Primary Care and Cancer Matters

New Place Management Centre,
Shirrell Heath
Southampton SO32 2JY

Dr Richard Roope
RCGP and Cancer Research UK Cancer Clinical Champion
Senior Clinical Advisor Cancer Research UK
@DrRichardRoope
GP Trainers' Workshop

Housekeeping

- Fire Exits
- Toilets
- Mobile phones
- Questions
- Certificates
- Thanks to the team who have set up the day:
  - RCGP, HEE and Cancer Research UK Team
  - New Place Management Centre Staff
GP Trainers' Workshop: The Day

- Primary Care and Cancer Matters. Where are we now and where are we heading?
  - Tea and Coffee
- Primary Care Role in Cancer Prevention
  - Lunch and networking
- Early Diagnosis of Cancer Recognition and Referral of Suspected Cancer (NICE Guidelines 12)
- Analysis of Learning Events (SEAs) and Educational Tools for Trainers
- Key take home learning, reflections and evaluation
GP Trainers’ Workshop:

Aims for the day...

And meet the regional CRUK team
GP Trainers’ Workshop: What are GPs there for?
GP Trainers’ Workshop: What are GPs there for?

Discuss with your neighbour...
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Early Diagnosis for GP trainers. What are GPs there for?
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Early Diagnosis for GP trainers. What are GPs there for?
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Primary Care and Cancer Matters
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Primary Care and Cancer Matters

• Cancer: why all the interest?
• Why is prevention important?
• Why is early diagnosis important?
• Past – where were we?
• Present – where are we?
• Future – where next?
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Cancer: Why all of the interest
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Cancer: why all the interest?

Causes of death <75

1. Cancer
2. Circulatory Disease
3. Liver
4. Respiratory
5. Other
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Cancer: why all the interest?

Causes of death <75

1. Cancer
2. Other
3. Circulatory Disease
4. Liver
5. Respiratory

Which do you think is the correct column? (high to low)
# GP Trainers' Workshop

## Cancer: why all the interest?

### Causes of death <75

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>1.</td>
<td>Cancer</td>
<td>Circulatory Disease</td>
<td>Cancer</td>
<td>Circulatory Disease</td>
</tr>
<tr>
<td>2.</td>
<td>Other</td>
<td>Liver</td>
<td>Other</td>
<td>Liver</td>
</tr>
<tr>
<td>3.</td>
<td>Circulatory Disease</td>
<td>Liver</td>
<td>Respiratory</td>
<td>Respiratory</td>
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<tr>
<td>4.</td>
<td>Liver</td>
<td>Respiratory</td>
<td>Respiratory</td>
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<tr>
<td>5.</td>
<td>Respiratory</td>
<td>Other</td>
<td>Other</td>
<td>Other</td>
</tr>
</tbody>
</table>

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*RCGP Royal College of General Practitioners*
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Cancer: why all the interest?

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Cancer: why all the interest?

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Why all the interest?

- Globocan 2018 <70 deaths: cancer ranking
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Cancer: why all the interest?

Age standardised death rates in England and Wales 2001-2017 (All Age)

https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriage/s/deaths/bulletins/deathsregistrationsummarytables/2017 (last accessed 5.6.19)
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Cancer: why all the interest?

Age standardised death rates in England and Wales 2001-2017 (All Age)

2011 – Cancer became the leading cause of death in UK

https://www.ons.gov.uk/peoplepopulationandcommunity/birthsdeathsandmarriage/s/deaths/bulletins/deathsregistrationsummarytables/2017 (last accessed 5.6.19)
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Cancer: why all the interest?

Number of coronary artery bypass operations and percutaneous coronary interventions per year, UK 1980–2013.


https://heart.bmj.com/content/102/24/1945 (last accessed 5.6.19)
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Cancer – why all the interest?

The Future:
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The perfect storm:
GP Trainers' Workshop

The perfect storm:
GP Trainers' Workshop

The Scale of the Challenge:

The perfect storm...
GP Trainers' Workshop

The Scale of the Challenge:

The perfect storm...

