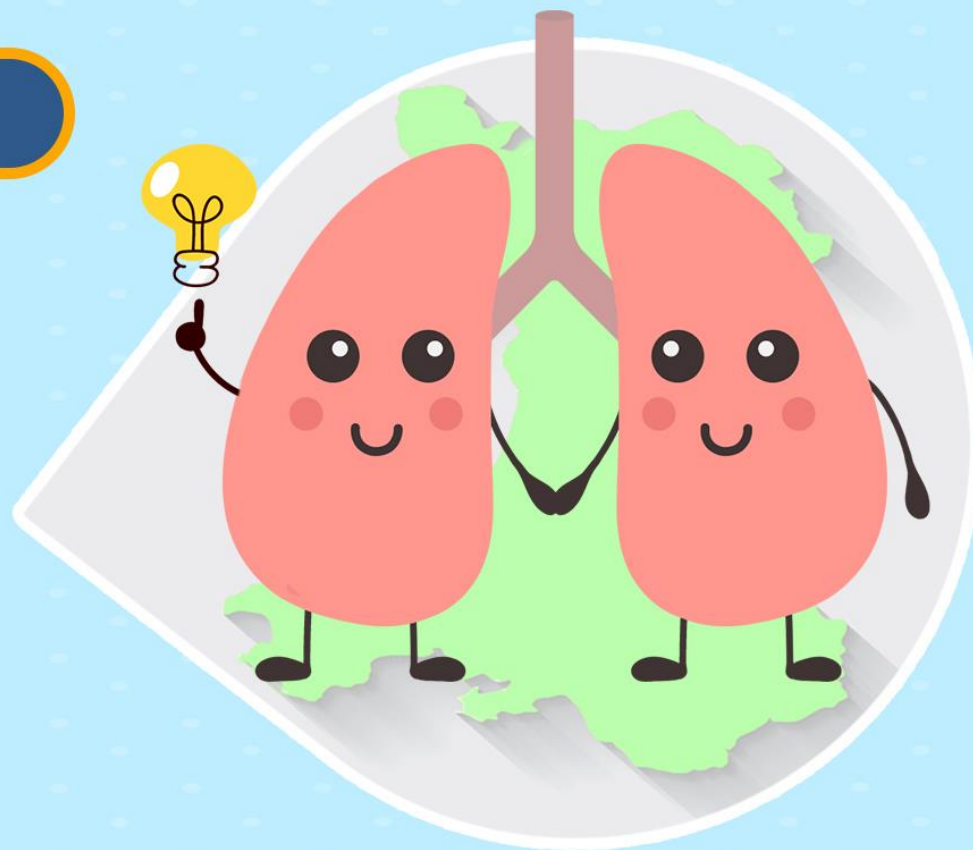


# NHS Lung Health Check



Patients from **Llywynypia Surgery** who smoke or have smoked in the past and who are aged 60-74 will soon be invited for a NHS Lung Health Check.

To find out more ask your GP or visit  
<https://ctmuhb.nhs.wales/services/lung-health-checks/>



GIG  
CYMRU  
NHS  
WALES

Gwiriad Iechyd yr Ysgyfaint  
Bwrdd Iechyd Prifysgol  
Cwm Taf Morgannwg  
University Health Board  
Lung Health Check



GIG  
CYMRU  
NHS  
WALES

Rhwydwaith  
Canser Cymru  
Wales Cancer  
Network

# Wales “Lung Health Check” Pilot

## Objectives

**Advance learning to support and de-risk future roll-out**

**Develop core team as a nucleus for national roll-out**

**Immediate health benefits to pilot cohort**

## Funding

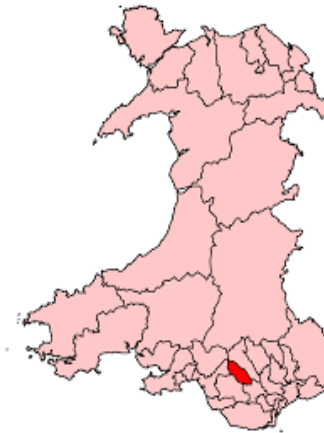


MOONDANCE  
CANCER INITIATIVE

## Location

### North Rhondda

High lung cancer and smoking prevalence



GIG  
CYMRU  
NHS  
WALES

Bwrdd Iechyd Prifysgol  
Cwm Taf Morgannwg  
University Health Board



GIG  
CYMRU  
NHS  
WALES

Rhwydwaith  
Canser Cymru  
Wales Cancer  
Network

## Delivery

**60-74,  
ever-smoker**

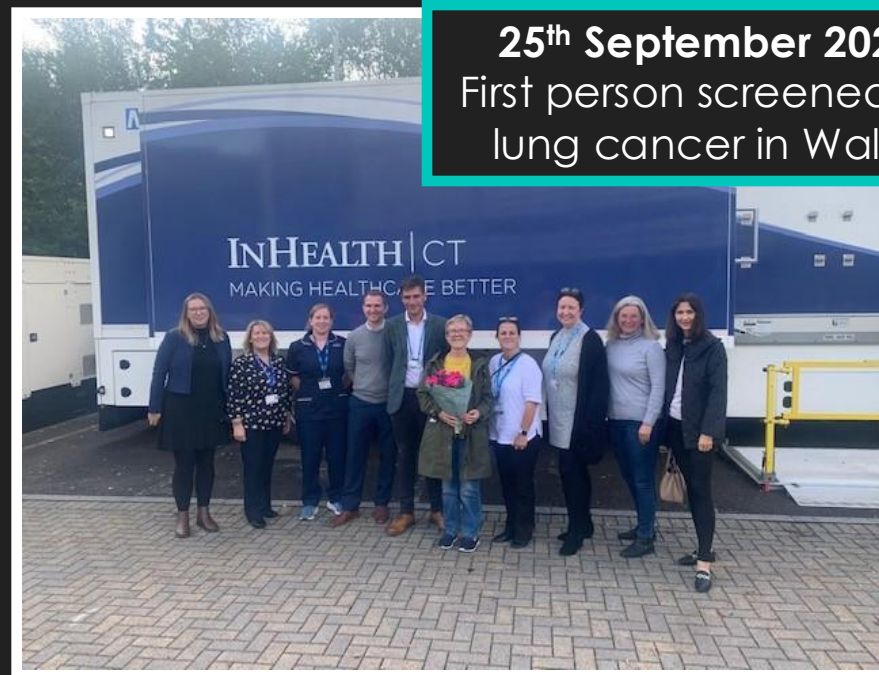
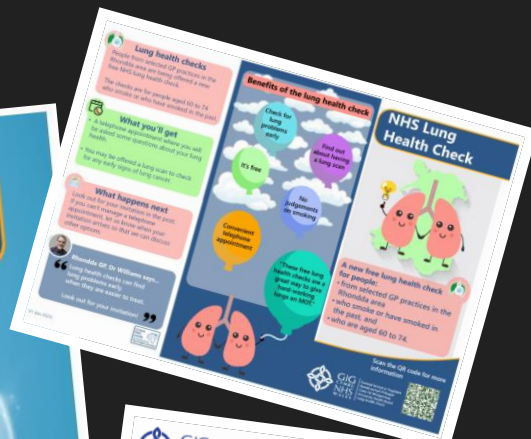
**Telephone  
assessment**



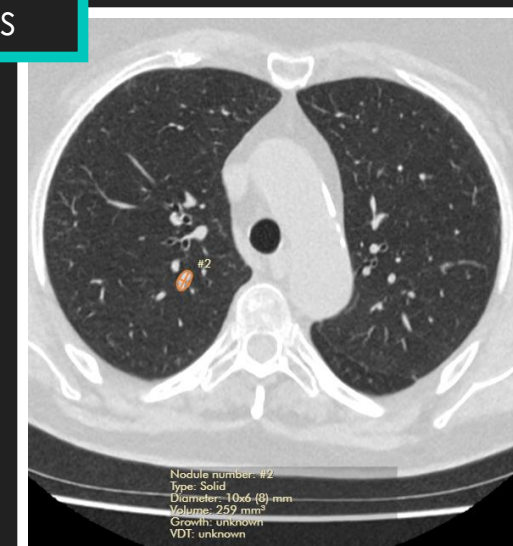
**~500 baseline  
LDCTs**







**25<sup>th</sup> September 2023**  
First person screened for lung cancer in Wales



# Lung Health Check pilot: **Phil's story**



**Lung health checks**  
People from selected GP practices in the Rhondda area are being offered a new free NHS lung health check.  
The checks are for people aged 60 to 74 who smoke or who have smoked in the past.

