



Hull Lung Health Check

Stakeholder Event

Friday 26th November 2021









Welcome

Yvonne Elliott

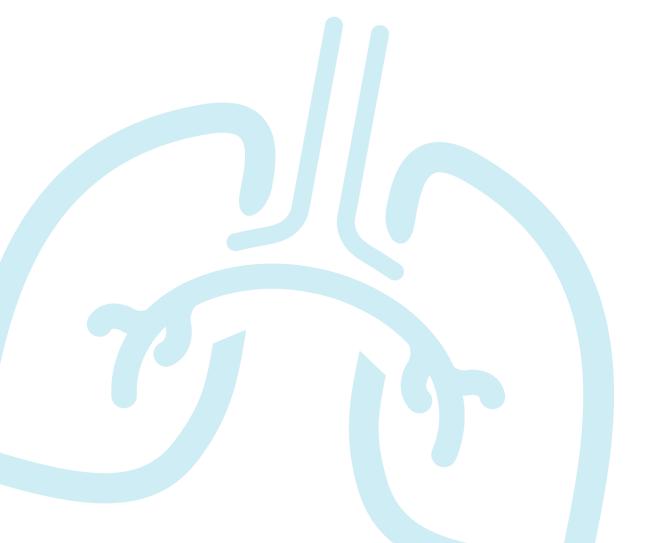
Managing Director

Humber, Coast and Vale Cancer Alliance







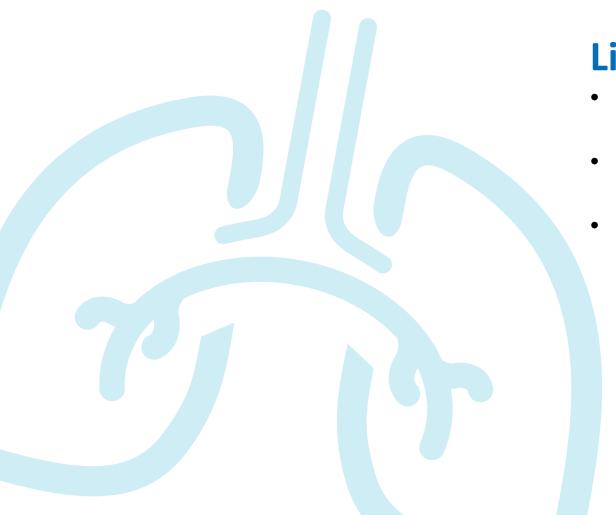


House Keeping

- Please set mobile phones to silent
- Fire exits and assembly points
- Toilets







Live Stream

- The event is being live streamed and a recording will be circulated after the event.
- There will be a question and answer session following each set of presentations.
- Anyone watching the event online is welcome to submit questions to <u>comms.hcvcanceralliance@nhs.net</u>.





Aims

- Recognise and celebrate the work that has taken place to establish lung health checks in Hull
- Recognise the work that has taken place to continue the service despite the impact of Covid-19 and ongoing pressures
- Share best practice and key learnings from lung health checks in Hull
- Look to the future of lung health checks across Humber, Coast and Vale
- Facilitate relationships and networking across the patch
- Provide an opportunity to tour the mobile units and engage with external delivery partners





NHS Targeted Lung Health Checks

Dan Cariad

Deputy Director

NHS Cancer Programme







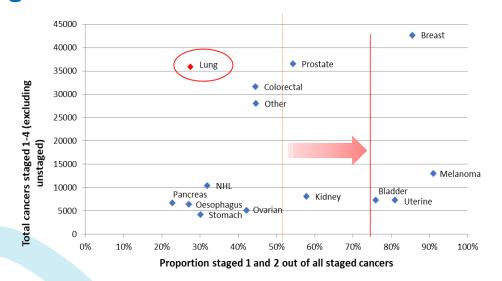
Early Diagnosis and the Long Term Plan

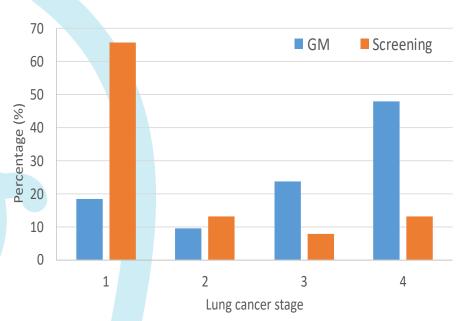


The NHS Long Term Plan: transforming cancer care

Two ambitions set by the government. By 2028:

- An extra 55,000 people each year will survive for five years or more following their cancer diagnosis.
- Three in four cancers (75%) will be diagnosed at an early stage.
- Currently 28.9% of lung cancers are diagnosed at stages one and two*.
- GM pilot programme showed early diagnosis rates up to 80%.



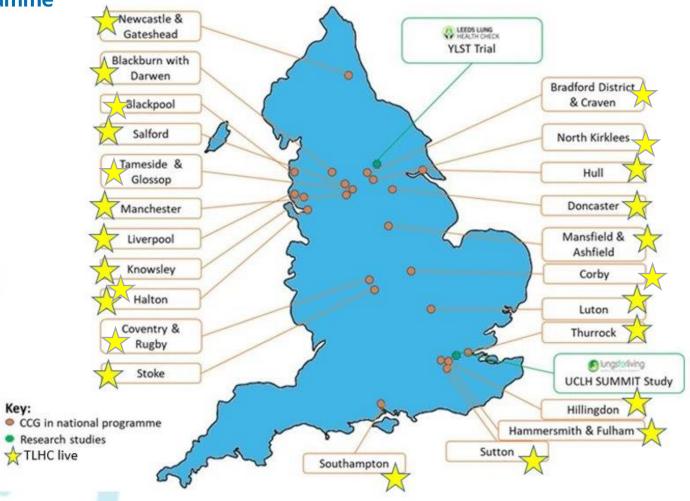


^{*}Reference Cancer Stats 2 – most recent data 2018

Targeted Lung
Health Check
Programme

Phase 1 & 2 TLHC locations





November 21:

23 out of 23 phase 1&2 places live

TLHCs now confirmed in additional 20 places as part of phase 3 expansion – due to go live Q1 22-23

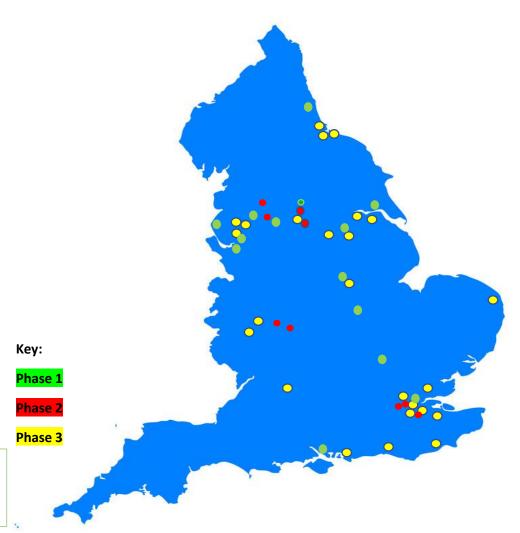




Phase 1, 2 & 3 TLHC locations

				1	Corby
Region	Cancer Alliance	ccg			with Mansfield & Ashfield
		Blackburn and Darwen		ЕМ	Nottingham
1		with Blackpool			Coventry
ı	LSC	East Lancashire			Stoke
		Tameside and Glossop			Black Country & West Birmingham
ı		Salford	Mids	WM	Birmingham and Solihull
ı	GM	Manchester			North East Essex
1		St Helens		EQE N	Great Yarmouth
1		South Sefton			Southend
1		Knowsley			Thurrock
North		with Halton	EoE.	EQE S	with Luton
West	C&M	Liverpool		Surrey & Sussex	Brighton & Hove and Hastings
1		Newcastle Gateshead		Thames	
1		Sunderland		Valley	Swindon
ı	Northern	South Tyneside		Kent & Medway	East Kent
1		Tees Valley	South		Portsmouth
1		North Kirklees	East		Southampton
1		Bradford with Craven	South	SWAG	Whole Alliance
1		Hull	West	Peninsula	Kernow
		NE Lincolnshire			Hammersmith and Fulham
	HCV	North Lincolnshire		RM	Hillingdon
		Doncaster		Partners	Sutton
		Barnsley		SE London	SE London
		Rotherham		NE London	NE London
NE&Y	SYB	Bassetlaw	London	NC London	NC London

Phase 3 expansion extends coverage of the TLHC programme to 17.5% of the eligible population in England.



Management Information Data Outcomes



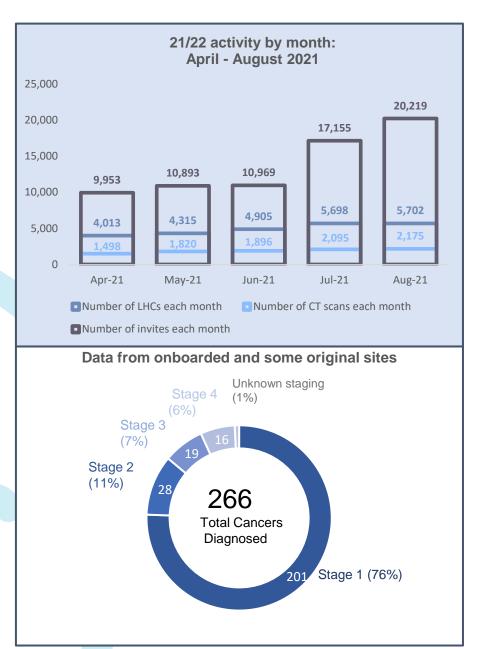
Data from programme start to August 2021

Indicator	National
Invited to Lung Health Check	148,519
Accepted a Lung Health Check	47,735
Attended a Lung Health Check	46,382
Attended a face-to-face Lung Health Check	15,432
Attended a telephone Lung Health Check	30,950
Did not attend LHC	4,298
Did not attend a face-to-face LHC	1,369
Did not attend a telephone LHC	2,929
Total number of scans performed	28,646
Initial LDCT scan performed	17,971
Follow up scan performed	10,675
3 month follow up LDCT scan performed	2,242
12 month follow up LDCT scan performed	8,337
24 month follow up LDCT scan performed	96
Incidental findings	961

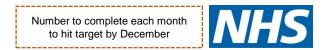
Data caveats:

Some projects are experiencing data submission issues, so some of the data items displayed on this slide are incomplete.

Cancer diagnosis data is missing from Luton, Thurrock, Mansfield & Ashfield and Blackpool. We hope this will be reported on in November's submission.