Aging population
GP Trainers' Workshop

Aging Population

## GP Trainers' Workshop

### Aging Population: Centenarians

<table>
<thead>
<tr>
<th></th>
<th>2013</th>
<th>2063</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Male</td>
<td>2,242</td>
<td>43,689</td>
<td>19.5</td>
</tr>
<tr>
<td>Female</td>
<td>12,328</td>
<td>66,359</td>
<td>5.4</td>
</tr>
<tr>
<td>TOTAL</td>
<td>14,750</td>
<td>110,048</td>
<td>7.5</td>
</tr>
</tbody>
</table>


[https://visual.ons.gov.uk/what-are-your-chances-of-living-to-100/](https://visual.ons.gov.uk/what-are-your-chances-of-living-to-100/) last accessed 5.6.19
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Aging Population - Centenarians

UK Centenarians

https://visual.ons.gov.uk/what-are-your-chances-of-living-to-100/ last accessed 5.6.19
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Aging and Cancer
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Aging and Cancer

Mortality from all cancers

http://www-dep.iarc.fr/WHOdb/Graph2p.asp?cancer=150&sex=1&country=4308&cYear=1950&eYear=2013&age=0&agegr=10&agen=9&orientation=1&window=1&grid=1&line=2&moving=1&scale=0&submit=%A0%A0%A0Execute%A0%A0%A0  last accessed 5.6.19
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Aging and Cancer

Mortality from all cancers

http://www-dep.iarc.fr/WHOdex/Graph2p.asp?cancer=150&sex=1&country=4308&Year=1950&eyear=2013&age=0&agegr=10&agen=9&orientation=1&window=1&grid=1&line=2&moving=1&scale=0&submit=%A0%A0%A0Execute%A0%A0%A0 last accessed 5.6.19
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The Scale of the Challenge:
The perfect storm...

Aging population

Lifestyles less healthy:
  • Smoking
  • Obesity
  • Diet
  • Alcohol
  • Exercise
  • Sun exposure
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The Scale of the Challenge:
The perfect storm...

Aging population

Lifestyles less healthy:

• Smoking
• Obesity
• Diet
• Alcohol
• Exercise
• Sun exposure

Increasing survival
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The perfect storm:

Numbers of cancers (ex NMSC)

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2040</th>
<th>% increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>401,507</td>
<td>538,481</td>
<td>34.1%</td>
</tr>
<tr>
<td>Global</td>
<td>17.0 million</td>
<td>27.5 million</td>
<td>61.7%</td>
</tr>
</tbody>
</table>

Source: [http://gco.iarc.fr/tomorrow/graphic-line?type=0&population=900&mode=population&sex=0&cancer=39&age_group=value&apc_male=0&apc_female=0#collapse-group-0-4](http://gco.iarc.fr/tomorrow/graphic-line?type=0&population=900&mode=population&sex=0&cancer=39&age_group=value&apc_male=0&apc_female=0#collapse-group-0-4) (Last accessed 5.6.19)
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Cancer: why all the interest?

1 in 2 people will be diagnosed with one or more cancers in their lifetime
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Cancer: why all the interest?

1 in 2 people will be diagnosed with one or more cancers in their lifetime
10 year survival has improved to reach 50%
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Cancer: why all the interest?

1 in 2 people will be diagnosed with one or more cancers in their lifetime

10 year survival has improved to reach 50%
Cancer: why all the interest?

1 in 2 people will be diagnosed with one or more cancers in their lifetime.

10 year survival has improved to reach 50%, but

Cancer survival in the UK still lags behind comparable health economies.
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Hasn’t cancer had its turn?
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Hasn’t cancer had its turn?

Cancer receives what proportion of NHS spend?

1. 2.0%
2. 5.0%
3. 8.0%
4. 11.0%
5. 14.0%

Discuss with your neighbour....
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Hasn’t cancer had its turn?

Cancer receives what proportion of NHS spend?

