

# Systemic Anti Cancer Therapy (SACT)

Lung SSCRG

Kellie Peters & Michael Wallington

National Disease Registration, CKO



## **How Good is the Data Nationally?**

SACT data completeness, August 2013 to July 2014

			England				
			Lung				
Number of patients	% NHS Number	% Date of Birth	% Current gender	% Ethnicity	% Patient postcode		
16,565	100%	100%	99%	94%	100%		
Number of tumour records	% GP Practice Code	% GMC Code	% Consultant Specialty	% Primary diagnosis	% Morphology	% Stage of disease at start of programme	
17,754	81%	91%	93%	100%	56%	52%	
Number of regimens	% Programme number	% Regimen number	% Treatment intent	% Regimen name	% Height at start of regimen	% Weight at start of regimen	% Performance Status at start of regimen
24,468	68%	62%	83%	100%	63%	64%	46%
	% Comorbidity adjustment	% Date of decision to treat	% Start date of regimen	% Clinical trial	% Chemo radiation	% Number of cycles planned	
	41%	89%	100%	73%	59%	58%	
Number of cycles	% Cycle number	% Start date of cycle	% Weight at start of cycle	% Performance Status at start of cycle	% OPCS procurement code	% of Cycles with Drug records	]
56,669	100%	95%	60%	43%	59%	84%	
Number of drug records	% Drug name	% Actual dose per administration	% Administration route	% Administration date	% OPCS Delivery code	% Organisation code of drug provider	
156,830	100%	94%	96%	100%	66%	94%	
Number of outcome records	% Date of Final Treatment	% Regimen modification (dose reduction)	% Regimen modification (time delay)	% Regimen modification (stopped early)	% Regimen outcome summary	% Date of death	
15,099 62% of regimens	27%	46%	19%	39%	8%	7%	



# How good is my data, compared to hospitals in my area team?

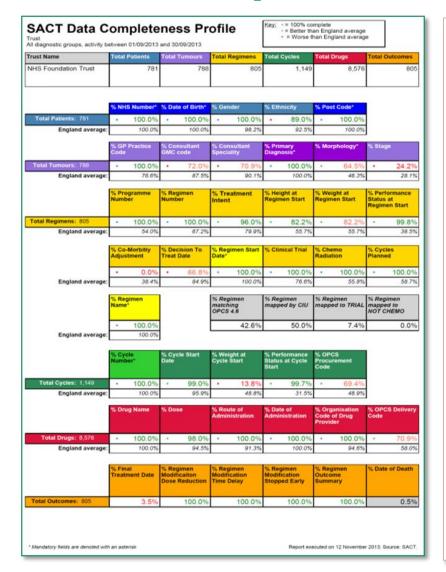
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Diagnostic Group > NHS England Area Team > Hospital Trust	Number of tumour records	Number of regimens	Number of cycles	Number of drug records	Number of outcome records	% Primary diagnosis	% Morphology	% Programme number	% Treatment intent	% Drug name	% Actual dose per administration	% Date of Final Treatment
London Commissioning Region	2,442	3,527	8,671	29,329	2,241	100%	63%	42%	68%	100%	94%	31%
Barking, Havering and Redbridge University Hospitals NHS Trust	169			2,739	191	100%	38%					
Barts Health NHS Trust	294	441	994	5,951	441	100%	59%	61%	100%	100%	98%	
Chelsea and Westminster Hospital NHS Foundation Trust	56	79	158	527	79	100%	100%	39%	100%	100%	100%	15%
Croydon Health Services NHS Trust												
Ealing Hospital NHS Trust												
Epsom and St Helier University Hospitals NHS Trust												
Great Ormond Street Hospital For Children NHS Foundation Trust												
Guy's and St Thomas' NHS Foundation Trust	461	613	1,775	9,073	613	100%	92%	22%	90%	100%	100%	100%
Homerton University Hospital NHS Foundation Trust												
mperial College Healthcare NHS Trust	279	363	834	2,708	363	100%	53%	67%	100%	100%	100%	11%
King's College Hospital NHS Foundation Trust	8	9	9			100%	0%	100%	100%			
Kingston Hospital NHS Trust												
Lewisham Healthcare NHS Trust	95	138	276	80	15	100%	17%	0%	17%	100%	100%	3%
North Middlesex University Hospital NHS Trust	85	95	232	220	46	100%	51%	48%	46%	100%	100%	26%
North West London Hospitals NHS Trust	103	117	182	357	77	100%	44%	57%	66%	100%	98%	3%
Royal Free London NHS Foundation Trust	63			1,106	47	100%	100%	100%	100%	100%	100%	30%
St George's Healthcare NHS Trust	130	195	579	1,178	163	100%	1%	99%	99%	100%	99%	64%
he Hillingdon Hospitals NHS Foundation Trust	1	1	1			100%	0%	0%	0%			
The Royal Marsden NHS Foundation Trust	519	965	2,462	4,110	12	100%	100%	10%	10%	100%	60%	0%
The Whittington Hospital NHS Trust	21	27	54			100%	0%	0%	100%			
University College London Hospitals NHS Foundation Trust	158	194	496	1,280	194	100%	0%	100%	99%	100%	99%	57%
West Middlesex University Hospital NHS Trust												