**What you'll get**

- A telephone appointment where you will be asked some questions about your lung health.
- You may be offered a lung scan to check for any early signs of lung cancer.

**What happens next**  
Look out for your invitation in the post. If you can't manage a telephone appointment, let us know when your invitation arrives so that we can discuss other options.

**Rhondda GP, Dr Williams says...**  
“Lung health checks can find lung problems early, when they are easier to treat. Look out for your invitation!”

**Benefits of the lung health check**

- Check for lung problems early
- Find out about having a lung scan
- It's free
- No judgements on smoking
- Convenient telephone appointment
- “These free lung health checks are a great way to give hard-working lungs an MOT.”

**NHS Lung Health Check**

**A new free lung health check for people:**

- from selected GP practices in the Rhondda area
- who smoke or have smoked in the past, and
- who are aged 60 to 74.

Scan the QR code for more information

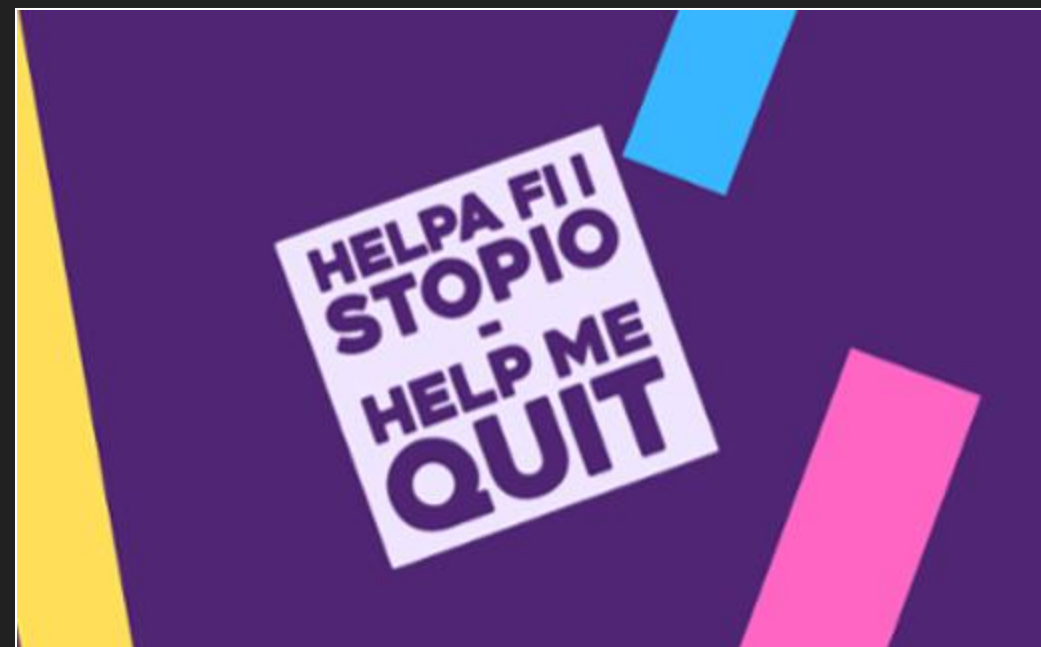
 **GIG CYMRU NHS WALES**  
Bwrdd Iechyd Prifysgol Cwm Taf Morgannwg  
University Health Board  
Lung Health Check



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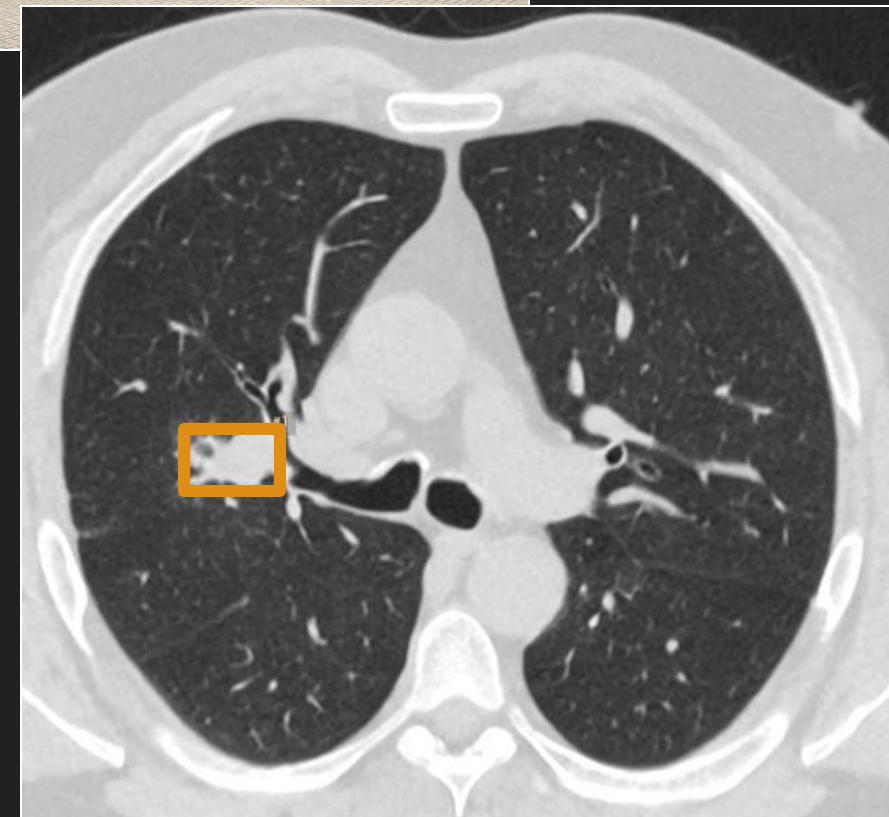