1. 2.0%
2. 5.0%
3. 8.0%
4. 11.0%
5. 14.0%

Discuss with your neighbour....
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€ per capita on cancer

Luxembourg: 168€
Switzerland: 128€

Royal College of General Practitioners

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5 Year Survival and per capita cancer spend

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Why is early diagnosis important?
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Why is early diagnosis important?

https://www.cancerresearchuk.org/health-professional/cancer-statistics/survival/all-cancers-combined#headingTwo  Accessed 5.6.19
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Minimum increased 5 year survival with 10% increase in stages 1 & 2

<table>
<thead>
<tr>
<th>Cancer Type</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colorectal</td>
<td>4.00%</td>
</tr>
<tr>
<td>Ovary</td>
<td>4.00%</td>
</tr>
<tr>
<td>Breast</td>
<td>3.80%</td>
</tr>
<tr>
<td>Endometrium</td>
<td>3.70%</td>
</tr>
<tr>
<td>Prostate</td>
<td>2.40%</td>
</tr>
<tr>
<td>Melanoma</td>
<td>2.30%</td>
</tr>
<tr>
<td>Lung</td>
<td>2.00%</td>
</tr>
<tr>
<td>Kidney</td>
<td>2.00%</td>
</tr>
<tr>
<td>Bladder</td>
<td>1.30%</td>
</tr>
<tr>
<td>NHL</td>
<td>0.20%</td>
</tr>
</tbody>
</table>

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Why is early diagnosis important?

• Cost
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Why is early diagnosis important?

http://www.cancerresearchuk.org/sites/default/files/saving_lives_averting_costs.pdf 5.6.19

= Estimated cost of treating a patient

*Rectal and Colon Cancer survival is based on bowel statistics
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Why is early diagnosis important?
GP Trainers' Workshop: Why is early diagnosis important?

**SURVIVAL BY STAGE AT DIAGNOSIS**

- **DIAGNOSED EARLIER**
  - AT STAGE I
  - AROUND 8 IN 10

- **DIAGNOSED LATER**
  - AT STAGE IV
  - LESS THAN 2 IN 10

Data for people diagnosed in England in 2014

Source: ONS/PHE, Cancer survival by stage at diagnosis for England (experimental statistics)

http://www.cancerresearchuk.org/sites/default/files/saving_lives_ averting_costs.pdf 5.6.19
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How have we done?
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How have we done?

Avoidable deaths pa if survival in England matched the best in Europe

<table>
<thead>
<tr>
<th>Cancer Type</th>
<th>Avoidable Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breast</td>
<td>2000</td>
</tr>
<tr>
<td>Myeloma</td>
<td>250</td>
</tr>
<tr>
<td>Colorectal</td>
<td>1700</td>
</tr>
<tr>
<td>Endometrial</td>
<td>250</td>
</tr>
<tr>
<td>Lung</td>
<td>1300</td>
</tr>
<tr>
<td>Leukaemia</td>
<td>240</td>
</tr>
<tr>
<td>Oesophago-gastric</td>
<td>950</td>
</tr>
<tr>
<td>Brain</td>
<td>225</td>
</tr>
<tr>
<td>Kidney</td>
<td>700</td>
</tr>
<tr>
<td>Melanoma</td>
<td>190</td>
</tr>
<tr>
<td>Ovary</td>
<td>500</td>
</tr>
<tr>
<td>Cervix</td>
<td>180</td>
</tr>
<tr>
<td>NHL/HD</td>
<td>370</td>
</tr>
<tr>
<td>Oral/Larynx</td>
<td>170</td>
</tr>
<tr>
<td>Bladder</td>
<td>290</td>
</tr>
<tr>
<td>Pancreas</td>
<td>75</td>
</tr>
</tbody>
</table>

Avoidable deaths pa if survival in England matched the best in Europe.
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How have we done?
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How have we done?
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How have we done?

• Research stream
• Primary Care Engagement
• Input to Cancer Network and SCNs
• RCGP Education Events
  • etc
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How have we done?
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How have we done?

Deaths In England per Standardised 100,000 <75s from 2011-13 to 2014-2016:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cancer</td>
<td>144.4</td>
<td>141.5</td>
<td>138.8</td>
<td>136.8</td>
<td>134.6</td>
</tr>
<tr>
<td>Heart disease and stroke</td>
<td>77.8</td>
<td>75.7</td>
<td>74.6</td>
<td>73.5</td>
<td>72.5</td>
</tr>
<tr>
<td>Lung disease</td>
<td>33.2</td>
<td>32.6</td>
<td>33.1</td>
<td>33.8</td>
<td>34.3</td>
</tr>
<tr>
<td>Liver disease</td>
<td>17.9</td>
<td>17.8</td>
<td>18.0</td>
<td>18.3</td>
<td>18.5</td>
</tr>
<tr>
<td>Other</td>
<td>69.2</td>
<td>69.5</td>
<td>70.5</td>
<td>71.5</td>
<td>72.1</td>
</tr>
</tbody>
</table>
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How have we done?

