An update on the top 100 most cited scientific reports focused on diabetes research.

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Abstract

This study presents an updated analysis of the 100 most cited articles in diabetes research from 2011 to 2022, aiming to identify pivotal publications that have significantly influenced the field. Utilizing the Science Citation Index Expanded, we analyzed key characteristics of these top-cited papers, including citation count, publication year, journal, study type, h-index, PMC citations, patent citations, country of origin, funding sources, and authorship.

The citation range for these seminal articles spanned from 832 to 5898. A majority were published between 2011 and 2015, with Diabetes Care, the New England Journal of Medicine, and Lancet being the most frequent publishers. The United States led in article contribution, followed by the United Kingdom and Canada. Basic science studies dominated, followed by randomized controlled trials and observational studies. Our analysis revealed a weak positive correlation between total citations and h-indexes (0.074), but a strong correlation with PMC citations (0.862).

Our findings highlight that influential diabetes research often involves basic science studies providing comprehensive insights into diabetes, encompassing its classification, diagnosis, and risk factors. These key publications serve as a foundational reference for ongoing and future diabetes research.

Keywords: Diabetes, Citation, Publication