# Lung Health Check pilot: **Phil's story**

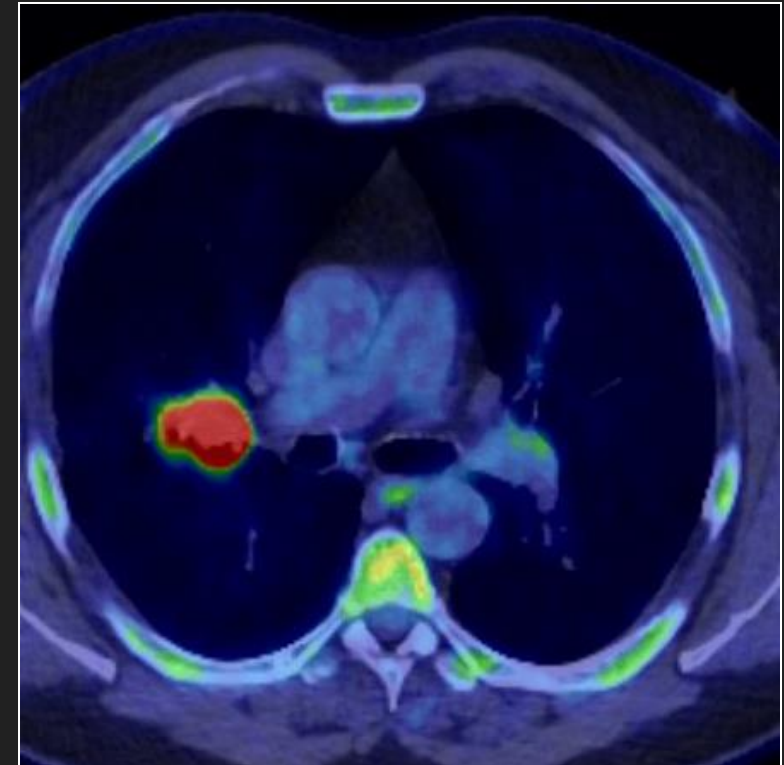




# Lung Health Check pilot: **Phil's story**



# Lung Health Check pilot: **Phil's story**



## Lung Health Check pilot: **Phil's story**



# VATS lobectomy

## December 2023



## Lung Health Check pilot: **Phil's story**



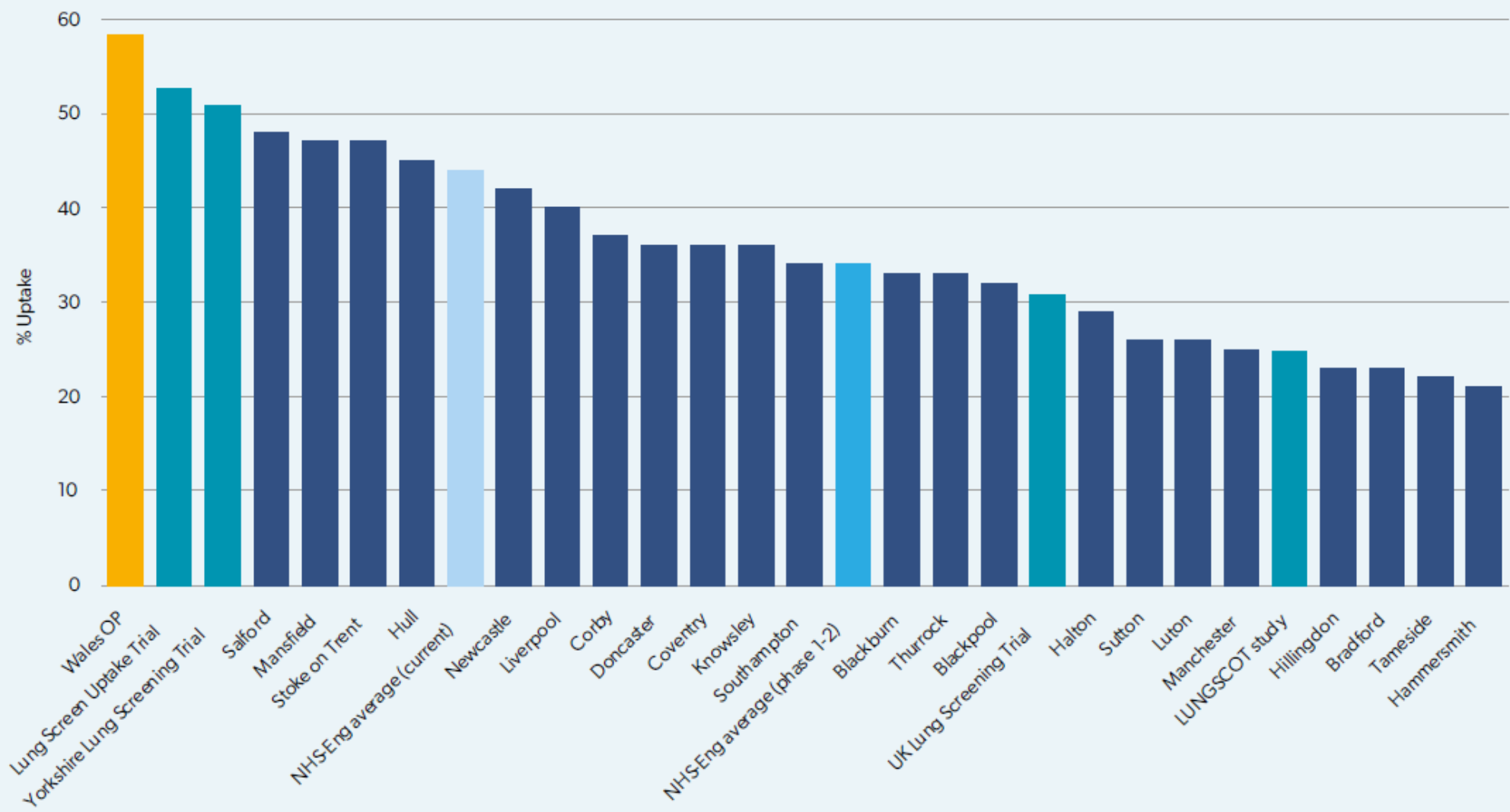
**Curative treatment**  
for lung cancer

Has **quit smoking**

Taking a statin for  
**coronary artery  
calcification**

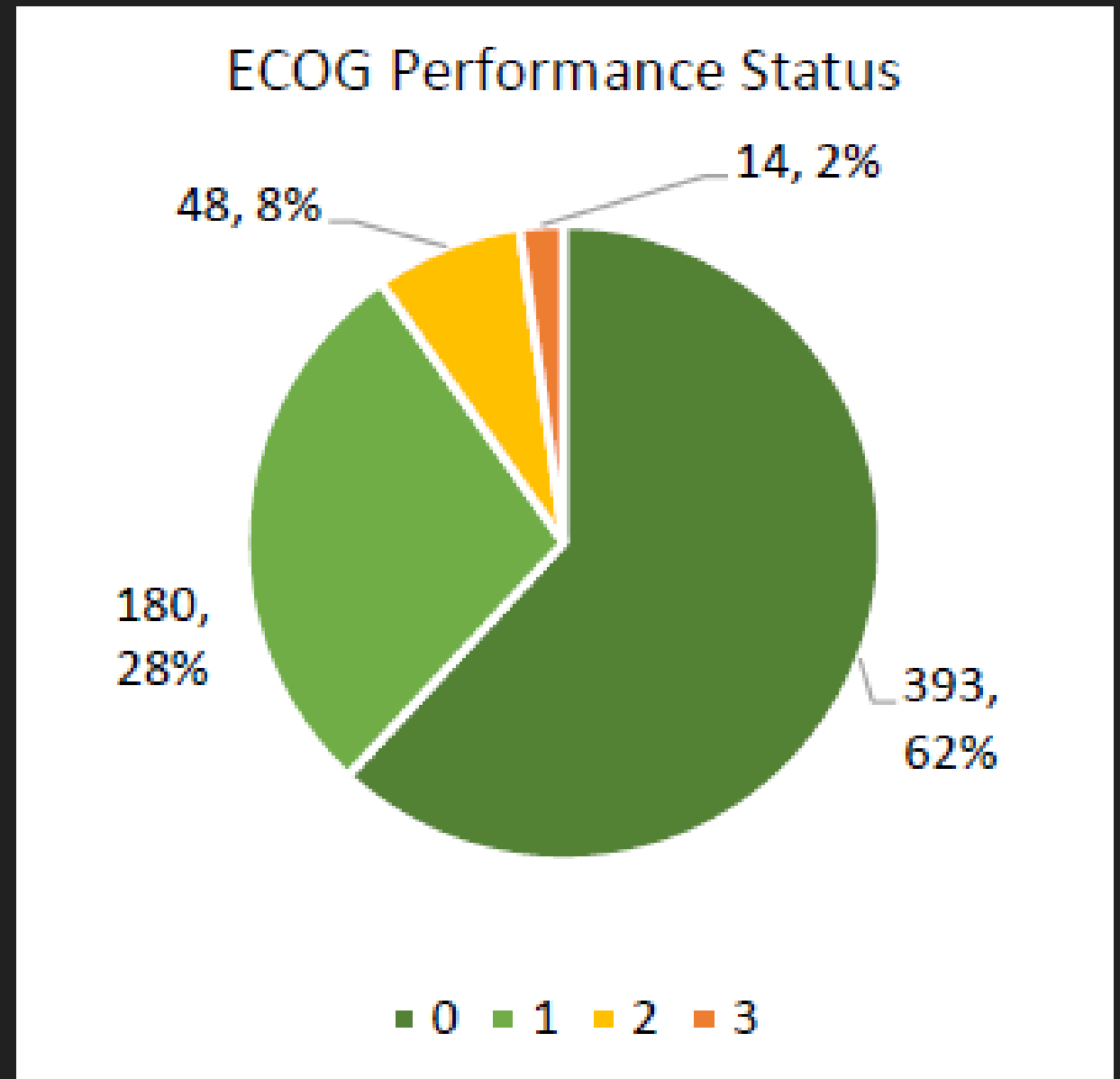
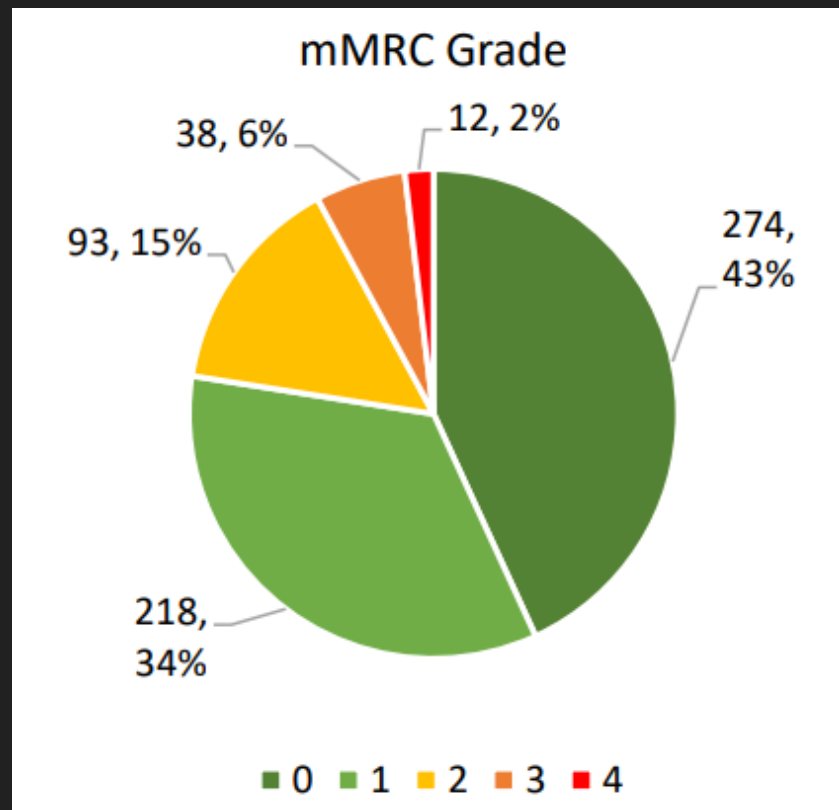
Under **surveillance**