Deaths In England per Standardised 100,000 <75s from 2011-13 to 2014-2016:

<table>
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</thead>
<tbody>
<tr>
<td>Cancer</td>
<td>144.4</td>
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<td>134.6</td>
<td>-6.8%</td>
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<td>18.0</td>
<td>18.3</td>
<td>18.5</td>
<td>3.4%</td>
</tr>
<tr>
<td>Other</td>
<td>69.2</td>
<td>69.5</td>
<td>70.5</td>
<td>71.5</td>
<td>72.1</td>
<td>4.2%</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2.9%</td>
</tr>
</tbody>
</table>

4,897 less premature cancer deaths per year
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How have we done?

Conversion Rate

Detection Rate

https://fingertips.phe.org.uk/profile/cancerservices  Accessed 5.6.19
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How have we done?

Routes to Cancer Diagnosis - Numbers

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How have we done?

Routes to Cancer Diagnosis - Numbers

- ↑84.0%
- ↓4.2%
- ↑51.3%

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How have we done?

<table>
<thead>
<tr>
<th>Month</th>
<th>Emergency Diagnosis %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec-12</td>
<td>21.0%</td>
</tr>
<tr>
<td>Mar-13</td>
<td>21.0%</td>
</tr>
<tr>
<td>Jun-13</td>
<td>20.8%</td>
</tr>
<tr>
<td>Sep-13</td>
<td>20.5%</td>
</tr>
<tr>
<td>Dec-13</td>
<td>20.4%</td>
</tr>
<tr>
<td>Mar-14</td>
<td>20.3%</td>
</tr>
<tr>
<td>Jun-14</td>
<td>20.2%</td>
</tr>
<tr>
<td>Sep-14</td>
<td>20.2%</td>
</tr>
<tr>
<td>Dec-14</td>
<td>20.2%</td>
</tr>
<tr>
<td>Mar-15</td>
<td>20.1%</td>
</tr>
<tr>
<td>Jun-15</td>
<td>20.1%</td>
</tr>
<tr>
<td>Sep-15</td>
<td>20.0%</td>
</tr>
<tr>
<td>Dec-15</td>
<td>19.9%</td>
</tr>
<tr>
<td>Mar-16</td>
<td>19.9%</td>
</tr>
<tr>
<td>Jun-16</td>
<td>19.7%</td>
</tr>
<tr>
<td>Sep-16</td>
<td>19.8%</td>
</tr>
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<td>Dec-16</td>
<td>19.7%</td>
</tr>
<tr>
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<tr>
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<td>19.2%</td>
</tr>
<tr>
<td>Dec-17</td>
<td>19.1%</td>
</tr>
<tr>
<td>Mar-18</td>
<td>19.1%</td>
</tr>
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<td>Jun-18</td>
<td>18.8%</td>
</tr>
</tbody>
</table>

http://www.ncin.org.uk/cancer_type_and_topic_specific_work/topic_specific_work/cancer_outcome_metrics (last accessed 5.6.19)
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How have we done?

<table>
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</tbody>
</table>

http://www.ncin.org.uk/cancer_type_and_topic_specific_work/topic_specific_work/cancer_outcome_metrics (last accessed 5.6.19)
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How have we done?

<table>
<thead>
<tr>
<th>Date</th>
<th>Early Stage Diagnosis</th>
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<tbody>
<tr>
<td>Sep-13</td>
<td>46.0%</td>
</tr>
<tr>
<td>Dec-13</td>
<td>47.0%</td>
</tr>
<tr>
<td>Mar-14</td>
<td>48.0%</td>
</tr>
<tr>
<td>Jun-14</td>
<td>49.0%</td>
</tr>
<tr>
<td>Sep-14</td>
<td>50.0%</td>
</tr>
<tr>
<td>Dec-14</td>
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<tr>
<td>Mar-15</td>
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<td>Jun-15</td>
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<td>Jun-16</td>
<td>52.4%</td>
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<tr>
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Ambition by 2028 and beyond

