QI in Lung Cancer

David Lodge 19th December 2018



CHANGE

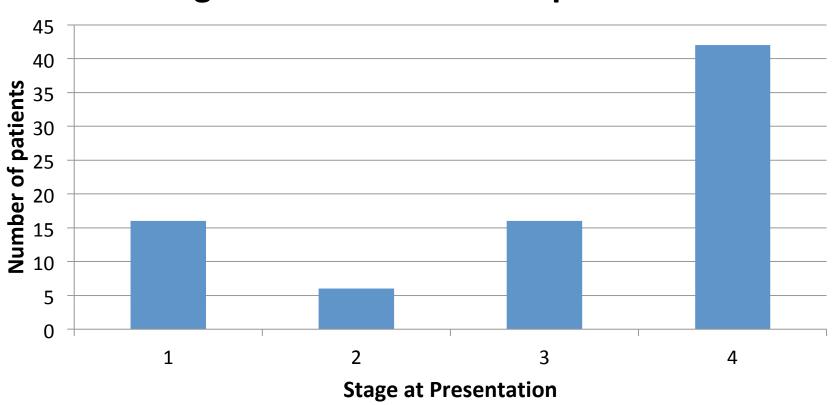
DATA

QI Project Aim

To reduce the time from referral to diagnosis and first treatment, for patients with suspected lung cancer referred to Portsmouth Hospital

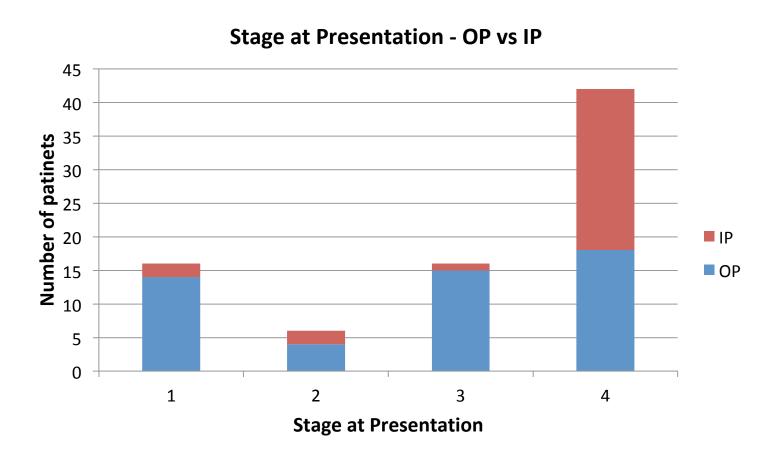
Baseline Data

Stage at Presentation - all patients



April/May 2018

36% patients presented as inpatients



Project Plan

Interview staff (engage stakeholders)

Identify things that could be better

Try to make those things better

Hope that it improves the data

Stakeholders

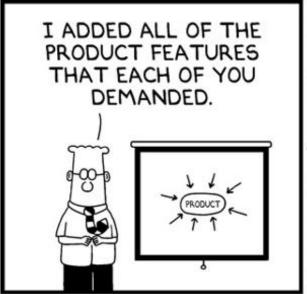
Stakeholders: Lung Cancer Pathway

Department				Job title
Respiratory	Consultants	Lesley	Bishop	Consultant Respiratory Physician; Divisional Director, Medicine and Urgent Care
		Clare	Bradley	Consultant Respiratory Physician
		Walid	Ibrahim	Consultant Respiratory Physician
		Robin	Clark	Consultant Respiratory Physician
		Anna	Lithgow	Consultant Respiratory Physician
		Ben	Green	Consultant Respiratory Physician
		Mark	Roland	Consultant Respiratory Physician
	LCNS	Alena	Clemo	Lung Cancer Specialist Nurse
		Kate	Bentley	Lung Cancer Specialist Nurse
		Denise	Wright	Lung Cancer Specialist Nurse
		Ann	Moylan	Lung Cancer Specialist Nurse
	MDT	Heather	De Ste Croix	Lung MDT Co-ordinator
	Office	Karen	Nutkins	Lead Admin Assistant, Respiratory front office
		Kirsty	Mcguire	Respiratory Secretary
	Other	Nuala	Whitehead	Lead Respiratory Nurse
	SpR	Emily	Harvey	Respiratory Registrar
		Mark	Watson	Respiratory Registrar
Oncology	Consultants	Tim	Gulliford	Consultant Oncologist
Uncology	Consultants		Bloomfield	Consultant Oricologist Consultant Clinical Oncologist
		Danny Ram	bioomileid	Consultant Clinical Oncologist Consultant Medical Oncologist
		Suhail	Baluch	Consultant Medical Oncologist Consultant Clinical Oncologist
		Suriali	baluch	Consultant Clinical Oricologist
Pathology	Consultants	Donall	Tansey	Consultant Histopathologist
•		Chris	Moffatt	Consultant Histopathologist
		Andras	Nagy	Consultant Histopathologist
	Manager	Julie	Conway	Interim Care Group Manager, Clinical Support Services
	Lab	Scott	Elliott	Biomedical Scientist Specialist
		Gabriel	Francis	Advance Biomedical Scientist
		Iolia	Akaev	Biomedical Scientist
Management		Dawn	Holland	Head of Cancer Services
		Paula	Taylor	Operational Manager, Respiratory Oncology
		Lewis	Wilkinson	Medicine Business Manager
		Constantinos	Yiangou	Associate Medical Director, Surgery and Cancer
na diala as	Cb	Devile	McParland	Considerat Budlalania
Radiology	Consultants	Paula		Consultant Radiologist
		Adam	Wallis	Consultant Radiologist
		Simon	Ward	Consultant Radiologist; Deputy Medical Director
	Managers	Nicky	Wragg	CT and MRI Superintendent
		Janine	Hatch	Imaging Services Manager
Surgeons		Edwin	Woo	Consultant Thoracic Surgeon
angeons.		Martin	Chamberlain	Consultant Thoracic Surgeon
		and the	Chamberidill	consultant moracle surgeon

