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FOOD AND NUTRITION LITERATURE RESEARCH OUTPUT MAPPING IN INDIA

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ABSTRACT:

This paper presents a quantitative investigation of efficiency, qualities and theparts of food and sustenance. A sum of 1291 Indian commitments shrouded in SCOPUSdata set were examined the scholarly efficiency of food and sustenance researchers inIndia during the time of 1960-2011. The review shows that researcher from NewDelhi 215, Andhra Pradesh 171, Karnataka 155 and Tamil Nadu 125 have distributedroutinely. The examination yield is exceptionally dissipated as shown by the normalnumber of papers per organization and per states in India. The food and nourishmentyield is overwhelmed by the two



wrote papers. Further, the review examined Relative Growth Rate and Doubling Time creation design, coorigin design, profoundly productive creators, exceptionally distributed foundations and exceptionally favored diaries by the researchers of India.

KEY WORDS: Doubling Time , Scientometric, Relative Growth Rate, Degree of Collaboration.

INTRODUCTION:

Bihar is the third most people state with populace of 1210.6 million and 8.6 percent to nation's absolute populace, and agribusiness is the foundation of its economy with commitment of horticulture and united areas to GSVA 19.3 percent in 2018-19 with the biggest supporter of GSVA being the yield area (10.6 percent); while the most reduced supporter was fishing and hydroponics (1.5 percent). The animals area is arising as a significant section with its expanding commitment to state's GSVA from 5.4 percent in 2013-14 to 5.6 percent in 2018-19 (Bihar financial review 19-20, Table 1). With almost 89 level of populace dwelling in country regions and a larger part contingent upon little land possessions for living, the need to use horticulture for nourishment becomes huge in Bihar as unhealthiness proceeds to be a significant test in Bihar.

Scientometrics is the study of estimating and investigating logical examination. By and by, scientometrics is many times done utilizing bibliometrics, an estimation of (logical) distributions. Scientometrics is an unmistakable discipline that has risen up out of reference based space perception. It is the quantitative investigation of logical correspondences, which applies bibliometrics to logical writing. Scientometrics has been utilized generally by scientometricians with their specific strategies in assessing the progress of science and ways of behaving of researchers. Research Distributions are obviously one of the quantitative measures for the essential examination action in a country. It should be added, be that as it may, that what energizes the average person, as well as the logical local area, are

the pinnacles of logical and mechanical accomplishment, in addition to the measurements on distributions.

LITERATURE REVIEW

In the new years, numerous scientists have ledscientometric examination in various subject fields. The accompanyingconcentrates on connected with the goals of this study have been checked on.Arunachalam planned the existence science research in India involving Biological Abstracts for the period 1992-1994 utilizing uniquescientometric markers. There are additionally different sorts of examinationalso, innovation improvement mission situated, industryarranged, country explicit, and so forth. Progress in these can't beclearly estimated by counting just the quantity of distributions. In any case, there was no work zeroing in on planningthe scene of the advancement of food and sustenance researchin India lately. The reason for this paper was to manageit. Since we have no real way to get all the data about a subject, we need to circle some data, like written works, licenses, meetings, reviews, etc.

lain concentrated on the estimation of exploration efficiency of Indianresearchers adding to world soybean research for the period1989 - 2008 and presumed that India gets second position in worlddistribution on soybean research after USA. Lotka's regulation is foundpractically material in the current review.Rajendran examined 633 examination articles distributed in Journal ofLogical and Industrial Research. They tracked down that greater part ofpapers was by multi creators and Indian creators. There was poorglobal coordinated effort by Indian creators. Jevshankarexamined bibliographical subtleties of 1282 exploration articlesdistributed by the researchers of CECRI during the period 2000-2009. From the review it is found that 194 articles 15.13% distributed in the year 2009 was the most useful year. Cooperative examination was predominant with the most extensive level ofjoint effort being 0.98, in the year 2005. Further, the reviewresearched creation design, co-origin design, profoundlyproductive creators and exceptionally favored diaries by the researchers of CECRI. Jeyshankar6 led the review development of explorationyield by the researchers of Tuberculosis Research Center, Chennai, Tamil Nadu. They covered the Tuberculosis ResearchFocus rundown of distributions have a place with the time of 1985-2009 for he review. It showed the examples of interchanges of Tuberculosis Research Center researchers and studies the degree offocus and dispersing of their examination result of centerdiaries. Development of writing by year-wise, creation design, positioning of creators, and positioning of diaries has been examined.