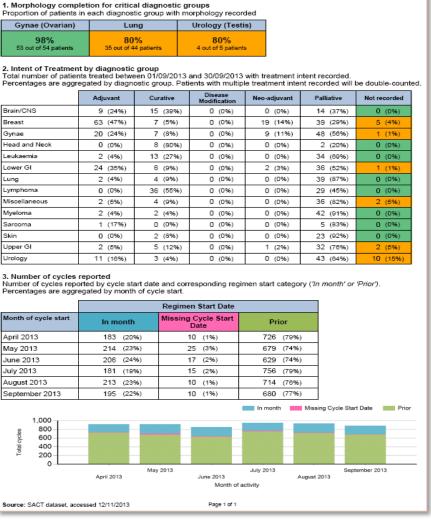


# Can I find out how complete my hospital's lung data is?

SACT Data Quality Profile

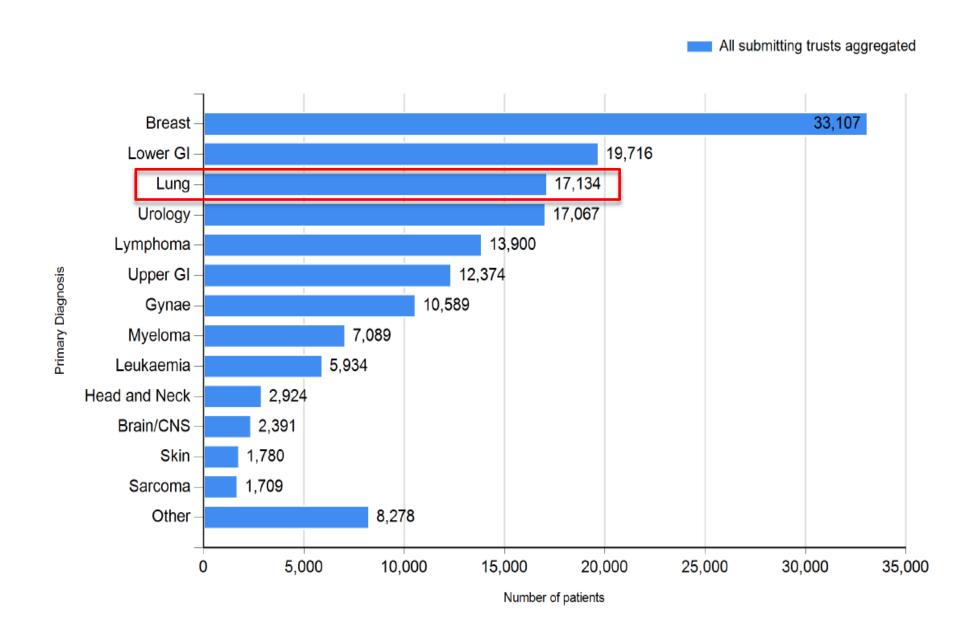
Reported activity taking place between 01/09/2013 and 30/09/2013