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TEAM-WORK!

Driver Diagram

Primary Driver	Secondary Driver	Change Ideas						
		Standardised EPRO letter layout						
	Capture all information at the first appointment	Proforma for clinics						
Clinics		MDT database (updated as results come through)						
Cinnes								
	Ensure the right investigations are requested first time	'Reference' diagnostic pathway						
	•	Pre-clinic diagnostic MDT?						

Driver Diagram

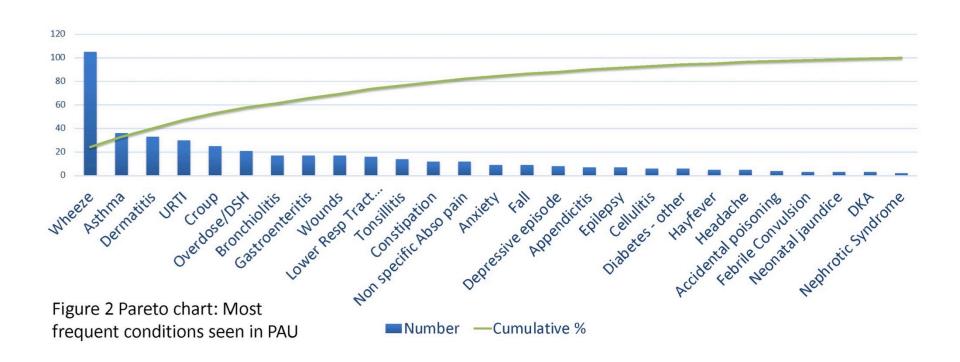
Ideas for solutions

Subject

Area to address

Subject	Area to address	ideas for solutions
Pathway		
Clinics	Capture all information at the first appointment	Standardised EPRO letter layout
		Proforma for clinics
		MDT database (updated as results come through)
	Ensure the right investigations are requested first time	'keference' diagnostic pathway
		Pre-clinic diagnostic MDT?
Communication	Flag all procedures on the Day Ward to the MDT Co-ordinator	Day Ward to keep record of patients for MDT
		Additional box on Procedure Checklist
	Send all investigation results to clinicians/Heather	Reflex' highlighting of results; 'tracking' screen?
	- Imaging	
	- pathology	
	- molecular markers	
	Highlight SCLC patients to the MDT	Email alert (automated?) from pathologists to MDT (like Oxford)
	Reduce PET delays	
	- time to scan	
	- delays in scan images/report being imported to PACS	
	Clear information for inpatient referrals	MDT referral tab on Bedview
-		
Pathway	Ensure SSA policy doesn't delay patient care	Discuss options with Deputy Chief Nurse
raulWdy	Ensure investigations are booked urgently and results chased appropriately ('Pathway manager'?)	
	Ensure investigations are appropriately prioritised	Recruit additional admin support
		Special folder for use in cancer clinics
	Arrange PET and CTB on the same day	Pre-stamping request forms with CWT stickers?
	Ensure EBUS is performed after PET	Pre-diagnostic MDT?
	Ensure PFTs performed on all appropriate patients, before MDT	Pre-diagnostic MDT?
	Ensure 1113 performed on an appropriate patients, before into	Pathway guide for clinics (esp for SpRs)
	National in author and the of males that made as	Pre-clinic diagnostic MDT (with radiology?) - emphasis on curative intent
	Delays in getting results of molecular markers	Review current data; move services from Birmingham to Oxford/in-house?
Referrals	Electronic referrals	Review eReferral system to ensure 2WW patients are prioritised
	Straight to CT	Review referrals
		Low threshold for CT
		Pre-warn patients
	Emergency admissions avoidance	Urgent next-day review of cases in Ambulatory Care
Surgery	Improve fitness for surgery for 'borderline' candidates	Surgical pre-hab
	Increase number of 'borderline' patients reviewed by surgeons	Surgeons to attend whole of MDT
	Reduce delays to surgery - review by surgeons on same day as BBN?	Emergency' appointment at end of surgical clinic
•		
MDT	Venue not good for discussion	Change the venue/establish MDT room for the Trust?
	Alternative MDT forums for some discussions	Change the venue/establish MDT room for the Trust? Identify whether this is an issue
	- oncology with radiology	
	- Respiratory with radiology (pre-diagnostic MDT)	
	More efficient	Change the list layout/order
		Regular list preparation
	Access to all information necessary during MDT	Laptops
	,	- Charles
Patient Experience		
Clinics	Improve the availability of clinic rooms for LCNs during cancer clinics	
Cillics	improve the availability of clinic rooms for Ecris during cartee clinics	Book room for CNSs for every clinic
100		
LCN	CNS to spend less time doing admin	Band 4 Admin Assistant, paid for by the transformation bid
		Automatic reporting of some results for virtual clinic (workflow screen)
		Ensure Day Ward patients needing MDT discussion are highlighted
		New phone line for the CNSs
	Improve communication between Lung CNSs	
-	CNSs to do more pleural stuff (IPC drainage)	Pleural training
		reason a security
	LCNs in oncology appointments	Oncology business case
Referrals	Patient information at the point of referral to the pathway	Patient information leaflets, to be given out by GPs

Pareto Chart



Wessex Early Diagnosis Transformation Bid

- Aims
 - Identify lung cancer at an earlier stage
 - Reduce one-year mortality
 - 25% 5-year survival by 2025
 - Implement NOLCP
 - Reduce emergency presentations of lung cancer

Funding confirmed November 2018

Structure for Improvement

1. Communication

2. Improve efficiency and capacity

3. Early detection

1. Communication

- Respiratory Day Ward
- PDSA cycle



Day Ward Patients for MDT

- July 2018
 - 30% procedure reports mentioned MDT
 - 22% inpatient procedures needed MDT discussion
 - Not highlighted to MDT Co-ordinator
 - No reports for pleural procedures
- August 2018: thoracoscopy patient missed

