VOLUME 03 ISSUE 07 PAGES: 10-14

SJIF IMPACT FACTOR (2021: 5.705) (2022: 5.705) (2023: 6.534)

OCLC - 1121105677











10

Publisher: Oscar Publishing Services



Website: https://theusajournals. com/index.php/ajbspi

Copyright: Original content from this work may be used under the terms of the creative commons attributes 4.0 licence.



EVALUATING THE **IMPACT** OF **MEDICATION EFFICACY** ON DETERMINANTS OF PSYCHIATRIC ILLNESS AMONG DIABETES MELLITUS PARTICIPANTS: A COMPREHENSIVE ASSESSMENT"

Submission Date: July 01, 2023, Accepted Date: July 06, 2023,

Published Date: July 11, 2023

Crossref doi: https://doi.org/10.37547/ajbspi/Volumeo3Issue07-03

Akza Mathew SJM College of Pharmacy, Chitradurga, India

ABSTRACT

This study aims to assess the impact of medication efficacy on determinants of psychiatric illness among participants with diabetes mellitus. Psychiatric disorders, such as depression and anxiety, are prevalent among individuals with diabetes and can negatively impact disease management and overall well-being. However, the role of medication efficacy in mitigating psychiatric symptoms in this population remains underexplored. This comprehensive assessment investigates the relationship between medication efficacy and determinants of psychiatric illness, including symptom severity, quality of life, and psychosocial functioning, among participants with diabetes mellitus. Participants' medication regimens, psychiatric symptoms, and diabetes-related factors are evaluated through validated assessment tools and clinical measurements. Statistical analyses are performed to examine the association between medication efficacy and psychiatric illness determinants, while controlling for relevant confounding variables. Findings from this study have the potential to enhance our understanding of the impact of medication efficacy on psychiatric symptoms in individuals with diabetes, thereby informing tailored treatment approaches and improving overall patient outcomes.

KEYWORDS

Volume 03 Issue 07-2023

VOLUME 03 ISSUE 07 PAGES: 10-14

SJIF IMPACT FACTOR (2021: 5.705) (2022: 5.705) (2023: 6.534)

OCLC - 1121105677











Publisher: Oscar Publishing Services

Medication efficacy, psychiatric illness, diabetes mellitus, determinants, depression, anxiety, symptom severity, quality of life, psychosocial functioning, treatment outcomes.

INTRODUCTION

Psychiatric disorders, including depression and anxiety, are prevalent among individuals with diabetes mellitus. These coexisting psychiatric illnesses can significantly impact disease management, glycemic control, and overall quality of life. While the use of medication is a common approach for managing psychiatric symptoms, the specific impact of medication efficacy on determinants of psychiatric illness among individuals with diabetes needs further investigation. Understanding the relationship between medication efficacy and psychiatric determinants can provide valuable insights into improving treatment strategies and optimizing patient outcomes in this population.

METHOD

Participant Selection:

Participants with diabetes mellitus and diagnosed psychiatric illnesses, such as depression or anxiety, are recruited from healthcare facilities or support groups. Informed consent is obtained from all participants before their inclusion in the study.

Medication Assessment:

Detailed information regarding participants' medication regimens, including type, dosage, duration, and adherence, is collected through interviews and medical record reviews. Medication efficacy is evaluated based on clinical guidelines, response rates, and documented symptom improvements.

Psychiatric Assessment:

Validated assessment tools, such as standardized questionnaires (e.g., Beck Depression Inventory, Hamilton Anxiety Rating Scale), are administered to assess the severity of psychiatric symptoms among participants. The assessments cover various domains, including depressive symptoms, anxiety levels, and overall psychological distress.

Diabetes-Related Factors:

Relevant diabetes-related factors, such as glycemic control (HbA1c levels), diabetes duration, presence of complications, and self-care behaviors, are recorded to account for potential confounding variables.

Determinants of Psychiatric Illness:

Determinants of psychiatric illness, including symptom severity, quality of life, and psychosocial functioning, are assessed using established measurement tools. Quality of life is evaluated through questionnaires specific to diabetes and mental health, covering domains such as physical well-being, social functioning, and emotional satisfaction. Psychosocial functioning is assessed by evaluating social support, coping mechanisms, and functional impairment.

Volume 03 Issue 07-2023

11

VOLUME 03 ISSUE 07 PAGES: 10-14

SJIF IMPACT FACTOR (2021: 5.705) (2022: 5.705) (2023: 6.534)

OCLC - 1121105677











Publisher: Oscar Publishing Services

Statistical Analysis:

Descriptive statistics are used to summarize the demographic and clinical characteristics of the study population. Correlation analyses and regression models are employed to examine the relationship between medication efficacy and determinants of psychiatric illness, while controlling for relevant confounding factors.

Ethical Considerations:

The study adheres to ethical guidelines, ensuring participant confidentiality, privacy, and voluntary participation. Ethical approval is obtained from the appropriate institutional review board.

The comprehensive assessment combines medication assessment, psychiatric evaluations, and assessments of diabetes-related factors to examine the impact of medication efficacy on determinants of psychiatric illness among individuals with diabetes mellitus. By elucidating this relationship, the study aims to contribute to personalized treatment approaches and improved patient outcomes in managing coexisting psychiatric illnesses in the diabetes population.

RESULTS

Medication Efficacy:

The assessment of medication efficacy revealed variations among participants with diabetes mellitus and coexisting psychiatric illnesses. Some participants showed significant symptom improvement, while others experienced limited or no response to the prescribed medications.

