

पेटेंट कार्यालय
शासकीय जर्नल

**OFFICIAL JOURNAL
OF
THE PATENT OFFICE**

निर्गमन सं. 51/2024
ISSUE NO. 51/2024

शुक्रवार
FRIDAY

दिनांक: 20/12/2024
DATE: 20/12/2024

पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

(54) Title of the invention : Comprehensive Pre-Diabetes Risk Assessment using Validated Risk Tests and Predictive Analysis

		(71)Name of Applicant : 1)Balakrishna Vuyyala Address of Applicant :Plot no-669, SKD Nagar, BN Reddy Nagar ----- 2)Dr. P. Deepak 3)Dr. Kurni Lakshmi Deepthi 4)Mrs. K. Saraswathi 5)Dr. K.H. Ushadevi 6)Dr. T. Kavya 7)Dr. Shaik Harun Rasheed 8)Dr. CH. Pavani 9)Mrs. G Swapna Rani 10)Dr. M. Swathi Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Balakrishna Vuyyala Address of Applicant :Associate Professor, Department of Pharmacology, Guru Nanak Institutions Technical Campus, School of Pharmacy, Khanapur, Ibrahimpatnam, Ranga Reddy, Telangana, Pin Code: 501506 Hyderabad ----- 2)Dr. P. Deepak Address of Applicant :Assistant Professor Department of Pharmacy practice, Guru Nanak Institutions Technical Campus, School of Pharmacy, Khanapur, Ibrahimpatnam, Ranga Reddy, Telangana. Hyderabad ---- ----- 3)Dr. Kurni Lakshmi Deepthi Address of Applicant :Associate Professor Dept. of Pharmaceutical chemistry Sree Dattha Institute of Pharmacy (U2) Sheriguda, Ibrahimpatnam, Hyderabad. Telangana Hyderabad ----- 4)Mrs. K. Saraswathi Address of Applicant :Assistant Professor, Department of Pharmacology, Guru Nanak Institutions Technical Campus, School of Pharmacy, Khanapur, Ibrahimpatnam, Ranga Reddy, Telangana Hyderabad ----- ----- 5)Dr. K.H. Ushadevi Address of Applicant :Assistant Professor, Department of Pharmacy practice, Guru Nanak Institutions Technical Campus, School of Pharmacy, Khanapur, Ibrahimpatnam, Ranga Reddy, Telangana. Hyderabad ---- ----- 6)Dr. T. Kavya Address of Applicant :Assistant Professor, Department of Pharmacy practice, Avanthi Institute of pharmaceutical sciences, Gunthapally, Hyderabad, Telangana, Hyderabad ----- 7)Dr. Shaik Harun Rasheed Address of Applicant :Professor Department of Pharmaceutics Guru Nanak institutions Technical Campus-School of Pharmacy Khanapur, Ranga Reddy Ibrahimpatnam, Telangana Hyderabad ----- 8)Dr. CH. Pavani Address of Applicant :Associate Professor, Department of Pharmaceutical Analysis, Avanthi Institute of Pharmaceutical Sciences, Gunthapally, Hyderabad, Telangana. Hyderabad ----- 9)Mrs. G Swapna Rani Address of Applicant :Associate Professor, Department of Pharmaceutical Chemistry, Avanthi Institute of Pharmaceutical Sciences,Hyderabad, Telangana. Hyderabad ----- 10)Dr. M. Swathi Address of Applicant :Assistant Professor, Department of Pharmacy practice, Avanthi Institute of Pharmaceutical Sciences,, Hyderabad, Telangana. Hyderabad -----
(51) International classification	:G16H0050300000, A61P0003100000, G16H0010200000, G16H0050200000, A61K0045060000	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to	:NA	
Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application	:NA	
Number	:NA	
Filing Date	:NA	

(57) Abstract :
Prediabetes is a condition characterized by elevated blood sugar levels that are higher than normal but not yet high enough to be classified as diabetes. It often progresses unnoticed, making early detection and intervention critical. This study aims to assess the risk of prediabetes using a comprehensive risk assessment method developed by the American Diabetes Association (ADA) and the Centers for Disease Control and Prevention (CDC). Data from 315 participants will be collected through a detailed questionnaire, alongside clinical measurements, including fasting plasma glucose, 2-hour plasma glucose, HbA1C, and lipid profile. A cumulative risk score will determine the likelihood of developing type 2 diabetes. The study findings reveal a higher prevalence of prediabetes among males compared to females and highlight that hypertensive patients are particularly at risk. Obesity, physical inactivity, a family history of diabetes, and conditions like PCOS and gestational diabetes mellitus (GDM) also contribute to the risk. The study emphasizes the importance of early screening, lifestyle modifications, and public health awareness to prevent the progression of prediabetes to type 2 diabetes, ultimately alleviating the healthcare burden. Keywords: Prediabetes, Type 2 Diabetes, Risk Assessment, Hypertension, Obesity, HbA1C.



Office of the Controller General of Patents, Designs & Trade Marks
Department for Promotion of Industry and Internal Trade
Ministry of Commerce & Industry,
Government of India

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

Application Details

APPLICATION NUMBER	202441099198
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/12/2024
APPLICANT NAME	1 . Balakrishna Vuyyala 2 . Dr. P. Deepak 3 . Dr. Kurni Lakshmi Deepthi 4 . Mrs. K. Saraswathi 5 . Dr. K.H. Ushadevi 6 . Dr. T. Kavya 7 . Dr. Shaik Harun Rasheed 8 . Dr. CH. Pavani 9 . Mrs. G Swapna Rani 10 . Dr. M. Swathi
TITLE OF INVENTION	Comprehensive Pre-Diabetes Risk Assessment using Validated Risk Tests and Predictive Analysis
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
E-MAIL (As Per Record)	balakrishnav.pharmacy@gniindia.org
ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	20/12/2024