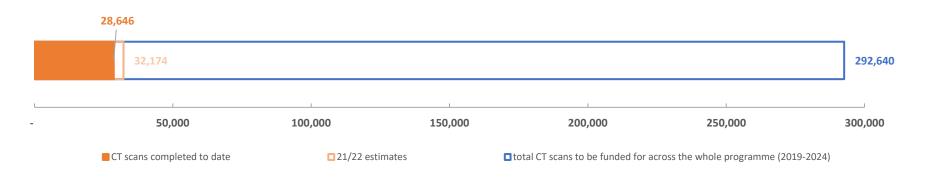


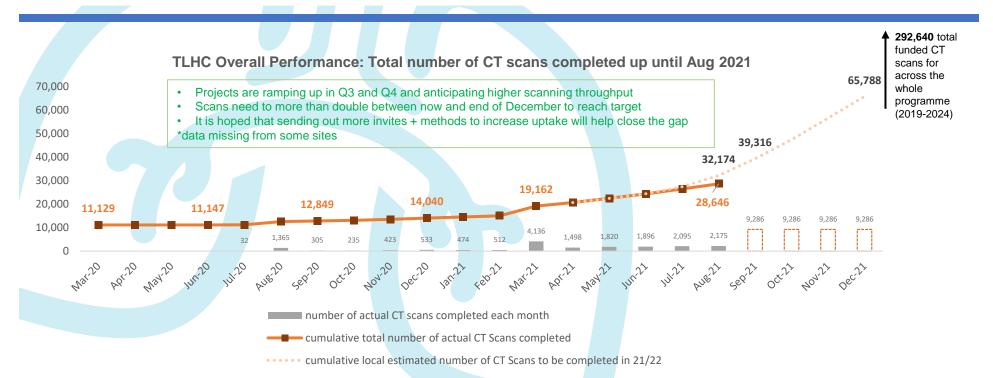
Total Cumulative Activity data



Overall Number of CT scans completed up to August 2021

TLHC Overall Performance: Total number of CT scans completed up until Aug 2021





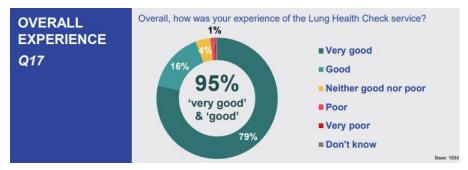
KEY	f :
	All participants
	Participants who had a CT scar
	Participants who received smoking cessation advice

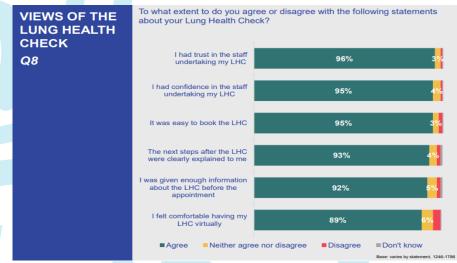
Ipsos MORI Attendee survey Q1 programme-level findings



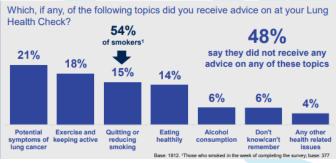
WHAT ENCOURAGED ATTENDANCE Q6







TOPICS
PARTICIPANTS
RECEIVED
ADVICE ON
Q9



CONFIDENCE
IN NOTICING A
SYMPTOM OF
LUNG CANCER
Q13







Lung Health Checks in Humber, Coast and Vale

Dr Stuart Baugh

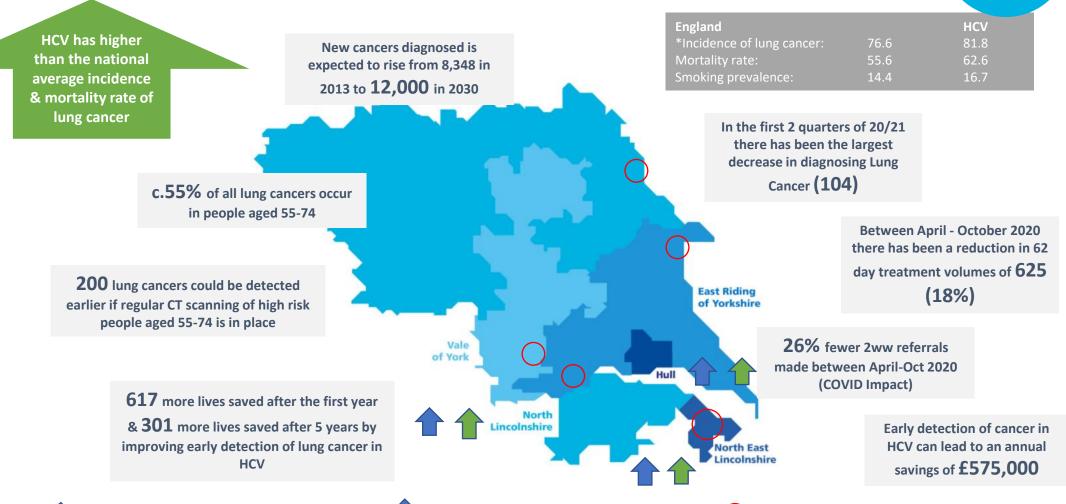
Programme Director



The impact of lung cancer on the HCV communities: In numbers

Mortality & incidence higher than national average T Smoking prevalence higher than national average





*Incidence per 100,000, Mortality per 100,000, Percentage of adults (18+ years) smoking

Hotspots





COVID-19 Impact

The recent publication of the Covid-19 Matters report by the Lung Cancer coalition, outlined some of the key challenges related to the impact of Covid-19 on the lung cancer pathway, and ultimately diagnosis. Key challenges included:

- Delayed patient presentation
- Reduction in 2 week wait referrals
- Changes in diagnostic and treatment capacity
- Impact of stopping lung cancer screening programmes

One of the key recommendations in the report for national NHS bodies was:

'Where they are operational, lung cancer screening programmes should be supported to resume at the earliest opportunity. As well as directly benefiting patients, this will enable the development of the necessary evidence base to support the wider roll-out of a national screening programme across all four of the devolved nations.

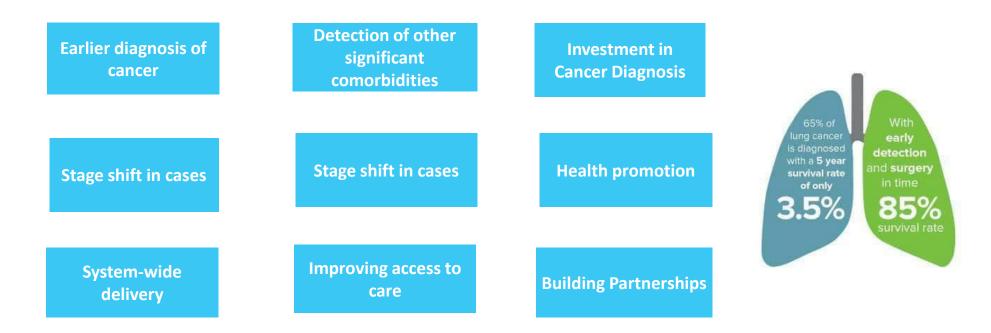
Source: <u>COVID-19 Matters</u>





Benefits and Opportunities

The Alliance has always held the ambition to roll out TLHCs across Humber, Coast and Vale. There is a great opportunity now as part of Phase 3 of the National TLHC expansion to roll out the service to North and North East Lincolnshire.



Additionally, the TLHC programme will support with addressing the key challenges as a result of the impact of COVID-19 Pandemic on the lung cancer pathway.



Current Service



- Searches done on GP register (formerly done by CCG but moving to NECS)
- Individuals invited for a free lung check delivered on mobile units in their local community
- Participants ring in to Hull University Teaching Hospitals NHS Trust booking team who book LHC appointments (currently telephone)
- Lung health check delivered via telephone with risk assessment.
 If at high risk appointment for CT scan made
- Following the lung health check those assessed as high risk are offered a low dose CT scan
- Scan reported using AI (outsourced to Heart and Lung Health)
- Results go into Hull University Teaching Hospitals NHS Trust Hub
- Radiology review meetings with respiratory clinician\radiologist and nurse
- MDT
- Treatment as per two week wait pathway\non-cancer pathways
- Hub nurse\clinician go through results and letters sent to GP\participants or telephone conversation as necessary.









System Support to Enable Delivery

- Promoting this initiative within your organisations and networks
 - Engagement with the project team as required
 - Support with accessing the available local data
 - Support with making stakeholders available as required



Christine and Danny's story







Commissioning of TLHC

Phil Davis

Strategic Lead Primary Care

NHS Hull Clinical Commissioning Group







Smoking in Hull

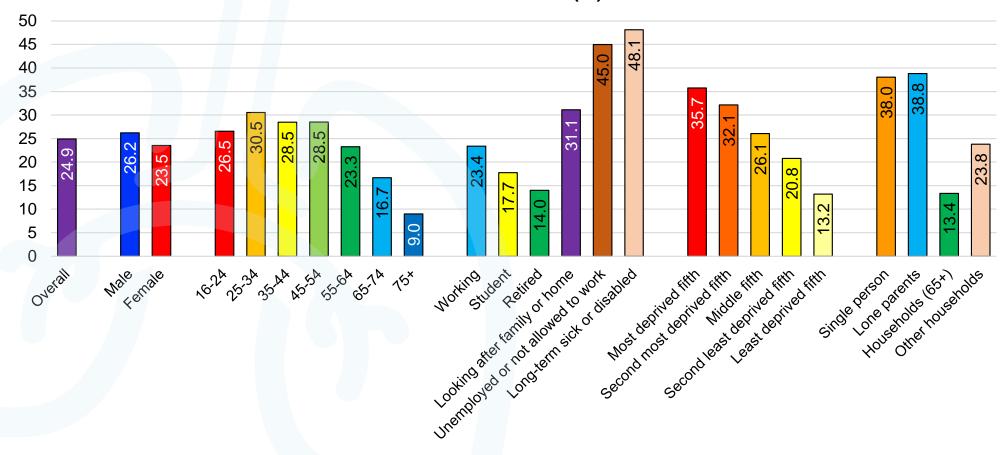
- Estimated that there are around 45,000 adults aged 18+ years
 who are *current* smokers in Hull
- Smoking rate falling but 24.9% v England rate of 13.9%
- Smoking rates correlated with deprivation
- Many ex-smokers also at an increased risk of smoking-related illnesses and premature death.