## Number of Patients by Diagnostic Group

All submitting trusts aggregated

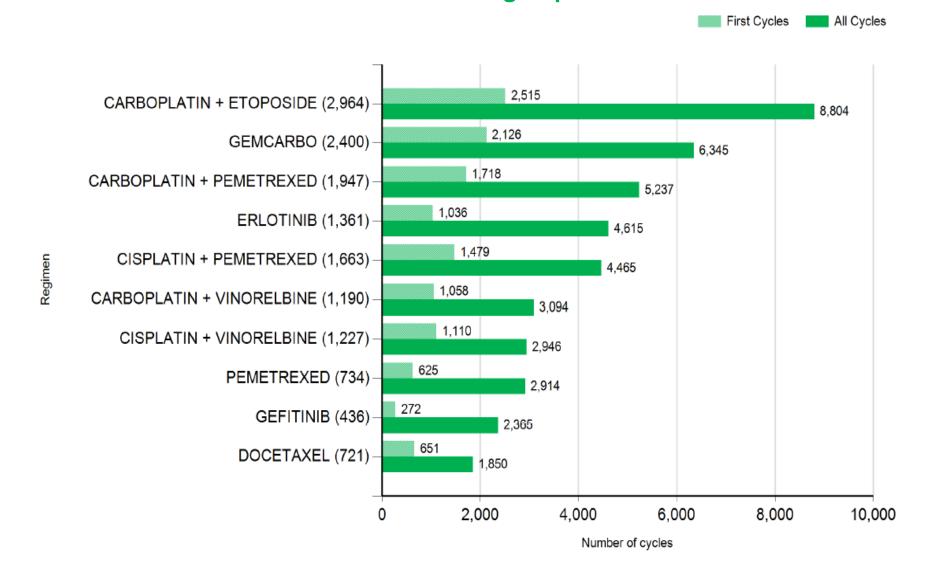


Lung (all excluding Mesothelioma)

ICD10: C33-C34, C37-C39

All submitting trusts aggregated

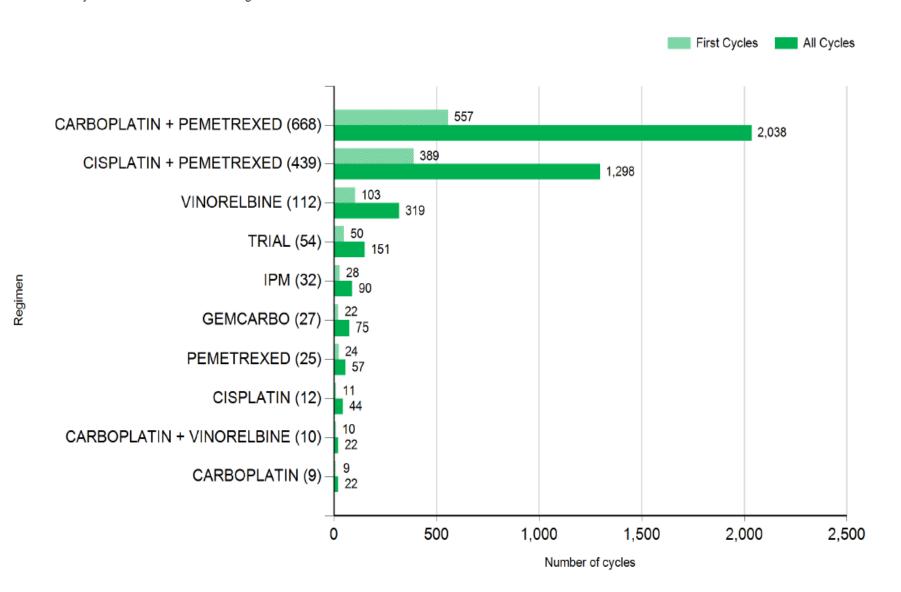
- These reports are available at a provider level
- There are in excess of 191 regimens for this disease group



Lung (Mesothelioma)

