NCIN
national cancer intelligence network

Using information to improve quality & choice

What is the NCIN?

Dr Mick Peake

Clinical Lead, NCIN

www.ncin.org.uk

NCRI
National Cancer Research Institute

NCIN

national cancer intelligence network

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Goal for NCIN: "To develop the best cancer information service of any large country in the world – by 2012"

www.ncin.org.uk

NCRI
National Cancer Research Institute

NCIN Partners

NCIN national cancer intelligence network

breakthrough breast cancer

CANCER RESEARCH UK

ecric Fighting cancer with information

DH Department of Health

NHS The Information Centre for health and social care

LONDON SCHOOL OF HYGIENE & TROPICAL MEDICINE UNIVERSITY OF LONDON

WE ARE MACMILLAN. CANCER SUPPORT

MRC Medical Research Council

NHS National Cancer Action Team

Office for National Statistics

NATCANSAT The National Cancer Services Analysis Team

NHS National Services Scotland

NHS Northern and Yorkshire Cancer Registry and Information Service

NWCIS North West Cancer Intelligence Service

onCore UK

O C I U OXFORD CANCER INTELLIGENCE UNIT

KING'S College LONDON

abpi

NHS

DH Department of Health

SOUTH WEST PUBLIC HEALTH OBSERVATORY

Trent NHS Cancer Registry

NHS

Cancer Screening Programmes

West Midlands Cancer Intelligence Unit

NCRI National Cancer Research Institute

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NCRI Members

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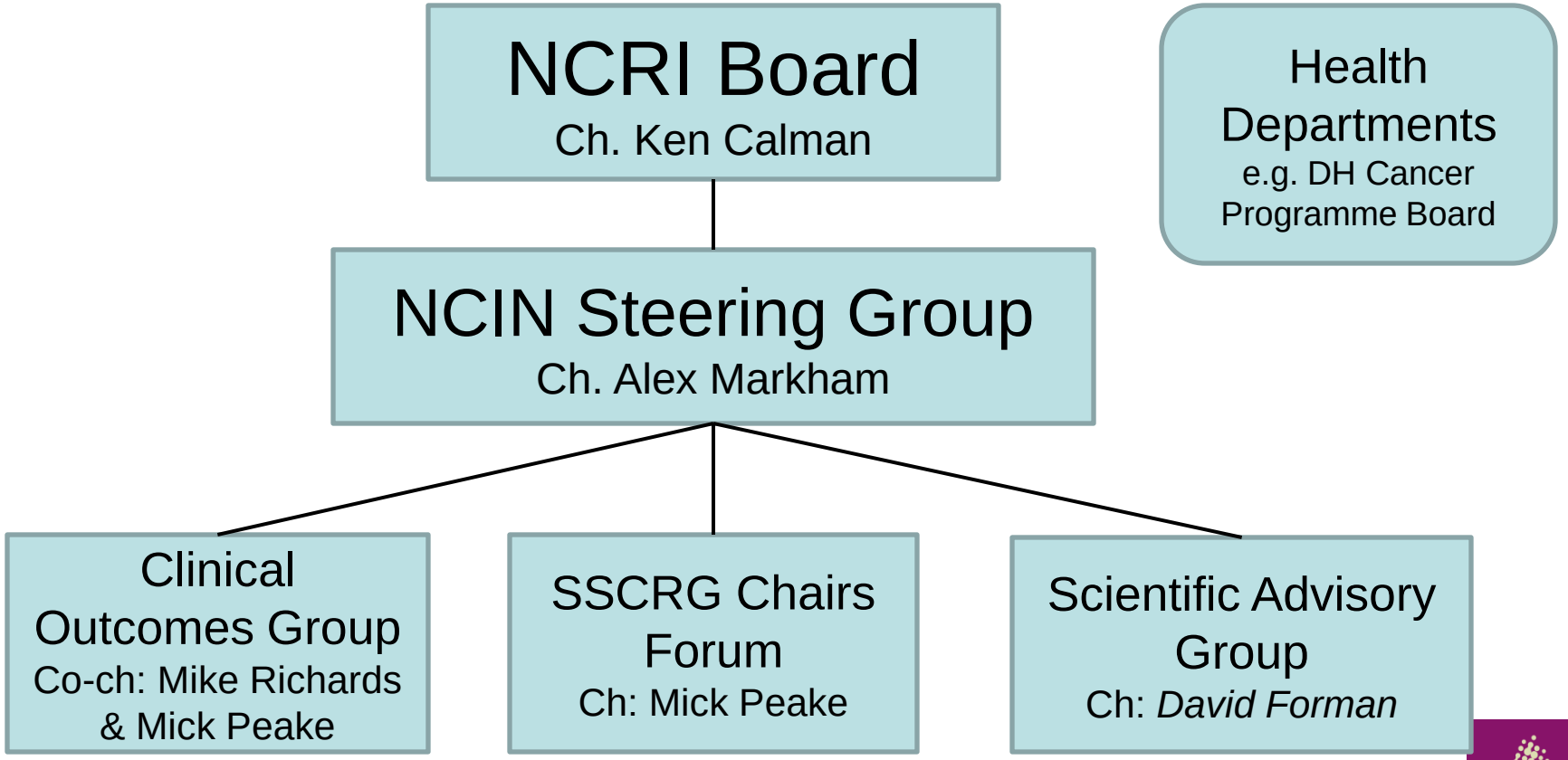
NCIN Governance



Using information to improve quality & choice

NCIN core objectives

- **Promoting efficient and effective data collection throughout the cancer journey**
- **Providing a common national repository for cancer datasets**
- **Producing expert analyses, based on robust methodologies, to monitor patterns of cancer care**
- **Exploiting information to drive improvements in standards of cancer care and clinical outcomes**
- **Enabling use of cancer information to support audit and research programmes**

Site-Specific Clinical Reference Groups

- Brain/CNS
- Breast
- Children, Teenage & Young Adults
- Colo-rectal
- Gynaecological cancers
- Haematological cancers (including lymphoma)
- Head & Neck (including thyroid)
- Lung (including mesothelioma)
- Bone & soft tissue Sarcoma
- Skin (including non-melanoma)
- Upper GI (including Hepato-biliary)
- Urology (all 4 sub-types)

Main issues for SSCRGs

- Development of a work programme (linked to national priorities)
- Support for data set development
- Identification of main clinical indicators
- Supporting the development of Peer Review measures
- Advising on co-morbidity/radiology etc.
- Improving staging (engaging pathologists)
- Promoting clinical (and public) engagement
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Other workstreams

- Pathology
- Radiology
- Radiotherapy (NRIG)
- Chemotherapy (NCIG)
- Co-morbidity – C-M Advisory Group

Coordinated National Data Management

- Linked National Cancer Data Repository (NCDR)
  - ONS Registration record
  - Extended registry records (staging, treatments)
  - Hospital Episodes (IP)
  - Covers England only
- GPRD (controlled linkage)
- To Follow:
  - HES OP
  - National audit data
  - Cancer Waiting Times (referral data, recurrence)
  - Radiotherapy (mandated from April 2009)
  - HES A&E

National Cancer Data Repository (NCDR)

- Currently contains:
  - ONS up to 2006 (8m+)
  - Registries up to 2006, incl stage & treat (8m+)
  - HES up to 2008 (35m+)
  - GPRD linkage complete
- Being updated for
  - Registrations up to 2007
  - NCASP data (lung, colorectal, H&N)
  - HES outpatients
  - Radiotherapy data to follow 2010