Smoking in Hull

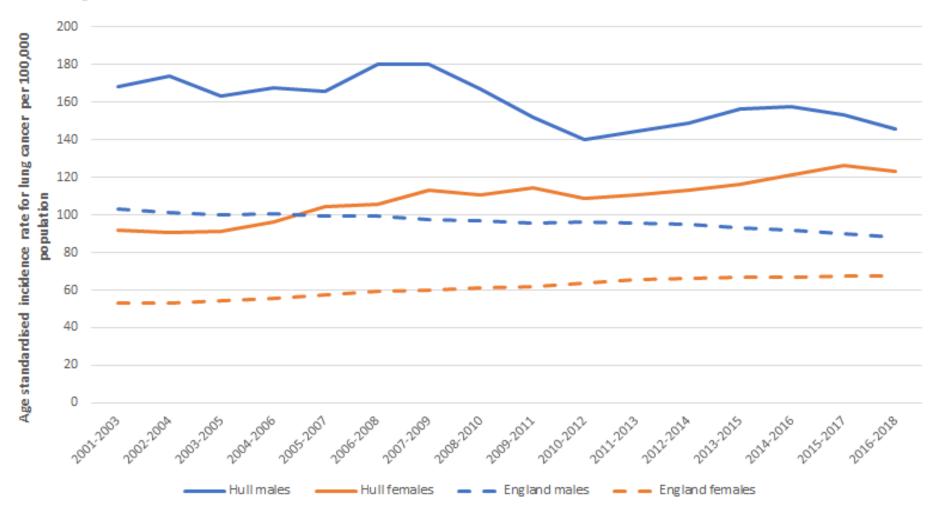








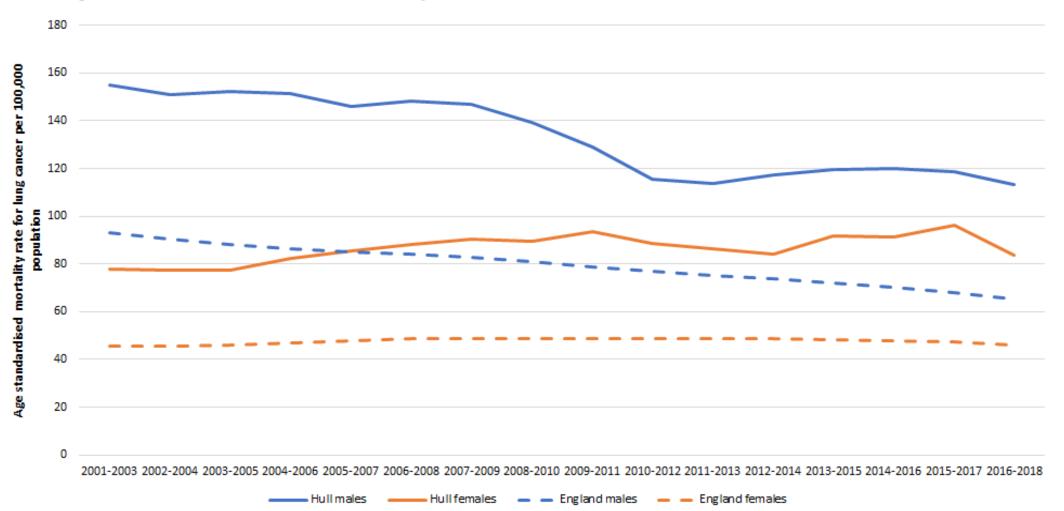
Lung Cancer incidence in Hull







Lung Cancer mortality in Hull







TLHC - Equality Impact Assessment

- Undertaken at outset of programme
- Discussion groups and a Community Stakeholder event held with people in eligible group - provided valuable insight into:
 - Literature to be used
 - Community locations for the service
 - Approaches to engaging with different communities
- Use of Cancer Champions
- Access to Interpretation Services double appointments





TLC Modelling (best estimate)

• 16,134	LHC appointments
-----------------	------------------

1 4,843	LHCs will be	performed
----------------	--------------	-----------

•	3,063	initial CT	scans will	be und	lertaken

346	lung cancers	will be found	over the 4 v	years
			· · · · · · · · · · · · · · · · · · ·	

5,332	patients wit	h emph	nysema will	be

6,047 patients will have some form of coronary artery calcification





Developing the CCG Business Case

- LHC resources cover:
 - Searches in primary care
 - Invite and eligibility confirmation process
 - Lung Health Check at unit / by telephone
 - Low dose CT and follow-up scans
 - Smoking cessation services & lifestyle advice

Onward pathways - funding required from CCG and Specialised
 Commissioning Team





Developing the Business Case

- Need to understand all potential onward pathways:
 - Where scan indicative of lung cancer 2ww
 - Other clinical anomalies detected:
 - Other Cancer
 - Other Respiratory and Cardiac
 - Direct to most appropriate service:
 - Primary care / secondary care / community services
 - Direct referral where possible





Cost elements and funding source

Item	Lung Health Check	CCG	Specialised Commissioning
Cancer Services Management & Nursing		٧	
Clinical Investigations (Radiology)	٧	٧	
Lung Cancer Pathway		٧	٧
Lung Nodule Pathway		٧	
Non Cancer Findings		٧	
Surgery			٧
Radiotherapy & Clinical Oncology			٧
Clinical Investigations (Pathology)		٧	
Nursing for the Mobile Unit & Booking Team	٧		
Cardiology Pathways		٧	





Summary and key messages

- Public engagement and communication will make programme more successful
- Engage with all key stakeholders in planning primary care are key to successful implementation
- Understand and plan for the full impact of the TLHC all potential pathways – Lung Cancer, other Cancer and non-Cancer
- Work with Acute Trust and Specialised Commissioning in developing business case





Communications and Engagement

Emma Shakeshaft

Head of Communications, NHS Hull CCG

Sarah Rowland

Communications and Engagement Officer Humber, Coast and Vale Cancer Alliance







Aims and objectives

- To deliver genuinely inclusive engagement so the lung health check service includes views of patients, the public, staff, and other stakeholders
- To raise awareness and understanding of lung health checks across our internal and external stakeholders
- To develop and raise the profile, visual identity and key messages of the lung health check

- To ensure staff, patients and carers have had the opportunity to co-produce the new service with commissioners and clinical leads at an early stage
- To use social marketing approaches across our communication and engagement activity to encourage people to attend a lung health check
- To continually promote positive feedback from the service to enhance its reputation across the health community and wider public







Our approach in Hull

Pre-launch

April 2019 to December 2019

Full launch

January 2020

Ongoing communications

January – March 2020 April 2021 onwards





Pre-launch

April 2019

December 2019

Communication and engagement plan developed

Stakeholder mapping Equality Impact Assessments (EQIA) Budget established

Working group established

Cancer Alliance
NHS Hull CCG
Hull University Teaching
Hospitals NHS Trust
Cancer Research UK
Macmillan Cancer Support
Healthwatch
GP Practice Manager
LHC Programme team
NHS Cancer Programme
Communication team

Materials and resources developed

Key messages
Local branding
Website
Leaflets
Animation
Participant Booklet
Videos to support
engagement/social media
Frequently asked questions

Engaged with internal stakeholders

Presented at key meetings, including Protected Time for Learning
Written briefings
Media training
GP Information pack
CRUK practice visits
Patient Relations

Engaged with external stakeholders

Introduction event for voluntary and community groups
Volunteers trained
Reference group established
Attended community group events and linked with existing groups
Circulated a comms toolkit
Other Clinical Commissioning
Groups and Trusts

GP Information Pack – Letter from GP Lead, pathway information, banners, posters, animation for TV screens, leaflets, core script for practice staff, social media, GP FAQs, sample MJOG messages







Communications



Social Media

Paid advertising
Live tweeting
Launch video
News release/interviewees
Branded launch pack, bag and cups

Radio Advertising

Viking FM using local actors

Billboard

Hull City Centre KCOM Stadium – Hull FC vs Hull KR

Articles

Hull Mag
Partners, community and council
newsletters

Launch Event January 2020



National and local speakers



Tours of the mobile unit



Ongoing Communications



Relaunch of Lung Health Checks



All resources updated to reflect service changes, including website and participant booklet Virtual Walkthrough video

Frequent communication

Clinically led blogs and articles Cancer awareness days and national campaigns (Help Us Help You) Paid social media boosting

Patient stories





Catherine's story



Relaunch media event





Katie Hermann DAVE and myself have had a free lung check nurses putyou at ease it is worth having it done xxxx

Like · Reply · 13 w

Uptake levels and participant feedback is frequently monitored and used to influence communication and engagement activities.



Reflections



What worked well

Partnership working
Frequently involving key stakeholders
Working with Cancer Champions and Hull
Champions programmes
Community reference groups (for leaflets
and location of LHC unit)
Patient stories
Media activity
Community magazines

What's next?

Announcement of additional funding Relocation of mobile unit in North Hull Continue to encourage uptake Highlight programme successes

Challenges

Local and national alignment of branding and publicity
Impact of Covid-19 and ongoing system pressures
Managing public expectations

Get in touch comms.hcvcanceralliance@nhs.net





Invitation and Bookings

Mel Leedham

Clinical Administrative Manager Hull University Hospitals NHS Trust

Rachel Iveson

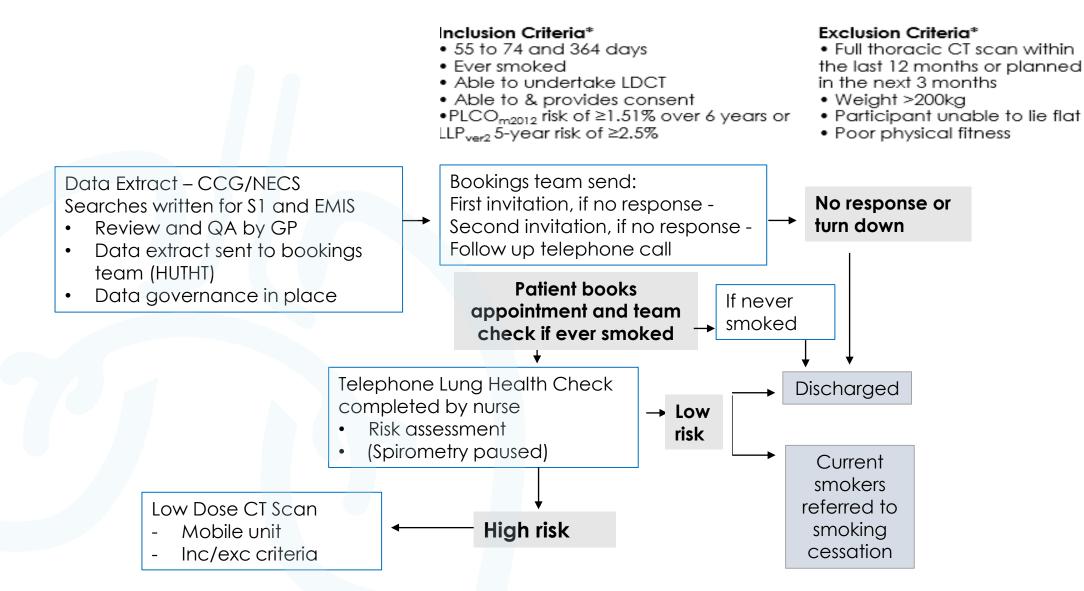
Project Manager Humber, Coast and Vale Cancer Alliance





Targeted Lung Health Check - Hull Pathway







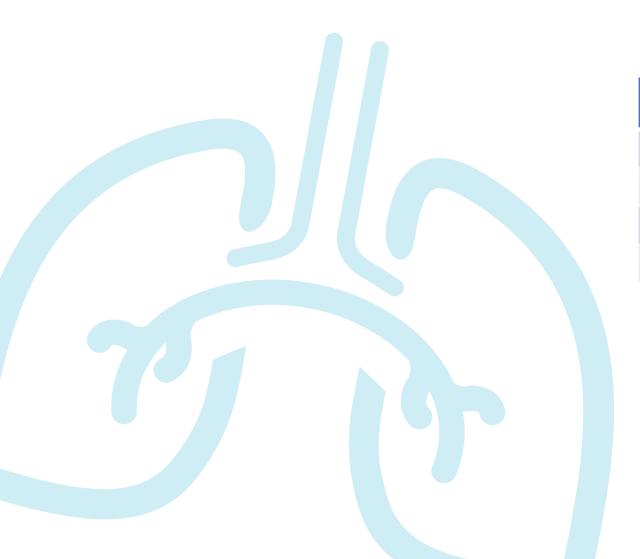


Targeted Lung Health Check – GP Searches

- Searches of SystmOne and EMIS initially conducted by the GP Practice with CCG support but resource is limited
- About to transfer to the North East Commissioning Support Unit (NECS) and conducted remotely – search includes:
 - Inclusion criteria
 - Exclusion criteria
 - Flags people resident in the nursing/residential home for review by GP
 - GP checks/amends list and sends back to NECS
 - NECS send the final list to the bookings team at HUTHT
- Data sharing agreements in place
- Covered in the GP contract







Administration Structure

Role	Whole Time Equivalent		
Hub Manager	0.6		
Team Leader	0.8		
Senior Administrator	3.0		
Administrator	5.0		

Time was taken by the clinical team to share the knowledge and the purpose of the programme.