ICD10: C45; Morphology: M9050/3, M9052/0, M9052/3, M9053/3

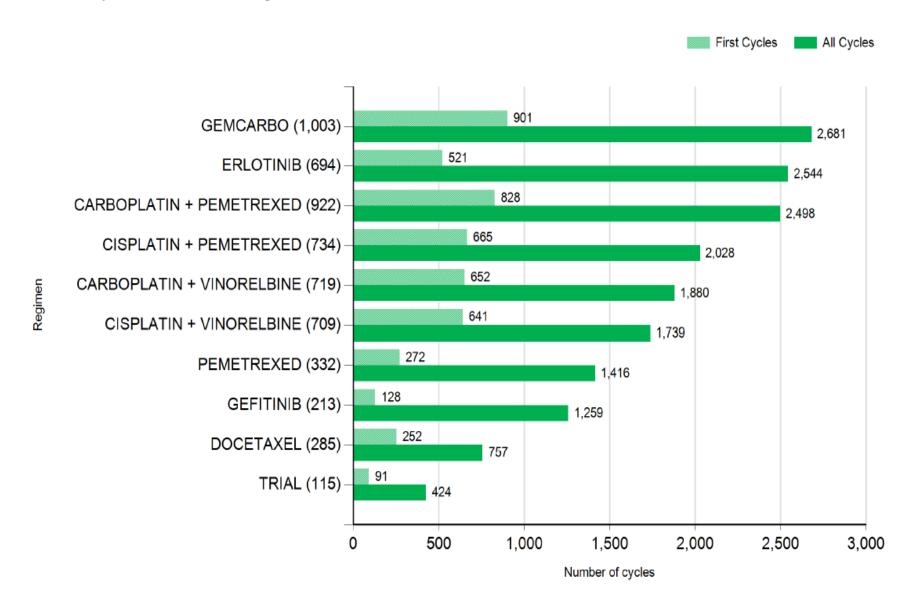
#### All submitting trusts aggregated



Lung (NSCLC)

ICD10: C33-C34, C37-C39; Morphology: M8012/3, M8013/3, M8046/3, M8070/3, M8070/6, M8075/3, M8140/3, M8140/6, M8246/3, M8250/3, M8255/3, M8310/3, M8560/3

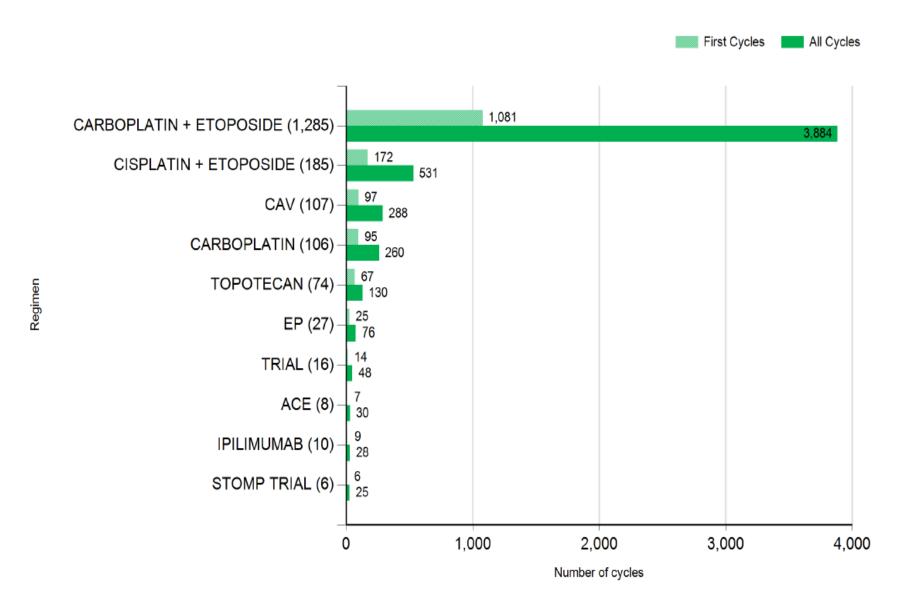
#### All submitting trusts aggregated



Lung (SCLC)