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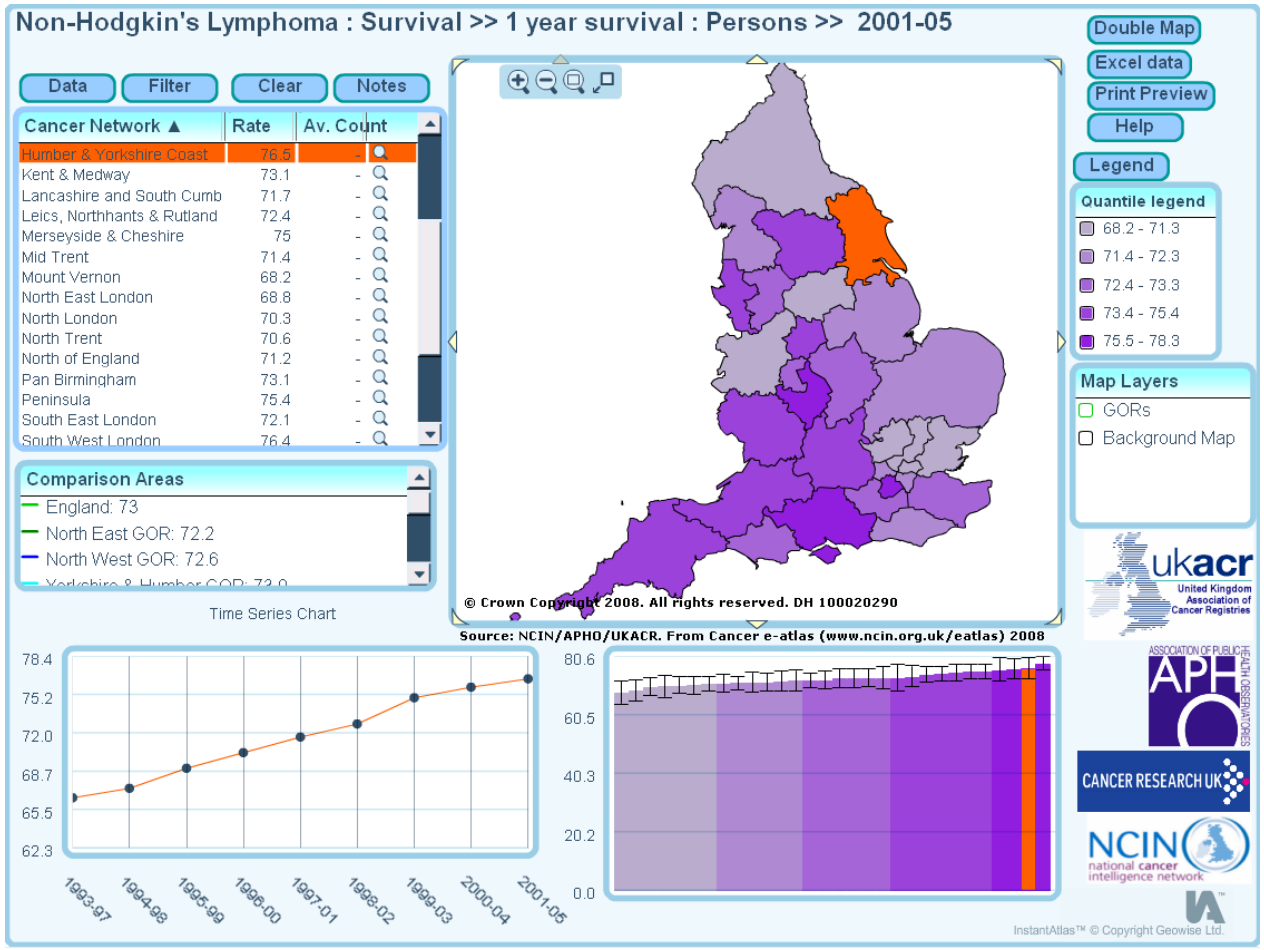
Expert analyses

- Cancer eAtlas: - launched July 2008 www.ncin.org.uk/eatlas
  - Large and varied interest
  - International recognition
- Reports on:
  - UK incidence & mortality
  - One year survival
  - Deprivation
  - Prevalence
  - Ethnicity
  - Male cancers
  - Cancer in the Elderly
  - *Surgery (due out Q1 2010)*
- Microsites

National Cancer e-Atlas

www.ncin.org.uk/eatlas



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NCRI
National Cancer Research Institute

NCIN: Incidence and mortality

NCIN national cancer intelligence network

New cancer cases, crude and age-standardised* incidence rates per 100,000 (with 95% confidence intervals), Cancer Networks, UK, 2006

C00-C97 excl. C44: All malignant neoplasms (excl. non-melanoma skin cancer)

Cancer Network	Males: Number of cases	Males: Crude rate	Males: ASR	Males: 95% confidence interval	Females: Number of cases	Females: Crude rate	Females: ASR	Females: 95% confidence interval	Persons: Number of cases	Persons: Crude rate	Persons: ASR	Persons: 95% confidence interval
NW1 Lancashire and South Cumbria CN	4,417	583.5	448.9	432.8 - 459.2	4,157	564.2	394.0	344.4 - 387.5	8,574	533.1	409.9	392.1 - 409.7
NW2 Greater Manchester and Cheshire CN	7,552	510.4	430.8	440.4 - 460.8	7,123	482.6	391.2	348.5 - 386.8	14,675	496.1	403.8	397.2 - 410.6
NW3 Merseyside and Cheshire CN	4,968	563.8	447.4	431.6 - 455.8	5,208	515.2	387.2	378.2 - 388.4	10,206	533.8	416.4	407.0 - 415.7
NW Yorkshire CN	8,658	479.8	417.3	408.7 - 427.8	8,685	455.6	354.6	345.2 - 364.0	17,121	467.1	385.0	378.9 - 391.1
NW7 Humber and Yorkshire Coast CN	2,865	526.8	436.3	394.9 - 415.7	2,653	502.5	364.8	342.4 - 371.4	5,518	514.3	376.8	358.0 - 389.2
NW8 North Trent CN	4,823	526.7	432.8	423.0 - 445.2	4,695	519.8	376.2	356.8 - 387.7	9,295	527.8	404.4	395.9 - 412.9
NW1 Pan Birmingham CN	4,495	484.3	434.1	421.2 - 448.8	4,391	439.8	364.4	345.1 - 387.8	8,886	461.8	394.3	388.7 - 400.8
NW2 Arden CN	2,279	482.1	394.4	389.8 - 400.4	2,288	445.7	339.0	321.2 - 350.7	4,567	453.8	360.2	349.3 - 371.0
NW3 Mid Trent CN	4,368	543.2	419.8	405.9 - 431.4	4,078	487.8	359.1	347.4 - 370.9	8,378	520.1	388.9	383.2 - 397.5
NW4 Derbyshire CN	1,782	511.8	428.4	405.4 - 445.4	1,685	473.4	351.8	333.9 - 369.8	3,467	493.8	388.2	374.7 - 401.8
NW5 Leics, Northants and Rutland CN	3,848	483.4	432.8	393.4 - 435.8	3,626	449.5	362.2	343.2 - 384.3	7,298	466.2	377.8	359.0 - 395.8
NW6 Mount Vernon CN	2,464	491.7	377.5	362.8 - 392.8	2,524	427.8	333.1	318.4 - 346.9	4,988	459.3	355.3	345.2 - 365.5
NW1 West London CN	3,128	562.1	372.4	360.2 - 385.6	3,128	553.8	339.8	328.9 - 340.4	6,256	548.4	361.0	342.2 - 379.9
NW2 North London CN	2,873	562.8	396.8	389.7 - 403.4	2,618	523.7	307.0	292.9 - 321.6	5,499	533.6	346.8	335.9 - 357.7
NW3 North East London CN	2,472	526.2	384.3	349.7 - 376.8	2,491	523.6	301.7	288.2 - 314.2	4,950	534.1	333.0	323.4 - 342.6
NW4 South East London CN	2,807	570.8	433.5	399.3 - 419.8	2,991	577.6	342.4	329.3 - 355.8	5,808	576.3	373.0	362.9 - 383.0
NW5 South West London CN	2,532	580.7	414.9	399.6 - 431.3	2,485	565.3	322.8	310.9 - 340.4	4,997	579.3	373.8	363.0 - 384.5
NW6 Peninsula CN	4,774	597.3	412.4	400.4 - 424.5	5,018	592.2	362.1	370.5 - 388.3	9,790	594.7	387.3	380.0 - 405.7
NW7 Dorset CN	2,401	739.8	436.9	421.9 - 459.8	2,304	695.1	389.3	388.5 - 404.6	4,705	671.7	418.6	405.6 - 431.6
NW8 Avon, Somerset and Wiltshire CN	5,904	562.8	424.8	422.4 - 447.8	5,618	522.8	360.8	359.5 - 382.1	10,674	542.8	407.7	399.4 - 415.9
NW9 Coastline CN	2,893	581.3	391.8	378.6 - 405.7	2,658	563.2	343.6	329.5 - 357.5	5,548	517.6	367.8	357.3 - 377.8
NW0 Thames Valley CN	4,817	427.8	436.4	399.1 - 411.6	5,083	425.4	362.2	352.5 - 373.3	9,900	431.2	381.8	374.0 - 389.3
NW1 Central South Coast CN	5,347	550.8	423.4	411.7 - 435.0	5,312	535.3	376.9	365.9 - 388.8	10,559	542.8	399.8	391.6 - 407.8
NW2 Surrey, West Sussex and Hampshire CN	3,908	424.9	353.7	343.9 - 363.5	3,197	422.1	330.4	336.5 - 322.2	6,193	426.1	337.0	329.3 - 345.7
NW3 Sussex CN	2,743	522.7	391.2	347.6 - 375.8	2,937	510.9	322.0	336.9 - 335.3	5,850	516.5	341.8	332.2 - 351.5
NW4 Kent and Medway CN	3,701	471.8	391.9	369.6 - 384.4	3,838	484.8	340.7	329.2 - 352.2	7,538	480.2	361.3	352.9 - 369.8
NW5 Greater Midlands CN	4,832	501.3	388.4	353.9 - 405.8	4,556	480.2	341.8	335.3 - 356.5	9,212	490.8	370.7	362.8 - 378.5
NW6 North of England CN	7,738	501.2	434.5	414.9 - 434.1	7,666	514.8	371.4	362.7 - 380.8	15,619	522.8	387.9	381.8 - 408.4
NW7 Anglia CN	6,567	502.9	382.9	372.8 - 391.4	6,313	473.3	337.8	328.1 - 348.8	12,828	487.4	359.8	353.0 - 365.9
NW8 Essex CN	3,982	477.7	377.2	365.3 - 389.1	3,873	459.8	339.4	330.5 - 348.6	7,815	467.8	353.3	345.2 - 361.4
England	110,833	498.8	437.8	400.8 - 410.3	110,548	467.3	352.3	350.1 - 354.3	220,873	478.9	380.0	378.0 - 381.8
North of Scotland CN	3,168	561.8	388.2	375.0 - 400.1	3,458	534.5	362.8	350.0 - 375.7	6,618	513.4	376.1	366.7 - 385.5
South East of Scotland CN	3,537	522.9	421.4	417.0 - 445.8	3,192	519.7	367.2	374.2 - 400.2	7,229	530.8	400.2	389.6 - 410.8
West of Scotland CN	6,049	526.1	432.8	442.0 - 465.1	6,002	519.6	383.4	373.6 - 393.3	12,542	522.7	416.5	410.0 - 423.1
Scotland	12,749	510.1	426.1	422.8 - 437.8	13,780	521.6	379.3	373.0 - 386.8	26,529	526.3	404.7	398.8 - 408.8
South Wales CN	2,939	506.8	431.2	431.8 - 473.9	2,653	564.8	382.2	373.9 - 430.4	4,152	515.6	421.7	409.3 - 435.1
South West Wales CN	2,517	590.3	416.3	398.7 - 422.6	2,426	545.4	359.6	351.1 - 382.9	4,645	570.1	391.0	378.6 - 402.6
South East Wales CN	3,959	526.1	472.4	458.5 - 489.3	3,816	485.2	372.3	359.3 - 385.6	7,559	534.5	422.8	413.9 - 432.6
Wales	9,393	508.4	440.8	440.0 - 460.2	9,107	523.1	370.1	366.4 - 382.8	19,057	542.3	412.4	406.0 - 418.8
Northern Ireland	3,417	434.7	382.3	370.1 - 406.4	3,837	481.9	337.4	328.3 - 346.5	6,864	422.3	364.8	356.2 - 373.4
United Kingdom	144,392	493.6	411.8	409.8 - 413.8	144,164	473.3	353.4	353.6 - 357.2	288,556	482.7	383.8	382.3 - 385.3