Day Ward Patients for MDT

- September 2018
 - 90% patients had MDT yes/no documented

- October 2018
 - 95% patients had MDT yes/no documented

1. Communication

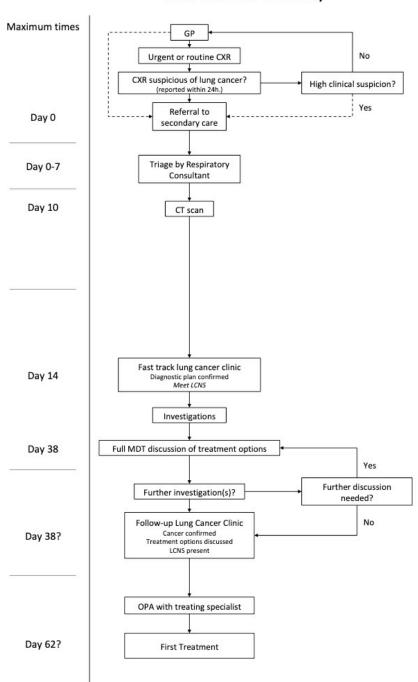
- Respiratory Day Ward
- PDSA cycle



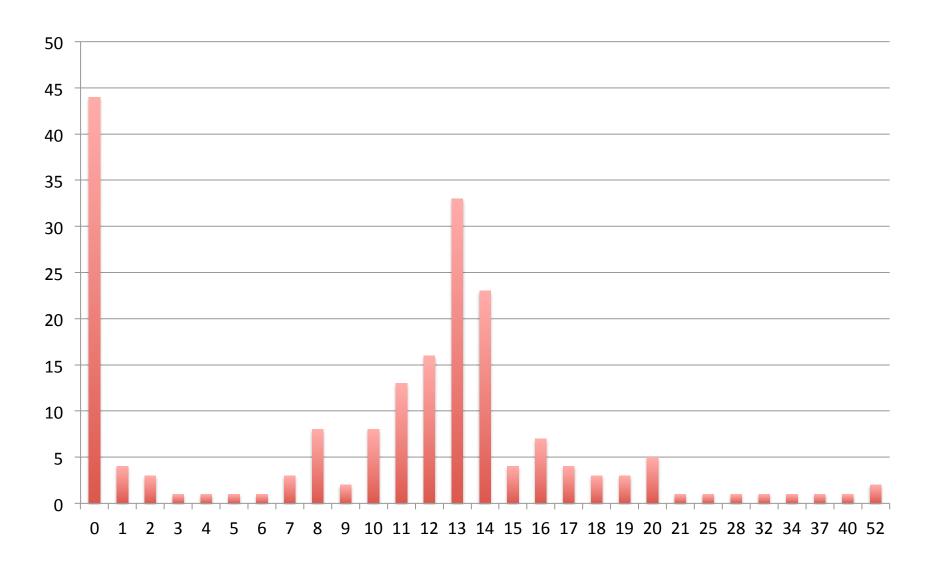
