



ISSN: 0976-3031

Available Online at <http://www.recentscientific.com>

CODEN: IJRSFP (USA)

International Journal of Recent Scientific Research
Vol. 10, Issue, 08(A), pp. 34028-34030, August, 2019

**International Journal of
Recent Scientific
Research**

DOI: 10.24327/IJRSR

Research Article

A SCIENTOMETRIC STUDY OF GESTATIONAL DIABETES MELLITUS

Gesa George, Ashok Thomas and Sasikala T

¹Annamalai University

²Central University of Kerala

³Rani Meyammaia College of Nursing, Annamalai University

DOI: <http://dx.doi.org/10.24327/ijrsr.2019.1008.3802>

ARTICLE INFO

Article History:

Received 06th May, 2019

Received in revised form 14th June, 2019

Accepted 23rd July, 2019

Published online 28th August, 2019

ABSTRACT

A scientometric study of gestational diabetes mellitus published from 2004 to 2018 using Scopus Database. Identifies the distribution of gestational diabetes mellitus literature, forms of publication, core journals, prime authors and prime institutions was caused out for the benefit of various stakeholders of national and international level. The study revealed that India is lacking in the field of gestational diabetes research.

Key Words:

Gestational Diabetes Mellitus,
Scientometric Analysis

Copyright © Gesa George et al, 2019, this is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution and reproduction in any medium, provided the original work is properly cited.

INTRODUCTION

Scientometry

Scientometric analysis of scientific publication is an important aspect of research endeavor information science in recent years. It could be attributed to the fact that scientometric studies are used to identify the pattern of publications, authorship, citation secondary journal coverage and so on.

Gestational diabetes

Over the past decades, obesity has become a global health challenge. The obesity epidemic among woman of reproductive age has led to an increasing incidence of gestational diabetes mellitus GDM (12). Gestational diabetes increases the livelihood of various perinatal complications including foetal macrosomia (3-5) with perinatal complications. The combined adverse effect of these two risk factors the frequency of adverse obstetric outcomes is greater than that of either on alone 6-9

Objectives

This study attempts to

1. Quantify the worlds output on gestational diabetes mellitus literature

2. Quantify the Indian R &D output on gestational diabetes mellitus
3. Activity people of India during the period of study
4. Identify the prime institutions and prime authors and journals engaged in the literacy output on gestational diabetes mellitus

METHODOLOGY

The source data for this study was Scopus Database. The database was searched using the name gestational diabetes mellitus as a key term for the chosen study period of 50 years in all the fields of each record excepting abstracts, update code and accession number fields. This file was further subdivided year wise using Fox version 2.5 working database was created with the required fields only. Since the purpose of study was to ascertain Indian productive profile, the working data base was searched by the each of the record of India .

RESULTS AND DISCUSSION

1. Quantum of the world records on gestational diabetes mellitus
2. Forms of publications on gestational diabetes mellitus
3. Key journals on gestational diabetes mellitus
4. Prolific authors on gestational diabetes mellitus

*Corresponding author: Gesa George
Annamalai University

5. Primary institutions on gestational diabetes mellitus Research

Key journals on gestational diabetes mellitus

Table 3 Key journals on gestational diabetes mellitus

Sl.no	Journals	Publisher	Records
01	Diabetes Care	University of Toronto	770
02	American Journal of diabetes	Harvard medicine	718
03	Journal Of Maternal Fetal And Neonatal Medicine	Rigshospitalet	556
04	Diabetic Medicine	Harvard School of Public Health	394
05	Diabetes Research And Clinical Practice	University of Melbourne	324

An attempt was made to identify the significant journals reporting gestational diabetes the outcome of this analysis is presented in table 3. The diabetes care published by university ranks highest with contribution of 770 articles followed by American journal published by Harvard Medical University.

Prolific Authors on gestational diabetes mellitus

Based on the frequency of occurrence of the first authors have only a ranked list of contributors were compared. The process enabled to identify the top 10 authors in this field along with their affiliation.

Table 4 Top Ten Authors with their productivity pattern

Sl.no	Top ten authors	No. of publication
01	Damn P	154
02	Kautzky	118
03	HodM	117
04	Langero	95
05	Mathiesen	92
06	MetzgerB	91
07	Corcoy R	88
08	Zhang C	87
09	Lapolia A	81
10	Buchanan	79

Since the list of corporate authors was long, the top 10 alone are presented here.