ICD10: C33-C34, C37-C39; Morphology: M8002/3, M8041/3

#### All submitting trusts aggregated

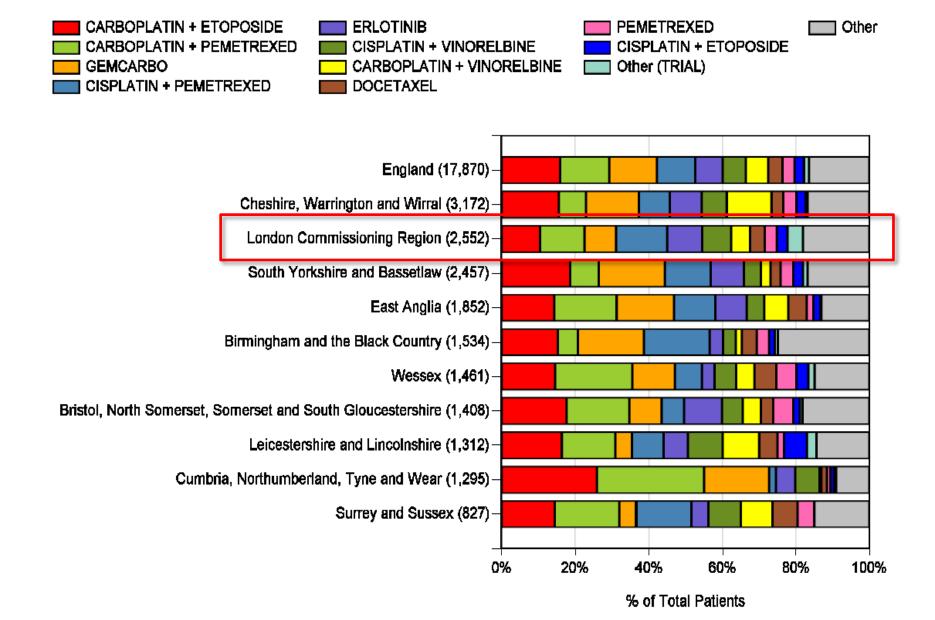


### Regimen benchmarking

Lung (All except Mesothelioma) ICD10: C33-C34, C37-C39

Data received for April 2013 - March 2014.

NHS England Area Team comparison; Includes activity from trusts where more than 50 patients aged 16 and over received treatment

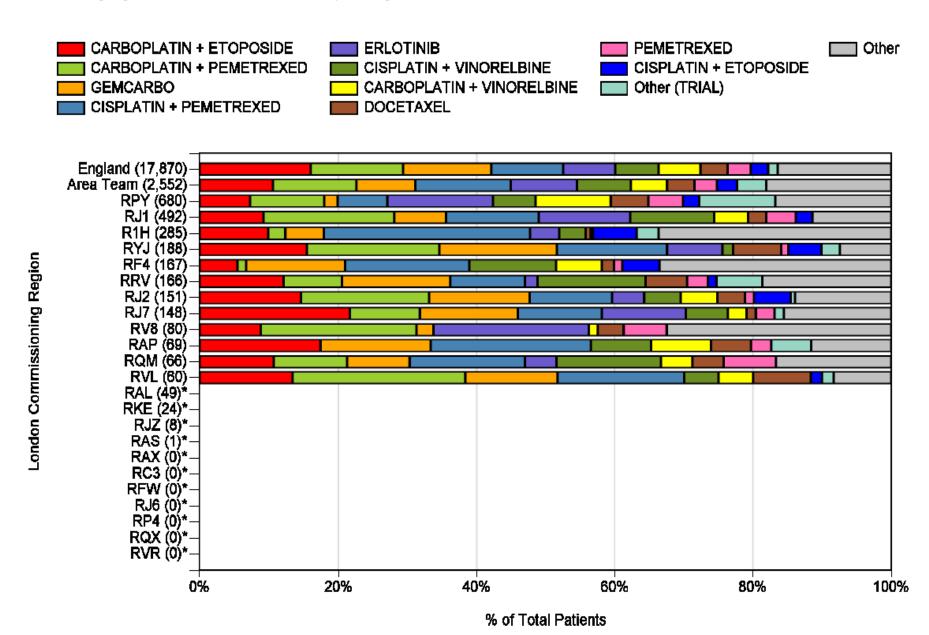


### Regimen benchmarking

Lung (All except Mesothelioma) ICD10: C33-C34, C37-C39

Data received for April 2013 - March 2014.