NUTRITIONAL PROFILE OF BIHAR

Bihar has 11% of India's under-five populace or 12.7 million youngsters. Of these 12.7 million youngsters, 49% (6.3 million) experience the ill effects of ongoing under nourishment (hindering) what's more, 37% (1.7 million) experience the ill effects of intense under sustenance (squandering). Hindering is more pervasive in the more weak planned standing (SC) populace (58% went against to 49% state normal), squandering is imperceptibly higher in this bunch. Of 43.6 million hindered Indian youngsters, 6.3 million (14%) live in Bihar and of the 16.9 million squandered youngsters in India, 1.7 million (11%) live in Bihar (Nourishing Bihar's Children UNICEF Bihar Field Office Conversation paper-DRAFT 06DEC, 2015); all this presents an exceptionally melancholy situation. The state has embraced a few stages and over a time span of multi decade there is a impressive decrease in hindering squandering and underweight of youngsters, old enough under 5 years, in country Bihar however the situation with hunger keeps on excess a test with almost a big part of the kids actually malnourished and likewise one-fifth are squandering among kids under 5 years more than 10 years.

Unhealthiness is brought about by various variables and any way to deal with tackle the issue of lack of healthy sustenance would require an all encompassing, multi-layered approach and mix of sustenance explicit as well as nourishment delicate intercessions to address this issue. Agribusiness and associated exercises are the primary wellspring of business for healthfully denied segments, in this manner food sustenance and security is likewise connected to cultivate variety, efficiency and productivity. Following the Coordinated Farming System (IFS) move toward we can actually battle hunger and furthermore add to the financial development story of the state. The advantages of

coordinated cultivating frameworks in moderating environment risk, differentiating consumes less calories and producing pay, particularly for smallholder ranchers, has proactively been perceived and can be made nourishment delicate by fitting them to address the nourishing inadequacies pervasive in a particular locale.

OBJECTIVES

The review has been planned with the accompanying targets:

- To look at the development of Indian writing on food and sustenance distributed during 1960-2011.
- To distinguish and examine the state-wise and establishment wise creation of food and sustenance research yield in India.
- To apply the specific numerical models to decide the degree, nature and size of the co-origin research on food what's more, nourishment.
- To figure out the commitments of significant states, foundations, center diaries, and most refered to diaries.

HYPOTHESES

The following are the hypotheses formulated for this study

- There is a declining trend in the Relative Growth Rate (RGR) and correspondingly an increasing trend in the Doubling Time (DT) in food and nutrition research in India.
- Collaborative research dominates in the field of food and nutrition.
- The research priorities in various authors of food and nutrition according to Co-Authorship Index (CAI).

UNDERNUTRITION TRENDS IN INDIA

India is home to 33% of the world's undernourished youngsters. As indicated by the third National FamilyWellbeing Survey (NFHS-3), 33% of Indian youngsters are brought into the world with low birth weight, 45% ofyoungsters under three years old are hindered, 23% are squandered, and 40 percent are underweight. Notjust are the outright numbers high, yet the commonness of small kid undernutrition — and the way that ithas changed so minimal through the most recent twenty years, disregarding India's quick financial advancement — isparticularly. Undernutrition among grown-ups is significant as well: Around 33% ofall Indian ladies have weight record (BMI) beneath 18.5. Micronutrient inadequacies are widespreadamong youngsters and grown-ups, with 79% of kids, 56% of ladies, and 24 percent of menbeing weak. One small kid in three keeps on being in danger for iodine lack.

While public patterns paint a distressing picture, the mosaic of youngster undernutrition in India uncoversfive key examples. In the first place, we track down a significant geographic fluctuation in changes in the pervasiveness of different nourishment pointers. Between 1992/93 and 2005/06, the pervasiveness of hindering (a sign ofby and large, by around 8 rate focuses, however decreases in hindering ranfrom 19 rate focuses in Tripura to around 2 rate focuses in Gujarat, with Nagaland showing an expansion in hindering of 1 rate point .Patterns in burning through throughout a similar time span havebeen more factor - squandering diminished considerably in many states vet additionally expanded in certain states, with increments over 10 rate focuses in Meghalaya and Haryana (Menon and Aguayo 2011). Second, patterns in hindering by age and orientation over the three rounds of the NFHS study reflectordinary worldwide examples. The best decreases in level for-age happen during the initial two years of life, with little change from there on. Patterns in mean weight-for-age scores by kid age, over the three rounds of the NFHS, are like those for level for-age. Each of the three rounds of the NFHS information show mean heightfor-age for young ladies to be like or better than that for young men during the initial two years. Among more seasonedyoungsters, the mean level for-age for young men was like that of young ladies during NFHS-1 yet wasprogressively more noteworthy than that of young ladies during NFHS (Menon and Aguayo 2011). Third, the information on nourishment markers uncover huge financial imbalances. The most unfortunate, the booked clans and positions, and

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those living in rustic regions, bear the most elevated weight ofundernutrition. While undernutrition is higher in kids from lower pay quintiles, it is significant incenter pay quintiles also. Roughly a portion of the kids in the center quintile and a quarter in the most elevated quintile are hindered. A few late investigations show the steadiness of monetary disparities withregard to sustenance upgrades throughout the course of recent many years (Pathak and Singh 2011; Sen et al. 2011;Subramanyam et al. 2011). These discoveries, considering India's financial development, recommend that India'sundernutrition issue has its underlying foundations in fundamental variables influencing essentially the whole populace.