CONCLUSION

Gestational diabetes one of the major complication of pregnancy that will affect 40% of mothers all over the world. USA is found to be predominant country as it top in the rank list on gestational diabetes research literature. A.I is very high in USA, very low in INDIA. So It is evident that, India is lacking in the field of gestational diabetes research.

References

1. National Institute for Health and welfare perinatal statistics parturients deliveries and newborns 2012, Statistical Report 24/2013. Helsinki: National institute for Health & Welfare, 2013
2. Dabelea D, snell-Bergeon JK, Hartsfield CL, Bischoff KS, Hamman RF, McDaffieRs, Kaiser Permanente of Colorado GDM. Screening, programming, increasing prevalence.....; of gestational diabetes mellitus GDM over time and by ...birth cohort, Kaiser Permanente of Colorado GDM, Screening programme Diabetes Care 2005, 28:579-584

RESULTS & DISCUSSION

Table I The following Table I lists the quantum of literacy output on GDM.

Quantum of world records on gestational diabetes

No	Country	Total
1	USA	6077
2	UK	1828
3	Australia	1319
4	Canada	1165
5	Chennai	1099
6	Italy	960
7	Germany	846
8	Spain	711
9	France	633
10	India	626
11	Island	612
12	Sweden	605
13	Turkey	564
14	Denmark	531
15	Brazil	462
16	Iran	457
17	Netherland	437
18	Japan	393
19	Poland	386
20	Finland	375

The world's publication output on Gestational Diabetes need to be analysed to identify those countries actively and regularly contributing to the subject. This attempt resulted in listing and ranking those countries producing literature on gestational diabetes.

Forms of publications

Table -2 presents the valued forms, in which gestational diabetes literature published. This includes journal articles, conference papers, chapters in books, thesian and editorial etc, learned periodicals even in the electronic age continuous to be a very significant vehicle in the power of scientific communication. They help in building a collective knowledge base, act as a medium for communication of information helps in validating the quantity of research enables distributing rewards and build up scientific communication.

Table 2 Forms of publications on gestational diabetes mellitus

Sl.No	Publication Forms	Records	Percentage
01	Journal article	17145	80.16
02	Review	2694	12.59
03	Letter	640	2.99
04	Conference	619	2.89
05	Editorial	274	1.28
06	Book	12	0.056
07	Miscellaneous	2	0.009

The total journal article are 17145 others are review, conference paper, book, editorial & miscellaneous the journals are ranked based on their frequency of occurrence .since the ranked list is too long; the top five are ranked list of journals titles provided in the following table

3. Person B, Hanson U. Neonatal morbidities in gestational diabetes mellitus. *Diabetes care* 1998,21 (suppl.2): B 79-B 84
4. Suhonen L, Hilesman v, Kaya R, Teramo K: Detection of pregnancies with high risk of fetal macrosomia among women with gestational diabetes mellitus *Acta Obstet Gynecol. scand* 2008,87; 940-945
5. Fadl H E, Ustlund I K, Magnuson A.F. Hanson US: maternal and neonatal outcomes and time trends of gestational diabetes mellitus in Sweden from 1991-2003. *Diabetes med* 2010, 27 436-441
6. Owner LA O Sullivan EP, Kiswan B, Avalos G, Gaffny G, Dunne F, Atlantic DIP collaborates: Atlantic DIP. The impact of obesity on pregnancy outcome in glucose tolerant woman. *Diabetes Care* 2010,33-577-579
7. Roman AS, Rebarber A, Fox NS, Klauser CK, Istwan N, Rhea D, Saltzman D. The effect of maternal obesity on pregnancy outcomes in women with gestational diabetes *J. Maternal Fetal Neonatal Med* 2011, 24; 723-727.

How to cite this article:

Gesa George et al. 2019, A Scientometric Study of Gestational Diabetes Mellitus. *Int J Recent Sci Res.* 10(08), pp.34028-34030. DOI: <http://dx.doi.org/10.24327/ijrsr.2019.1008.3802>
