ÓBUDA UNIVERSITY
REJTŐ SÁNDOR FACULTY OF LIGHT INDUSTRY AND ENVIRONMENTAL ENGINEERING

ICEEE

The 16th ICEEE-2025

16th ICEEE-2025

Proceedings Book

International Annual Conference on "Global Environmental Development & Sustainability: Research, Engineering & Management"

20 – 21 of November 2025

Obuda University
Budapest - Hungary

16th ICEEE–2025
International Annual Conference on
"Global Environmental Development & Sustainability: Research, Engineering & Management"



Considering the unprecedented circumstances, and the uncertainty due to the travel restrictions imposed by different countries, the Organizing Committee has made the decision to hold the Conference virtually.

Online

November 20th – 21st, 2025

RKK – Obuda University

Budapest – Hungary

2-DAY EVENT Online
International Annual Conference on
"Global Environmental Development & Sustainability:
Research, Engineering & Management"

PROCEEDINGS BOOK
(PROGRAMME, ABSTRACTS & Full Papers)

Venue:
Obuda University
Budapest, Hungary

Date:
November 20 - 22, 2025

Editor-in-Chief
Prof. Dr. Hosam BAYOUMI HAMUDA

TSA4 ***14:00 – 14:10*** ***Mohammad Ali Khaliji[1], Kamran Jafarpour Ghelehteimouri[2,3,4]***

[1]Department of Urban Planning, Ahv. C., Islamic Azad University, Ahvaz, Iran
[2]Department of Geographical Sciences, Faculty of Geography and Urban planning, Kharazmi University, Human Sciences building 4th floor, Tehran, Iran
[3]Disaster Preparedness & Prevention Centre, Malaysia-Japan International Institute of Technology, Universiti Teknologi, Kuala Lumpur, Malaysia
[4]Environmental Resilience and Sustainability, Malaysia-Japan International Institute of Technology, Universiti Teknologi Kuala Lumpur, Malaysia

OPTIMIZING FIRE STATION LOCATIONS USING NETWORK ANALYSIS AND SPATIAL SUITABILITY ASSESSMENT FOR ENHANCED EMERGENCY RESPONSE IN URBAN AREAS

TSA5 ***14:10 – 14:20*** ***Oleksandr Pyvovarov***

Kharkiv National Medical University Kharkiv, Ukraine

USING GOOGLE TRENDS TO DETERMINE INTEREST IN GLUCOSE-LOWERING DRUGS IN HEALTHCARE

TSA6 ***14:20 – 14:30*** ***Ezra.* Omolara *AWOLEYE,* Simeon Dada Yomi ALFRED, Jonathan Akinsola AKINWALE[3]**

Department of Agricultural Extension and Communication Technology, Federal University of Technology, Akure, Ondo State, Nigeria

INFORMATION NEEDS OF RURAL HOUSEHOLDS ON FAMILY PLANNING IN ONDO STATE, NIGERIA

TSA7 ***14:30 – 14:40*** ***Maru Zewdu Kassie1, Tafese Ashine1, Awoke Seyoum Tegegne2***

[1]Department of Statistics, Assosa University, Assosa, Ethiopia
[2]Department of Statistics, Bahir Dar University, Bahir Dar, Ethiopia

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TSA5

USING GOOGLE TRENDS TO DETERMINE INTEREST IN GLUCOSE-LOWERING DRUGS IN HEALTHCARE

Oleksandr PYVOVAROV

Kharkiv National Medical University Kharkiv, Ukraine

Background of the problem and aim(s). *Drugs of the sodium-dependent glucose cotransporter inhibitor group have already shown their safety, including empagliflozin, dapagliflozin, canagliflozin, etc. The purpose of the work is to assess the level of interest in sugar-lowering drugs based on empagliflozin in the world using the technology of the Google Trends search resource.*

Materials and methods. *Google Trends is a new tool that can provide a deep understanding of the behaviour of Google users and makes it possible to assess the patterns of interest of the population in queries made regarding various areas of life, including those related to healthcare. To solve the problem, the modern online service Google Trends was used, which has recently been increasingly used in health research and provides search statistics on interest - search activity in different countries of the world.*

Results and discussion. *To assess the general trends in interest in the drug Jardiance, the search activity in English for the term Jardiance and separately for its active ingredient Empagliflozin was analyzed over the past 5 years as of August 15, 2025, using Google Trends technology. The level of search saturation by regions of Hungary is almost the same for searches for the drug Jardiance in English. High interest is noted for Empagliflozin in 5 regions and in the capital Budapest. When comparing search queries in English on Google in Hungary using Google Trends technology, a stable interest in modern medicines was revealed.*

Conclusions. *Google Trends technology allows scientists to obtain quantitative and qualitative indicators of Google user queries and determine current trends in different countries of the world for analysis. Google search activity for the diabetes drug Jardiance has been observed in Hungary since 2021. Further use of Google Trends technology to assess the level of interest in new drugs for the treatment of diabetes mellitus type 2 may be promising.*

Keywords: *diabetes mellitus type 2, Jardiance, Empagliflozin, Google Trends.*

Biography

Corresponding address:
Name: Oleksandr Pyvovarov Assistant of Professor, PhD
Department: Internal medicine N 3 and endocrinology
Faculty: First Medical Faculty
University: Kharkiv National Medical University
Post Address: 61022, Nauky Ave., 4
City, Country Kharkiv, Ukraine
E-mail: ov.pyvovarov@knmu.edu.ua

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