Proportion of staged cancers diagnosed at stage 1&2, England

NHS England ambition
CRUK ambition
Current trajectory

Royal College of General Practitioners
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PHE Press release 16.9.15:

“Cancers are being diagnosed earlier in England”

(last accessed 5.6.19)
ONS Press release 29.11.17:

Figure 1: Funnel plot of the one-year survival index (%) for all cancers combined, for Clinical Commissioning Groups (CCG): England

Adults (aged 15 to 99 years) diagnosed in 2000 and in 2015

ONS Press release 29.11.17:

“The inequality gap in the cancer survival index between the highest and lowest CCG in England has shrunk since 2000.”

“As for CCGs, the inequality gap between the highest and lowest STP in England has reduced since 2000, having halved for STPs over this period.”

However compared to Europe?
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However compared to Europe?

LATEST CANCER SURVIVAL FIGURES

ENGLAND FIGURES COMPARED TO COUNTRIES WITH SIMILAR HEALTHCARE SYSTEMS


% OF ADULTS SURVIVING THEIR CANCER FIVE YEARS OR MORE AFTER DIAGNOSIS

LUNG CANCER OVARIAN CANCER BREAST CANCER

AUSTRALIA CANADA DENMARK ENGLAND NORWAY SWEDEN

The latest data show England continues to improve...

but we don't yet know how the other countries compare.

http://scienceblog.cancerresearchuk.org/2015/08/05/cancer-survival-in-england-is-improving-but-still-lagging-behind-similar-countries/
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However compared to Europe?

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The latest data show England continues to improve... 

...but we don't yet know how the other countries compare.
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Why do we lag behind other Health Systems?
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Why do we lag behind other Health Systems?

• International Cancer Benchmarking Partnership

• As gatekeepers – the gate needs to be wider
• Outcomes closely linked to “readiness to act”
• Patients fear wasting GP time

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Gate openers...
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- Cancer Strategy 2015-2020 has three core aims:

1. Save thousands more lives
2. Transform patient experience and quality of life
3. Invest now to save later

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- Cancer Strategy 2015-2020 has three core aims:

1. Save thousands more lives
   - Early diagnosis
     - Enhance screening uptake
     - Implement NICE Guidance (NG12)
     - Invest in diagnostic capacity
     - Direct access to diagnostic capacity
     - 28 days to diagnosis (to replace 2WW)
     - Education – Undergraduate, postgraduate, CPD
Cancer Strategy 2015-2020 has three core aims:

1. Save thousands more lives
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- Cancer Strategy 2015-2020 has three core aims:
  1. Save thousands more lives
  2. Transform patient experience and quality of life
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• Cancer Strategy 2015-2020 has three core aims:

1. Save thousands more lives
2. Transform patient experience and quality of life

Early diagnosis determines experience throughout whole cancer pathway

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• Cancer Strategy 2015-2020 has three core aims:

1. Save thousands more lives
2. Transform patient experience and quality of life
3. Invest now to save later
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• Cancer Strategy 2015-2020 has three core aims:

  1. Save thousands more lives
  2. Transform patient experience and quality of life
  3. Invest now to save later

• Investing in early diagnosis will save money...
The expanding role of primary care in cancer control

“For a long time, the role of primary care in cancer was largely seen as peripheral, but as prevention, diagnosis, survivorship, and end-of-life care assume greater importance in cancer policy, the defining characteristics of primary care become more important.”
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Prevention
- Tobacco
- Food
- Immunisations
- Exercise
- Environment

Early detection
- Awareness
- Health care seeking
- Screening
- Access

Diagnosis
- Investigations
- Access
- Technology
- Decision support

Treatment
- Surgery
- Chemotherapy
- Radiotherapy
- Comorbidity
- Psychology

Survivorship
- Follow-up
- Late effects
- Rehabilitation
- Health promotion

End of life
- Basic palliation
- Specialised
- Social
- Bereavement

Royal College of General Practitioners
Cancer Research UK
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Prevention
- Tobacco
- Food
- Immunisations
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- Follow-up
- Late effects
- Rehabilitation
- Health promotion

End of life
- Basic palliation
- Specialised
- Social
- Bereavement
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Value in investing in early diagnosis:

- **Why?** To address our lowly cancer outcomes rank
- **How?** To lower threshold/readiness to refer with consistency: Right patient, right place, right time
- **When?** Now
How?