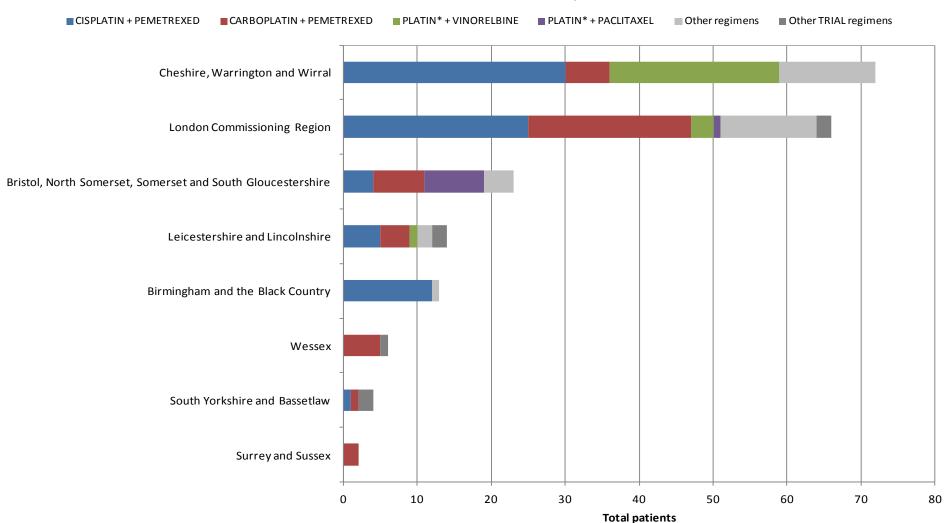
London Commissioning Region; Trusts included where more than 50 patients aged 16 and over received treatment





### What do patients with NSCLC receive prior to single agent PEMETREXED?

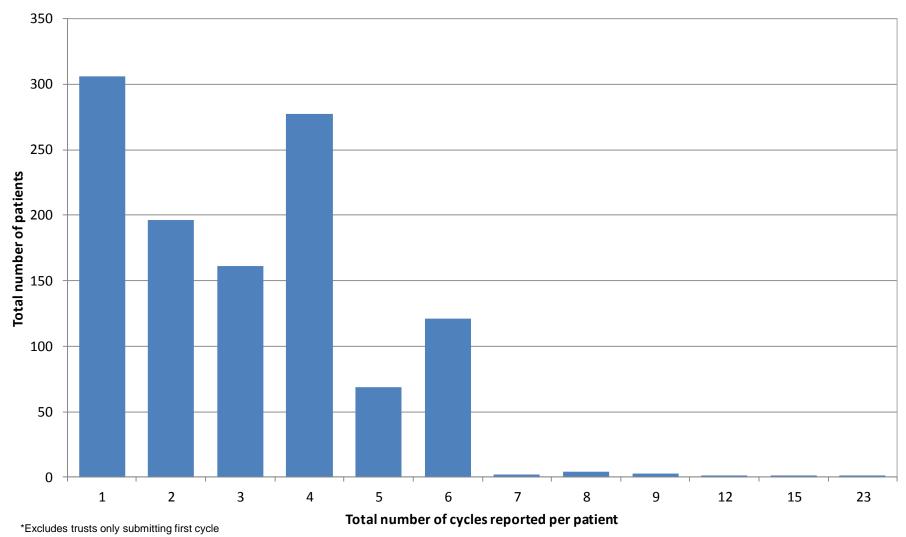
Source: SACT, accessed 27th February 2014





### Patients with NSCLC or mesothelioma receiving CISPLATIN + PEMETREXED

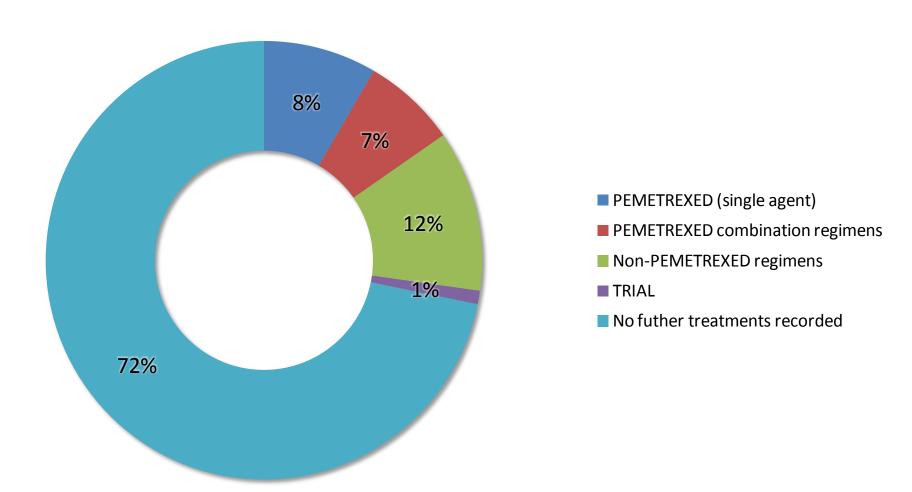
Source: SACT, accessed 7th May 2014





## What do patients with mesothelioma or NSCLC that have received more than five cycles of CISPLATIN + PEMETREXED subsequently receive?