# Uptake of Pilot compared to other UK Lung Health Check activities



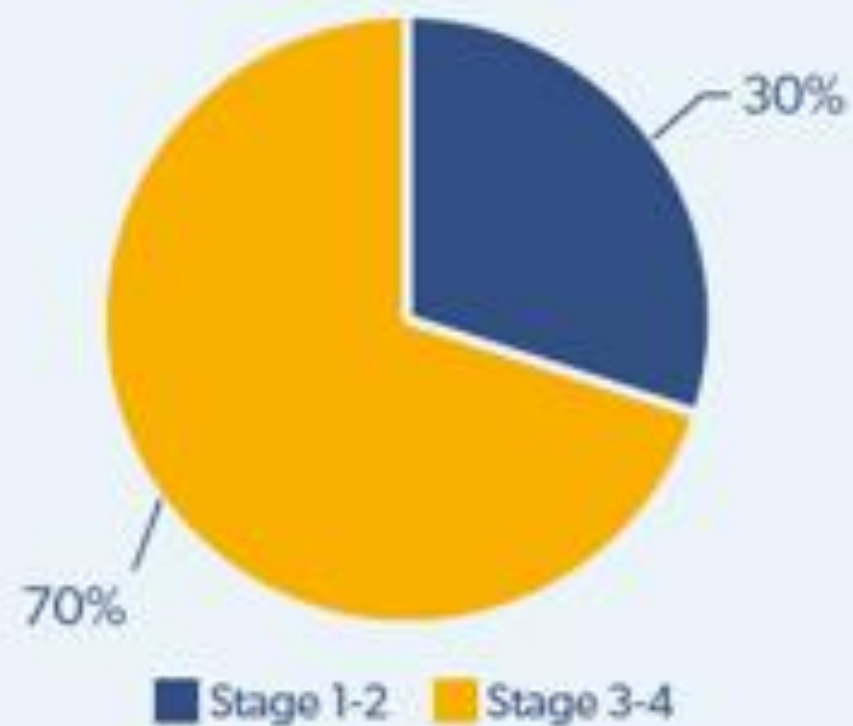
27.5% **current smokers**

26.3 **pack-years** average





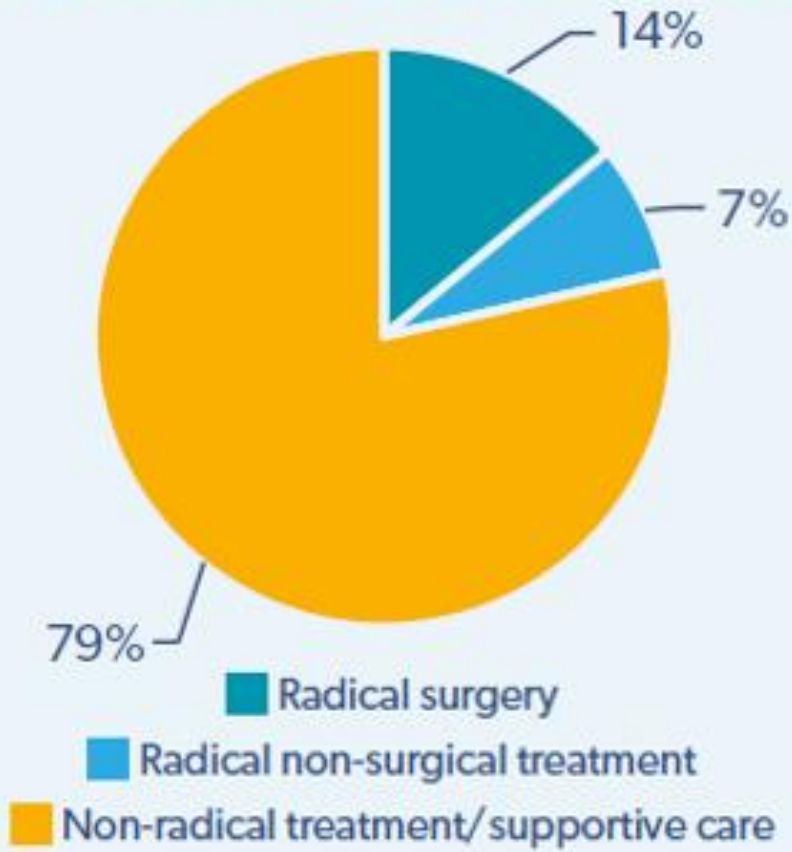
**Stage of lung cancers diagnosed through usual care in Wales**



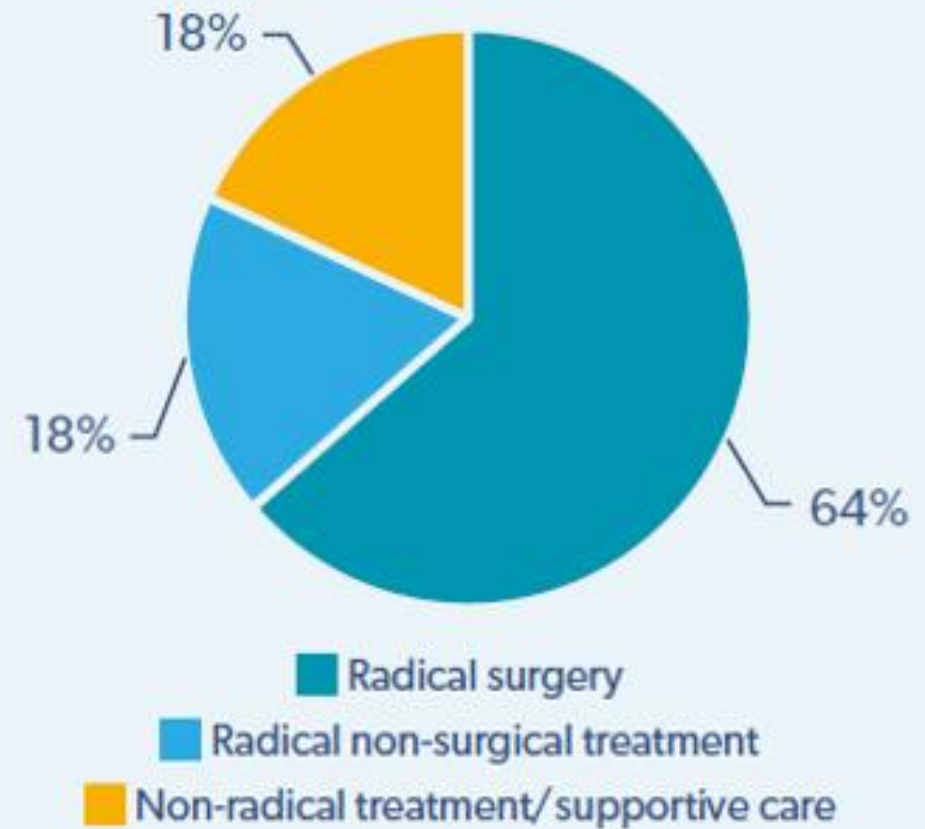
**Stage of lung cancers diagnosed through the OP**