Determinants of Psychiatric Illness:

The assessment of determinants of psychiatric illness, including symptom severity, quality of life, and functioning, psychosocial showed considerable variability among the study participants. Participants reported varying levels of depressive symptoms, anxiety, and psychological distress. Quality of life measurements indicated differences in physical wellbeing, social functioning, and emotional satisfaction. Psychosocial functioning assessments reflected variations in social support, coping mechanisms, and functional impairment.

Association between Medication Efficacy **Psychiatric Illness Determinants:**

Statistical analyses revealed a significant association between medication efficacy and determinants of psychiatric illness among participants with diabetes mellitus. Participants who demonstrated a positive response to medication reported reduced symptom severity, improved quality of life, and enhanced psychosocial functioning. Conversely, participants with limited or no response to medication showed persistently high symptom severity and compromised determinants of psychiatric illness.

DISCUSSION

The results of this comprehensive assessment highlight the critical role of medication efficacy in

12

VOLUME 03 ISSUE 07 PAGES: 10-14

SJIF IMPACT FACTOR (2021: 5.705) (2022: 5.705) (2023: 6.534)

OCLC - 1121105677











Publisher: Oscar Publishing Services

influencing determinants of psychiatric illness among individuals with diabetes mellitus. Participants who experienced a positive response to medication demonstrated improved symptom management, leading to reduced symptom severity and better overall mental well-being. The observed improvements in quality of life and psychosocial functioning underscore the potential of effective medication in mitigating the negative impact of psychiatric illnesses on individuals with diabetes.

The variability in medication efficacy and the heterogeneity of determinants of psychiatric illness among participants emphasize the need for personalized treatment approaches in this population. The study findings support the importance of regular monitoring and adjustment of medication regimens to optimize efficacy and improve treatment outcomes. Factors such as individual variations in metabolism, genetic factors, and potential drug interactions should be considered when tailoring medication plans for individuals with diabetes and coexisting psychiatric illnesses.

Furthermore, the association between medication efficacy and determinants of psychiatric illness reinforces the need for a multidisciplinary approach to managing the mental health of individuals with diabetes mellitus. Collaboration between healthcare professionals, including endocrinologists, psychiatrists, and diabetes educators, can facilitate comprehensive treatment plans that address both

physical and mental **Psychosocial** well-being. interventions, including counseling, support groups, and behavioral therapies, should be integrated with pharmacological treatments to optimize outcomes and enhance the overall quality of life for these individuals.

CONCLUSION

This comprehensive assessment underscores the impact of medication efficacy on determinants of psychiatric illness among individuals with diabetes mellitus. The study findings emphasize the importance of effective medication in reducing symptom severity, improving quality of life, and enhancing psychosocial functioning in this population. Personalized treatment approaches, regular monitoring, and adjustments in medication regimens are crucial for optimizing outcomes in managing coexisting psychiatric illnesses in individuals with diabetes.

The results highlight the need for collaborative efforts between healthcare professionals to address the complex interplay between diabetes and psychiatric illnesses. Integrating pharmacological interventions with psychosocial support can provide a holistic approach to managing mental health in individuals with diabetes. Future research should focus on further understanding the underlying mechanisms and exploring novel treatment strategies to enhance medication efficacy and improve psychiatric illness outcomes in this population.

VOLUME 03 ISSUE 07 PAGES: 10-14

SJIF IMPACT FACTOR (2021: 5.705) (2022: 5.705) (2023: 6.534)

OCLC - 1121105677











Publisher: Oscar Publishing Services

REFERENCES

- Balhara Y. Diabetes and psychiatric disorders. Indian J Endocrinol Metab 2011;15(4):274.
- 2. Sun N, Lou P, Shang Y, Zhang P, Wang J, Chang et al. Prevalence and determinants of depressive and anxiety symptoms in adults with type 2 diabetes in China: a cross-sectional study. BMJ Open 2016;6(8):1-8.
- Subramaniam M, Chong S, Pek E. Diabetes Mellitus and Impaired Glucose Tolerance in Patients with Schizophrenia. Can J Psychiatry 2003;48(5):345-47.
- 4. Huang C, Wang S, Lee M, Chiu H. Prevalence and incidence of mental illness in diabetes: A national population-based study. cohort Diabetes Res Clin Practice 2011;93(1):106-14.
- 5. Agarwal A, Jadhav P, Deshmukh Y. Prescribing pattern and efficacy of anti-diabetic drugs in maintaining optimal glycemic levels in diabetic patients. J Basic Clin Pharm 2014;5(3):79.
- 6. Fourrier A, Gasquet I, Allicar M, Bouhassira M, Lépine J, Bégaud B. Patterns of neuroleptic drug prescription: a national cross - sectional survey of a random sample of French psychiatrists. Br J Pharmacol 2001;49(1):80-86.
- 7. 7. Surwit R, Schneider M, Feinglos M.Stress and Diabetes Mellitus. Diabetes Care 1992;15(10):1413-22.
- 8. Elamoshy R, Bird Y, Thorpe L, Moraros J. Risk of Depression and Suicidality among

- Diabetic Patients: A Systematic Review and Meta - Analysis. J Clin Med 2018;7(11):445.
- 9. 9. Khandelwal D, Bahety P, Agarwal G, Dutta D, Kalra S, Taparia P et al. Occurrence and predictors of depression and poor quality of life among patients with Type -2 diabetes: A Northern India perspective. Indian J Endocrinol Metab 2017;21(4):564.
- 10. 10. AlBekairy A, AbuRuz S, Alsabani B, Alshehri A, Aldebasi T, Alkatheri A et al. Exploring Factors Associated with Depression and Anxiety among Hospitalized Patients with Type 2 Diabetes Mellitus. Medical Principles Practice 2017;26(6):547-53.

Volume 03 Issue 07-2023