- Bowel Cancer – survival improving:

**BOWEL CANCER MORTALITY RATES HAVEFallen 31% OVER 20 YEARS**

BOWEL CANCER MORTALITY RATES PER 100,000 POPULATION
EUROPEAN AGE-STANDARDISED RATES, UK 1995–2015

LET’S BEAT CANCER SOONER
cruk.org

Royal College of General Practitioners

CANCER RESEARCH UK
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- Importance of bowel screening
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Net survival estimates by presentation route and survival time, Colorectal, 2010-2014

http://www.ncin.org.uk/home (accessed 5.6.19)
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Net survival estimates by presentation route and survival time, Colorectal, 2010-2014

http://www.ncin.org.uk/home (accessed 5.6.19)
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• Importance of bowel screening
  • Screening presentations – hugely better outcomes
  • Should be area of priority
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• Importance of bowel screening

• Role of GP Endorsement – increases uptake by 8%¹

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• Importance of bowel screening
  • Role of GP Endorsement – increases uptake by 8%\(^1\)
  • Rolled out by some Screening Hubs
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National Cancer Diagnosis Audit – Findings:
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National Cancer Diagnosis Audit – Findings:

- Data was completed on 17,064 tumour records
- 439 practices submitted data
- Number of records per practice ranged from 1 to 156
- Median number of records was 34
- 139 CCGs had at least one practice that submitted data
- 6 CCGs have 10+ practices participating
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NCDA findings:

<table>
<thead>
<tr>
<th>Cancer Type</th>
<th>NCDA</th>
<th>CRUK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breast</td>
<td>15.9%</td>
<td>15.2%</td>
</tr>
<tr>
<td>Lung</td>
<td>12.5%</td>
<td>12.8%</td>
</tr>
<tr>
<td>Prostate</td>
<td>12.5%</td>
<td>12.9%</td>
</tr>
<tr>
<td>Colorectal</td>
<td>11.6%</td>
<td>11.4%</td>
</tr>
<tr>
<td>Melanoma</td>
<td>4.9%</td>
<td>4.3%</td>
</tr>
<tr>
<td>NHL</td>
<td>3.9%</td>
<td>3.8%</td>
</tr>
<tr>
<td>Kidney</td>
<td>3.7%</td>
<td>3.5%</td>
</tr>
<tr>
<td>H+N</td>
<td>3.0%</td>
<td>3.2%</td>
</tr>
<tr>
<td>Bladder</td>
<td>2.9%</td>
<td>2.8%</td>
</tr>
<tr>
<td>Leukaemia</td>
<td>2.7%</td>
<td>2.6%</td>
</tr>
<tr>
<td>Pancreas</td>
<td>2.7%</td>
<td>2.7%</td>
</tr>
<tr>
<td>Oesophagus</td>
<td>2.6%</td>
<td>2.5%</td>
</tr>
<tr>
<td>Uterus</td>
<td>2.3%</td>
<td>2.6%</td>
</tr>
<tr>
<td>Ovary</td>
<td>2.1%</td>
<td>2.0%</td>
</tr>
<tr>
<td>Stomach</td>
<td>1.8%</td>
<td>1.8%</td>
</tr>
<tr>
<td>CNS</td>
<td>1.6%</td>
<td>3.0%</td>
</tr>
<tr>
<td>Liver</td>
<td>1.6%</td>
<td>1.5%</td>
</tr>
<tr>
<td>Myeloma</td>
<td>1.6%</td>
<td>1.5%</td>
</tr>
<tr>
<td>Cervix</td>
<td>0.8%</td>
<td>0.9%</td>
</tr>
<tr>
<td>Other</td>
<td>9.2%</td>
<td>9.1%</td>
</tr>
</tbody>
</table>
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NCDA findings

![Bar chart showing proportion of patients by cancer stage and stage unknown for all cancers among 17,945 patients.](chart.png)
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NCDA findings

All cancers
17,045 patients

Proportion of patients [%]