**Treatment intent/primary treatment modality of non-small cell lung cancers diagnosed through usual care in Wales**



**Treatment intent/primary treatment modality of non-small cell lung cancers diagnosed through the OP**



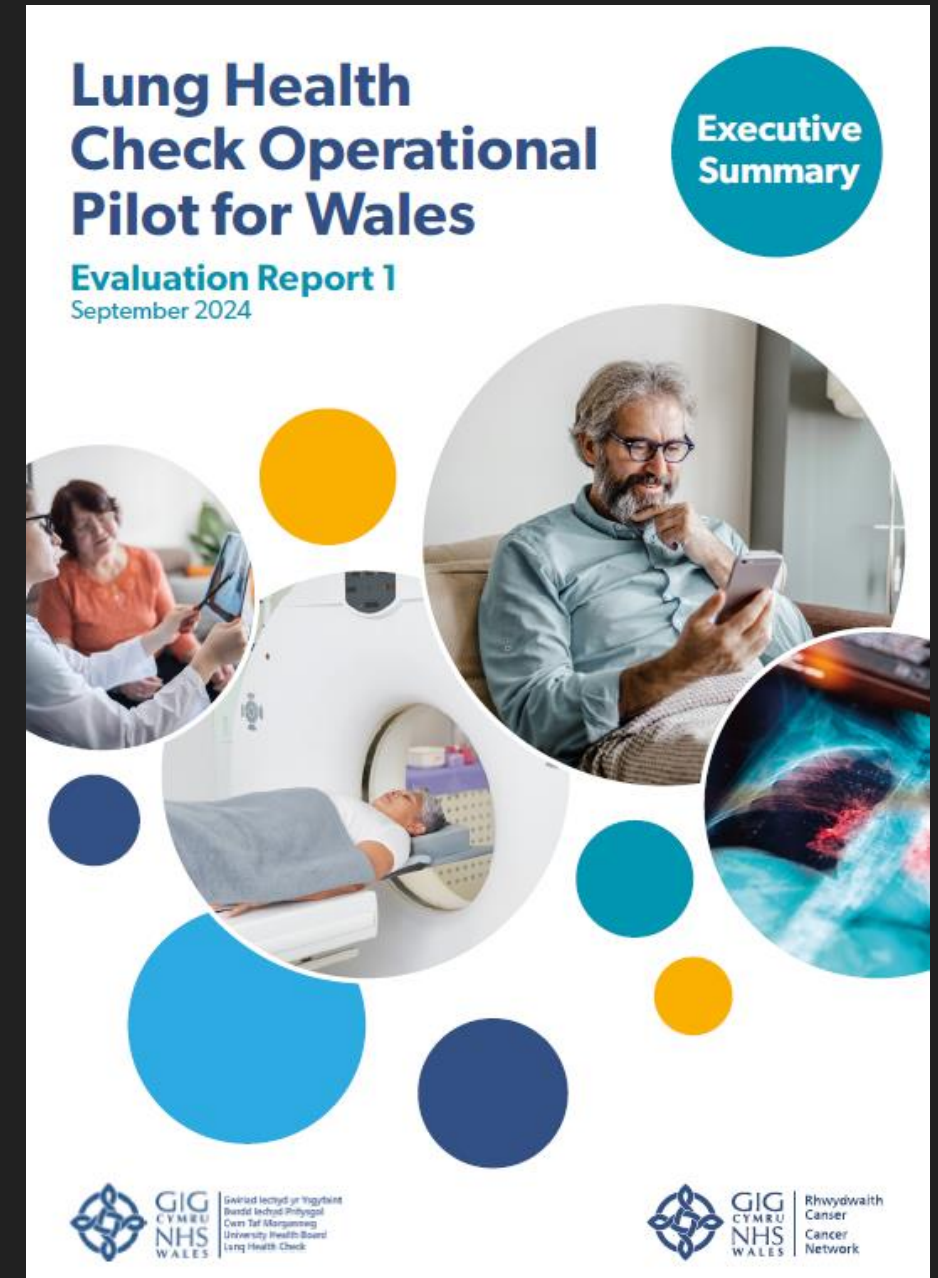
| System      | Finding                         | Actionable rate | Total | Actionable                 | Non-actionable following SRM discussion   |
|-------------|---------------------------------|-----------------|-------|----------------------------|-------------------------------------------|
| Respiratory | Interstitial lung disease (ILD) | 0.4%            | 4     | 2: Referred to Respiratory | 2: Known finding                          |
|             | Inflammatory changes            | 0.2%            | 6     | 1: Clinical review         | 3: Clinical judgement<br>2: Known finding |
|             | Pleural                         | 0.5%            | 3     | 3: Referred to Respiratory | 0                                         |
|             | Bronchiectasis                  | 0.2%            | 2     | 1: Referred to Respiratory | 1: Known finding                          |
|             | Mediastinal lesion              | 0.0%            | 1     | 0                          | 1: Clinical judgement                     |

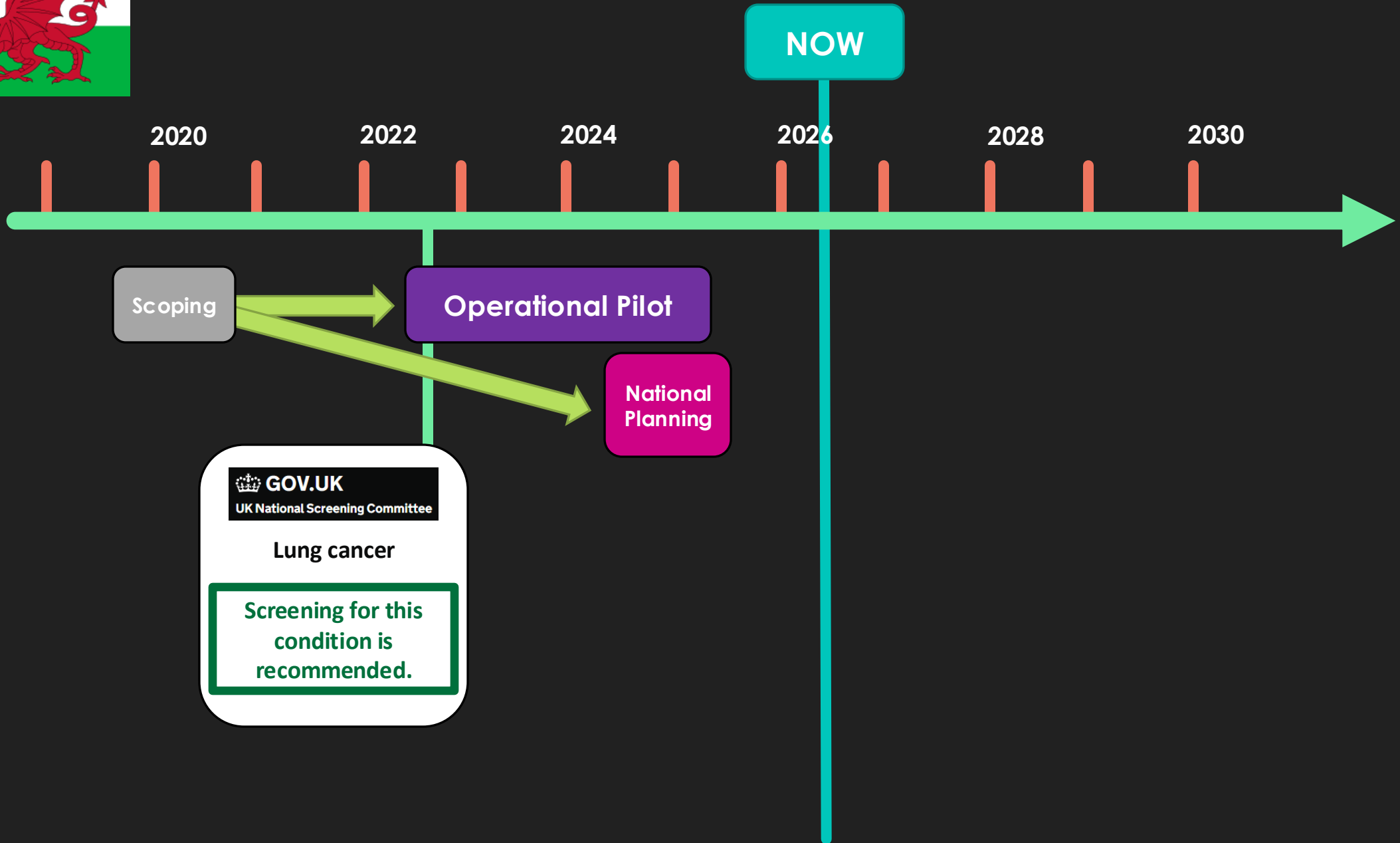
| Malignancy type      | Status             | Treatment                                 |
|----------------------|--------------------|-------------------------------------------|
| Breast cancer        | 1 confirmed        | 1 surgery & systemic therapy              |
| Mesothelioma         | 1 confirmed        | 1 immunotherapy                           |
| Renal cell carcinoma | 1 confirmed        | 1 surgery & immunotherapy                 |
|                      | 2 highly suspected | 1 surgery planned                         |
|                      |                    | 1 offered surgery, opted for surveillance |

