Adherence to Type 2 Diabetes Treatment

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Adherence to Treatment Plan in Patients with Type 2 Diabetes
Micah Bernard, Lia Hickinbotham, Casey Nelson, Nicholas Rudy, Jessica Ward, Phillip Thornton, RPh, PhD

Introduction
Medication adherence is the measure of faithfulness to a treatment plan as prescribed by a physician. Patient adherence to medication administration is critical to obtaining desired results. Assessing compliance rates and obstacles that patients face can help pharmacists understand how to promote higher adherence. Understanding these obstacles is crucial because consistent failure to adhere to Diabetes Type 2 treatment can result in serious health problems such as nerve damage, blindness, and skin ulcerations.

Methods
An electronic survey was created, using the website Qualtrics, to assess the adherence tendencies of respondents with Type 2 Diabetes. The survey was sent by email to the faculty, staff, and students of Cedarville University, but only those who are currently using medication to treat Type 2 Diabetes were asked to participate. Twenty-eight responses were received and the data was analyzed using Qualtrics and Excel.

Results
This study showed that 75% of respondents did not completely adhere to their treatment program. Some reasons for non-adherence determined were pain or discomfort, not remembering doses, taking multiple medications and losing track, difficulty in reading prescription labels or instructions, difficulty obtaining refills, low confidence in effectiveness of treatment plan, fear of side effects, and preference for non-medical treatment. The most common reasons for noncompliance were forgetfulness, busyness, and cost of medication. Results showed that neither gender nor age had a significant impact on adherence rate.

Conclusion
Based on this study, the leading factors in non-adherence were forgetfulness, busyness, and cost. Pharmacists who wish to combat the high non-adherence rate in those with Type 2 Diabetes should devise methods to help patients overcome these obstacles.

Common Reasons for Non-Adherence

<table>
<thead>
<tr>
<th>Reason</th>
<th>Number of Times Reported</th>
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<tbody>
<tr>
<td>Pains Discomfort</td>
<td>8</td>
</tr>
<tr>
<td>Difficulty Obtaining Refills</td>
<td>7</td>
</tr>
<tr>
<td>Fear of Side Effects</td>
<td>6</td>
</tr>
<tr>
<td>Not Remembering Doses</td>
<td>5</td>
</tr>
<tr>
<td>Pain, Discomfort</td>
<td>4</td>
</tr>
<tr>
<td>Multiple Medications</td>
<td>3</td>
</tr>
<tr>
<td>Difficulty in Treatment Plan</td>
<td>2</td>
</tr>
<tr>
<td>Potter Non-Medication Treatment</td>
<td>1</td>
</tr>
<tr>
<td>Cost</td>
<td>0</td>
</tr>
</tbody>
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References