**Source:** SACT, accessed 7th May 2014





## **NSCLC:** Erlotinib

## Total number of unique patients receiving ERLOTINIB, by diagnostic group, year of treatment start and estimated line of treatment

Source: SACT, accessed 5th September 2015

	2012/13		2013/14		2014/15 (ii	Prior to	
Diagnostic Group	First line	Second or subsequent		Second or subsequent	First line	Second or subsequent	April 2012
Lung	878	372	668	840	197	278	52
NSCLC	181	109	158	319	74	138	11
SCLC	17	4	21	16	12	5	1
Mesothelioma	40	15	43	21	8	16	0
Morphology not recorded	640	244	446	484	103	119	40
Total (all diagnostic groups)	3,434	1,188	3,093	2,264	668	585	358

#### Notes:

Line of treatment estimated by detecting earlier treatment records within SACT database for patient.

## **Post Chemotherapy Mortality Analysis**

- ✓ From 25<sup>th</sup> July 2014 all NHS providers of Chemotherapy in England will be able to access their post chemotherapy mortality analysis for 30, 60 and 90 days through the secure online portal.
- ✓ This analysis is available by tumour group and will provide a national comparison.
- ✓ It is essential that clinical teams within provider organisations check the accuracy of their data and contact the team in Oxford where there are any possible discrepancies.
- ✓ A letter to Medical Directors and Lead Chemotherapy Consultants has been sent out raising awareness of these reports.



## **Post Chemotherapy Mortality Analysis**

(2)

Total deaths

Intent of treatment	Palliative only ▼	Show regimens with no deaths?	No, only show regimens with recorded death ▼
Sort by	Total deaths within 30 days (highest to lowest) ▼	Start Date	January 2013 ▼
End Date	December 2013 ▼		
14 4 2	of 2 ▷ ▷ □ ↓ Find   Next 💐 ▼ 🍪		

**Total patients** 

## Post-chemotherapy mortality analysis (January 2013 - December 2013) Source: SACT, ENCORE (CAS) and Personal Demographics Service (PDS), accessed 15th May 2014

### For demonstration purposes only

Deaths 0-30 days Death 0-60 days Deaths 0-90 day

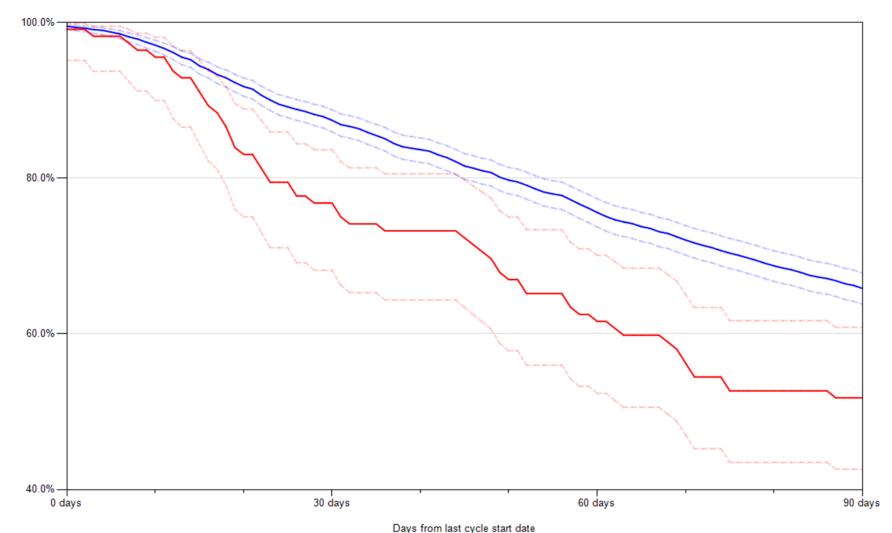
NHS Foundation Trust	1,667	194	322	422	679
	Total patients	Deaths 0-30 days	Death 0-60 days	Deaths 0-90 day	Total deaths
Lung	261	48	72	94	153
Palliative	179	38	60	77	125
ERLOTINIB	37	8	16	19	29
CARBOPLATIN + ETOPOSIDE	29	6	7	10	20
GEMCARBO	18	5	6	8	16
CARBOPLATIN + PEMETREXED	45	5	13	20	30
CISPLATIN + PEMETREXED	16	4	5	5	8
CISPLATIN + ETOPOSIDE	3	2	2	2	2
CARBOPLATIN + PACLITAXEL	1	1	1	1	1
VINORELBINE	7	1	1	1	5
CAV	1	1	1	1	1
DOCETAXEL	8	2	3	4	6
CISPLATIN + GEMCITABINE	2	1	1	1	1
PEMETREXED	4	1	1	1	1
CARBOPLATIN + VINORELBINE	4	1	2	3	3
SUNITINIB	1	0	0	0	1
TOPOTECAN	2	0	1	1	1



