

National Cancer Intelligence Network

Frequency and characterisation of outpatient attendances before and after cancer diagnosis

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Specialties: Focus on lung and breast cancers

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What are 'HES outpatients' data?

- Health & Social Care Information Centre (HSCIC) provide HES outpatient data.
- Collection started 2003/4; England only; 2012/13 = 75.5m appointments attended.
- Outpatient data linked to cancer registrations for the first time.
- Inform other projects
 - E.g. post-diagnostic activity and Macmillan-NCIN 'progressive cancers' project



- Varying levels of variable completeness, field completion not always mandatory.
 - >99% of <u>specialties</u> recorded (i.e. not null and not unknown)
 - >99% first or follow-up attendances
 - c.13% of <u>procedures</u> complete (but not all patients will have one) [lung=12%]
- "Hot off press" new and exploratory figures, more investigation needed.



Cohort summary

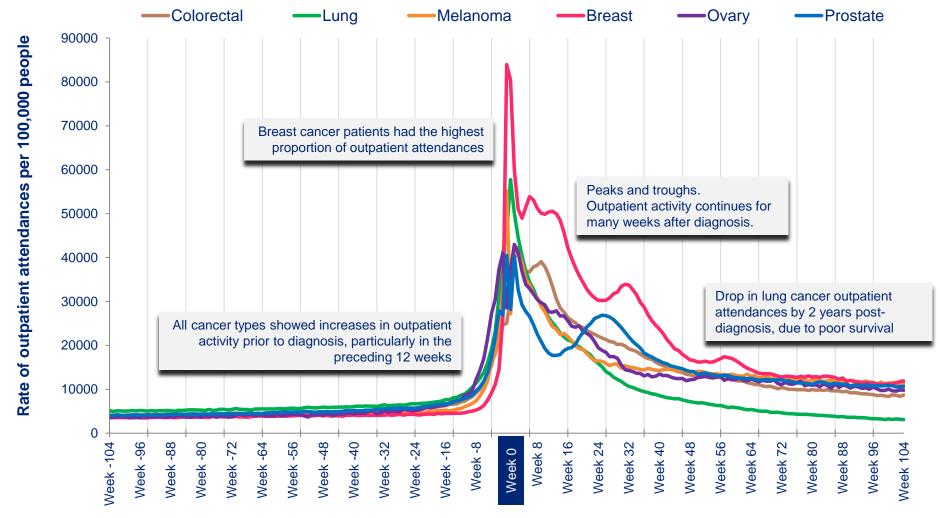
- We identified patients diagnosed with cancer 2008-2010 using cancer registrations.
- Selected: breast, bowel, lung, prostate, skin and ovarian = 473,718 people.
- <u>ALL</u> outpatient attendances 2006-2012 (2 years either side of diagnosis) = 11.6million.
 - More time needed to effectively separate cancer-related attendances.
 - Figures below will reflect number of people, survival rates and types of treatment.

	Breast	Prostate	Lung	Colorectal	Melanoma	Ovary
Number of cancer registrations 2008-2010	123,245	102,344	101,310	98,958	30,578	17,283
Number of outpatient attendances 2006-2012	3,758,834	2,418,358	1,983,606	2,354,059	696,727	402,978
Mean number of outpatient attendances per patient	30	24	20	24	23	23
Ratio of pre- to post-diagnostic outpatient attendances	1:5	1:3	2:3	1:3	1:3	1:3
% of outpatient attendances in 24- week peri-diagnostic period	28%	22%	35%	27%	26%	29%



Outpatient attendances: volume distribution 1

by week and cancer type for two years either side of diagnosis

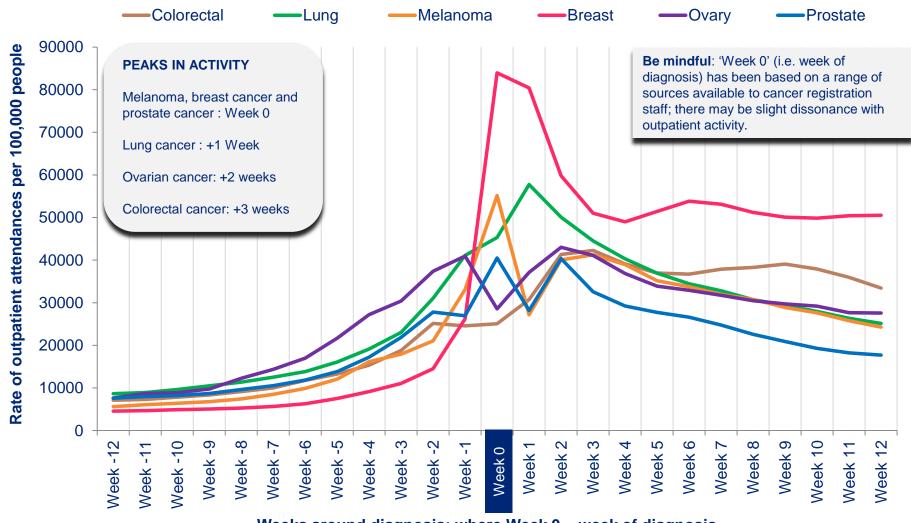


Weeks around diagnosis; where Week 0 = week of diagnosis



Outpatient attendances: volume distribution 2

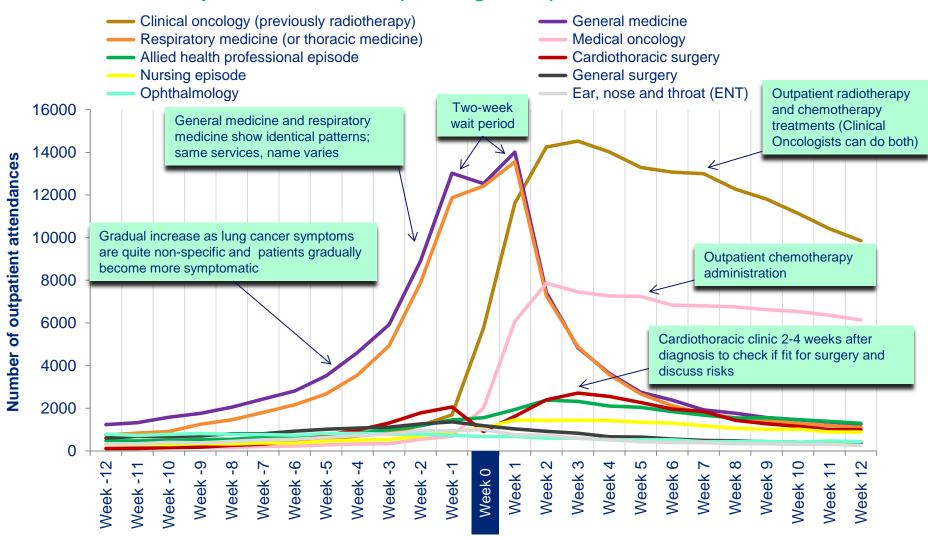
by week and cancer type for 24-week peri-diagnostic period





Lung cancer: top 10 outpatient specialties

by week for 24-week peri-diagnostic period

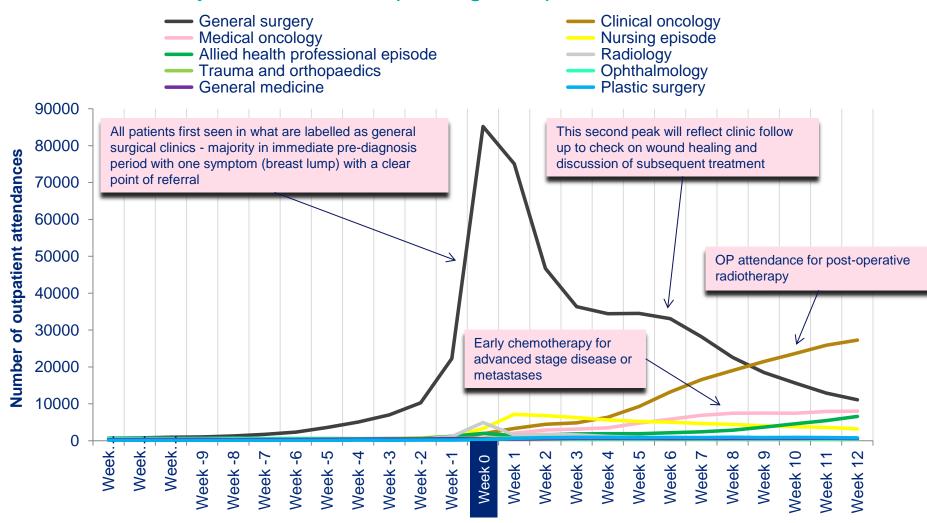


Weeks around diagnosis; where Week 0 = week of diagnosis



Breast cancer: top 10 outpatient specialties

by week for 24-week peri-diagnostic period



Weeks around diagnosis; where Week 0 = week of diagnosis



Top 3 outpatient procedures

by cancer type and by OPCS chapter and procedure group

		Breast	Prostate	Lung	Colorectal	Melanoma	Ovary
% N/A		83%	86%	88%	87%	88%	87%
3 most common OPCS chapters (out of 25 chapters)	1	Miscellaneous Operations	Miscellaneous Operations	Miscellaneous Operations	Miscellaneous Operations	Miscellaneous Operations	Miscellaneous Operations
	2	Diagnostic Imaging, Testing and Rehabilitation	Diagnostic Imaging, Testing and Rehabilitation	Diagnostic Imaging, Testing and Rehabilitation	Diagnostic Imaging, Testing and Rehabilitation	Skin	Diagnostic Imaging, Testing and Rehabilitation
	3	Endocrine System and Breast	Urinary	Respiratory Tract	Lower Digestive Tract	Diagnostic Imaging, Testing and Rehabilitation	Upper Female Genital Tract
3 most common OPCS procedure groups (out of 900+ groups)	1	Radiotherapy Delivery	Radiotherapy Delivery	Radiotherapy Delivery	Assessment	Assessment	Assessment
	2	Assessment	Assessment	Assessment	Radiotherapy Delivery	Exploration Of Other Skin Of Other Site	Diagnostic Blood Tests
	3	Diagnostic Imaging Procedures	Other Operations On Outlet Of Male Bladder	Diagnostic Blood Tests	Diagnostic Blood Tests	Other Excision Of Lesion Of Skin	Diagnostic Imaging Procedures



Future potential

- HES Outpatients data linked with cancer registrations → richer picture.
- With more time:



- In combination with other datasets e.g. SACT (chemotherapy), RTDS (radiotherapy),
 DIDs (imaging), HES inpatients, HES A&E = huge potential.
- Inform other projects e.g. Routes to Diagnosis, Routes from Diagnosis, Macmillan-NCIN progressive cancers project.



Thank you for listening and to co-authors and Analysts at NCIN

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Colorectal cancer: top 10 specialties by week for 24-week peri-diagnostic period

