

# Type 2 Diabetes Management Quality Indicators in Cancer Survivors: A Comparative Analysis

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**Received:** 30-May-2023, Manuscript No: jdm-23-25159, **Editor assigned:** 02-June-2023, Pre QC No: jdm-23-25159 (PQ), **Reviewed:** 16-June-2023, QC No: jdm-23-25159, **Revised:** 23-June-2023, Revised Manuscript No: jdm-23-25159 (R) **Published:** 30-June-2023, DOI: 10.35248/2155-6156.10001016

## Abstract

Cancer survivors with type 2 diabetes mellitus (T2DM) face unique challenges in managing their diabetes care due to the long-term effects of cancer treatment. This article presents a comparative analysis of type 2 diabetes management quality indicators in cancer survivors, aiming to assess the quality of diabetes care and identify areas for improvement in this specific patient population [1]. The study examines various quality indicators, including glycemic control, blood pressure management, lipid profile, preventive care, and adherence to diabetes medications and screenings. By analyzing these indicators, healthcare providers can enhance diabetes management strategies and improve long-term outcomes for cancer survivors with T2DM [2].

**Keywords:** Type 2 diabetes; Cancer survivors; Quality indicators; Comparative analysis; diabetes management; Healthcare delivery; Cancer treatments; Glycemic control

## Introduction

Type 2 diabetes (T2D) and cancer are two prevalent and complex health conditions that often coexist, requiring specialized care for individuals who are cancer survivors with diabetes. Managing diabetes effectively is crucial for cancer survivors as it contributes to overall health, quality of life, and optimal treatment outcomes. Quality indicators serve as important measures to evaluate the adequacy of diabetes management in this specific population [3].

A comparative analysis of type 2 diabetes management quality indicators in cancer survivors aims to explore the existing standards of care, identify potential gaps in diabetes management, and propose strategies for optimizing healthcare delivery in this unique patient population [4, 5].

Cancer survivors, who have completed their cancer treatment, may face distinct challenges in managing their diabetes due to various factors such as the side effects of cancer therapies, altered metabolic processes, and the need for comprehensive and coordinated care. It is essential to evaluate the quality indicators that are relevant to this population and understand how they can be effectively implemented to improve diabetes management outcomes.

This comparative analysis will assess the current state of type 2 diabetes management quality indicators in cancer survivors by examining relevant guidelines, clinical protocols, and research studies. By comparing and

contrasting the indicators across different healthcare settings, we can gain insights into the variations in care and identify areas for improvement [6].

Furthermore, the analysis will explore the specific challenges faced by cancer survivors with type 2 diabetes, including the impact of cancer treatments on glycemic control, the need for interdisciplinary care coordination, and the role of patient education and empowerment in self-management [7].

By highlighting the gaps and variations in type 2 diabetes management quality indicators in cancer survivors, this analysis aims to provide recommendations for enhancing care delivery and optimizing outcomes. The findings can inform healthcare professionals, policymakers, and researchers on potential strategies to improve the integration of diabetes management into cancer survivorship care and promote holistic patient-centered approaches [8].

## Glycemic control

Achieving and maintaining optimal glycemic control is essential in managing T2DM in cancer survivors. The comparative analysis examines indicators such as hemoglobin A1c (HbA1c) levels, blood glucose monitoring, and the use of diabetes medications to assess the effectiveness of glycemic control strategies. The analysis aims to identify potential barriers and areas for improvement in achieving target HbA1c levels in cancer survivors [9].

## Blood pressure management

Hypertension commonly coexists with T2DM and can lead to cardiovascular complications. The analysis assesses blood pressure control indicators, including systolic and diastolic blood pressure measurements, antihypertensive medication adherence, and lifestyle modifications. It aims to determine the adequacy of blood pressure management in cancer survivors with T2DM [10].

## Lipid profile

Dyslipidemia is prevalent in individuals with T2DM and poses an additional cardiovascular risk for cancer survivors. The analysis includes indicators such as lipid profiles (total cholesterol, low-density lipoprotein cholesterol, high-density lipoprotein cholesterol, and triglycerides) and the use of lipid-lowering medications. The assessment provides insights into the management of dyslipidemia in cancer survivors with T2DM [11, 12].

## Preventive care

Preventive care measures, such as annual foot examinations, eye examinations, and vaccinations, are crucial in preventing diabetes-related complications in cancer survivors. The analysis evaluates the adherence to these preventive care indicators and highlights areas where interventions can be implemented to improve the delivery of preventive services in this population [13].

## Adherence to diabetes medications and screenings

Cancer survivors with T2DM may face unique challenges in medication adherence and adherence to regular diabetes screenings. The analysis examines indicators of medication adherence, such as medication possession ratios, as well as rates of regular diabetes screenings, such as retinopathy screenings and kidney function tests. It identifies potential barriers to adherence and strategies to improve medication adherence and screening rates [14, 15].

## Conclusion

The comparative analysis of type 2 diabetes management quality indicators in cancer survivors provides valuable insights into the areas that require attention and improvement in diabetes care for this specific patient population. By assessing glycemic control, blood pressure management, lipid profile, preventive care, and medication adherence, healthcare providers can develop

targeted interventions and personalized management strategies to optimize diabetes care in cancer survivors. This analysis serves as a foundation for further research and the development of comprehensive care models that address the unique needs of cancer survivors with T2DM, ultimately improving their long-term health outcomes and quality of life.

## Acknowledgement

None

## Conflict of Interest

None

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