Small Cell Lung Cancer

2. Improve efficiency (and capacity)

PHT Current Pathway

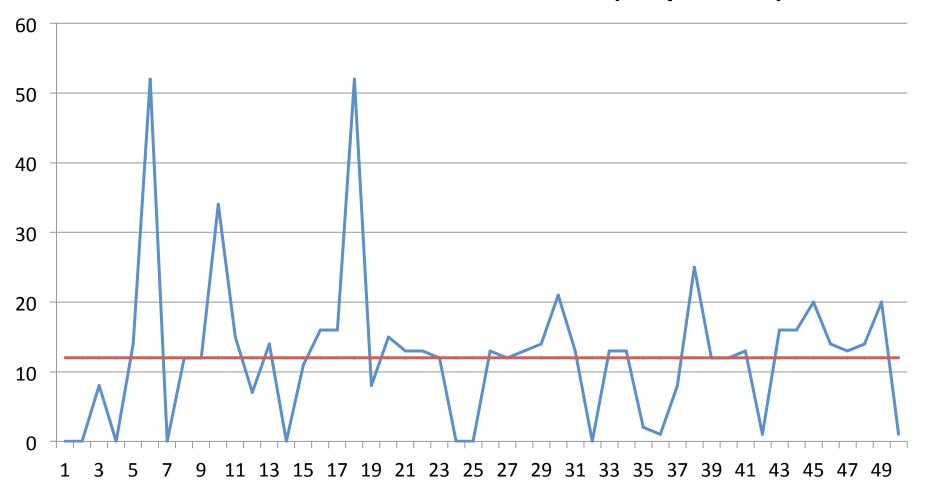


Time (days): Referral to First Seen



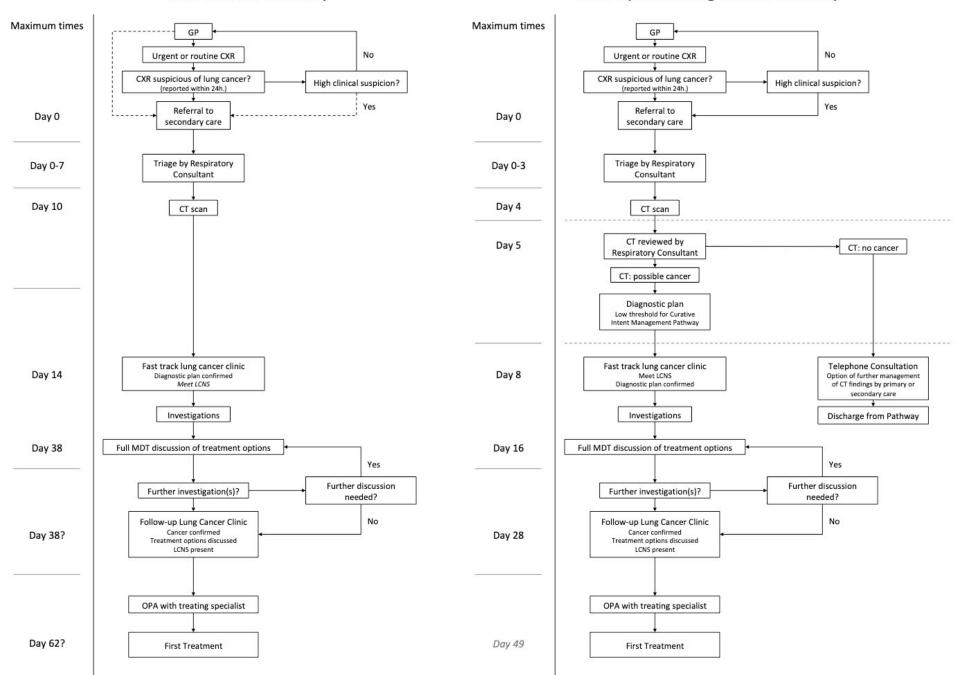
Run Chart

Time interval: referral to first seen (outpatients)



