## Appendix 1: RADPAC tool to timely identify palliative patients with cancer, COPD or CHF

### Chronic Obstructive Pulmonary Disease (COPD)
1. Moderately disabled; dependent. Requires considerable assistance and frequent care.
   \[ \text{(Karnofsky-score } \leq 50\% \) \]
2. Substantial weight loss (≥10% loss of body weight in six months).
4. Orthopnoea.
5. Patient gives signals of approaching end of life.
6. Objective signs of serious dyspnoea.
   \[ \text{(decreased dyspnoea of effort, dyspnoea with speaking, use of respiratory assistant muscles and orthopnoea) } \]

### Congestive heart failure (CHF)
1. Severe limitations. Experience symptoms even while at rest. Mostly bedbound patients. \( \text{(NYHA IV) } \)
2. Frequent hospital admissions (>3 per year).
3. Frequent acute decompensated heart failure (>3 per jaar).
4. Moderately disabled; dependent. Requires considerable assistance and frequent care.
   \[ \text{(Karnofsky-score } \leq 50\% \) \]
5. Increase in weight which does not react on raising the amount of diuretics.
6. Algemeen achteruitgang in clinical situation (oedema, orthopnoe, nycturie, dyspnée).
7. Patient gives signals of approaching end of life.

### Oncology
1. Worse prognosis primary tumor.
2. Moderately disabled; dependent. Requires considerable assistance and frequent care.
   \[ \text{(Karnofsky-score } \leq 50\% \) \]
3. Progressively decline in physical functioning.
4. Progressively bedridden.
5. Diminished voedsel intake.
6. Toenemende vermagering.
7. Anorexië-cachexie syndrom (aframe eetlust, algemene zwakte, vermagering, spieratrofie).
8. Diminished ‘drive to live’.
Appendix 2: Problems square to make a multidimensional inventory of actual and future problems

**PROBLEMS SQUARE**

<table>
<thead>
<tr>
<th>Somatic</th>
<th>Social context and finances</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Policy</strong></td>
<td><strong>Policy</strong></td>
</tr>
<tr>
<td>Actual problems:</td>
<td>Actual problems:</td>
</tr>
<tr>
<td>Expected problems:</td>
<td>Expected problems:</td>
</tr>
<tr>
<td>Dying scenario:</td>
<td>Dying scenario:</td>
</tr>
</tbody>
</table>

**Caregiving and daily living activities**

<table>
<thead>
<tr>
<th>Policy</th>
<th><strong>Existential and psychological issues</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Actual problems:</td>
<td>Actual problems:</td>
</tr>
<tr>
<td>Expected problems:</td>
<td>Expected problems:</td>
</tr>
<tr>
<td>Dying scenario:</td>
<td>Dying scenario:</td>
</tr>
</tbody>
</table>

Possible future problems:

Disease specific aspects: