Relative 5-year survival by stage
(as proxy for disease-specific survival)

Reference to:
- KCE report 150A: BC2
- Selected QCI for Vlaamse Overheid: nr. 13
- EUSOMA-guidelines

Relation to quality:
In Belgium, 9,405 new breast cancers were diagnosed in 2005. In Belgium as in Europe, breast cancer is the most frequent cause of death by cancer in women (20.6% of all cancer deaths). The health care system can improve the prognosis of breast cancer through early detection and appropriate treatment. A favorable pattern in breast cancer mortality in the EU-25 was observed after 1989, leading to a fall in overall rates from 21.3/100,000 in 1990 to 18.9/100,000 in 2000. Survival rates depend on the stage of disease at diagnosis. At stage 0 (carcinoma in situ), the five-year survival rate is 100%. Five-year survival rates for women with stage IV (cancer has spread beyond the breast) are only 16%. This indicator is essential to evaluate treatment effectiveness.

Type of indicator:
Outcome

Numerator:
All women diagnosed with invasive breast cancer, surviving 5 years after diagnosis or dying due to a non-breast cancer-related cause, by stage.

Denominator:
All women diagnosed with invasive breast cancer, by stage.

Limitations concerning measurability concerning measurability:
In January 2013 an update was performed of the variables for survival analysis. However, even with this update 5-year follow-up is not available for all patients:

<table>
<thead>
<tr>
<th>Incidence year</th>
<th>Number of years of follow-up (until 1st half of 2012)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 year</td>
</tr>
<tr>
<td>1st half of 2007</td>
<td></td>
</tr>
<tr>
<td>2nd half of 2007</td>
<td></td>
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<tr>
<td>1st half of 2008</td>
<td></td>
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<tr>
<td>2nd half of 2008</td>
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</tbody>
</table>

We will calculate survival on 5 years, where patients of 2008 will be censored for 5 year follow-up.

Flow chart:
Not necessary to include
Include graph + table
Calculation for each pStage separately (incl. unknown) + total

Expected range:
To be defined by stage

Data bases and variables:
- Kruispuntbank – Banque Carrefour:
  ▪ mortality data to calculate survival variables
- BCR:
  ▪ ICD-10=C50
  ▪ stage (pstage)
  ▪ incidence date,
  ▪ survival variables