Does socio-economic deprivation increase the chance of death in hospital for cancer patients?

Andy Pring

15 June 2011

Do social factors affect where patients die: an analysis of 10 years of cancer deaths in England

Irene Higginson, Brian Jarman, Paul Astin and Susan Dolan


Where do cancer patients die?

West Midlands Cancer Intelligence Unit R11/02 (April 2011)
**Methods**

Public Health Annual Mortality Extract - ONS
Deaths of people resident in England
Registered between 2007-09
Income domain IMD 2007

**Death in hospital**
**All causes**

<table>
<thead>
<tr>
<th>Location</th>
<th>Percentage of deaths</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospital</td>
<td>60%</td>
<td>266,060</td>
</tr>
<tr>
<td>Own Residence</td>
<td>10%</td>
<td>93,709</td>
</tr>
<tr>
<td>Residential and nursing</td>
<td>20%</td>
<td>75,917</td>
</tr>
<tr>
<td>homes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hospice</td>
<td>40%</td>
<td>24,148</td>
</tr>
<tr>
<td>Elsewhere</td>
<td>50%</td>
<td>9,090</td>
</tr>
</tbody>
</table>

England 2007-09
Death in hospital

England 2007-09

Deaths from cancer,
Place of death and social deprivation

England 2007-09
Deaths in hospital from cancer
By cancer site and social deprivation

Deaths from cancer
By gender and social deprivation
Deaths from cancer
By age and social deprivation

England 2007-09

Deaths from cancer, By government office region and social deprivation

England 2007-09
Deaths from cancer
By hospital type and social deprivation

Percentage of deaths in hospital

<table>
<thead>
<tr>
<th></th>
<th>Least deprived</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>Most Deprived</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community, specialist and other hospitals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute hospital</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

England 2007-09

Deaths from cancer
By local authority type and social deprivation

Percentage of deaths in hospital

<table>
<thead>
<tr>
<th></th>
<th>Least deprived</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>Most deprived</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA with no acute H</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LA with acute H</td>
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<td></td>
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</tr>
</tbody>
</table>

England 2007-09

Work in progress
Deaths from cancer
Age, sex, Cause of death Standardised rates

Percentage of cancer deaths in hospital

Average annual total deaths

Why?

Does it matter?
YES - Social deprivation increases the chance of dying in hospital for cancer patients

Why?

Access to Resources

- Social care
- Support family, friends
- Residential circumstance
- Financial circumstance

Campbell, Grande, Wilson, Caress & Roberts: Exploring differences in referrals to a hospice at home service in two socio-economically distinct areas of Manchester. *Palliative Medicine* 2009 0(00) 1-7

YES - Social deprivation increases the chance of dying in hospital for cancer patients

Does it matter?

"How we care for the dying is an indicator of how we care for all sick and vulnerable people. It is a measure of a civilised society and a benchmark for health and social care services."

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