Trends in one year cancer survival, England, 1985-2004

C15: Oesophagus

Males

Years of diagnosis	Number in Cohort	Cumulative Deaths	% Crude Survival	% Relative Survival	95% Confidence Interval
1985-1989	11,722	9,010	23.1	24.4	23.6 - 25.2
1990-1994	13,421	9,946	25.9	27.4	26.6 - 28.2
1995-1999	14,779	10,404	29.6	31.1	30.3 - 31.9
2000-2004	17,155	10,959	36.1	37.9	37.2 - 38.7

Estimated change per 5-yr cohort (%): 4.5 (1.7 - 7.2); P value: 0.020

Notes on Trend: Estimated 4.5% change per 5 year cohort gives an estimated increase of 0.86% per annum.

Females

Years of diagnosis	Number in Cohort	Cumulative Deaths	% Crude Survival	% Relative Survival	95% Confidence Interval
1985-1989	8,253	6,262	24.1	25.5	24.5 - 26.5
1990-1994	9,202	6,792	23.2	27.7	26.7 - 28.7
1995-1999	9,522	6,989	25.6	28.2	27.2 - 29.2
2000-2004	9,724	6,647	31.6	33.8	32.6 - 34.6

Estimated change per 5-yr cohort (%): 2.5 (-0.6 - 5.5); P value: 0.073

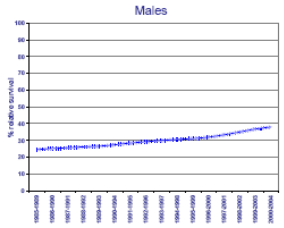
Notes on Trend: The regression test shows no statistically significant linear change in relative survival over all four time periods. There may, however, still be significant differences between one time period and another but these have not been specifically tested.*

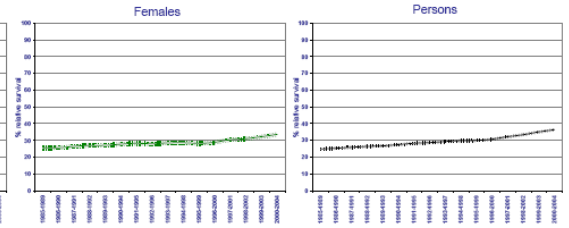
Persons

Years of diagnosis	Number in Cohort	Cumulative Deaths	% Crude Survival	% Relative Survival	95% Confidence Interval
1985-1989	19,975	15,272	23.5	24.9	24.2 - 25.5
1990-1994	22,623	16,738	26.0	27.5	26.9 - 28.1
1995-1999	24,301	17,393	28.4	30.0	29.4 - 30.6
2000-2004	26,879	17,606	34.5	36.4	35.8 - 37.0

Estimated change per 5-yr cohort (%): 3.7 (0.8 - 6.6); P value: 0.031

Notes on Trend: Estimated 3.7% change per 5 year cohort gives an estimated increase of 0.74% per annum.





Males

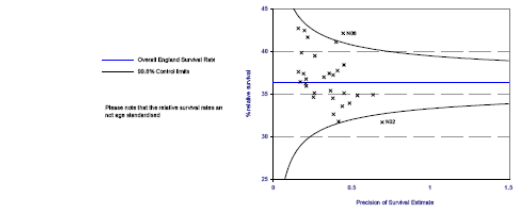
Cancer Network	Number in Cohort	Cumulative Deaths	% Crude Survival	% Relative Survival	95% Confidence Interval
NW7 Lancashire and South Cumbria CN	534	388	33.0	34.6	30.5 - 38.6
NW2 Greater Manchester and Cheshire CN	1,113	781	31.6	33.2	30.3 - 36.1
NW3 Merseyside and Cheshire CN	728	488	35.7	37.4	33.7 - 41.1
NW6 Yorkshire CN	800	491	43.4	44.8	40.7 - 48.9
NW7 Humber and Yorkshire Coast CN	410	271	35.2	36.8	31.9 - 41.7
NW8 North Trent CN	639	428	33.0	34.7	30.8 - 38.7
NW1 Pan Birmingham CN	583	382	34.5	36.0	31.9 - 40.1
NW2 Arden CN	306	193	40.6	42.0	36.9 - 46.7
NW3 Mid Trent CN	550	405	37.7	39.5	35.5 - 43.5
NW4 Derbyshire CN	297	194	34.7	36.4	30.6 - 42.2
NW5 Leics, Northants and Rutland CN	552	341	38.2	40.2	35.9 - 44.6
NW6 Mount Vernon CN	346	221	36.5	38.2	32.8 - 43.7
NW1 West London CN	404	255	40.3	42.2	36.1 - 48.3
NW2 North London CN	299	198	33.8	35.5	29.8 - 41.2
NW3 North East London CN	370	245	33.8	35.3	30.2 - 40.5
NW4 South East London CN	350	225	35.3	36.9	32.0 - 43.4
NW5 South West London CN	353	209	40.8	42.8	37.4 - 47.4
NW6 Peninsula CN	786	519	34.0	35.9	32.3 - 39.5
NW7 Dorset CN	278	151	45.7	48.1	41.8 - 54.4
NW8 Avon, Somerset and Wiltshire CN	706	454	38.5	40.6	36.8 - 44.5
NW9 Coastline CN	347	227	34.9	36.5	31.1 - 41.9
NW0 Thames Valley CN	733	452	38.3	40.3	36.5 - 44.0
NW1 Central South Coast CN	610	502	38.0	40.1	36.5 - 43.8
NW2 Surrey, West Sussex and Hampshire CN	471	277	41.2	43.4	38.7 - 48.3
NW3 Sussex CN	431	277	35.7	37.9	32.9 - 42.7
NW4 Kent and Medway CN	535	410	34.0	35.9	31.8 - 40.1
NW5 Greater Midlands CN	692	466	32.7	34.3	30.5 - 38.0
NW6 North of England CN	980	638	34.8	36.5	33.3 - 39.6
NW7 Anglia CN	847	576	33.9	35.7	30.4 - 37.1
NW8 Essex CN	533	400	35.6	36.7	32.7 - 40.8
England	17,155	10,959	36.1	37.9	37.2 - 38.7