All of the administrators are committed and enthusiastic to support and are clear on the positive outcomes the LHC can bring.





Participant Invitation Process (carried out by administrators)

- A referral is created for each participant identified from the GP search and added to the appropriate 'access plan' for booking dependant on the location of the van.
- Our system links to the NHS spine as we enter the patient record, so we do not invite any RIP patients or patients who have moved outside of the area
- Invitation letters are sent to participants to call in to book an appointment. This is calculated by the number of vacant nurse telephone appointment slots in the next six weeks plus 40% uplift for non responders.
- If the participant does not contact us within 14 days we will send a reminder letter.
- 15 days after the reminder, we make a call to the participant
- If the participant accepts, we continue the call to book if eligible, if declines, we close the referral
- If the participant doesn't answer, we will leave a voicemail where possible and close the referral as no response





Call Handling Process (carried out by administrators)

- When a participant calls we introduce ourselves, thank the participants for their interest in taking part and we give the patients a brief explanation of the project and what is a Lung Health check
- Authentication of name, NHS number, date of birth and postcode
- Consent is taken we ask if we may ask further questions in line with the script
- The appointment is booked if eligible and a confirmation letter is sent
- A text reminder is sent 7 days prior to the appointment
- If the patient asks medical questions we will hand over to the nursing team to discuss symptoms, past history of illness or anything else not covered by the script.





Receptionist on the Van

- Check the participants have no covid symptoms and rebooked any appointment where needed
- Provided face covering unless the participant is exempt
- Authenticates and arrives all patients to the clinic
- Greet any unexpected 'walk ins' and explain the service and the appointment system
- Clean down the waiting area, hand rails in line with infection control
- Distribute consent forms

Administration of Clinic Appointments

- All rescheduling by participant or by provider is managed by the administrators and recorded on the Patient Administration System in line with the cancellation protocol
- All clinics have a dedicated administrator to ensure all arrivals and departures are updated as close to real time as possible (KPI – within 24 hours)
- All participants who do not attend are managed in line with the agreed protocol





Cancellation Protocol

<u>Telephone Cancelled X 1</u> = Rebook next available

<u>Telephone Cancelled X 2</u> = Inform the patient they will be discharged from LHC and inform GP.

Baseline Scan Cancelled X 1 = Rebook next available

Baseline Scan Cancelled X $\underline{2}$ = Ask participant reasons for cancellation; if they are unwell, discuss with nurse rebook timescale. If the participant does not want to attend then discharge and inform GP.

Follow up Scan Cancelled x1= Rebook next available

Follow up Scan DNA x2= Ask participant reasons for cancellation; if they are unwell, discuss with nurse rebook timescale. If the participant does not want to attend then discharge and inform GP.





Did Not Attend (DNA Protocol)

<u>Telephone DNA X 1</u> =

- · Call participant and rebook
- · If unable to contact them, book and send details of new appointment
- Send notification to GP of DNA

<u>Telephone DNA X 2</u> = DNA discharge letter to GP and patient

Baseline Scan DNA X 1 = Auto rebook with 3 weeks' notice

<u>Baseline Scan DNA X 2</u> = DNA discharge letter to GP and patient. The administrator will email the LHC Nurse Hub inbox to advise of DNA The Nurse will edit the DNA letter and send out to participant. The administrator will close the access plan and referral with DNA comments recorded accordingly.

Follow up Scan DNA x1= Call patient to rebook, if no answer book and send details of new appointment Follow up Scan DNA x2= The administrator will email the LHC Nurse Hub inbox to advise of DNA. The Nurse will edit the DNA letter and send out to participant. The administrator will close the access plan and referral with DNA comments recorded accordingly.





Follow on actions from the initial nurse appointment (administrators)

- Daily check that each clinic has a departure outcome for each participant
- Every patient must be discharged, reappointed, booked in for a scan or onward referred.
- All patients scan bookings must be entered onto the Patient Administration System with the test placed

We check all patients booked for a scan appointment to see if they have had any other scans in the last 365 days due to the exposure to radiology.

In the event they have we will seek clinical advice on when the scan should be booked, it may be delayed or cancelled.





Results Management

- Any potentially serious findings are acted upon immediately and tracked on to their next care event; MDT or clinic appointment
- All participants with an urgent follow up plan are contacted by phone and a results letter sent within 7 days
- All participants with a non urgent outcomes are sent a results letter within 14 days
- The tracking process is managed by the senior administrators and any issues are escalated daily to the Team Leader and Hub Manager
- We have devised a suite of failsafe reports to ensure every participant is moved along their journey efficiently and the episodes are closed at the conclusion.





Panel Q&A

Dr Stuart Baugh

Programme Director
Hull Lung Health Checks

Mel Leedham

Clinical Administrative Manager Hull University Hospitals NHS Trust

Rachel Iveson

Project Manager Humber, Coast and Vale Cancer Alliance

Phil Davis

Strategic Lead Primary Care
NHS Hull Clinical Commissioning Group

Emma Shakeshaft

Head of Communications, NHS Hull CCG

Sarah Rowland

Communications and Engagement Officer Humber, Coast and Vale Cancer Alliance

Short break







Nurse Led Lung Health Check

Joanne Thompson

Lead Respiratory Nurse Specialist Programme Responsible Assessor







Nursing Team

- Nurse establishment;
- WTE 0.5 Band 7
- WTE 8.0 Band 6
- Currently WTE 6.0 Band 6.



- **Recruitment**; oncology, acute medicine, community, intensive care, chest medicine, roles complimenting one another staff having knowledge of cancer and lung health.
- Training;
 - National; ARTP National Spirometry registered, Communicating with High-Risk Individuals, Good Clinical Practice, Ionising Radiation (Medical Exposure) Regulations Practitioner.
- Local; TLHC aims and objectives, Training for Radiology & Nuclear Medicine Referrers, Respiratory History
 Taking, Consultation skills, National Centre for Smoking Cessation and Training (NCSCT) online, Very Brief
 Advice on Smoking, additional spirometry performance and interpretation, Lung Cancer Red flags, Clinical
 Data Capture Form, LDCT/research consent, IT/Excel, EBUS, PET, Bronchoscopy, Lung Cancer clinics
 (physician/specialist nurse), ensuring nursing staff have full exposure to the whole cancer pathway.





What Worked Well

- First round;
- B7 extended current role in asthma/COPD to include TLHC lead nurse/responsible assessor; recruitment, engagement with the wider team, evolving the service, developing protocols, standard operating procedures in line with NHS England 'Standard Protocol for the Targeted Lung Health Checks Programme'.



- B6 recruited together, 3 months training/upskilling, enthusiasm, team building, increased collaboration and engagement, passion.
- Community based; close to home, perceived to be less invasive, face to face comprehensive lung health assessment engaging participants in their lung health, spirometry, smoking cessation, LDCT if eligible, all at the same appointment.
- Operated well, though did not run long enough to evaluate full effectiveness/outcomes, ceasing the programme March 2020 due to the COVID-19 pandemic.
- Staff rotation between clinics and lung health check hub.





Programme Pause/Challenges

- March 2020;
- Staff redeployment.
- Completion of LHC hub workload.
- Poor staff morale, anxiety, distress, communication breakdown, team collapse, reduced contact with B7 lead resulting in perceived lack of support.
- Staff retention.
- B7 additional role COVID-19 follow up lead; service development, staffing, SOPs...etc.
- B7 maintain support and engagement of staff being managed in other areas.
- At risk staff role adjustment to COVID follow up.







Programme Pause/Positives

- Opportunity to develop and extend skill base e.g. Home Ventilation Team, Level 2
 NIV/CPAP, Acute Respiratory Assessment Service, COVID fu pathway, knowledge/understanding of respiratory symptoms.
- Subsequent flexible workforce, good for the programme/HUTH.
- 1:1 B7 meetings with the team, candidness and honesty.
- Shifting experiences to positivity.
- Team building supported by HUTH coaching lead.
- Improved self awareness/morale across the team.

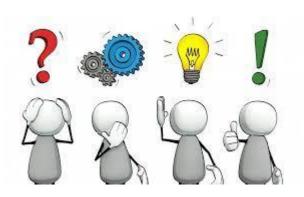






Restoration

- Adapt/review service delivery.
- No spirometry AGP, no F2F LHC assessment/smoking cessation.
- Recruitment; factoring in training needs whilst providing LHC delivery model.
- Staff shortages; sickness, maternity leave, delivery short falls provided with OT, minimal flexibility.
- Telephone clinics; restricted office/clinic space, vital to keep the team together
- Participant perception "how can you asses my lungs over the telephone", "no thank you, during COVID", "I'm not coming to the hospital during the pandemic",
- Triggers for LDCT; further appointment.
- Upskilling staff; develop assessment skills over the telephone, CT report interpretation, radiology MDT, action cancer/non-cancer findings, supervision from respiratory consultants.





Today



- Collaborative teamwork and communication across all partners.
- Close partnership working with administrative staff.
- Mobile unit returned to the community, vandalism.
- Telephone clinics continue, mobile unit/offices, social distancing remains challenging.
- Staff sickness; 19 participants per telephone clinic cancellations, Hub staff sickness results in telephone clinic cancellations.
- Longer periods spent in the hub on rotation.
- Participants requiring hoists are scanned in the trust.
- Double telephone slots for interpreters/mobility difficulties attending the unit.
- Paper LDCT consent / research paper and e-consent.









Learning and Guidance

- Recruitment of staff with good knowledge of IT systems, staff turnover timely recruitment.
- Now appreciated as part of the cancer pathway reducing the chances of further staff redeployment.
- Regular team meetings.
- Build in staff breaks within delivery model.
- Provide time and realistic expectations for new starters training.
- Emergency downtime; no electricity/no wifi.
- Ensure participants understand the programme.
- Contacting participants for reassurance/explaining results is timely, something that we didn't consider at the start of the programme.
- Suggest WTE 1.0 B7; service development is ongoing, SOPs, staff leadership, quarterly responsible assessor reports, quality assurance, spots checks, training refreshers.
- Suggest WTE 2.0 B6 for hub outcomes, MDTs, ordering CT scans.
- Prepare for the risks, sickness.
- Good resources, clear SOPs reviewing regularly.
- Monthly internal meetings; consultants, admin, nursing, business managers.
- Let the service grow and mature.







