Title of metanalysis : Effectiveness of shared decision-making for glycaemic control among type 2 diabetes mellitus adult patients: A systematic review and meta-analysis

PubMed ID of metaanalysis: 39083503

**Search terms**:

**PubMed**: (((((((((((((((Effectiveness) OR (effects)) OR (impacts)) OR (influences)) AND (shared decision making)) OR (patient centered)) OR (patient involvement)) OR (patient engagement)) OR (patient empowerment)) AND (glycated hemoglobin)) OR (glycemic control)) OR (HbA1c level)) AND (diabetes)) OR (diabetes mellitus)) OR (Type 2 diabetes)) OR (T2DM)

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**Inclusion Criteria:**

All retrieved records were evaluated according to their titles and abstracts that were specified as eligibility criteria in the review protocol. When these records were searched and reviewed, the PICO criteria were applied considering population (P): all adult patients (above 18 years of age) clinically diagnosed with T2DM, intervention (I): shared decision-making (SDM) between T2DM patients and care providers, comparator(s)/control (C): usual care of T2DM management and care, and outcome (O): the primary outcome of the current review was the level of HbA1c% among T2DM patients since the primary goal of the T2DM management and care is to control HbA1c level.

There was no restriction on the studies by location, where they were conducted, or year of publication. In addition, all randomized trials were included in the current review.

**Exclusion Criteria:**

However, the studies published in other languages other than English were excluded from the review.

Articles with unclear methodologies, unavailable full-text papers, and articles that did not indicate the outcome of interest were excluded.

Search Date: December 2023

Included studies:

| Study title | Pubmed ID of included study |
| --- | --- |
| Buhse S, Kuniss N, Liethmann K, Muller UA, Lehmann T, Muhlhauser I. Informed shared decision-making  programme for patients with type 2 diabetes in primary care: cluster randomised controlled trial.  BMJ Open. 2018; 8(12):e024004. https://doi.org/10.1136/bmjopen-2018-024004 | 30552272 |
| Santos S, Pentzek M, Altiner A, Daubmann A, Drewelow E, Helbig C, et al. HbA1c as a shared treatment  goal in type 2 diabetes? A secondary analysis of the DEBATE trial. BMC Prim Care. 2023; 24  (1):115. https://doi.org/10.1186/s12875-023-02067-9 | 37173620 |
| Pardhan S, Upadhyaya T, Smith L, Sharma T, Tuladhar S, Adhikari B, et al. Individual patient-centered  target-driven intervention to improve clinical outcomes of diabetes, health literacy, and self-care practices  in Nepal: A randomized controlled trial. Front Endocrinol (Lausanne). 2023; 14:1076253. https://  doi.org/10.3389/fendo.2023.1076253 | 36742401 |
| Ruissen MM, Torres-Pena JD, Uitbeijerse BS, Arenas de Larriva AP, Huisman SD, Namli T, et al. Clinical  impact of an integrated e-health system for diabetes self-management support and shared decision  making (POWER2DM): a randomised controlled trial. Diabetologia. 2023; 66(12):2213–25. https://doi.  org/10.1007/s00125-023-06006-2 | 37775611 |
| Woodard L, Amspoker AB, Hundt NE, Gordon HS, Hertz B, Odom E, et al. Comparison of Collaborative  Goal Setting With Enhanced Education for Managing Diabetes-Associated Distress and Hemoglobin  A1c Levels: A Randomized Clinical Trial. JAMA Netw Open. 2022; 5(5):e229975. https://doi.org/10.  1001/jamanetworkopen.2022.9975 | 35507345 |
| Kunneman M, Branda ME, Ridgeway JL, Tiedje K, May CR, Linzer M, et al. Making sense of diabetes  medication decisions: a mixed methods cluster randomized trial using a conversation aid intervention.  Endocrine. 2022; 75(2):377–91. https://doi.org/10.1007/s12020-021-02861-4 | 34499328 |
| Wollny A, Altiner A, Daubmann A, Drewelow E, Helbig C, Loscher S, et al. Patient-centered communication  and shared decision making to reduce HbA1c levels of patients with poorly controlled type 2 diabetes  mellitus—results of the cluster-randomized controlled DEBATE trial. BMC Fam Pract. 2019; 20  (1):87. https://doi.org/10.1186/s12875-019-0977-9 | 31238871 |
| Vo MT, Uratsu CS, Estacio KR, Altschuler A, Kim E, Alexeeff SE, et al. Prompting Patients with Poorly  Controlled Diabetes to Identify Visit Priorities Before Primary Care Visits: a Pragmatic Cluster Randomized  Trial. J Gen Intern Med. 2019; 34(6):831–8. https://doi.org/10.1007/s11606-018-4756-4 | 30746642 |
| Lauffenburger JC, Ghazinouri R, Jan S, Makanji S, Ferro CA, Lewey J, et al. Impact of a novel pharmacist-  delivered behavioral intervention for patients with poorly-controlled diabetes: The ENhancing outcomes  through Goal Assessment and Generating Engagement in Diabetes Mellitus (ENGAGE-DM)  pragmatic randomized trial. PLoS One. 2019; 14(4):e0214754. https://doi.org/10.1371/journal.pone.  0214754 | 30939143 |
| Den Ouden H, Vos RC, Rutten G. Effectiveness of shared goal setting and decision making to achieve  treatment targets in type 2 diabetes patients: A cluster-randomized trial (OPTIMAL). Health Expect.  2017; 20(5):1172–80. https://doi.org/10.1111/hex.12563 | 28544171 |
| O’Donnell M, Alvarez-Iglesias A, McGuire BE, Dinneen SF. The impact of sharing personalised clinical  information with people with type 2 diabetes prior to their consultation: A pilot randomised controlled  trial. Patient Educ Couns. 2016; 99(4):591–9. https://doi.org/10.1016/j.pec.2015.11.014 | 26654869 |
| Mullan Rebecca J. MM MV, MD, MSc; Shah Nilay D., PhD; Christianson Teresa J. H., BSc;, Bryant  Sandra C. HG MG, MD, MSc; Perestelo-Perez Lilisbeth I., PhD; Stroebel Robert J., MD;, et al. The Diabetes  Mellitus Medication Choice Decision Aid: A Randomized Trial. HEALTH CARE REFORM. 32009;  69(17):1560–8. https://doi.org/10.1001/archinternmed.2009.293 | 19786674 |
| Buhse S, Muhlhauser I, Heller T, Kuniss N, Muller UA, Kasper J, et al. Informed shared decision-making  programme on the prevention of myocardial infarction in type 2 diabetes: a randomised controlled trial.  BMJ Open. 2015; 5(11):e009116. https://doi.org/10.1136/bmjopen-2015-009116 | 26567256 |
| Mathers N, Ng CJ, Campbell MJ, Colwell B, Brown I, Bradley A. Clinical effectiveness of a patient decision  aid to improve decision quality and glycaemic control in people with diabetes making treatment  choices: a cluster randomised controlled trial (PANDAs) in general practice. BMJ Open. 2012; 2(6).  https://doi.org/10.1136/bmjopen-2012-001469 | 23129571 |
| Sheldon Greenfield M, Kaplan Sherrie H., Phd, Mph,, Ware John E. J, Phd, Yano Elizabeth Martin,  Msph,, Frank Harrison J. L M, Phd. Patients’ Participation In Medical Care: Effects on Blood Sugar Control  and Quality of Life in Diabetes. J Gen Intern Med. 1988; 3:448–57. https://doi.org/10.1007/  BF02595921 | 3049968 |
| Rost Kathryn M. P, Flavin Karen S. R, CDE, Cole Karen M, McGill Janet B. M. Change in Metabolic  Control and Functional Status After Hospitalization:Impact of Patient Activation Intervention in Diabetic  Patients. Diabetes Care 1991; 14:881–89. https://doi.org/10.2337/diacare.14.10.881 | 1773686 |
| Karagiannis T, Liakos A, Branda ME, Athanasiadou E, Mainou M, Boura P, et al. Use of the Diabetes  Medication Choice Decision Aid in patients with type 2 diabetes in Greece: a cluster randomised  trial. BMJ Open. 2016; 6(11):e012185. https://doi.org/10.1136/bmjopen-2016-012185 | 28186933 |