| KPI                                     | Result |      |
|-----------------------------------------|--------|------|
| Uptake                                  | 58.3%  | >50% |
| Baseline scans                          | 547    | >500 |
| Lung cancer detection rate              | 2.2%   | >1%  |
| Number needed to scan per lung cancer   | 46     | <100 |
| False-positive rate                     | 0.2%   | <2%  |
| Invasive procedures for false-positives | 0%     | <2%  |
| Lung nodule requiring recall scan       | 17.6%  | <20% |
| Actionable incidental finding rate      | 7.3%   | <10% |

# The Pilot **provides assurance** that:

- Lung cancer screening **can be delivered effectively** within the Welsh healthcare system
- Lung cancer screening is likely to **yield benefits** in Wales as seen elsewhere
- A lung cancer screening programme would significantly **improve lung cancer outcomes** in Wales









GIG  
CYMRU  
NHS  
WALES

Iechyd Cyhoeddus  
Cymru  
Public Health  
Wales

## Introducing a targeted lung cancer screening programme in Wales

Public Health Wales

March 2025

Senior Responsible Officer: Heather Lewis  
Programme Manager: Chris Coslett  
Respiratory Clinical Lead: Dr Sinan Eccles  
Radiology Clinical Lead: Dr Timothy Pearce



Llywodraeth Cymru  
Welsh Government

Cymraeg



[All announcements](#)

CABINET STATEMENT

## Written Statement: A National Lung Screening Programme for Wales

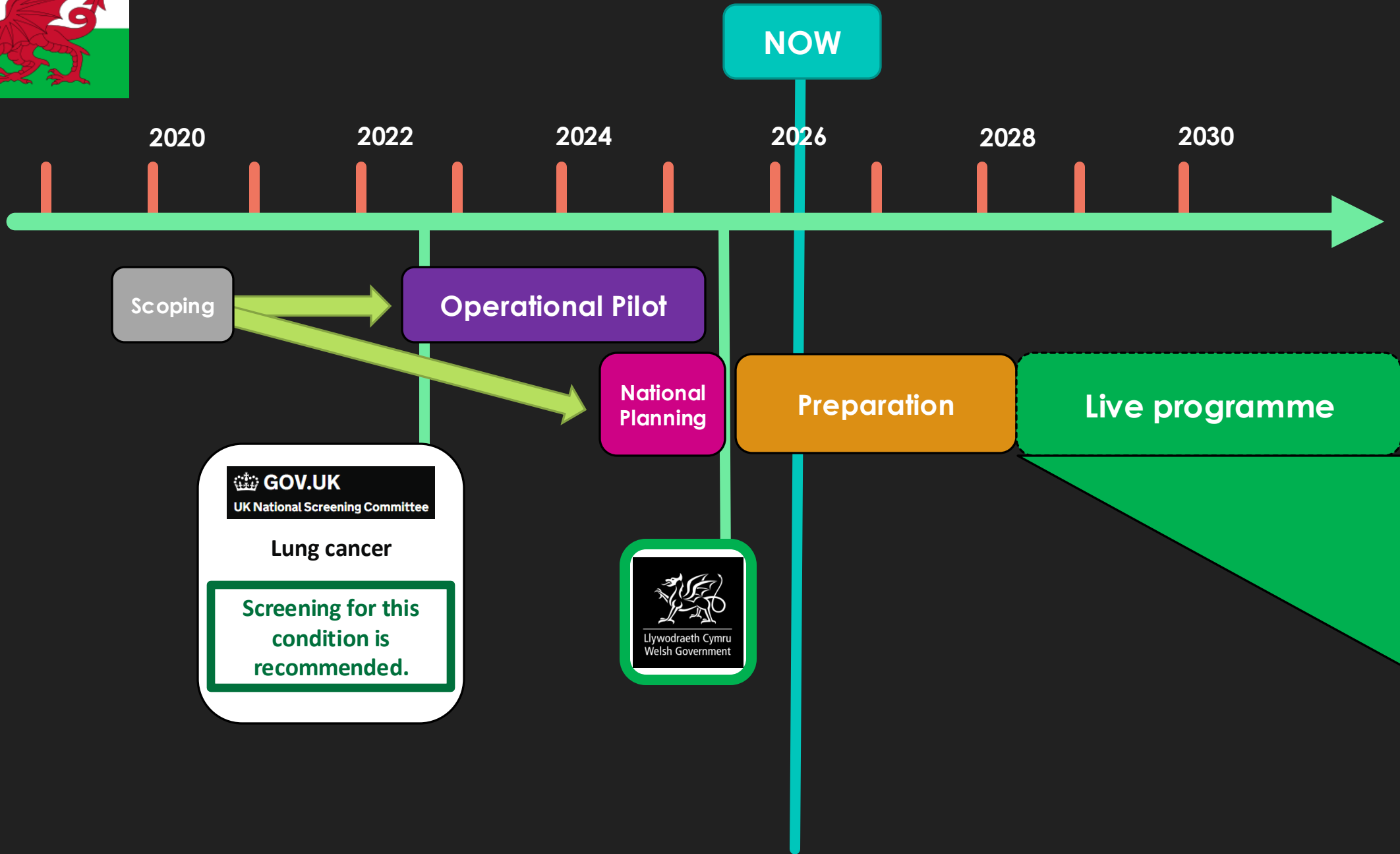
Jeremy Miles MS, Cabinet Secretary for Health and Social Care

First published: 28 June 2025

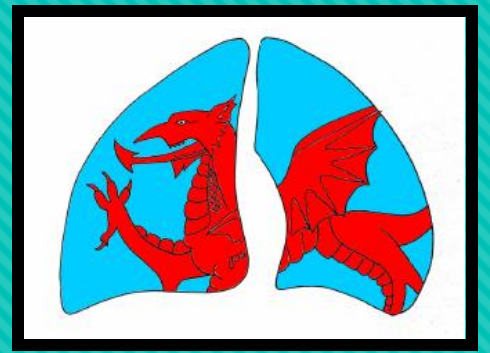
Last updated: 28 June 2025

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I am pleased to announce the Welsh Government will introduce a national lung cancer screening programme in Wales, targeted towards those at greatest risk of the disease.



# Key elements of planned programme in Wales



- “**Lung Screening Wales**”
- Phased **roll-out by age** starting at upper end of 55-74yos
- Procure single **all-Wales Screening Administration System** (PAS) to underpin programme
- Centrally delivered **telephone-based risk assessment**
- Multi-variable lung cancer risk assessment – **PLCOm2012 + LLPv2**
- New specific CT capacity for screening – **mobile scanners**
- Pooled all-Wales CT reporting with **single queue**
- Establish **Screening Review Meetings** in each Health Board
- Standard **2-year interval**, in-programme lung nodule surveillance
- Enhanced NHS Wales **Help Me Quit** offer for current smokers



**Meng Khaw**  
Senior Responsible Officer  
(PHW Exec Medical Director)

**Heather Lewis**  
Programme Director  
(Public Health Consultant)

**Chris Coslett**  
Head of programme

**Sinan Eccles**  
Respiratory  
Clinical Lead

**Tim Pearce**  
Radiology Clinical  
Lead

**Claire Hammond-  
Bowers**  
Lead Radiographer

**Sarah Maclean**  
Lead Nurse

**Welsh  
Government**

**Health Boards**

**Primary care**

**Industry**

**Third Sector**

**Joint Commissioning  
Committee**

Quality &  
Improvement

Comms &  
Engagement

Estates, Health  
& Safety

People &  
Organisational  
Development

Smoking  
cessation

Legal

Project  
management

Digital

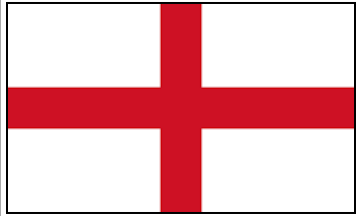
Strategy,  
Planning &  
Corporate Affairs

