**Impact of educational outreach intervention on enhancing health care providers' knowledge about statin therapy prescribing in Malaysian patients with type 2 diabetes mellitus**

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**JOURNAL OF EVALUATION IN CLINICAL PRACTICE**

**Volume:** 24 **Issue:** 3 **Pages:** 521-527  
**DOI:** 10.1111/jep.12903  
**Published:** JUN 2018  
**Document Type:** Article  
**View Journal Impact**

**Abstract**

Rationale: Previous research reported underutilization of statin therapy among patients with type 2 diabetes mellitus. Improving health care providers' awareness and understanding of the benefits and risks of statin treatment could be of assistance in optimizing the statin prescribing process.

Aims and Objectives: This study aimed to assess health care providers' knowledge related to statin therapy and the impact of educational outreach intervention based on the perceived knowledge.

Methods: This was a cross-sectional study based on educational outreach intervention targeting physicians and pharmacists in 1 major tertiary hospital in the state of Pahang, Malaysia. Participants responded to a 12-item, validated questionnaire both prior to and after the outreach educational program. Two sessions were conducted separately for 2 cohorts of pharmacists and physicians. The knowledge scores prior to and after the educational intervention were calculated and compared using a paired-sample t-test.

Results: The response rate to both pre- and post-educational outreach questionnaires was 91% (40/44). Prior to the intervention, around 84% (n=37) of the participants decided to initiate statin therapy for both pre-assessment clinical case scenarios; however, only 27% (n=12) could state the clinical benefits of statin therapy. Forty-five percent (n=20) could state the drug to drug interactions, and 52.3% (n=23) could identify the statin therapy that can be given at any time day/evening. The educational outreach program increased participants' knowledge scores of 1.450 (95% CI, 0.918 to 1.982) point, P<0.005, which is statistically significant. Forty respondents (91%) were of the opinion that statin side effects are the most common cause of treatment discontinuation.

Conclusion: This work demonstrated the impact of an educational outreach intervention on improving health care providers' knowledge and beliefs about statin therapy. This type of intervention is considered effective for short-term knowledge enhancement. Further research is needed to test the long-term efficacy of such intervention.

**Keywords**

**Author Keywords:** knowledge; Malaysia; prescribing; statin therapy; type 2 diabetes mellitus  
**KeyWords Plus:** CARDIOVASCULAR-DISEASE; PREVENTION; INTOLERANCE; GUIDELINES; MANAGEMENT; OUTCOMES; RISK
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Funding

<table>
<thead>
<tr>
<th>Funding Agency</th>
<th>Grant Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Management Centre, International Islamic University Malaysia</td>
<td>RIGS17-122-0697</td>
</tr>
</tbody>
</table>

Publisher

WILEY, 111 RIVER ST, HOBOKEN 07030-5774, NJ USA

Journal Information

Impact Factor: Journal Citation Reports

Categories / Classification

Research Areas: Health Care Sciences & Services; Medical Informatics; General & Internal Medicine

Web of Science Categories: Health Care Sciences & Services; Medical Informatics; Medicine, General & Internal

See more data fields

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