Overall

- Achieving service success following restoration during unprecedented times.
- Essential service.
- Teamwork with all partners continue.
- Some challenges remain, staff willing and able to support overcoming them.
- Great staff morale, dedicated team working extremely hard to deliver a high quality service to the community of Hull.

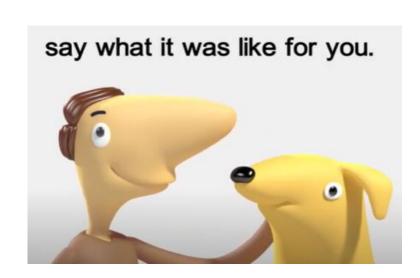






Friends & Family Test

- 99.1% of LHC participants feel positive about the service, rating it as 5 star.
- Comments;
- Everyone was friendly, put you at ease if you are scared. A pleasant experience.
- Not waiting long.
- Friendly staff and efficient.
- On time, clean pleasant, quick, no problems, so straight in and out.
- Early detection is a good thing.
- It is a good opportunity to check for problems, plus the experience is quick and painless.
- Friendly staff, put me at ease.



THANK YOU





Impact on Primary Care

Dr Masood Balouch

GP, NHS Hull CCG







Stages of Primary Care Involvement

Pre assessment

Assessment

Post assessment





Generating and reviewing lists of eligibility

Aged 55-74 +364 days and ever smoked

Exclusion criteria

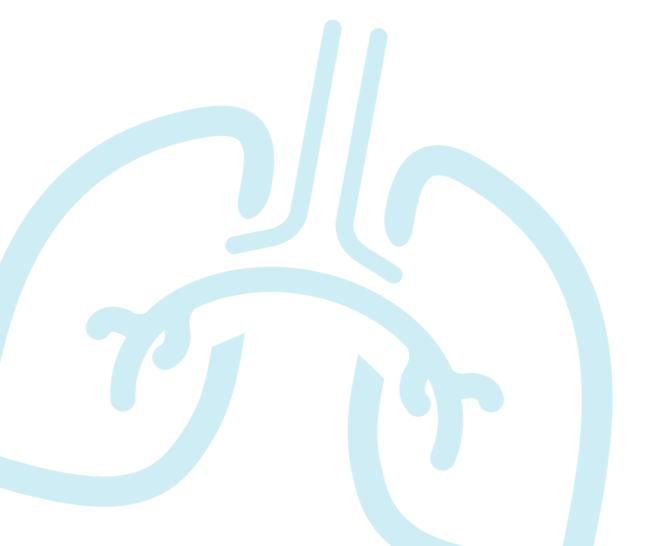
- on Palliative Care Register
- previous lung cancer in last 5 years
- metastatic cancer (excluding metastatic prostate cancer)
- CT scan in last year (this is pulled from GP data but also checked on RIS by HUTHT)

For GP review prior to referral

- at risk of severe frailty
- resident in a residential, care or nursing home







Patient Communications

Train practice staff about Lung health check programme

Increase awareness among patients

Patients queries about the process

Central helpline run by lung health check team





Additional Impact on Primary Care

Dealing with Incidental finding
Agreed codes across primary care for pts notes.

Emphysema

Coronary Artery calcification

Adrenal lesion

Aortic Valve Calcification

Bronchiectasis

Hepatic Steatosis (Simple Fatty Liver)

Osteoporotic Fracture

Pleural Plaques -

Respiratory Bronchiolitis associated Interstitial Lung Disease (RBILD)

Thoracic Aortic Aneurysm

Thyroid Nodules – Lump in Right / Left Thyroid gland





Communication with Secondary Care





Anything different

- Extra help to deal with incidental findings.
- Provide more information at initial stage to reduce primary care workload later.





Preliminary Service Evaluation

Kanwal Tariq
Gavin Anderson
Consultant Respiratory Physicians
Hull University Hospitals Trust







Reflection on and evaluation of Hull LHC Service:

- Delivery of LHC (without disrupting other services)
- Acceptability to participants
- Outcomes: finding cancers and other serious pathology

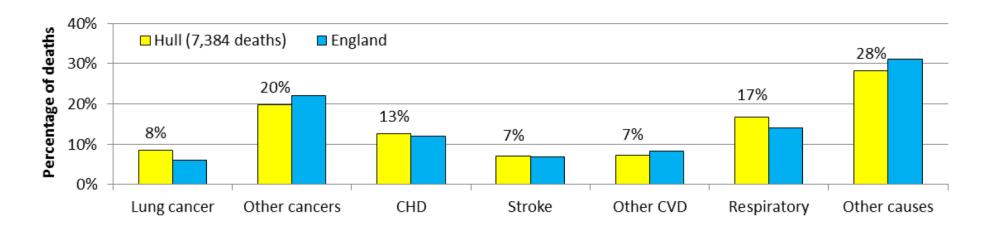
Why necessary in Hull?



Area	Recent Trend	Count	Value		95% Lower Cl	95% Upper Cl
England	-	85,336	56.3		55.9	56.6
Yorkshire and the Humber region	-	9,951	65.8	H	64.5	67.1
Kingston upon Hull	-	641	106.6	-	98.5	115.3
Manchester	-	861	105.9	-	98.9	113.3
Liverpool	-	1,114	99.9	-	94.1	106.0
Knowsley	-	389	97.9	-	88.3	108.3
Newcastle upon Tyne	-	634	96.3	-	88.9	104.2
Middlesbrough	-	315	90.2	-	80.5	100.9
Hartlepool	-	243	89.7		78.7	101.8
Sunderland	-	717	89.2	 	82.7	96.0
Gateshead	-	522	87.8	-	80.4	95.7
South Tyneside	-	398	87.2	-	78.8	96.2
Halton	-	289	85.5		75.8	96.1
Tameside	-	503	85.4	-	78.1	93.3
North Tyneside	-	517	84.2		77.1	91.8
Oldham	-	473	83.7	 	76.3	91.7
Stoke-on-Trent	-	535	82.0	⊢	75.2	89.3
Salford	-	456	81.6	-	74.2	89.4
Doncaster	-	712	81.3	 	75.4	87.5
Rochdale	-	441	80.8		73.4	88.7
Blackpool	-	349	80.4	⊢	72.2	89.3
Redcar and Cleveland	-	355	79.5	<u> </u>	71.5	88.3
Blackburn with Darwen	-	262	79.1	├	69.7	89.4
Nottingham	-	472	79.0	—	72.0	86.6
Wigan	-	692	76.2	<u> </u>	70.6	82.2
County Durham	_	1 210	76.0		71.8	80.5







2018 - Joint Strategic Needs Assessment Summary Hull February 2018

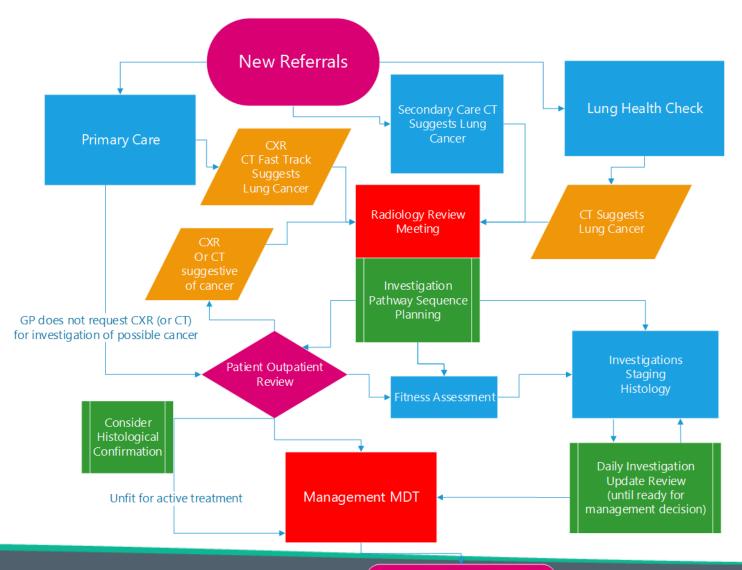


Faster and more efficient Lung Cancer Pathway

- Emulate the RAPID pathway demonstrated by South Manchester
 - Resource
 - Team behaviours
- Triage of 2ww and MDT to MDT referrals
- Radiology are key to success
 - GP CXR requests: radiographer asks cancer referral questionnaire... if cancer triggered hot reporting then to CT direct.
 - On site PETCT

HUTH Lung Cancer Investigation Pathway





Unfinished business



 Burden of LHC on top of existing work varies with cycle of LHC, particularly related to quantity of scans

RAPID Pathway

- Variation in Respiratory Med resource...phased working away, not really compatible with frenzied acute care.
- Investigation bundles
- Streamlining MDT
- More resource required
 - Radiology
 - Oncology
 - Thoracic Surgery
 - Chest Medicine, less fragmentation...juggling too many balls

COVID Disruption



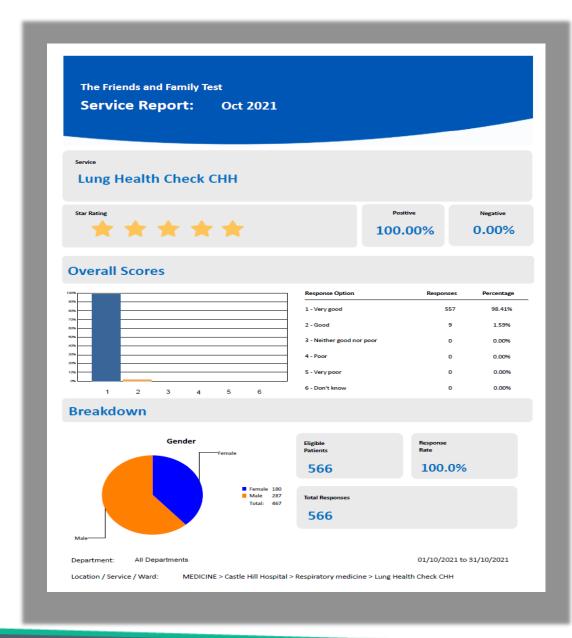
Helped

- Disruption helped with change in behaviours
- Remote working and not sticking with clinic time frame...test result back, act on it
- Referral triage to ensure likely cancer goes (a) to fully supported cancer clinics and (b) a CT is available at first appointment for likely lung cancer.

Hindered

- Increase delays across the investigation pathway with potential for symptoms and fitness prone to change over time, so further face to face review necessary before treatment MDT..
- Redeployment: Paused from beginning of first wave April 2020 to April 2021
- **Primary care working**: large drop off in referrals, then altered members of team reviewing and making referrals, less able to make alternative diagnosis such as COPD. Still numbers of referrals without CXR.
 - **CXR:** Much debate in utility of CXR in excluding lung cancer...but remains important tool in *investigating unexplained respiratory symptoms* which is how most of the cancer patient's journey starts...if cancer suspected as most likely cause of course a CXR with 80% positive is insufficient. So, important to deploy a CXR if not sure about cancer or other respiratory pathology. In Hull the use of CXR ~halved mirroring the decline in referrals.
 - Now back to and slightly above normal treatment rates.

