

[Results for THE OUTCOME ...](#) >

The outcome of diabetic retinopathy health education program in patients ...

# The outcome of diabetic retinopathy health education program in patients with type 2 diabetes mellitus: a quasi-experimental study

**By** Rif'atunnailah, MI (Rif'atunnailah, Mat Isa) ; Mei-Chan, C (Mei-Chan, Chong) ; Ling, LW (Ling, Lee Wan) ; Tajunisah, I (Tajunisah, Iqbal) ; Iman, SSM (Iman, Saiful Suhardi Mohd) ; Sumaiyah, JTS (Sumaiyah, Jamaludin Thandar Soe) ; Afieda, RN (Nurul Afieda, Roslim)

[View Web of Science ResearcherID and ORCID](#) (provided by Clarivate)

**Source** HEALTH EDUCATION RESEARCH  
Volume: 40 Issue: 1  
DOI: 10.1093/her/cyae045

**Published** JAN 17 2025

**Early Access** JAN 2025

**Indexed** 2025-01-24

**Document Type** Article

**Abstract** Diabetic retinopathy (DR) may develop into sight-threatening DR and vision loss if early intervention is not carried out. This study was aimed to assess the effectiveness of DR health education program for patients with type 2 diabetes mellitus (T2DM). The quasi-experimental research design was applied. The intervention group underwent a web-based DR health education



program while the control group was followed up the usual way at an ophthalmology clinic for 1 year. Data were analysed using descriptive statistics, repeated measures ANOVA and general linear model to evaluate the mean difference between groups. A total of 180 patients with T2DM were enrolled in the study, with equal number in the control and intervention groups, respectively, with 28% of dropout rate. There was a significant mean difference in knowledge score [F (1178) = 116.57, P = 0.001], diabetes self-care [F (1178) = 116.57, P = 0.001] and visual-related quality of life [F (1178) = 12.70), P = 0.001] between the control and the intervention groups. The intervention group scored the highest in all three categories. Educational interventions positively affected adherence to self-care and visual-related quality of life in type 2 diabetic patients as shown in this study. DRHEP should be considered an added benefit in T2DM management, starting with comprehensive care enrollment.

#### Keywords

**Keywords Plus:** SELF-CARE

#### Addresses

<sup>1</sup> Univ Malaya, Fac Med, Dept Nursing Sci, Kuala Lumpur 50603, Malaysia

<sup>2</sup> Int Islamic Univ Malaysia, Dept Profess Nursing Studies, Kulliyah Nursing, Bandar Indera Mahkota Campus, Kuantan 25200, Pahang, Malaysia

<sup>3</sup> Univ Malaya, Fac Med, Dept Ophthalmol, Kuala Lumpur 50603, Malaysia

<sup>4</sup> Int Islamic Univ Malaysia, Dept Emergency Med, Kulliyah Med, Bandar Indera Mahkota Campus, Kuantan 25200, Pahang, Malaysia

<sup>5</sup> Int Islamic Univ Malaysia, Dept Med Surg Nursing, Kulliyah Nursing, Bandar Indera Mahkota Campus, Kuantan 25200, Pahang, Malaysia

[...more addresses](#)

#### Categories/ Classification

Research Areas: Education & Educational Research; Public, Environmental & Occupational Health

Citation [1 Clinical & Life](#) , [1.36](#) , [1.36.813](#)

Topics: [Sciences](#) [Ophthalmology](#) [Myopia](#)

Sustainable Development Goals: [03 Good Health and Well-being](#)

<b>Web of Science Categories</b>	Education & Educational Research; Public, Environmental & Occupational Health
<b>Language</b>	English
<b>Accession Number</b>	WOS:001399282200001
<b>PubMed ID</b>	39820426
<b>ISSN</b>	0268-1153
<b>eISSN</b>	1465-3648
<b>IDS Number</b>	X5R4D

[– See fewer data fields](#)

## Citation Network

---

In Web of Science Core Collection

0 Citations

28

Cited References

## Use in Web of Science

---

0

Last 180 Days

0

Since 2013

## This record is from:

### Web of Science Core Collection

- Social Sciences Citation Index (SSCI)

---

### Suggest a correction

If you would like to improve the



Accelerating innovation

[© 2025 Clarivate Data Correction](#) [Copyright Notice](#) [Manage cookie preferences](#) [Follow Us](#)

[Training Portal](#) [Privacy Statement](#) [Cookie Policy](#)

[Product Support](#) [Newsletter](#)

[Terms of Use](#)