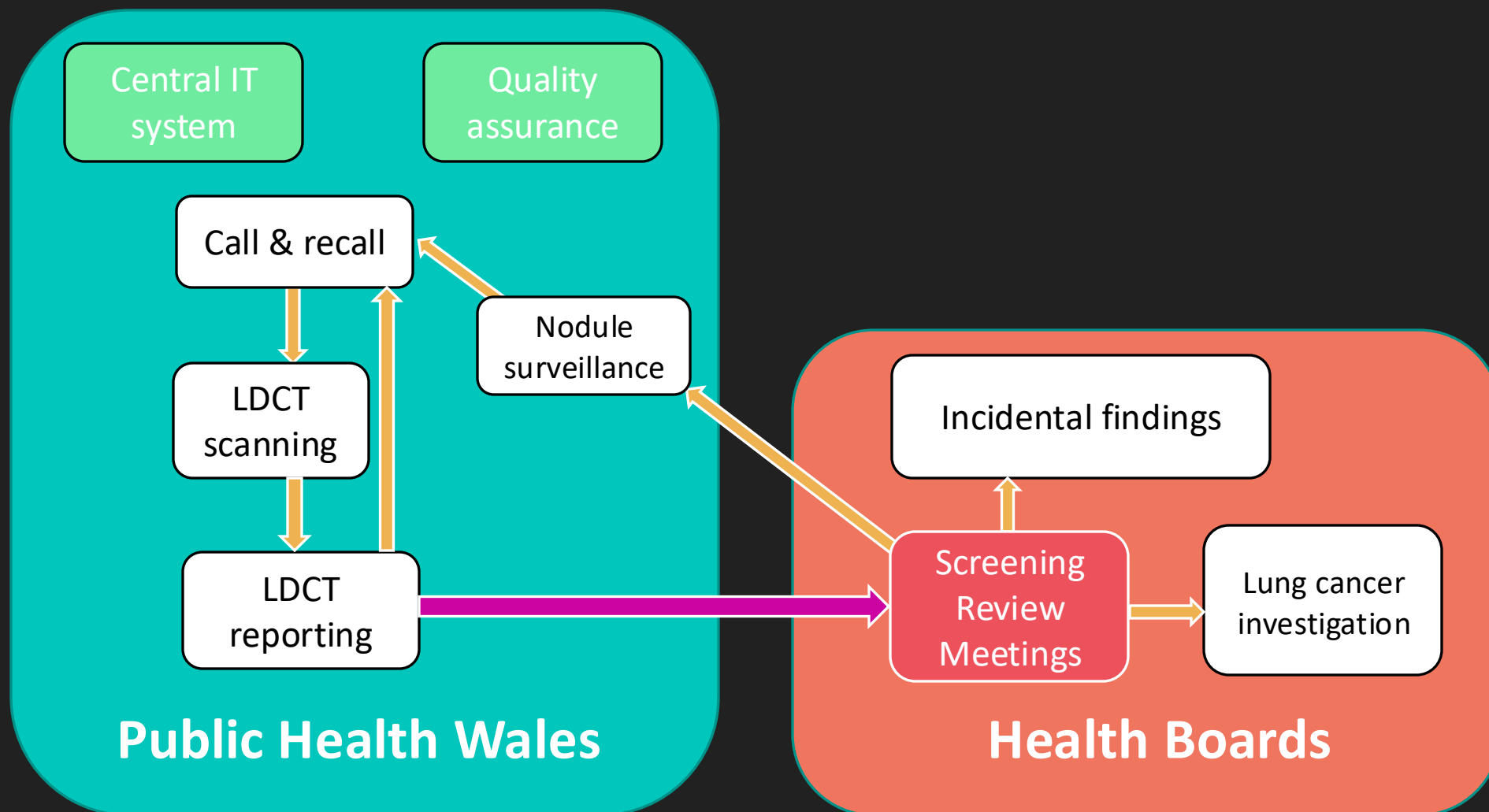
Operations

Finance

Procurement

Information  
Governance

|                                                                                    | Scoping | Pilot(s) | National |             | Roll-out |       |
|------------------------------------------------------------------------------------|---------|----------|----------|-------------|----------|-------|
|                                                                                    |         |          | Planning | Preparation |          |       |
|    |         | 2011-    |          | 2019        | 2019     | 2030? |
|    | 2019-20 | 2023-25  | 2024-25  | 2025-28     | 2028     | 2034  |
|   |         | 2013-    | 2024-    |             | ?        | ?     |
|  |         |          |          |             |          |       |





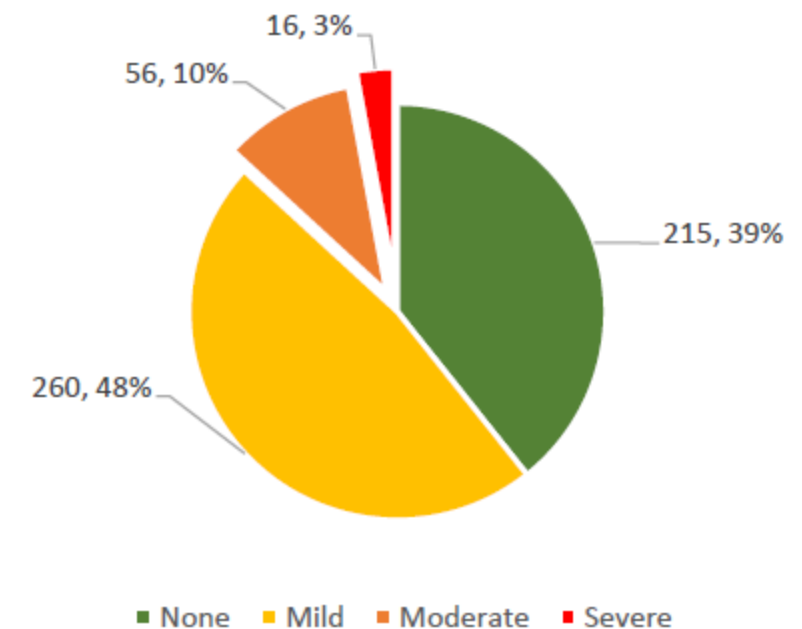
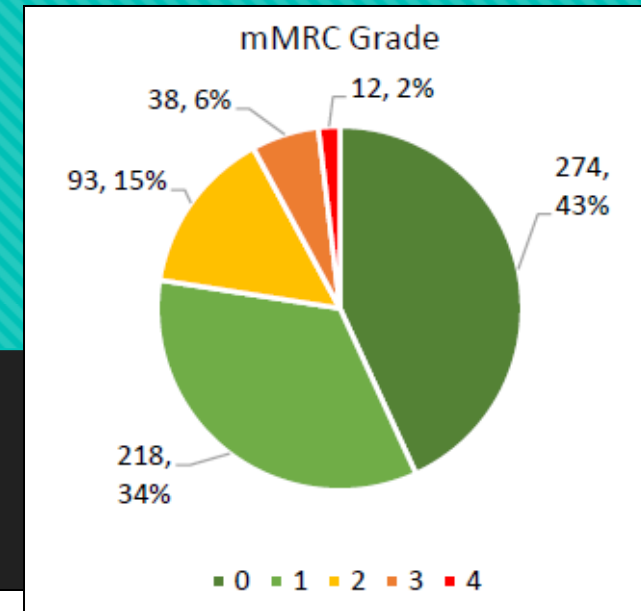
# Incidental findings

## Emphysema

- Very common in this cohort, mostly mild
- Not the same as COPD
- Harms of overdiagnosis
- Standard advice on results letters
- Consider further action if moderate/severe emphysema + no prior COPD diagnosis + symptomatic

## Low frequency of other respiratory findings (<1%)

- “Asymptomatic” population
- Higher threshold for reporting than symptomatic setting
- Opportunity for in-programme surveillance



*Extent of emphysema on baseline LDCT scans.*

# Challenges

- Large complex implementation programme
  - Digital
  - Logistics & rurality
  - Workforce
  - Downstream capacity
  - External dependencies
- Deprivation & “Healthy screenee” bias

Of the most common cancer types, **lung cancer** has the **widest cancer death inequality**