<table>
<thead>
<tr>
<th>Cancer stage</th>
<th>Early (stages 0,1&amp;2)</th>
<th>Late (stages 3&amp;4)</th>
<th>Not known</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proportion</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>[Bar chart showing proportions]</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

England Stage at diagnosis 2010-2014

- Stages 1 and 2: 45%
- Stages 3 and 4: 35%
- Unknown: 20%
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NCDA findings – all are “pre-NG12”

All cancers
17,045 patients

Proportion of patients [%]

Early (stages 0, 1 & 2) Late (stages 3 & 4) Not known

England Stage at diagnosis 2010-2014
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NCDA findings:
Consultations prior to referral (where recorded)
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NCDA findings:
Consultations prior to referral (where recorded)

Number of consultations prior to referral

- <3: 78%
- ≥3: 22%
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NCDA findings:
Presentation to referral time:
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NCDA findings:
Presentation to referral time:

<table>
<thead>
<tr>
<th></th>
<th>5th centile</th>
<th>25th centile</th>
<th>Median</th>
<th>75th centile</th>
<th>95th centile</th>
</tr>
</thead>
<tbody>
<tr>
<td>All cancers</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>27</td>
<td>159</td>
</tr>
<tr>
<td>Breast</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>30</td>
</tr>
<tr>
<td>Colorectal</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>27</td>
<td>182</td>
</tr>
<tr>
<td>Lung</td>
<td>0</td>
<td>2</td>
<td>14</td>
<td>46</td>
<td>180</td>
</tr>
<tr>
<td>Prostate</td>
<td>0</td>
<td>1</td>
<td>11</td>
<td>32</td>
<td>234</td>
</tr>
</tbody>
</table>
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NCDA findings:
Presentation to referral time:

All cancers
Each dot represents one record

Days from presentation to referral
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NCDA findings: Place of presentation
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NCDA findings:
Place of presentation

[Diagram showing the place of first presentation with different categories and percentages]
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NCDA findings:
Types of referrals
(of those recoded)
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NCDA findings:
Types of referrals
(of those recoded)
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NCDA findings:
Types of referrals (of those recoded)

<table>
<thead>
<tr>
<th>Description</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Patient self-referred - no prior consultation</td>
<td>4.2%</td>
</tr>
<tr>
<td>Referred as emergency by GP - no prior consultation</td>
<td>3.2%</td>
</tr>
<tr>
<td>Patient self-referred while waiting for tests</td>
<td>1.8%</td>
</tr>
<tr>
<td>Referred as emergency by GP while waiting for tests</td>
<td>1.4%</td>
</tr>
<tr>
<td>Patient self-referred - previously seen in same episode</td>
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<tr>
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<td>3.0%</td>
</tr>
<tr>
<td>Other</td>
<td>0.7%</td>
</tr>
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</table>
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NCDA findings:

Types of referrals (of those recoded)

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2019 NCDA:
18.2.19 opened for registration:
https://www.cancerresearchuk.org/health-professional/diagnosis/national-cancer-diagnosis-audit
Only via an N3 connection
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- NG12 - Suspected cancer: recognition and referral
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• NG12 - Suspected cancer: recognition and referral

• This afternoon
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- Safety netting
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• Safety netting

• This afternoon
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- Value in investing in early diagnosis:
  - Results?
    - Better medicine – earlier diagnosis (not just of cancer)
    - Fewer consultations
    - Better outcomes
    - Less complaints/litigation
    - Less £££
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Key to early diagnosis of cancer
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Key to early diagnosis of cancer

Education
Education
Education
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Key to early diagnosis of cancer

Education - public
Education - patients
Education - profession
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Key to early diagnosis of cancer

Education - public
Education - patients
Education - profession
Education - policy makers
Education - politicians
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• Earlier Diagnosis of Cancer
  • Cancer: why all the interest?
  • Why is it important?
  • How have we done?
  • How could we do even better?
The ones who are crazy enough to think they can change the world, are the ones who do.
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The ones who are crazy enough to think they can change the world, are the ones who do.

Steve Jobs 1955-2001
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Our common goal?
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Our common goal?
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Our common goals?
75% cancer cases to be diagnosed at an early stage by 2028
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One person can make a difference, and everyone should try.
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One person can make a difference, and everyone should try.

John F Kennedy 1917-1963
Any questions?