Females

Cancer Network	Number in Cohort	Cumulative Deaths	% Crude Survival	% Relative Survival	95% Confidence Interval
NW7 Lancashire and South Cumbria CN	389	290	27.8	29.3	24.3 - 34.3
NW2 Greater Manchester and Cheshire CN	839	615	27.2	29.0	24.9 - 32.7
NW3 Merseyside and Cheshire CN	452	305	29.4	31.2	26.5 - 35.9
NW6 Yorkshire CN	459	282	36.8	38.0	33.1 - 42.8
NW7 Humber and Yorkshire Coast CN	249	170	29.2	30.8	24.6 - 37.0
NW8 North Trent CN	384	287	25.3	26.8	22.1 - 31.5
NW1 Pan Birmingham CN	361	264	30.7	32.2	27.3 - 37.2
NW2 Arden CN	191	127	35.5	36.1	28.0 - 42.3
NW3 Mid Trent CN	362	249	31.2	33.6	27.8 - 38.2
NW4 Derbyshire CN	136	84	36.2	38.3	31.5 - 43.1
NW5 Leics, Northants and Rutland CN	304	215	29.3	31.1	27.5 - 35.8
NW6 Mount Vernon CN	170	113	33.5	35.6	27.9 - 43.2
NW1 West London CN	358	236	34.8	36.7	29.7 - 43.7
NW2 North London CN	163	105	35.6	36.2	30.1 - 46.2
NW3 North East London CN	169	119	29.6	30.6	32.1 - 47.1
NW4 South East London CN	204	142	30.4	32.4	26.5 - 39.2
NW5 South West London CN	212	129	36.4	38.4	31.7 - 44.9
NW6 Peninsula CN	481	330	28.4	30.5	26.2 - 35.0
NW7 Dorset CN	181	125	32.0	34.3	26.9 - 41.7
NW8 Avon, Somerset and Wiltshire CN	410	246	39.5	42.0	36.8 - 47.1
NW9 Coastline CN	202	134	33.7	35.8	28.7 - 42.9
NW0 Thames Valley CN	361	250	30.7	32.8	27.4 - 37.7
NW1 Central South Coast CN	412	277	32.8	35.1	30.9 - 39.9
NW2 Surrey, West Sussex and Hampshire CN	361	183	39.3	41.2	36.2 - 46.3
NW3 Sussex CN	286	191	30.2	32.6	24.6 - 36.8
NW4 Kent and Medway CN	319	197	36.2	38.5	34.8 - 42.3
NW5 Greater Midlands CN	414	287	30.7	32.4	27.6 - 37.2
NW6 North of England CN	580	443	30.8	32.5	28.6 - 36.4
NW7 Anglia CN	536	353	34.4	36.6	32.2 - 41.0
NW8 Essex CN	333	239	27.0	28.6	23.3 - 33.9
England	9,724	6,647	31.6	33.6	32.6 - 34.6

Persons

Cancer Network	Number in Cohort	Cumulative Deaths	% Crude Survival	% Relative Survival
NW7 Lancashire and South Cumbria CN	953	688	31.0	32.6
NW2 Greater Manchester and Cheshire CN	1,960	1,378	30.1	31.2
NW3 Merseyside and Cheshire CN	1,180	773	33.4	35.1
NW6 Yorkshire CN	1,259	745	40.4	42.0
NW7 Humber and Yorkshire Coast CN	659	441	33.0	34.0
NW8 North Trent CN	1,023	715	30.1	31.8
NW1 Pan Birmingham CN	944	646	33.0	34.2
NW2 Arden CN	499	320	37.9	39.0
NW3 Mid Trent CN	1,012	654	35.4	37.2
NW4 Derbyshire CN	433	278	35.6	37.0
NW5 Leics, Northants and Rutland CN	856	556	35.0	37.0
NW6 Mount Vernon CN	516	334	35.5	37.0
NW1 West London CN	762	491	37.3	39.7
NW2 North London CN	462	303	34.4	36.4
NW3 North East London CN	539	364	34.9	36.8
NW4 South East London CN	554	368	34.1	36.0
NW5 South West London CN	565	338	40.2	42.2
NW6 Peninsula CN	1,247	849	31.9	33.5
NW7 Dorset CN	459	274	33.3	42.7
NW8 Avon, Somerset and Wiltshire CN	1,116	682	38.9	41.1
NW9 Coastline CN	549	361	34.2	36.2
NW0 Thames Valley CN	1,094	702	35.0	37.1
NW1 Central South Coast CN	1,222	779	35.3	38.4
NW2 Surrey, West Sussex and Hampshire CN	732	460	37.3	39.3
NW3 Sussex CN	697	468	32.9	35.1
NW4 Kent and Medway CN	854	606	35.4	37.4
NW5 Greater Midlands CN	1,106	753	31.9	33.6
NW6 North of England CN	1,560	1,081	33.2	34.8
NW7 Anglia CN	1,383	929	32.9	34.8
NW8 Essex CN	866	639	33.5	35.4
England	26,879	17,606	34.5	36.4



Networks above 99.8% control limit:
N06 Yorkshire

Networks below 99.8% control limit:
N02 Greater Manchester and South Cumbria

NCRI National Cancer Research Institute

Using information to improve quality & choice

Trends in 1 year survival: England 1985-2004

NCIN national cancer intelligence network

C00-C97 excl. C44: All malignant neoplasms (excl. non-melanoma skin cancer)

Males

Years of diagnosis	Number in Cohort	Cumulative Deaths	% Crude Survival	% Relative Survival	95% Confidence Interval
1985-1989	414,345	221,027	46.7	49.3	49.1 - 49.5
1990-1994	445,012	219,778	50.6	53.6	53.4 - 53.7
1995-1999	468,127	206,001	56.0	58.9	58.7 - 59.0
2000-2004	504,166	196,766	61.0	64.1	63.9 - 64.2

Estimated change per 5-yr cohort (%):	5.0	4.3 - 5.7
P value:	0.001	

Notes on Trend

Estimated 5.0% change per 5 year cohort gives an estimated increase of 1% per annum.

Females

Number in Cohort	Cumulative Deaths	% Crude Survival	% Relative Survival	95% Confidence Interval
423,315	172,317	59.3	61.4	61.3 - 61.6
453,522	172,691	61.9	64.2	64.0 - 64.3
475,530	168,215	64.6	67.0	66.8 - 67.1
498,802	164,881	66.9	69.4	69.3 - 69.5

Estimated change per 5-yr cohort (%):	2.7	2.4 - 2.9
P value:	<0.001	

Notes on Trend

Estimated 2.7% change per 5 year cohort gives an estimated increase of 0.53% per annum.

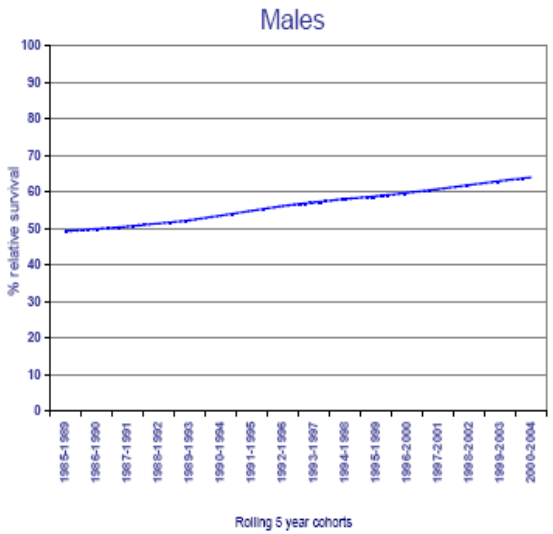
Persons

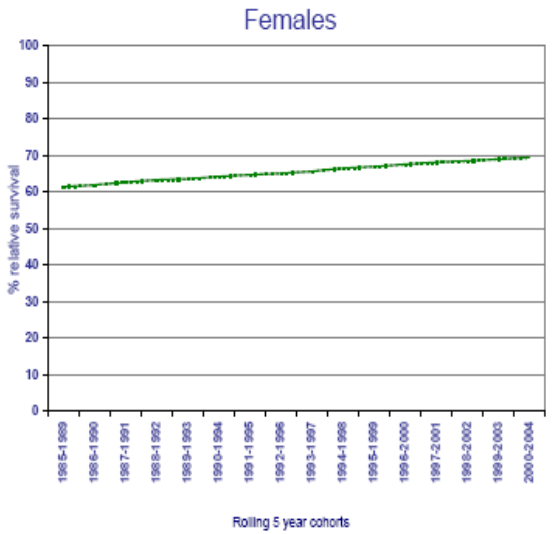
Number in Cohort	Cumulative Deaths	% Crude Survival	% Relative Survival	95% Confidence Interval
837,660	393,344	53.0	55.5	55.4 - 55.6
898,534	392,469	56.3	59.0	58.9 - 59.1
943,657	374,216	60.3	63.0	62.9 - 63.1
1,002,968	361,647	63.9	66.7	66.6 - 66.8

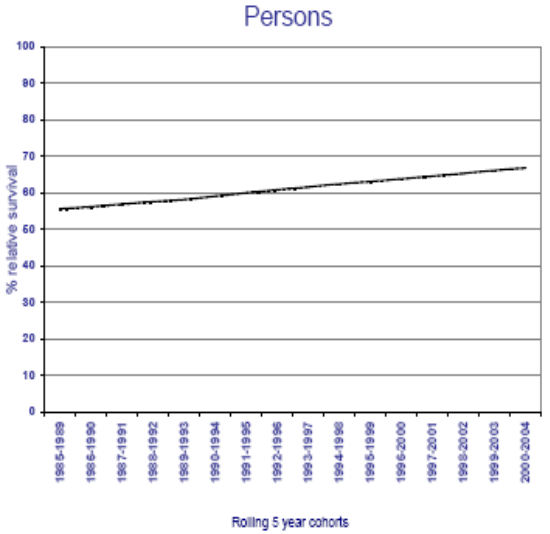
Estimated change per 5-yr cohort (%):	3.8	3.5 - 4.1
P value:	<0.001	

Notes on Trend

Estimated 3.8% change per 5 year cohort gives an estimated increase of 0.76% per annum.



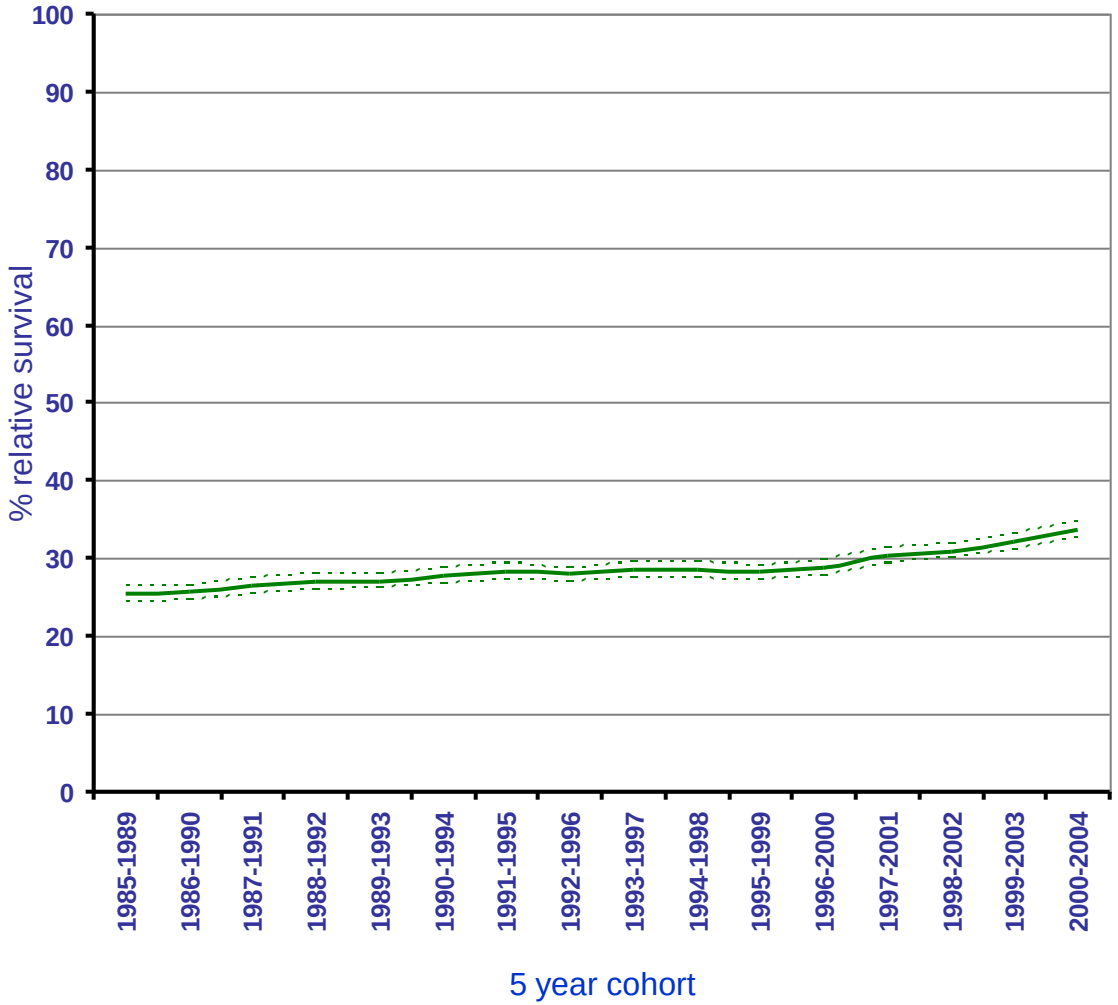




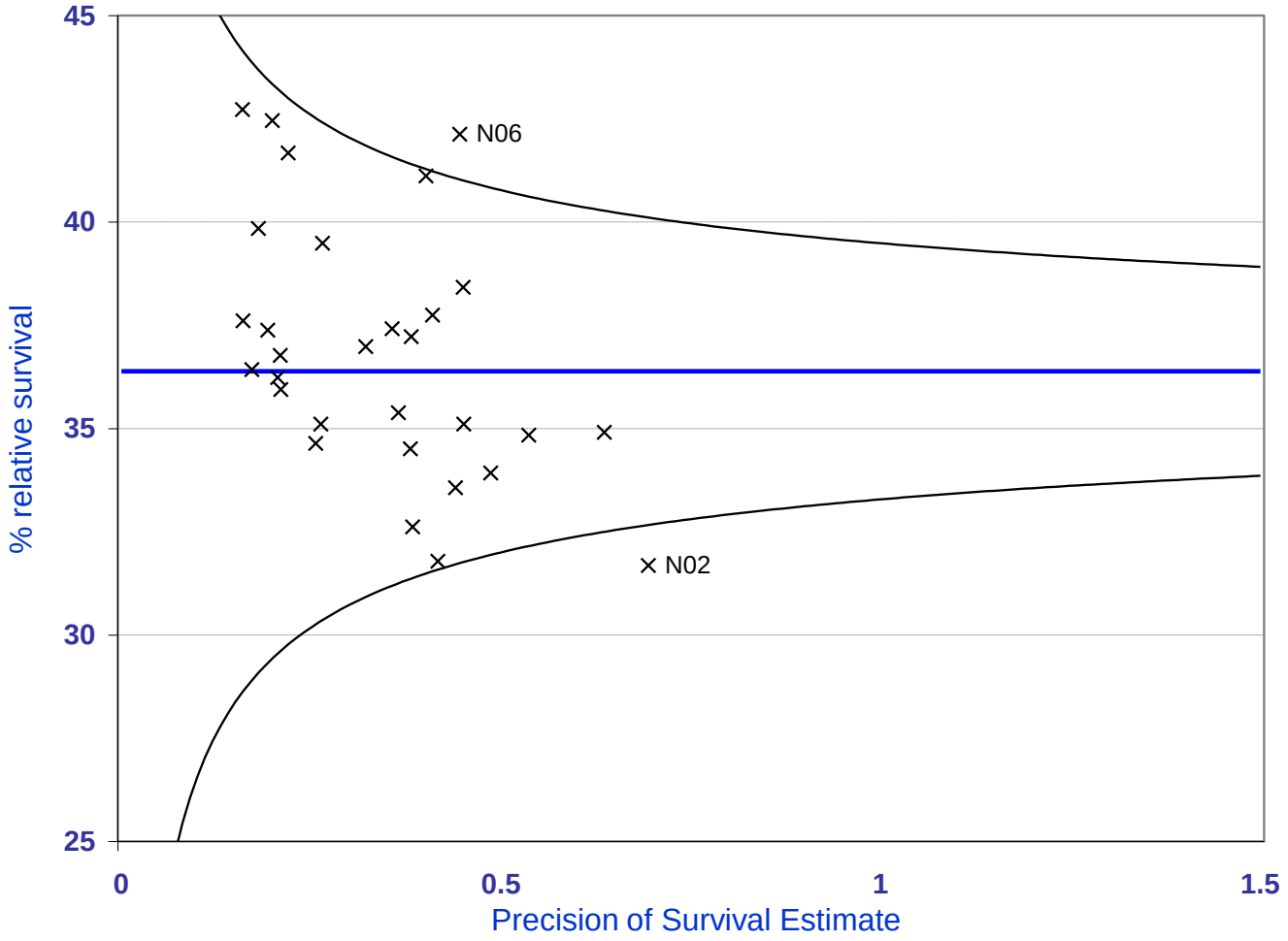
- - - - Dotted lines show 95% confidence limits

Version 1.1 (England) 25/09/2008
Data Sources: UK Association of Cancer Registries - CIS accessed 2008 - (data extraction July 2007)
Death registrations from ONS. Deaths up to and including 31/12/2005

C15: Oesophagus
Trends in 1yr survival



C15: Oesophagus 2005 by Cancer Network



Using information to improve quality & choice

Lung Cancer Incidence by deprivation

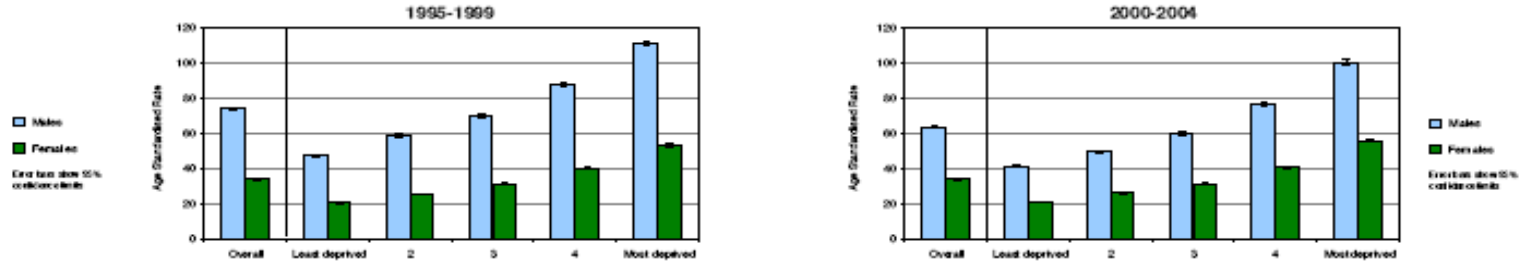
NCIN national cancer intelligence network

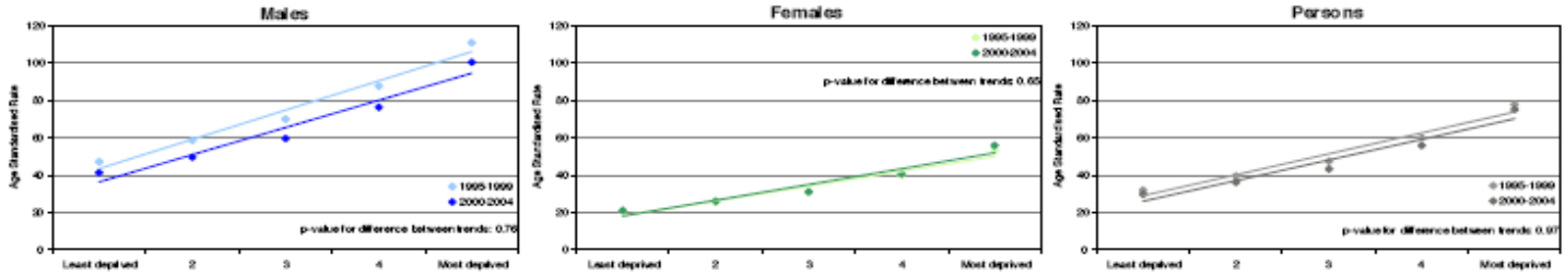
NCIN national cancer intelligence network

Cancer incidence by deprivation quintile, England, 1995 - 2004

C33-C34: Trachea, bronchus and lung

Deprivation Quintile	Males: Number of cases	Crude Rate	ASR	95% Confidence Interval		ASR Ratio	Excess Cases	Females: Number of cases	Crude Rate	ASR	95% Confidence Interval		ASR Ratio	Excess Cases	Persons: Number of cases	Crude Rate	ASR	95% Confidence Interval		ASR Ratio	Excess Cases
1995-1999																					
Least deprived	12,764	54.9	47.1	46.3	47.9	1.0	0	7,176	29.5	20.8	20.4	21.3	1.0	0	19,969	41.9	32.0	31.5	32.4	1.0	0
2	17,063	72.6	58.7	57.8	59.5	1.2	3,355	9,397	38.1	25.3	24.8	25.9	1.2	1,670	26,460	54.9	39.6	39.1	40.0	1.2	5,025
3	20,225	86.8	70.1	69.1	71.0	1.5	6,623	11,578	46.5	31.0	30.4	31.5	1.5	3,786	31,803	66.6	47.5	47.0	48.0	1.5	10,409
4	23,753	99.8	87.7	86.6	88.8	1.9	11,005	14,122	56.9	40.1	39.5	40.8	1.9	6,786	37,915	77.2	60.1	59.5	60.7	1.9	17,790
Most deprived	27,443	112.7	110.9	109.6	112.2	2.4	15,786	16,733	65.2	58.1	57.3	58.9	2.5	10,166	44,176	88.3	77.8	77.1	78.6	2.4	25,951
Overall	**101,308**	**85.4**	**74.1**	**73.8**	**74.5**			**59,005**	**47.3**	**33.8**	**33.5**	**34.0**			**160,313**	**65.9**	**50.9**	**50.7**	**51.2**		
2000-2004																					
Least deprived	12,544	51.2	41.3	40.6	42.1	1.0	0	7,691	30.7	20.9	20.5	21.4	1.0	0	20,235	40.9	29.8	29.4	30.3	1.0	0
2	16,920	69.4	49.6	48.8	50.4	1.2	2,647	10,290	40.8	26.0	25.5	26.5	1.2	2,003	26,210	52.9	36.3	35.8	36.7	1.2	4,650
3	18,525	76.3	59.7	58.8	60.5	1.4	5,693	12,140	47.8	31.1	30.5	31.7	1.5	3,972	30,665	61.7	43.3	42.9	43.8	1.5	9,666
4	21,525	88.3	76.3	75.3	77.3	1.8	9,866	14,719	57.6	40.7	40.0	41.3	1.9	7,143	36,244	72.6	55.8	55.3	56.4	1.9	17,008
Most deprived	24,361	99.2	100.6	99.4	101.9	2.4	14,345	17,024	66.4	56.9	56.0	56.7	2.7	10,647	41,375	82.5	75.2	74.5	75.9	2.5	24,993
Overall	**92,895**	**76.1**	**63.7**	**63.3**	**64.1**			**61,864**	**48.8**	**34.0**	**33.8**	**34.3**			**154,729**	**62.2**	**46.9**	**46.6**	**47.1**		





Cohort	Est. Deprivation Gap (Difference in ASR)	95% Confidence Interval		Modelled %Change	P-value for Trend
1995-1999	65.5	46.0 -	85.1	185%	0.002
2000-2004	62.4	37.5 -	87.4	182%	0.004

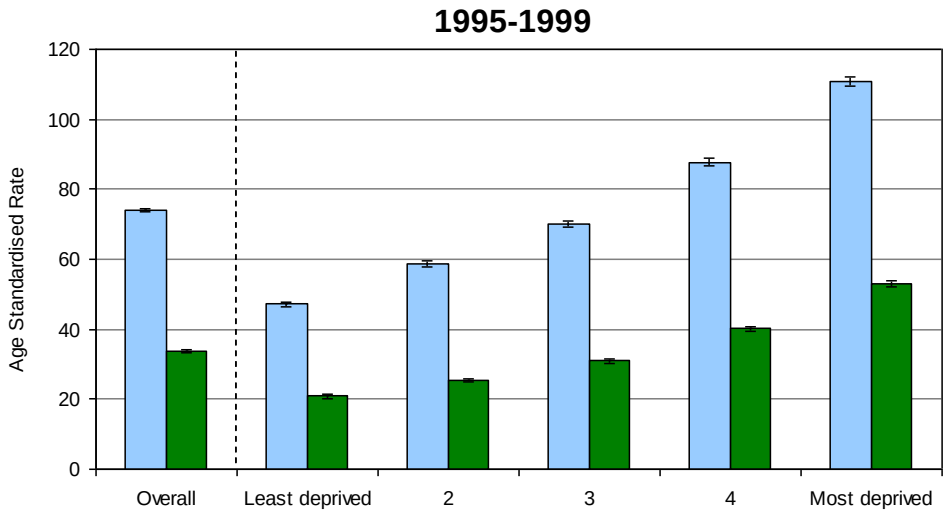
Cohort	Est. Deprivation Gap (Difference in ASR)	95% Confidence Interval		Modelled % Change	P-value for Trend
1995-1999	33.8	20.7 -	46.9	196%	0.004
2000-2004	36.8	20.3 -	53.3	222%	0.008

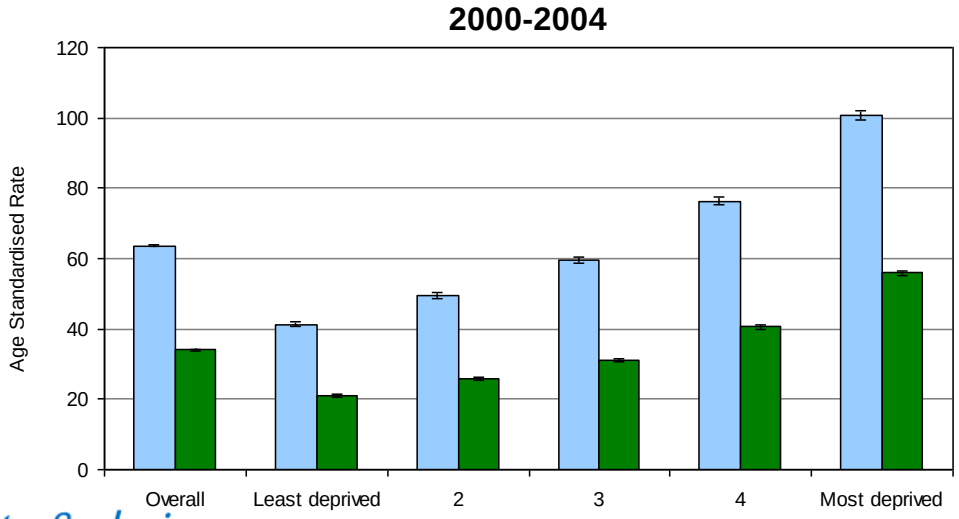
Cohort	Est. Deprivation Gap (Difference in ASR)	95% Confidence Interval		Modelled % Change	P-value for Trend
1995-1999	47.4	31.1 -	63.7	171%	0.003
2000-2004	47.7	27.2 -	68.3	196%	0.005

CRI tional ncer search titute

C33-C34: Lung cancer 2000 - 2004 by deprivation

NCIN national cancer intelligence network





Using information to improve quality & choice

NCRI National Cancer Research Institute

Expert analyses

- Cancer eAtlas: - launched July 2008 www.ncin.org.uk/eatlas
  - Large and varied interest
  - International recognition
- Reports on:
  - UK incidence & mortality
  - One year survival
  - Deprivation
  - Prevalence
  - Ethnicity
  - Surgical treatment rates (‘mid’ 2010)
- Microsites

Detailed “Microsites”

NCIN national cancer intelligence network

Back

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Major LGIT Surgical Procedures: Any Diagnosis
Procedures by Network of Trust and Consultant (Provider Based Analysis)

HES Cancer Data Extract 9 (1997/08 - 2006/07)

		1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007	Grand Total
East Kent Hospitals NHS Trust	⊞ Colectomy	162	178	163	174	158	144	145	148	142	139	1,553
	⊞ Excision of Rectum	98	137	106	117	84	136	121	142	123	146	1,210
	Trust Total	260	315	269	291	242	280	266	290	265	285	2,763
Maidstone and Tunbridge Wells NHS Trust	⊞ Colectomy	83	101	100	98	89	99	96	79	107	111	963
	⊞ Excision of Rectum	59	99	71	77	63	72	72	72	72	86	743
	Trust Total	142	200	171	175	152	171	168	151	179	197	1,706
Medway NHS Foundation Trust	⊞ Colectomy	49	63	50	71	63	66	74	67	59	48	610
	⊞ Excision of Rectum	49	48	49	39	49	52	49	60	63	63	521
	Trust Total	98	111	99	110	112	118	123	127	122	111	1,131
Dartford and Gravesham NHS Trust	⊞ Colectomy	33	42	42	49	47	43	52	46	47	48	449
	⊞ Excision of Rectum	37	16	24	37	36	27	35	38	41	49	340
	Trust Total	70	58	66	86	83	70	87	84	88	97	789
Grand Total		570	684	605	662	589	639	644	652	654	690	6,389

..with detailed “drill through”

NCIN national cancer intelligence network

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Major LGIT Surgical Procedures: Any Diagnosis
Procedures by Network of Trust and Consultant (Provider Based Analysis)

HES Cancer Data Extract 9 (1997/08 - 2006/07)

			1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007	Grand Total
East Kent Hospitals NHS Trust	⊞ Colectomy		162	178	163	174	158	144	145	148	142	139	1,553
	⊞ Excision of Rectum		98	137	106	117	84	136	121	142	123	146	1,210
	Trust Total		260	315	269	291	242	280	266	290	265	285	2,763
Maidstone and Tunbridge Wells NHS Trust	⊟ Colectomy	C[illegible]	37	28	37	30	34	32	40	33	57	50	378
		C[illegible]	10	23	15	23	22	19	14	11	20	22	179
		C14[illegible]	10	8	10	17	10	18	21	8	15	9	126
		C1[illegible]	12	13	13	7	4	7	5	3	2		66
		C1[illegible]	8	13	8	5	7	9	3	8	2		63
		C[illegible]	4	11	9	3	6	4	5	4	3	3	52
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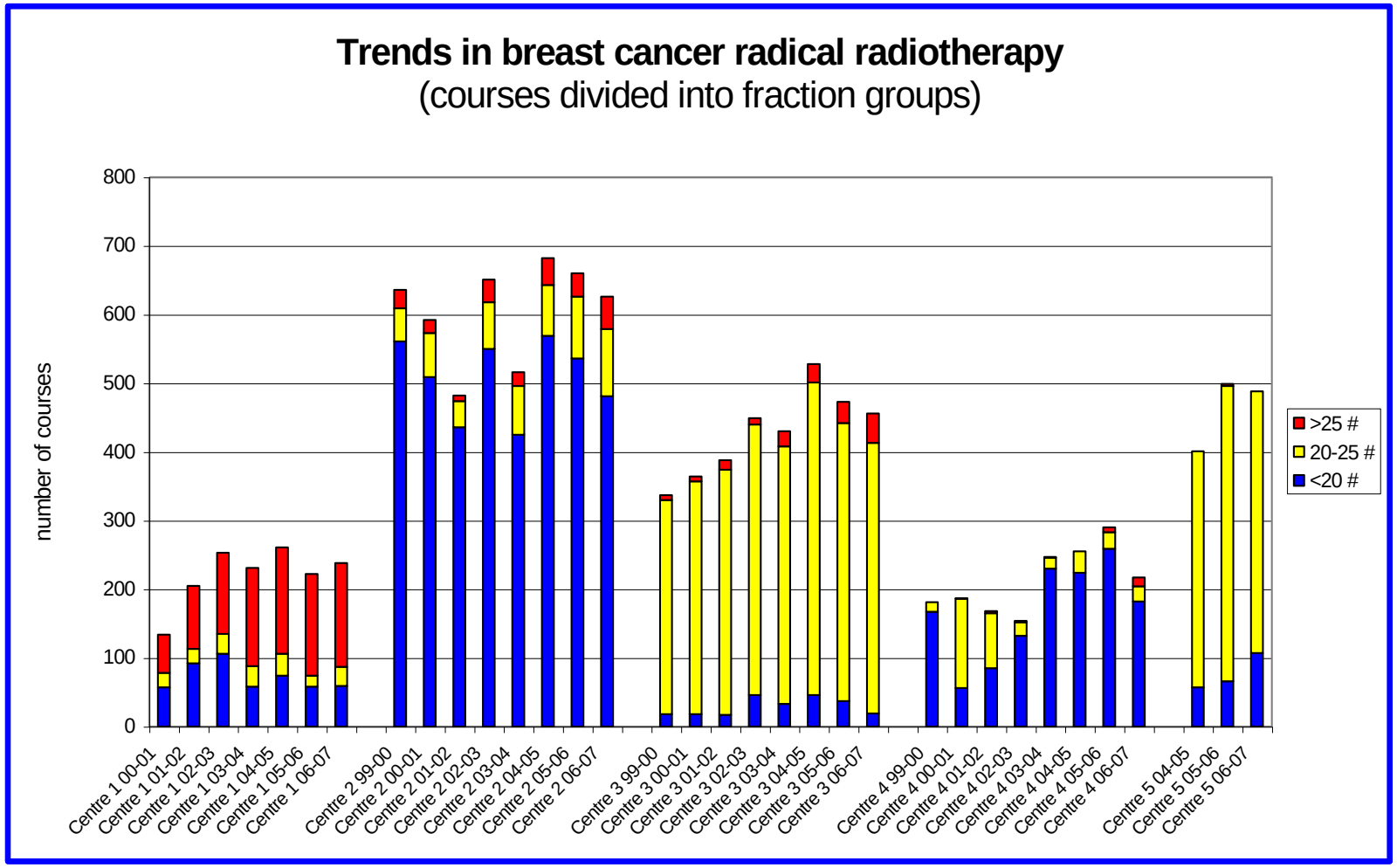
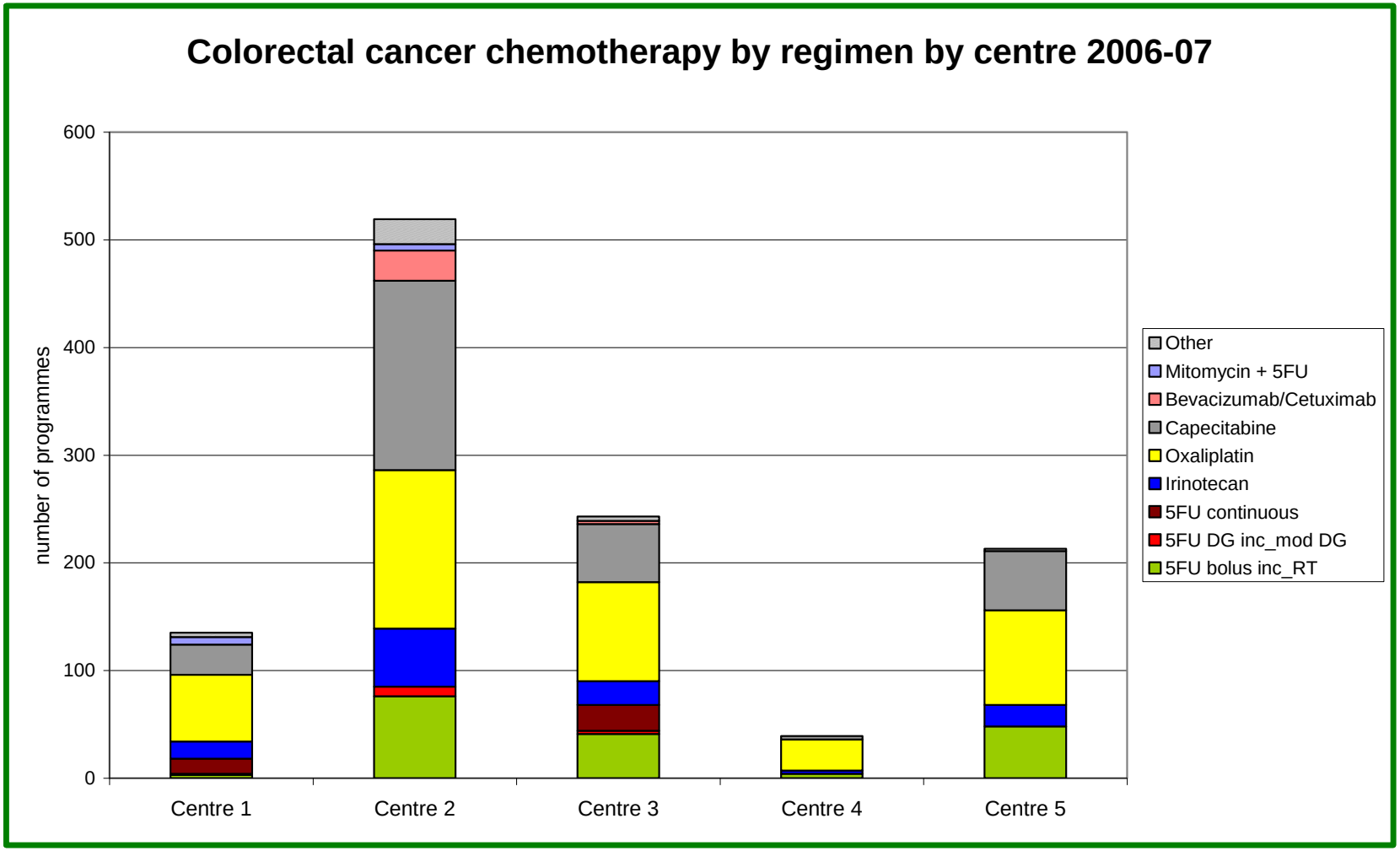
		C[illegible]					3	7	4	8	3		25
		C[illegible]										21	21
		C3[illegible]	2	2	1	3	1	1	2	4		1	17
		C[illegible]									3	2	5
		C[illegible]										1	1
		C[illegible]										1	1
		[illegible]										1	1
	⊞ Excision of Rectum		59	99	71	77	63	72	72	72	72	86	743
	Trust Total		142	200	171	175	152	171	168	151	179	197	1,706
Medway NHS Foundation Trust	⊞ Colectomy		49	63	50	71	63	66	74	67	59	48	610
	⊞ Excision of Rectum		49	48	49	39	49	52	49	60	63	63	521
	Trust Total		98	111	99	110	112	118	123	127	122	111	1,131