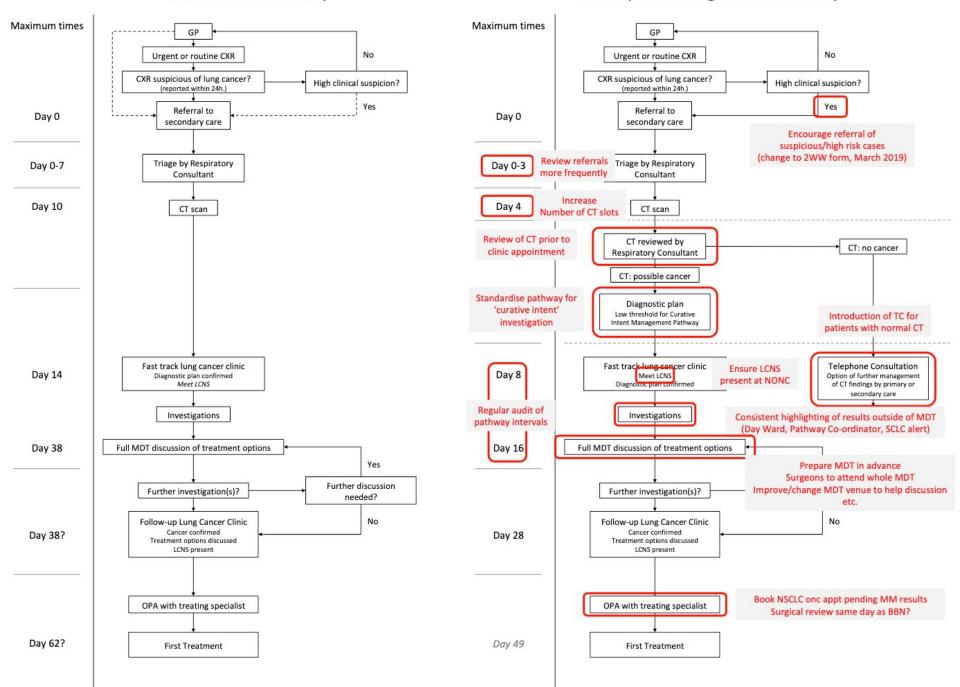
PHT Current Pathway

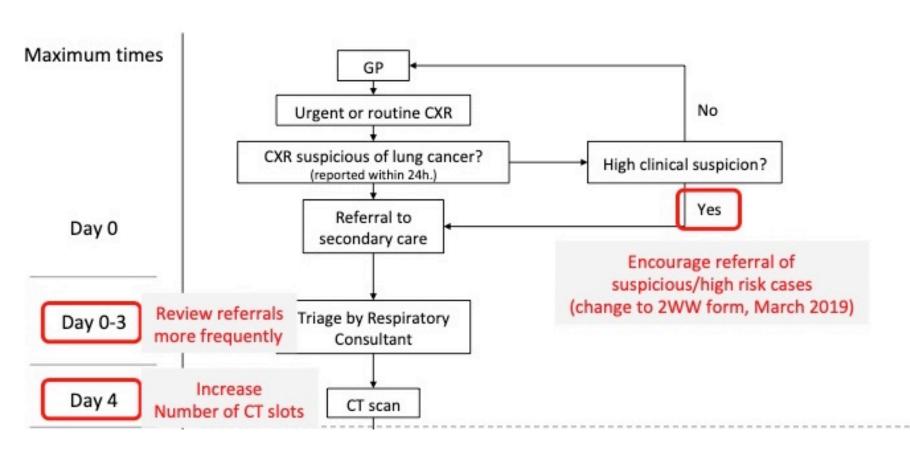
PHT Optimal Lung Cancer Pathway



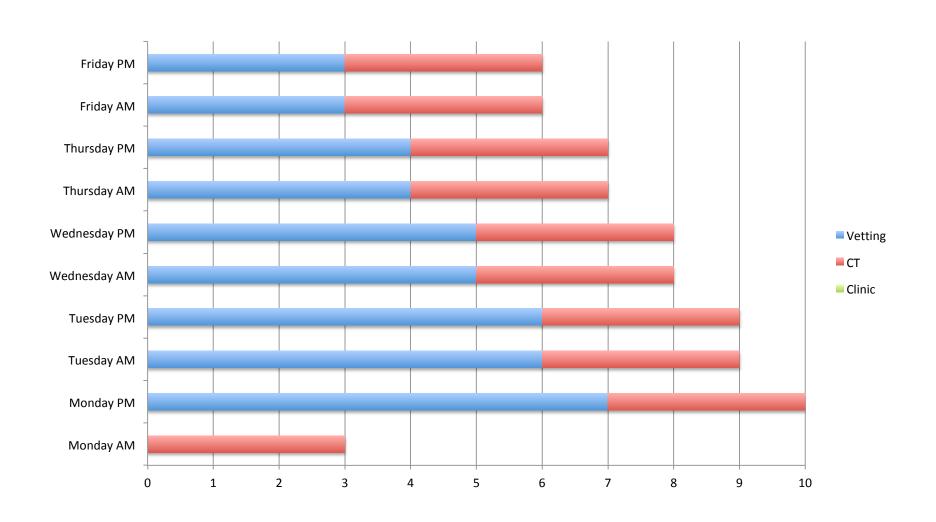