Patient Feedback: We are excellent







Absent friends

Radiology



Don't start.....before you have properly planned

- Unless/until you can protect symptomatic lung cancer pathway
 - Ensure that pathway is performing reasonably
- Remember its not just about doctors and nurses doing the screening
 - Patient navigators, trackers, CNSs, radiology; reporting, biopsies, PETCT, surgical capacity/theatre capacity
 - IT solutions for LHC nurse risk assessment, and incidentals letters....
- Big knock on for other specialisms and particularly Primary Care
 - Engagement with other tumour sites via MDTs
 - Intermediate service resource to manage incidentals;
 - Airways/COPD community team for diagnosis and management
 - Coronary artery calcification



Outcomes

- Preliminary findings
 - Pre-pandemic
 - April –July 2021

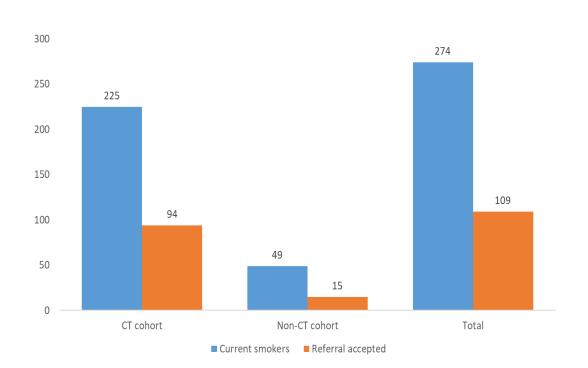


LHC April 2020 (Pre Pandemic)

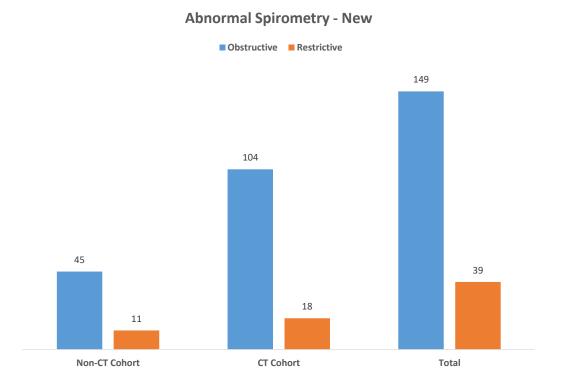
- 5 weeks
- LHC Assessment 848
- LDCT 485 (57%)
- Lung cancer 8 (1.6%)
 - 87.5% received curative treatment (Surgery/SABR)
- Non-Lung Cancer 10



32% Current smokers
40% accepted referral to smoking cessation team



22% abnormal spirometry -New79% Obstructive



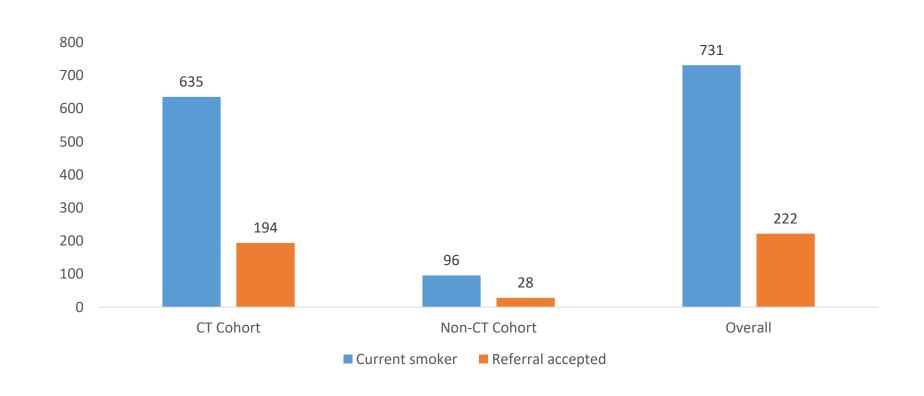


LHC April –July 2021

- LHC assessments 2283
- LDCT Triggered 1447 (63%)
 - LDCT performed 1361 (60%)
 - LDCT DNA/Declined 86 (6%)
- 9.6% Normal CT requiring no further action
- 16.5% required interval CT (majority lung nodule)
- 82% will be back for 24-month CT
- 141 (10%) required one or more of investigation/referral/clinical review

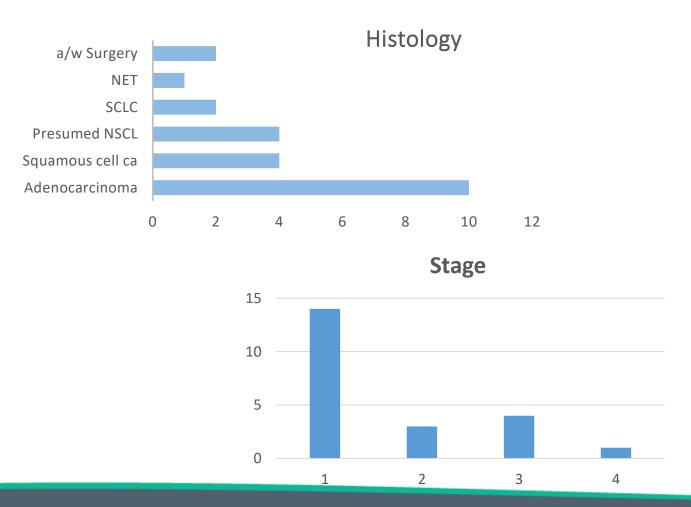


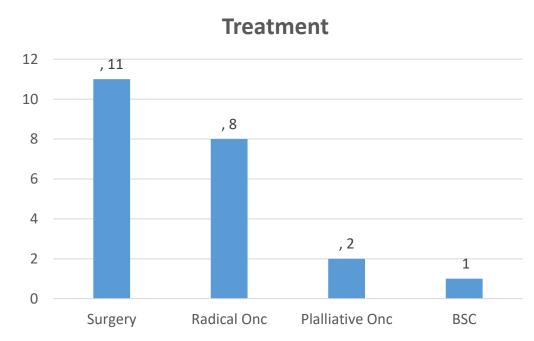
33% Current smokers 30% accepted referral to smoking cessation team





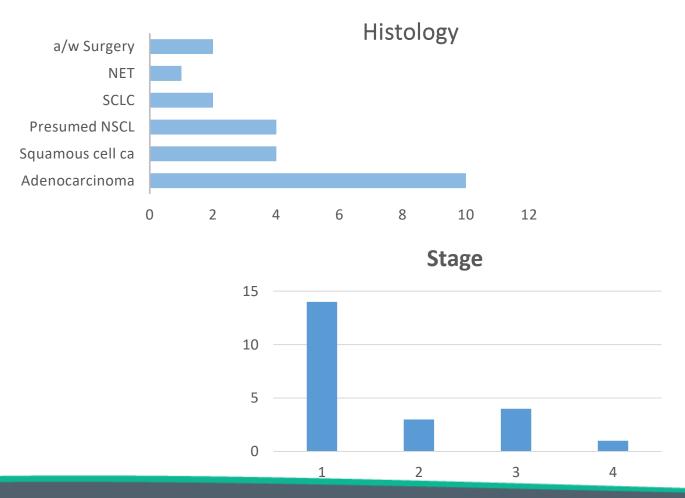
LHC April –July 2021 Lung Cancer - 23

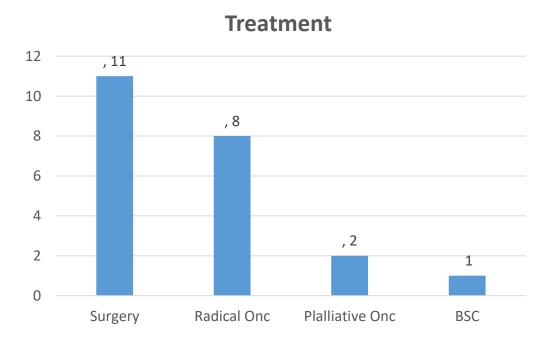






LHC April –July 2021 Lung Cancer - 23

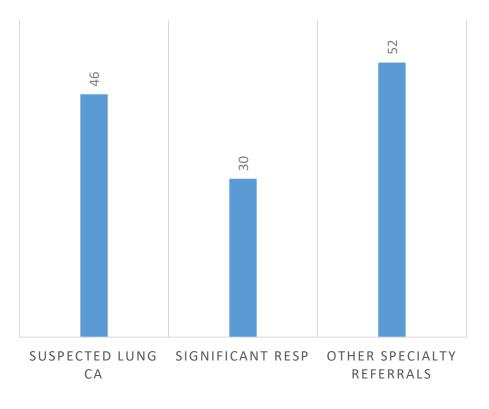




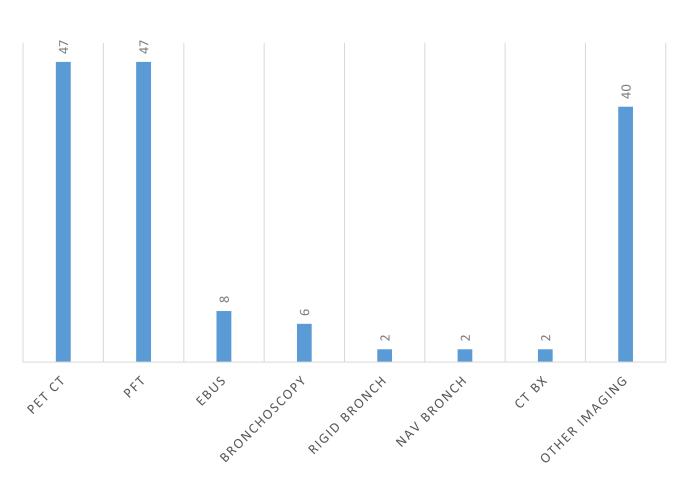
Non-Lung cancer – 1 (CLL)
Benign requiring surveillance - 9
7 probable Thymoma, 1 IPMN, 1 GIST



Referrals/LHC clinics



Investigations







	HULL 2020	HULL 2021	MANCHESTER TO	MANCHESTER T1	UKLS
Lung cancer incidence	1.6%	1.6%	1.5%	1.6%	1.7%
Stage 1		61%	-	79%	66.7%
Stage 1 or 2		74%	78%	-	85.7%
Surgery		48%	-	42%	-
SABR		13%	-	26%	-
Radical Radiotherapy		4.3%	-	5%	-
Curative Treatment	87.5%	83%	89%		



Legacy?

• What is the point of all this work in setting up a pilot and running if the work does not continue....

• Still need to make it sustainable...





