Included diagnostic groups

<table>
<thead>
<tr>
<th>Included groups</th>
<th>In Operation</th>
<th>Under Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epilepsy</td>
<td>Chemotherapy</td>
<td>IBD</td>
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<tr>
<td>Narcolepsy</td>
<td>Asthma</td>
<td>Diabetes Type 1</td>
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<tr>
<td>Sleep apnoea</td>
<td>COPD</td>
<td>NIV treatment</td>
</tr>
<tr>
<td>Rheum. arthritis</td>
<td>HIV</td>
<td>Oncology inpatients</td>
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<tr>
<td>Renal failure</td>
<td>Heart transplant</td>
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<tr>
<td>Prostate cancer</td>
<td>Neumuscular</td>
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<tr>
<td>Lung cancer</td>
<td>Gestational diabetes</td>
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<tr>
<td>Breast cancer</td>
<td>Multiple sclerosis</td>
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</tbody>
</table>

Departments: 47, patients: 51,238, questionnaires received: 115,138 (Feb 2018)

Patient groups suited for telePRO follow-up

- Outpatient follow-up with many contacts
- Clinical assessment primarily relies on information from the patient
- A clinical examination is not necessary for the assessment
- The patient is capable of answering PRO and understands the principle

About AmbuFlex/WestChronic

The unit has existed since 2007 and has been the leading force for the national introduction of telePRO in Denmark, which was decided upon in 2016. The WestChronic PRO IT system was developed internally and has been maintained since 2004. WestChronic is engaged in PRO research and by February 2018, 3 PhD studies have been completed, 3 are ongoing and 2 are planned to start in 2018.

Selected references


Outpatient follow-up activity in patients with chronic diseases is steadily increasing and is traditionally organised with fixed scheduled visits. However, a substantial number of visits turn out to be redundant from both the patient’s and the clinician’s point of view, while there may be little time for patients with actual needs, which furthermore often occurs between the scheduled consultations.

Patient-Reported Outcome measures collected at home (telePRO) may be used to evaluate the needs and wishes for clinical attention. If knowledge of the state of the patient can be provided, resources can be transferred to patients with actual need or wish for a contact.

The aims for AmbuFlex

Quality of care
- Outpatient visits when needed

Patient centeredness
- PRO and patient preferences decide the contact

Resource reallocation
- Prudent use of resources, reduced transportation

Data for group level use
- PRO data for clinical research and quality improvement

AmbuFlex is a generic web-based system which supports flexible outpatient treatment by means of PRO for clinical decision support. Instead of fixed visits, the patients answer questions regarding symptoms, well-being and functional capacity at fixed intervals. Each questionnaire is diagnosis specific and developed for the specific aim of detecting need for clinical attention in that disease as well as for use as a communication tool in the consultation.

The PRO is processed by the AmbuFlex/WestChronic web-server with disease specific algorithms to identify patients definitely without any need of attention (green response, cf. figure) and in that case the system automatically schedules a new questionnaire, e.g. after 3 months.

Need of attention in the rest of the patients (yellow response) is evaluated by a clinician based on PRO and clinical data. A graphical PRO overview is available for the clinician in the Electronic Health Record system. This ensures quick access to a PRO overview together with clinical data regarding the treatment, and constitutes the basis for effective decision support. The same PRO overview is used in the consultation. The patient has access to his/her own PRO overview via the Danish e-health portal (http://sundhed.dk).