PHT Current Pathway

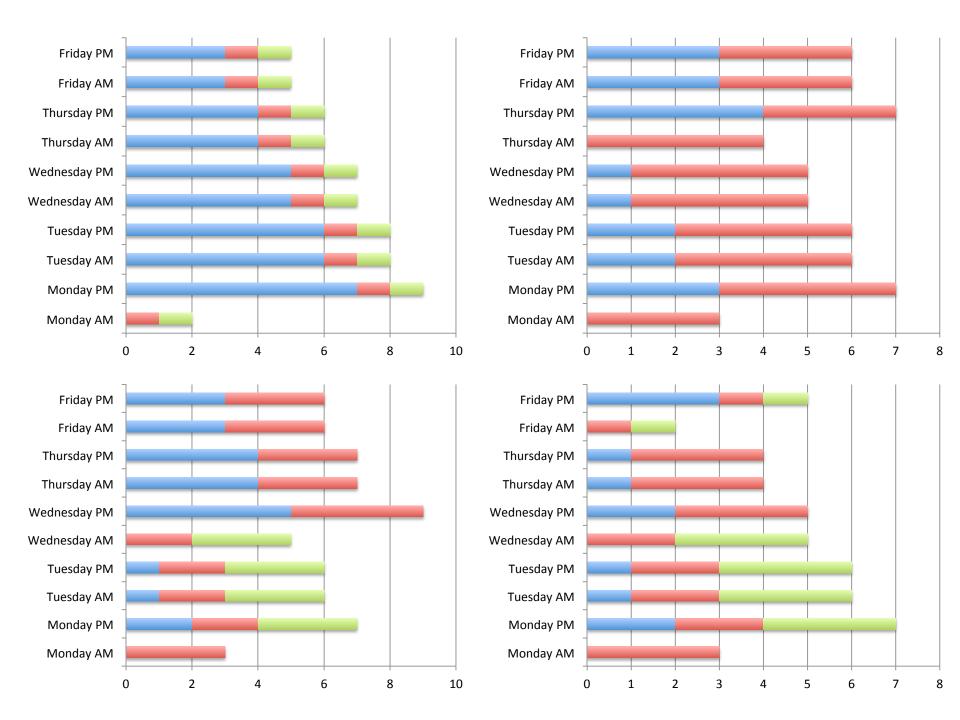
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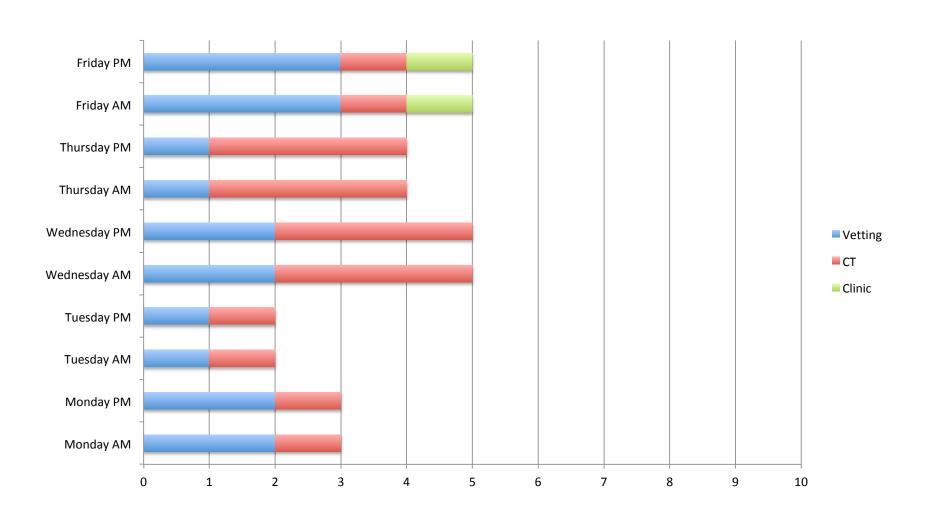


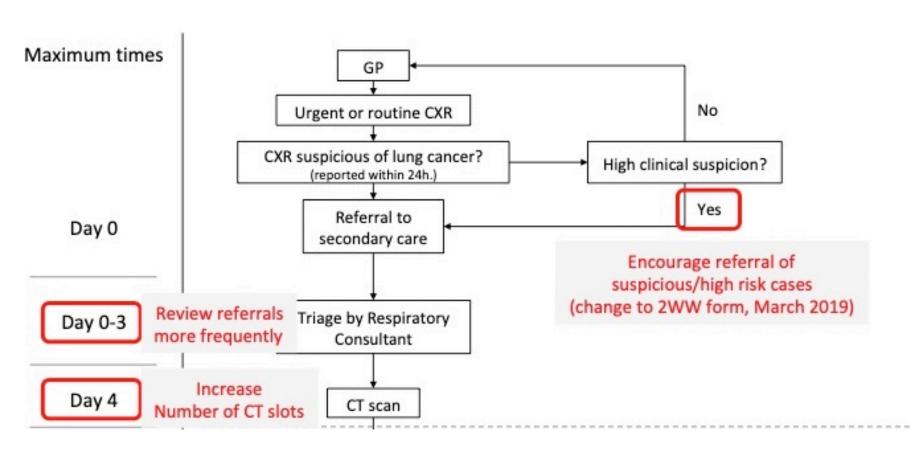
Monday PM: Average 7.3 days

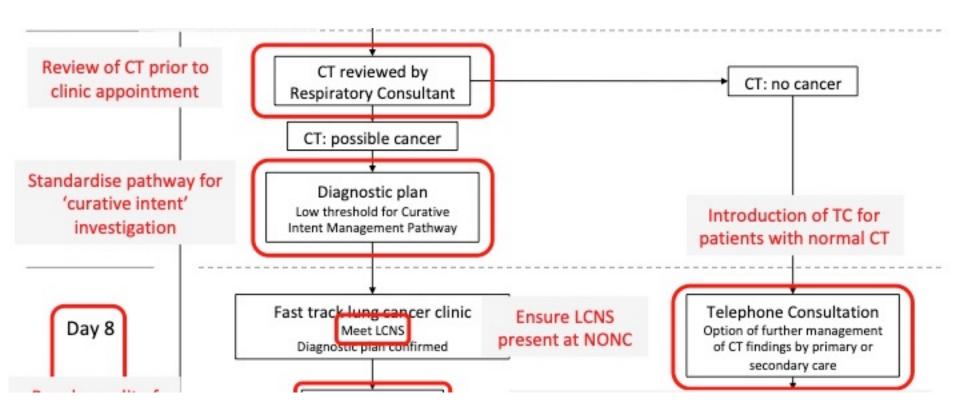


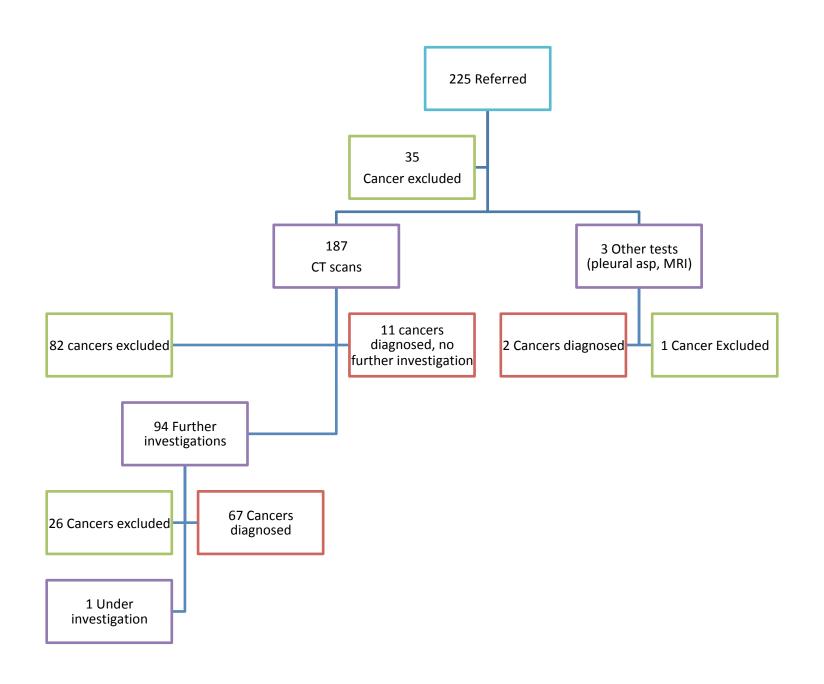


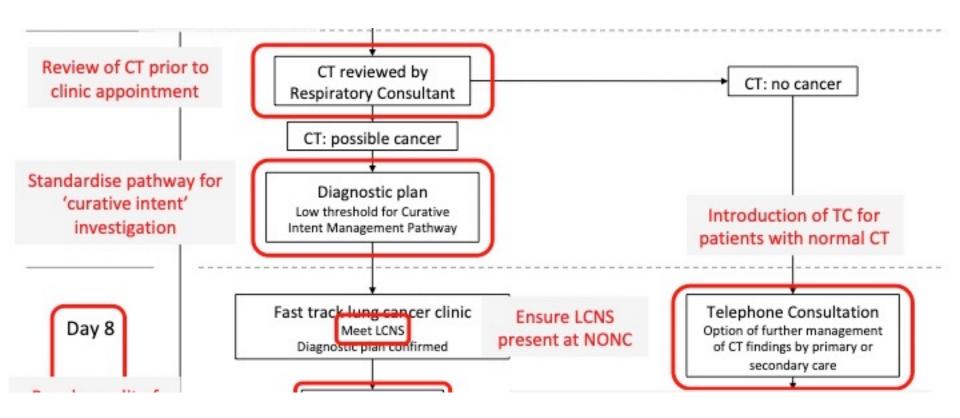
Mon/Wed/Fri AM: Average 3.8 days

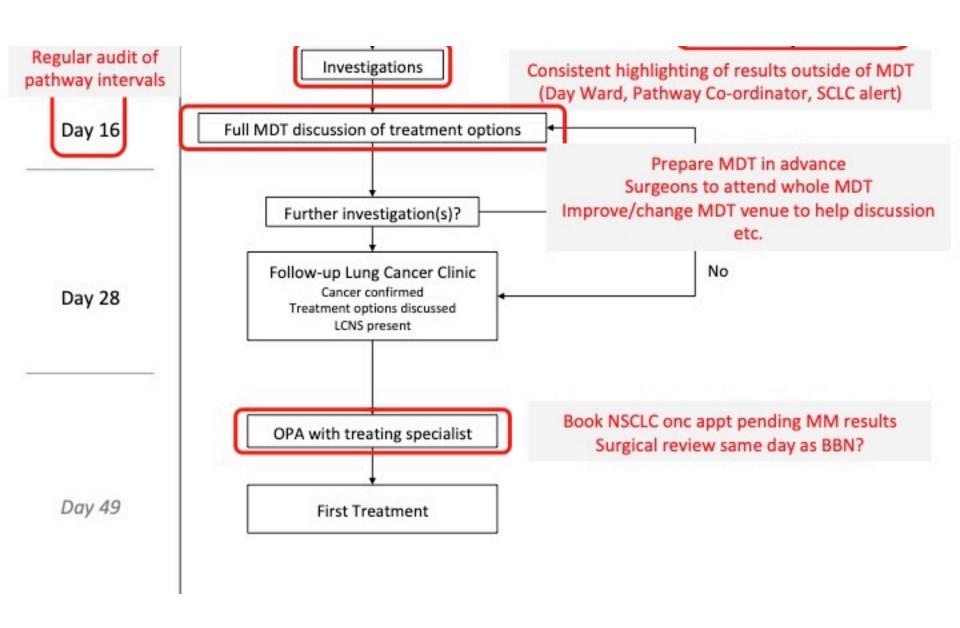












Gantt Chart

PHT Optimal Lung Cancer Pathway

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Referral received																													
Referral reviewed																													
CT scan																													
CT reported																													
CT reviewed																													
See in clinic/TC																													
Request tests																													
Biopsy																													
PET																													
Results available																													
MDT review																													
FONC																													
Further tests																													
Further results																													
Further MDT																													
Further FONC																													

3. Early Detection

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- New, standardised 2WW referral form
- GP Education
- Other community opportunities (Respiratory nurses, pharmacists)
- Identifying 'high risk' patients

What have I learnt?

- I don't want to be a researcher
- We can all identify problems
- Change can be difficult
- Relationships are key
- QI is really interesting

The proof of the pudding...



Thank you

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