Panel Q&A

Joanne Thompson

Lead Respiratory Nurse Specialist
Programme Responsible Assessor
Hull University Teaching Hospitals NHS Trust

Dr Masood Balouch

GP, NHS Hull CCG

Dr Gavin Anderson

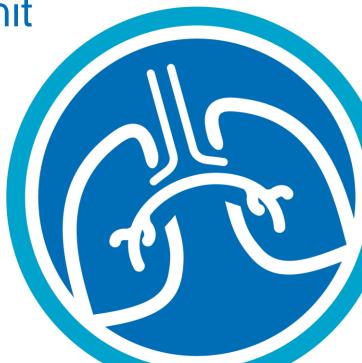
Consultant Respiratory Physician
Hull University Teaching Hospitals NHS Trust

Dr Kanwal Tariq

Consultant Respiratory Physician
Hull University Teaching Hospitals NHS Trust

Lunch

Including tours of the mobile unit









Cobalt Health

- Medical Charity
- Imaging Centre Cheltenham
- MRI Research Centre Birmingham
- Mobile CT and MRI
- Provide training and education
- Fund and participate in research
- Support local oncology and dementia services









Cobalt Health

Why lung health checks?

As a medical charity, Cobalt's objectives include:

- To introduce new imaging technology to support the NHS
- To ensure imaging services are available all regardless of location and socio economic group
- To participate in and facilitate research into early diagnosis
- To providing training and education to healthcare professionals





Lung Health Checks

Cobalt supports a number of LHC programme across the UK as follows:



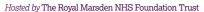
Humber Coast and Vale Cancer Alliance

Commenced in January 2020, working in partnership with the Cancer Alliance, Hull University NHS Foundation Trust

















Mobile Units







Mobile Units - CT

- Siemens Somatom go. CT
- Patient friendly
- Efficient
- Footprint
- High image quality
- Ultra-Low Dose

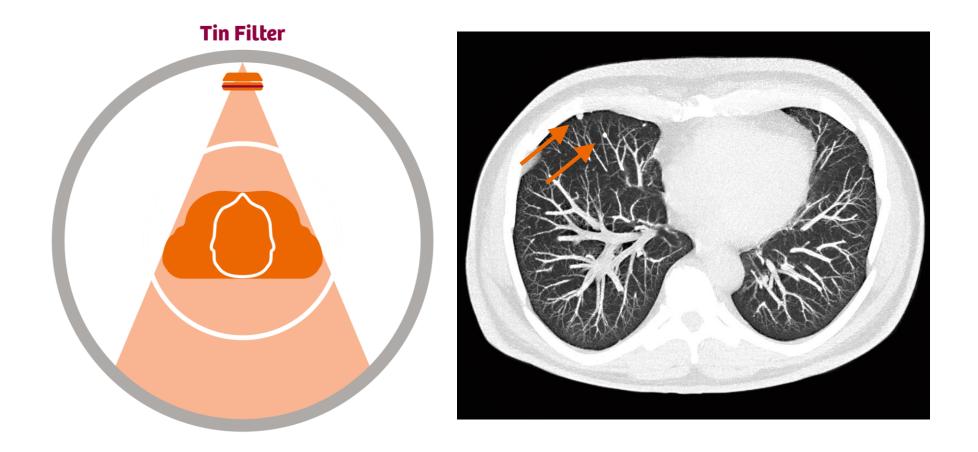








CT Scanner – Radiation dose









CT Scanner



You will be asked to hold your breath for a few seconds

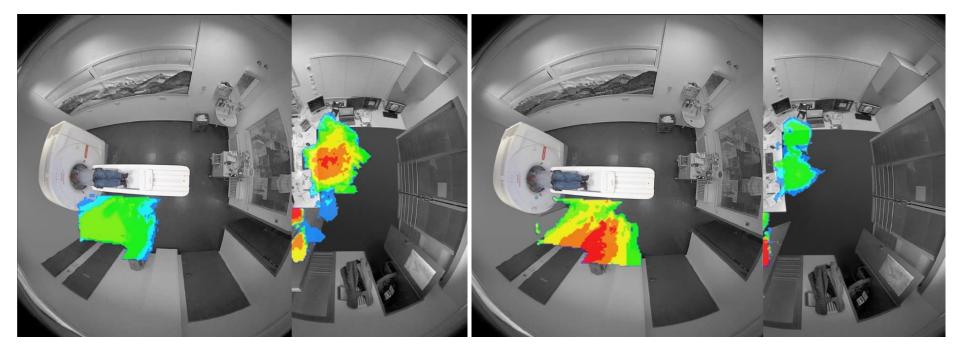






Mobile Units - Patient experience

Siemens Somatom go. CT



Standard workflow Mobile workflow







Mobile Units - Support Units





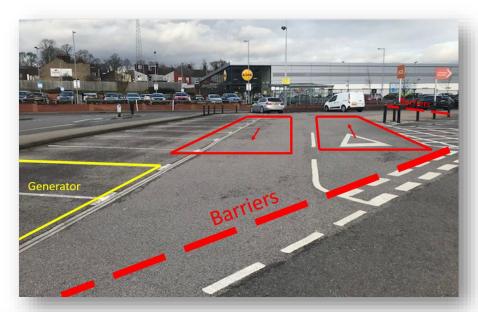




Mobile Units - Logistics

- Location
- Site planning
- Transport
- Power
- Water − Fresh and drainage







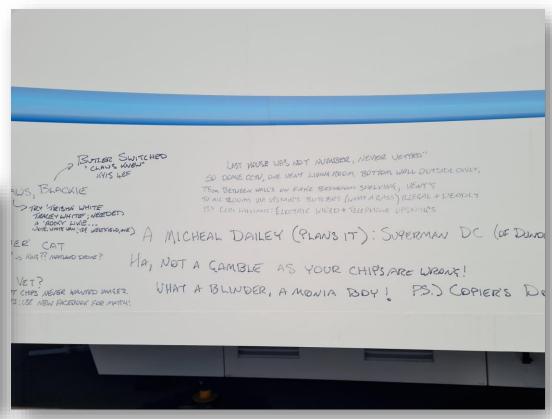




Mobile Units - Logistics

Security









IT Solution



Access to Trust IT via VPN/Wi-Fi

Scanner Sends to Mobile Gateway



Scanner has CT worklist

Access to CRIS on mobile

Mobile Gateway

CIMAR Cloud PACS

Trust PACS
Gateway

Trust PACS

Images Upload to Cloud PAC via 4G Connection





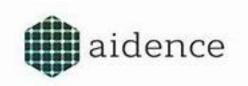
The key to success is partnerships















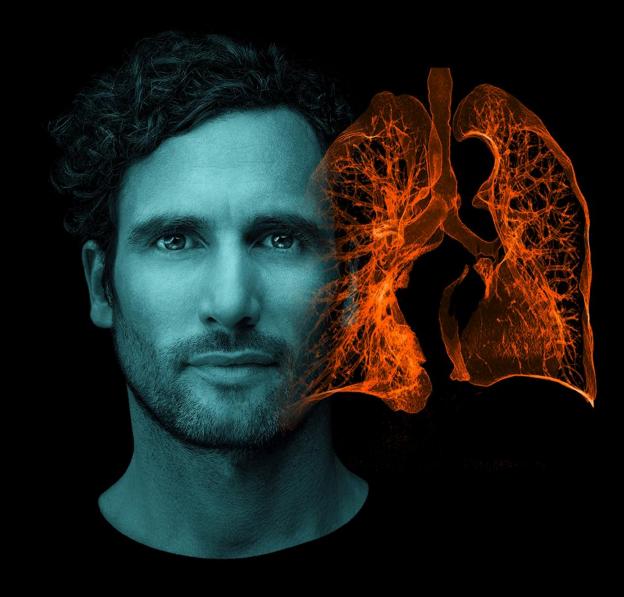


Lung Cancer

Darren Buckley – Regional Director

Hull November 2021





Impact of emerging trends in lung cancer care



Today

Lung cancer diagnosis after symptoms

Majority of patients with advanced tumors

Open surgery and lobectomy

Increasing number of lung cancer screening programs

More patients with small nodules

Early stage patients require a different mix of treatments

Trends







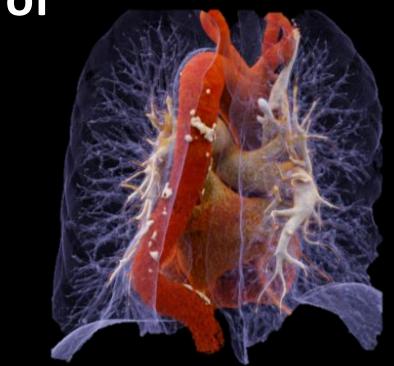
Impact of emerging trends in lung cancer care



Today **Lung cancer diagnosis Majority of patients Open surgery** after symptoms with advanced tumors and lobectomy **Increasing number of Early stage patients Trends** More patients with lung cancer screening require a different mix small nodules of treatments programs More accuracy in Low-dose **Accurate biopsy Provide treatment capabilities** Challenges diagnosis screening and availability procedures Minimally invasive **High patient** treatments throughput III

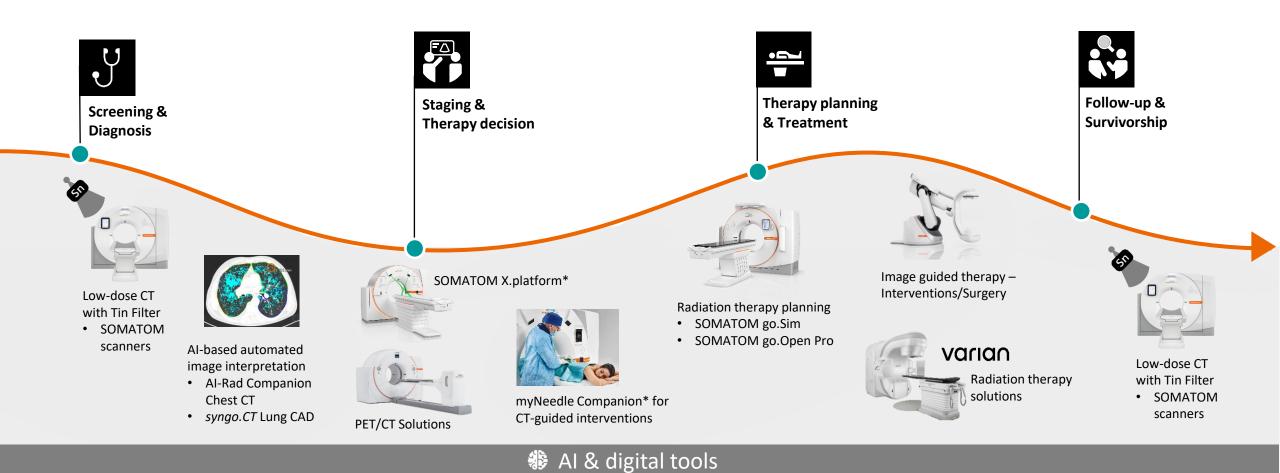


Siemens Healthineers
helps you to shape the future of
lung cancer care



We are the most relevant provider of holistic solutions along the lung cancer pathway





Portfolio for lung cancer interventions



Interventions/ablations



SOMATOM X.citeFor percutaneous biopsy and ablation



Cios SpinFor Endobronchial biopsy



Artis ceiling
For percutaneous and vascular interventions

Image-guided surgery

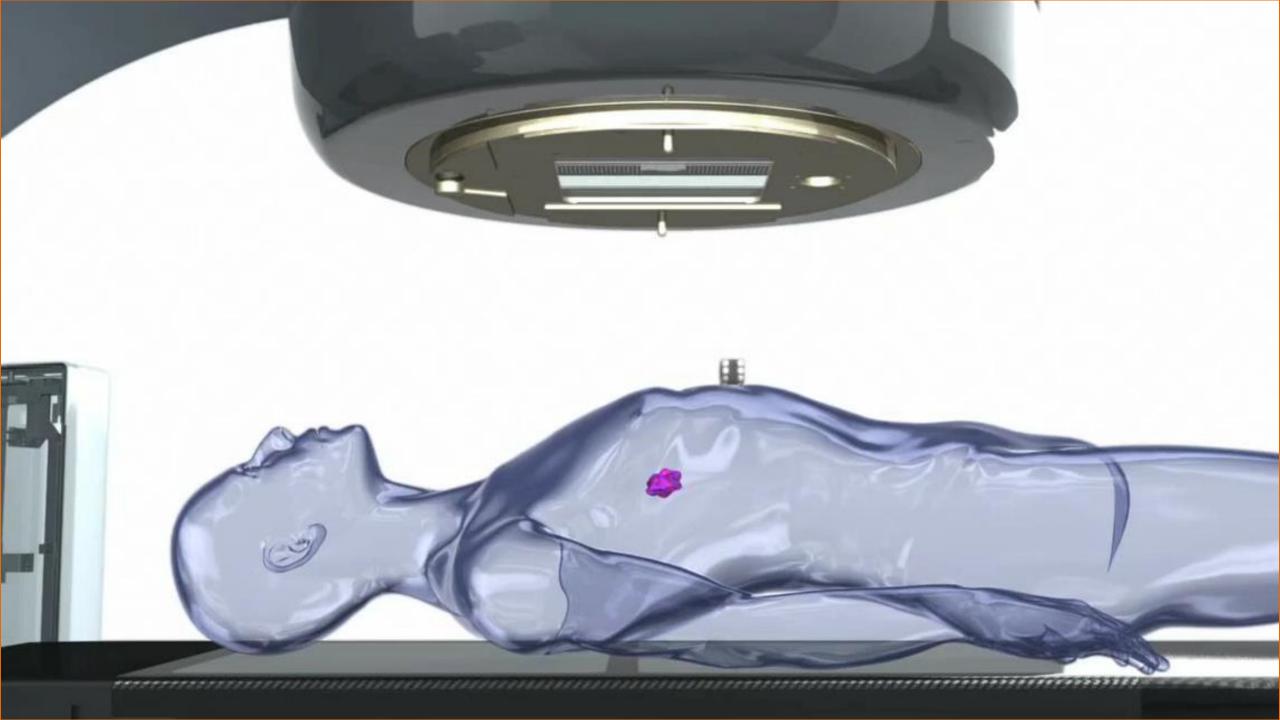


Radiation therapy



SOMATOM go. Sim
SOMATOM go. Open Pro
For radiation therapy planning





We are the partner of choice for lung cancer care **Summary**





Shift of patient population with lung cancer screening programs













- **Stage 4** Diagnostic after symptoms
- Survival rate <20% (5-years)¹
- Metastasis to other regions limiting options for therapy²



We can shape the future of lung cancer care together

- Stage 1-2 Detection by screening
- Survival rate of **70-90%** (5-years)^{1,3}
- **Less patient complications** due to options for minimally invasive and early stage systemic therapies⁴

^{1.}https://www.cancer.org/cancer/lung-cancer/detection-diagnosis-staging/survival-rates.html

^{2.}https://www.cancercenter.com/cancer-types/lung-cancer/stages/stage-iv-lung-cancer

^{3.} Knight, S.B. et al. Progress and prospects of early detection in lung cancer. Open Biol. 2017 Sep; 7(9): 170070. doi: 10.1098/rsob.170070

Thank you



.....

Darren Buckley
Regional Director
Siemens Healthineers
Darren.buckley@siemens-Healthineers.com
Mobile 07808 826769

.....



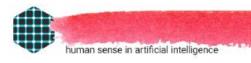


Jack Dann UK Business Manager







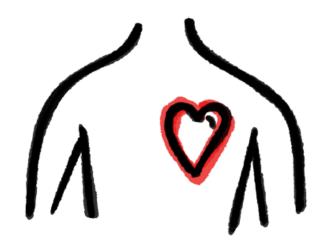


About Aidence

- Established Nov 2015
- Based in the Netherlands and UK
- Diverse and international team of 60+ people
- Deployed across 50+ hospitals in Europe
- Multi-year NHS contract for adoption of Al
- Partner for Lung Cancer Screening programs in UK/EU
- Industry renowned QA/RA
- Award winning technology (Kaggle/Google)







We provide intelligent software that **empowers** healthcare and pharmaceutical **professionals** to deliver faster, more precise diagnostics and treatments.

Our Mission



Veye Lung Nodules

Pulmonary Nodule Management

Fully automatic nodule analysis:

- Detection (3mm-30mm)
- Classification of composition (solid vs sub-solid)
- Quantification (diameters, volume)
- Growth (percentage and VDT)
- Custom settings: operating point and size filters

Scalable & Accessible AI:

- Direct PACS integration
- Anyone, Anytime, Anywhere

User-centric design

Input from leading radiology depts throughout UK & EU





Veye Reporting

Interactive report based on NHSE TLHC template:

Faster reporting:

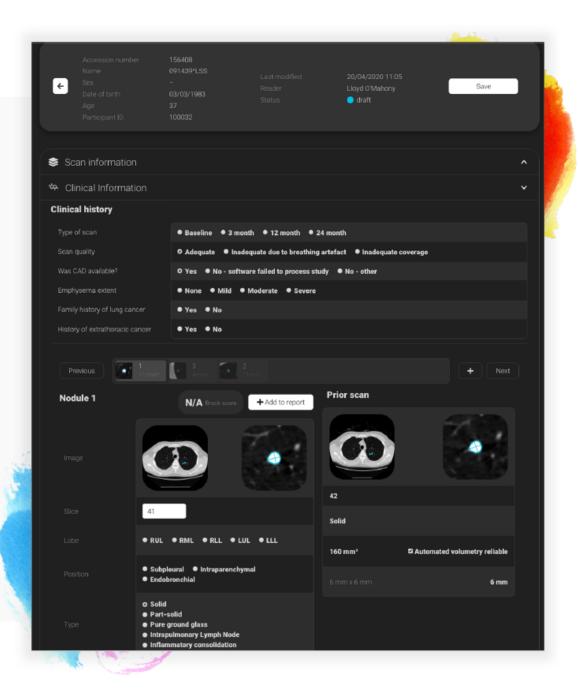
- Prepopulated with results from Veye Lung Nodules
- Automatic VDT & Brock score calculations

Control your report:

- Choose which nodules to include/exclude in your report
- NHSE QA incidental findings & free text

Easily share & review reports:

- PDF of your final report sent to PACS automatically
- Paste text report directly into RIS
- Exportable Excel file of all reports for QA & auditing





Aidence & the UK

User Community:

- 15 TLHC's Programme's Live
- Growing Customer base for Routine care

UK timeline:

- 2018: clinical validation study at NHS Lothian & QMRI
- 2020: NHSX/AAC "AI Award" funding to generate addedvalue evidence in NHS Trusts
- 2021: 20+ NHS Trust customers





The Aidence & Hull TLHC Programme Journey

How have we succeded?

A strong collaborative approach, listening to our customers has been crucial to our joint success.

Why have we had such success

- Veye Reporting A product built specifically for the NHSE TLHC Programme's with Hull. Now used across 15 TLHC Programmes.
- Seamless Integration into the existing workflow
- A quick, simple and efficient Implementation process
- The relationship between our teams





Visit to Hull's mobile CT



The Aidence & Hull TLHC Programme Journey

What does Success look like?

For the Care Providers

- Automated Workflow increases efficiency
- A significant amount of time saved in reporting
- Empowering Clinicians to easily follow the screening Protocols
- Continued ability to allow remote working for clinicians
- Supports the required QA Process

For the Population

Increasing the detection of early stage lung cancers



TLHC Programme's & Aidence - What's next?

Continue to empower our partners to enhance the TLHC Programme Workflow

- Listen to our customers feedback what is working, what isn't working
- Keep using our own experiences to see what we can do better

Work with our partners on new and innovative ways to improve on what we offer

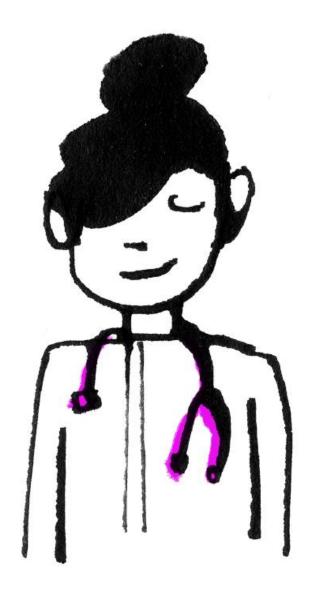
• We developed Veye Reporting with Hull in 2012 – What new requirements may be in the horizon

Bring multiple new TLHC Programmes on the journey with us in 2022

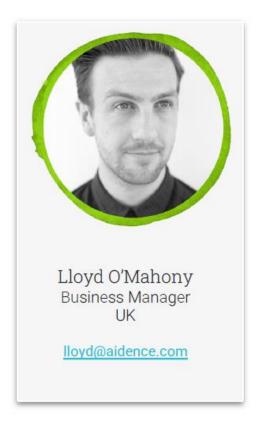
 We're hoping to not only continue on our journey with our existing TLHC sites, but to begin on our journey with many more in 2022.

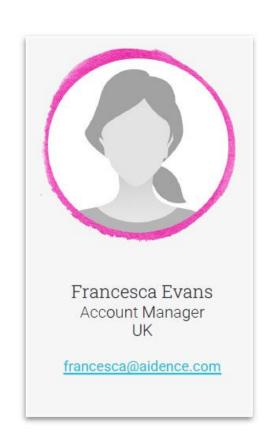


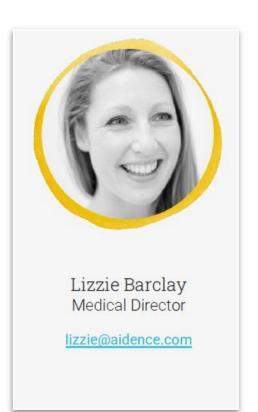
AI - Not just a 'Buzz Word'

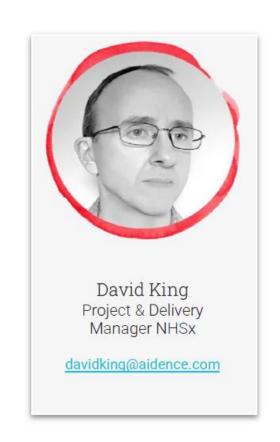


Aidence's UK team









Jack Dann UK Business Manager Jack@Aidence.com





Close

Dr Stuart Baugh

Programme Director Hull Lung Health Checks

Yvonne Elliott

Managing Director Humber, Coast and Vale Cancer Alliance



Thank You