# Post Chemotherapy Survival Analysis NSCLC with Palliative Intent

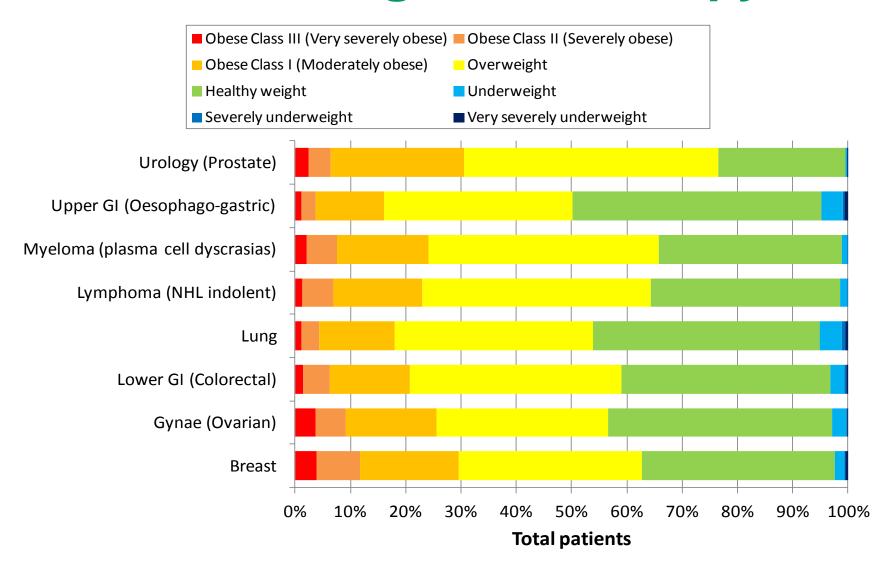
All submitting trusts aggregated — NHS Foundation Trust







# **Body Mass Index of patients** receiving chemotherapy





# Online Regimen Mapping Tool Launched

- ✓ Providers now have the responsibility to map their local regimen names to nationally recognised regimen nomenclature using the new mapping tool.
- ✓ The tool was tested by members of the SACT User Group, before being launched on the upload portal.
- ✓ Using feedback, the written guidelines and step by step guide have been produced in conjunction with senior pharmacists who are supporting the team.
- ✓ We currently have over 50 registered users with the new role of "Regimen mapping"



## Public Health We want to identify best practice across England and share it!

## Have You:

- Improved SACT data quality by introducing new processes?
- Used your local SACT data to improve services, or your understanding of chemotherapy?
- Shared all SACT reports (Data Quality, Top Regimen, Benchmarking and the mortality reports) with your pharmacy and oncology teams members in order to improve understanding SACT and its purpose?
- If yes, please contact us at CIU@phe.gov.uk!

## Improving Stakeholder Engagement

Members of the CIU team will be attending the following meetings in August / September:

- NHS England Area Team Pharmacist Meeting
- NCIN Breast Site Specific Clinical Reference Group (SSCRG)
- NCIN Lung SSCRG
- NHS England Chemotherapy Clinical Reference Group
- NCIN Central Nervous System SSCRG
- NCIN Haematology SSCRG
- Would you like to know more about SACT? Please contact the team, we are always happy to discuss the project or meet with you.



## Any Questions ??