Smoking

Health-seeking  
behaviour

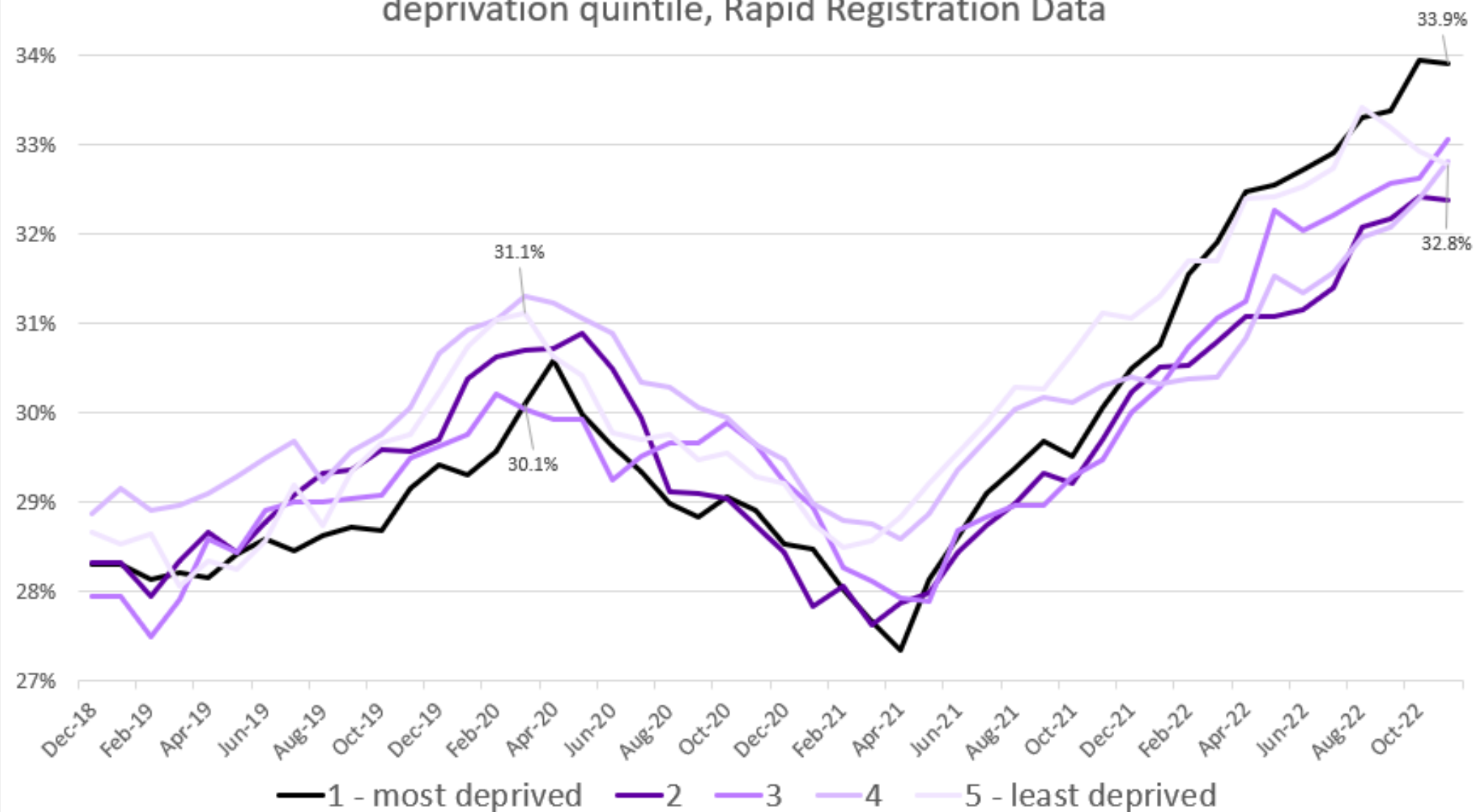
People who live in  
**deprived areas** are  
**2.75x**  
**more likely**  
to develop **lung cancer**

Stigma &  
nihilism

Access to  
healthcare

The **deprivation gap** in outcomes for lung cancer has **widened in Wales** over the last 20 years

12-month moving average of lung cancer Early Diagnosis Rate by deprivation quintile, Rapid Registration Data



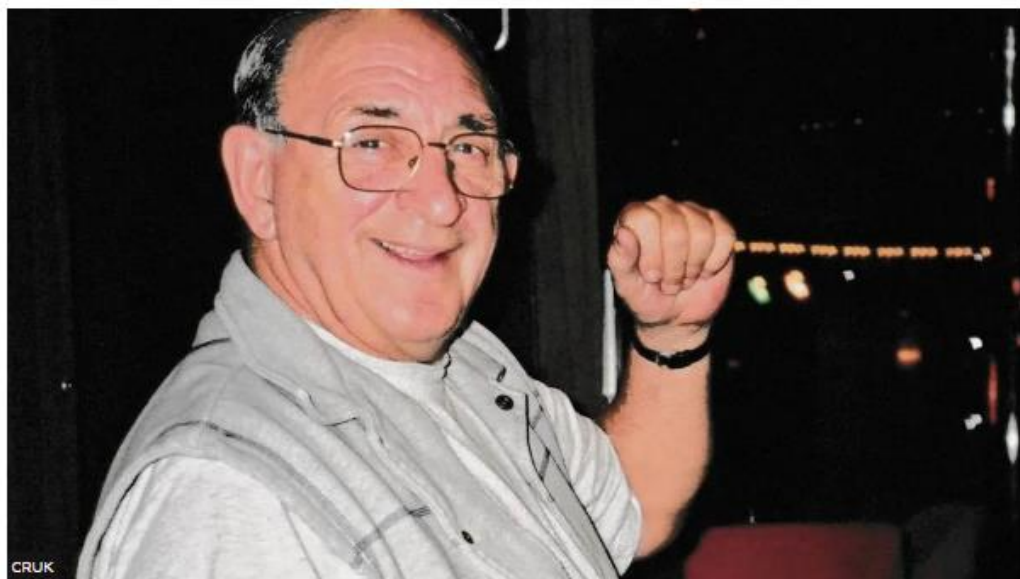
## NEWS

Home | Israel-Gaza war | Cost of Living | War in Ukraine | Climate | UK | World | Business | Politics | Culture

Wales | Wales Politics | Wales Business | North West | North East | Mid | South West | South East | Cymru | Local News

# Lung cancer screening could have saved my dad, claims daughter

2 hours ago



Jack Cordwell died after being diagnosed with lung cancer, aged 76

By Jack Grey

BBC News

A woman described the shock of finding out her father had lung cancer, despite having not smoked for 20 years.

Lorraine Wingert-Scheeres, whose dad Jack Cordwell died aged 76, believes it

## NEWS

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Wales | Wales Politics | Wales Business | North West | North East | Mid | South West | South East | Cymru

# Lung cancer: Woman once paid in cigarettes welcomes screening

13 October 2023

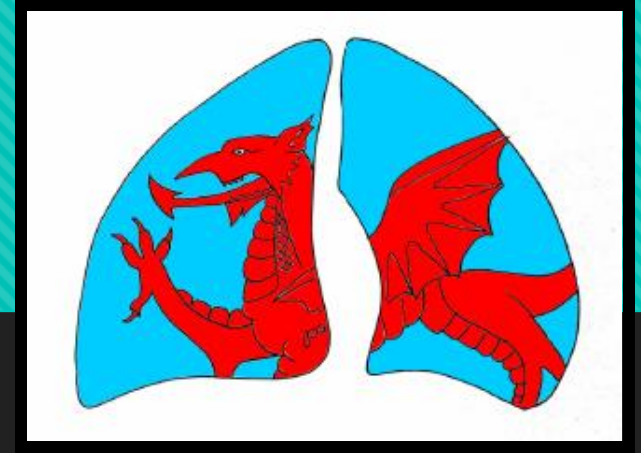


Julie Williams started smoking as a teenager but gave up recently

Jenny Rees

BBC Wales health correspondent

# Summary



- **Lung cancer screening**

- Clinically and cost-effective
- Recommended for implementation by UK National Screening Committee

- **National lung cancer screening programme** in Wales

- Commitment from Welsh Government to development of programme
- Large complex programme of implementation work led by Public Health Wales
- Launch Spring 2028

**[Sinan.Eccles@wales.nhs.uk](mailto:Sinan.Eccles@wales.nhs.uk)**