Knowledge and Understanding of Patients to Special Instructions on Drug Zip Bags

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Background and objectives: Department of Pharmacy Service, Srinagarind Hospital has provided 19 types of drug zip bag with different instructions so that the patients can read and understand the instruction for drug use by themselves. This study was aimed to explore the knowledge and understanding of patients about special instructions on drug zip bags.

Method: This study was a prospective descriptive study performed in patients who underwent outpatient pharmacy service at Srinagarind Hospital during 15 August to 15 September 2012. Structural questionnaires were used data were analyzed using descriptive statistics and presented in terms of frequency and percentage.

Result: There were 400 patients recruited into this study. The respondents were both males (36.2%) and females (63.8%). Before drug use, most of patients (88.0%) read either labels about instruction for use or special instructions on the drug zip bags but 12.0% of patients read only the labels. Most of patients (84.3%) knew that Srinagarind Hospital had many types of drug zip bags and 86.0% of patients knew that different drug zip bags contained different instructions. In part of drug use, 95.3% of patients always read and 95.5% of patients always followed special instructions on the drug zip bags. In part of knowledge and understanding, data were analyzed with nine types of drug zip bags. Correct answer about how to take medicine were mostly (96.2%) found in patients with label “Take it before bedtime” and correct answer about special instruction were mostly found (25.0%) in patients with drug zip bag P10 (Antithrombotic drug). In part of other recommendation, patients suggested that the drug zip bags should provide informations about indication (52.1%), side effect (18.4%) and expiration date (17.6%).

Conclusion: Most patients read the label and special instructions on the drug zip bags and understood how to use drug properly. However, they lack of understanding about detail in special instructions. Most patients were still need more information particularly about the indication of drug.

Keyword: Knowledge, Understanding, Special instruction, Drug Zip Bags

Introduction

Special instructions are messages about important recommendations or precautions necessary for patients to increase both efficiency and safety of drug use. These messages may focus on indication, specific instruction, storage condition and common side effect. These instructions must be provided to patients by pharmacists in accordance with the drug laws, professional ethics and hospital accreditation standards.1,2 Special instructions may be provided to patients in various forms
depend on each hospital such as screened message on drug zip bag or printed sticker for sticking on drug zip bag. Furthermore, some hospital used picture to help those patients who had trouble in reading. At Srinagarind Hospital, special instructions were screened message on drug zip bags so that 19 types of drug zip bags were used. The benefit of many types of drug zip bags was not well established but there were many disadvantages such as difficulties in management, delays in dispensing especially in the process of choosing appropriate drug zip bags for each medication. Therefore, this study was conducted to explore the knowledge and understanding of patients to special instructions provided by outpatient pharmacy service, Srinagarind Hospital. The output may be used for developing the appropriate provision of special instructions which are useful and accepted by the patients.

**Method**

This study was a prospective descriptive study performed in patients who underwent outpatient pharmacy service at Srinagarind Hospital during 15 August to 15 September 2012. Sample size was calculated using Krejcie and Morgan equation as the following formula

\[
    n = \frac{\chi^2 Np(1-p)}{e^2 (N-1) + \chi^2 p(1-p)}
\]

Where \(e = 0.05\), \(\chi^2 = 3.841\), \(p = 0.05\) and \(N = 66,000\), calculated “n” would be equal to 382 patients.

Structural questionnaires were used for data collections, then data were analyzed using descriptive statistics and presented in the terms of frequency and percentage. This study was approved by the Ethic Committee in Human Research, KhonKaen University (HE551211).
### Table 1. Patients’ characteristics and selection for knowledge assessment

<table>
<thead>
<tr>
<th>Data</th>
<th>Frequency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender: Male</td>
<td>145 (36.2)</td>
</tr>
<tr>
<td>Gender: Female</td>
<td>255 (63.8)</td>
</tr>
<tr>
<td>Age: 18-25 yr</td>
<td>40 (10.0)</td>
</tr>
<tr>
<td>Age: 26-35 yr</td>
<td>65 (16.2)</td>
</tr>
<tr>
<td>Age: 36-45 yr</td>
<td>105 (26.3)</td>
</tr>
<tr>
<td>Age: 46-55 yr</td>
<td>113 (28.3)</td>
</tr>
<tr>
<td>Age: 56-65 yr</td>
<td>48 (12.0)</td>
</tr>
<tr>
<td>Age: &gt;65 yr</td>
<td>29 (7.2)</td>
</tr>
</tbody>
</table>

**Selected drug zip bag**

- P01 Before meal 30 min: 59 (14.7)
- P02 Before meal 1 h: 44 (11.0)
- P03 Immediately after meal: -
- P04 Chemotherapeutic agents: -
- P05 Do not take with milk or antacid: 28 (7.0)
- P06 At bed time: 26 (6.5)
- P07 May cause drowsiness: 66 (16.5)
- P08 As need for relieving symptom: 41 (10.3)
- P09 Sublingual tablet: -
- P10 Warfarin: 16 (4.0)
- P11 Digoxin: 15 (3.8)
- P12 Type 2 narcotic drugs: -
- P13 Eye ointment: -
- P14 Eye drop: -
- P15 Ear drop: -
- P16 Rectal suppository: -
- P17 Vaginal suppository: -
- P18 Topical agents: -
- P19 Blank: -

### Table 2. Experience of patients about drug zip bags

<table>
<thead>
<tr>
<th>Detail of experience</th>
<th>Frequency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Reading the information on drug zip bag</td>
<td></td>
</tr>
<tr>
<td>Only instruction for use</td>
<td>48 (12.0)</td>
</tr>
<tr>
<td>Both instruction for use and special instruction</td>
<td>352 (88.0)</td>
</tr>
<tr>
<td>2. Doing at the time of drug use</td>
<td></td>
</tr>
<tr>
<td>Always read the information before drug use</td>
<td>381 (95.3)</td>
</tr>
<tr>
<td>Always follow the special instruction</td>
<td>382 (95.5)</td>
</tr>
</tbody>
</table>
Figure 1  Patients’ knowledge and understanding of how to take medicine

Figure 2  Patient’s knowledge and understanding to special instructions
must advice and give counseling to all patients to ensure that patients obtained most benefit from the drug utilization.

**Conclusions**

Most patients read the label and special instructions on the drug zip bags and understood how to use drug properly. However, they lack of understanding about detail in special instructions. Most patients were still need more informations particularly information about indication of drug.

**Reference**