"If I’m lucky, I’ll be put through to the doctor."

Communication between pharmacist and physician

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Current situation

30% of the German population take over the counter drugs
Bundesgesundheitsurvey 2003

20 - 25% hospital admissions due to side effects
Polypharmacie Report HKK 2012

One potentially serious drug interaction /day/ pharmacy
Scharpf 2012 PZ

Current situation

<table>
<thead>
<tr>
<th>Country</th>
<th>Inhabitants/ pharmacy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Denmark</td>
<td>17,700</td>
</tr>
<tr>
<td>Netherlands</td>
<td>8,300</td>
</tr>
<tr>
<td>Slovenia</td>
<td>6,600</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>4,600</td>
</tr>
<tr>
<td>Germany</td>
<td>3,900</td>
</tr>
<tr>
<td>Average EU</td>
<td>3,200</td>
</tr>
<tr>
<td>Belgium</td>
<td>2,100</td>
</tr>
</tbody>
</table>

*ABDA-Statistik 2012; other countries last year data according to ZNCO, SFK, IPU, ÖAK, AFP, SPA*

Current situation Germany

<table>
<thead>
<tr>
<th>Pharmacists</th>
<th>48,422 (70.2% women)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharmacies</td>
<td>20,900</td>
</tr>
<tr>
<td>Physicians</td>
<td>138,472 (40% women)</td>
</tr>
<tr>
<td>GP</td>
<td>60,397 (39% women)</td>
</tr>
</tbody>
</table>

ABDA-Classifikationen

1. Contraindication 6 %
   - Serious side effects documented
     Simvastatin - Erythromycin

2. Contraindication as a precaution 11%
   - Serious side effects theoretically possible
     Levodopa - Metoclopramid

3. Monitoring or adjustment needed 46 %
4. In defined cases Monitoring or adjustment needed 4 %

*ABDA-Datenbank (3/2012): 428,000 Interaktionen*

Who detects interactions?

- H: Pharmacist
- GP: General Practitioner
- Nurse/relatives
Cross sectional study

How do pharmacists and doctors judge their interprofessional communication regarding potentially serious interactions?

„How do they judge a standardized communication tool, developed to improve their communication?“

Developing communication tool

Developing questionnaire

Survey/ Interviews (qualitativ/quantitative)

Sample characteristics

Pharmacist (n=50) Physicians (n=300)
31% male 59% male
65% < 50 years 65% > 50 years
47% debit card (0-85%) 57% use interaction software

Physicians perspective

<table>
<thead>
<tr>
<th>Statement</th>
<th>Disagree</th>
<th>Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>„Pharmacies play in important role in the management of potentially serious interactions.“</td>
<td>44,1% (n=41)</td>
<td>54,8% (n=51)</td>
</tr>
<tr>
<td>„Communication with other physicians is usually uneventful.”</td>
<td>68,8% (n=64)</td>
<td>28,0% (n=26)</td>
</tr>
<tr>
<td>„Communication between pharmacy and medical practice is usually uneventful“</td>
<td>37,6% (n=35)</td>
<td>57,0% (n=53)</td>
</tr>
</tbody>
</table>

Pharmacists perspective

<table>
<thead>
<tr>
<th>Statement</th>
<th>Disagree</th>
<th>Agree</th>
</tr>
</thead>
<tbody>
<tr>
<td>„Management of serious interactions is a relevant problem in daily practice“ (Physicians)</td>
<td>28/43%</td>
<td>72/56%</td>
</tr>
<tr>
<td>„Communication in case of serious interactions is usually uneventful/ without problems</td>
<td>51,7% (n=15)</td>
<td>48,3% (n=14)</td>
</tr>
</tbody>
</table>
In wie weit stimmen Sie den folgenden Aussagen zu?

<table>
<thead>
<tr>
<th>Aussage</th>
<th>disagree</th>
<th>agree</th>
<th>missing</th>
</tr>
</thead>
<tbody>
<tr>
<td>„A standardized communication tool (i.e. template) can improve communication between pharmacies and physicians.”</td>
<td>32/34%</td>
<td>65/56%</td>
<td>3/10%</td>
</tr>
<tr>
<td>„This tool can improve communication between pharmacies and physicians.”</td>
<td>35/25%</td>
<td>65/67%</td>
<td>0/9%</td>
</tr>
</tbody>
</table>

Dr Guido Schmiemann

Thank you

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