Links with treatment data



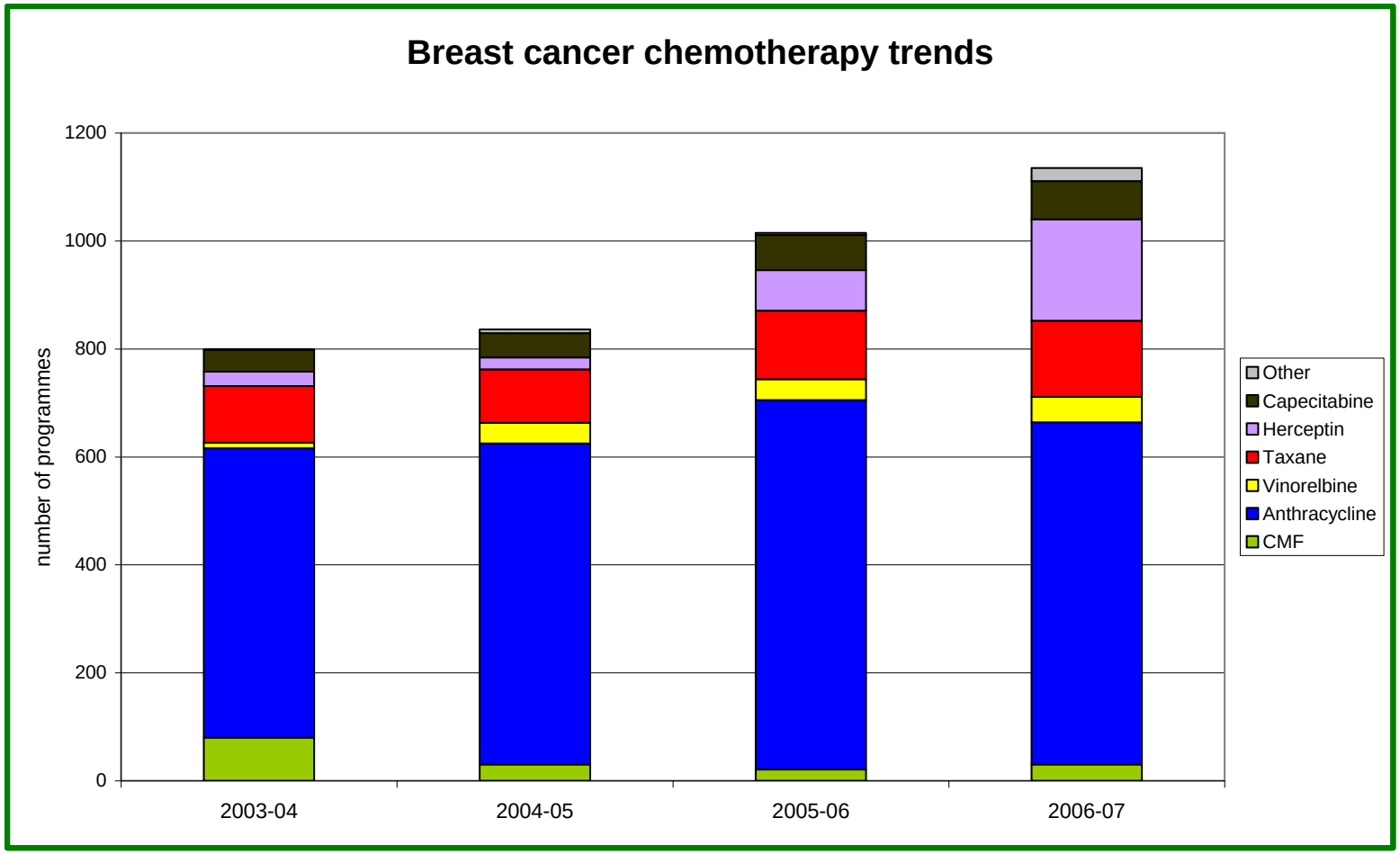
Source: Monica Roche: Oxford Cancer Intelligence Unit

Links with treatment data



Source: Monica Roche: Oxford Cancer Intelligence Unit

Links with treatment data



Source: Monica Roche: Oxford Cancer Intelligence Unit

Scientific Advisory Group

- Agree analytical methodologies – including the identification of outliers
- To review the ‘scientific’ content of NCIN reports
- To advise on the commissioning of methodological research
- To advise on Peer Review of analytical and research proposals put to the NCIN
- To liaise with the UKACR and other analytical bodies to, common approaches to the analysis and reporting of results

Drivers for change

- Cancer Peer Review (‘*Clinical Lines of Enquiry*’)
- CQC ‘Annual Health Check’
- Peer pressure
- Voluntary sector pressure
- Cancer Reform Strategy
- DH ‘Quality agenda’ (*Quality Accounts*)
- Commissioning
- National Guidelines
- Patient choice

Drivers for change

- Cancer Peer Review
- CQC ‘Annual Health Check’
- Peer pressure
- Voluntary sector pressure
- Cancer Reform Strategy
- DH ‘Quality agenda’
- Commissioning
- National Guidelines
- Patient choice

+ Data

Clinical Outcomes Group

Using information to improve quality & choice

Clinical Outcomes Group: Main purposes

- To provide a strategic link between the NCIN & the National Cancer Action Team
- To oversee & support the development of Peer Review
- To link between those producing data and those responsible for improving the quality of care
- To identify what data is required to support the strategic development of cancer services
- To support' intelligent commissioning'
- To promote the use of outcome data in service improvement
- To support the implementation of NICE guidance
- To support the development of care pathways

Using information to improve quality & choice

Clinical Outcomes Group: Members

- NCIN
- National Cancer Action Team
- Peer Review Team
- DH Cancer Policy Team
- DH Quality Team
- SHA rep
- Specialist commissioner
- Network Director
- NHS Improvement
- NHS Information Centre
- NICE
- CQC

NCIN

national cancer intelligence network

Using information to improve quality & choice

www.ncin.org.uk

NCRI
National Cancer Research Institute