CAUSES OF UNDER-NUTRITION IN RURAL AREAS OF BIHAR AND INDIA

Indicators	Bihar I	India
Causes		
Children under age 3 years breastfed within one hour of birth (%) 3	34.2	41.1
Children under age 6 months exclusively breastfed (%)	54.2	56.0
Children age 12-23 months fully immunized (BCG, measles, and 3 doses each	61.9	61.3
of polio and DPT) (%)		
Pregnant women age 15-49 years who are anaemic (%)	58.0	52.1
All women age 15-49 years who are anaemic (%)	60.5	54.2

Source: Bihar State Nutrition Action Plan 2019-24 Department of Social Welfare Government of Bihar

CLIMATIC VARIABLES ON SUPPLEMENTS

Environmental change is projected to influence human wellbeing and nourishment adversely. There is a developing writing on the impacts of climatic changes on food accessibility, amount, and rural creation, however influences on the nourishing substance of food sources has not been broadly considered. The point of this paper is to deliberately portray observational writing investigating the impacts of climatic drivers on macronutrients and micronutrients in food varieties causing lack of healthy sustenance around the world. 69 companion audited exact articles (barring exploratory and displaying studies) dissecting the impact of climatic drivers on supplements in food varieties were recovered from Web of ScienceTM, Scopus® and PubMed® data sets (2013-2019). Distribution recurrence and patterns, and existing proof of the degree of supplement change related with variety in environment related conditions were evaluated. There is somewhat restricted writing on relationship among environment and supplements in food sources. Where it exists, just rough intermediaries of environment (for example wet/dry season) are utilized, with restricted cross examination of the potential causal systems connecting environment to supplement content. 98% of the articles showed an adjustment of supplement content comparable to an occasional or meteorological variable. Most dissected the relationship of supplement changes between seasons more than 1-2 years, seldom throughout longer timeframes. Starter enlightening appraisals highlight variety in supplement content by meteorological fluctuation, especially in sea and freshwater food sources. Strong evaluation of potential environment influences on supplement content of food varieties would profit from more exact assessment of explicit causal pathways and factors that intercede environment influences on food, going past occasional or unrefined intermediaries. There is need for clear enunciation of what environmental change could mean for supplement content given components connecting meteorological and occasional variety with supplements. This exploration features arising proof that environmental change might have influences past agrarian efficiency by influencing food supplement content, an understudied however possibly significant pathway for environment influence on worldwide food and sustenance security.

CENTER JOURNALS

The idea ofcenter diaries has been gotten fromBradford's Law. It portrays how the writing on a specificsubject is dispersed in the diaries. As per Garfield'Bradford's Law is one of a few factual

articulations, which attemptto portray the functions of science by numerical means'. Thisregulation is thought of as the most popular of the whole bibliometricidea. The diaries are positioned in view of their recurrence of eventCenter Journals alongside nearly higher efficiency count. The positionedrundown of diary titles is given in the table 8 and successively foreach unit of time span of the review. Uncovers the rundown of center diaries in food and nourishmentresearch field as kept in the SCOPUS data set from 1971-2011. Of the all out 1291 diaries delivering food and nourishmentresearch writing, it is the diary of food science andinnovation positions first with 8.37% of the all out periodical writingyield during the period under study. Second position is IndianPediatrics, a diary solely for food and sustenance.

STATE-WISE RESEARCH OUTPUT OF FOOD AND NUTRITION

shows that the circulation of exploration yield amongvarious provinces of India in the field of food and nourishment during1971-2011. This table uncovers that 16.65% of the complete articleswere contributed by the creators from New Delhi, trailed byAndhra Pradesh 13.25%, Karnataka 12.01%, Bihar 11 %Tamil Nadu10.07% and Maharashtra 9.30%. Taking everything into account, studyshows that the field has advanced impressively in variousdistricts in India.

INSTITUTIONAL AFFILIATION OF AUTHORS

To discover the patron from the various kinds of association or foundation, the institutional alliance of the reator was inspected and broke down . Addresses an image of the sort of establishment from where the articles have arranged. The main commitments of worldwide food and nourishment yield areordered into three fragments viz. colleges, universities, and different organizations. To break down the exhibition of the main 15 organizations in India in the F&N research above important sections were isolated furthermore, exposed to definite investigation. From the it is found the main 15 exploration organizations in India. Further it very well might besurmised that the National Institute of Nutrition, Hyderabad standsfirst with 127 examination writing distributed, trailed by CentralFood Technological Research Institute, Mysore with 50 and CCSHaryana Agricultural University, Haryana remains with third with.

CONCLUSION

In this review, the writing on food and sustenance research yield in India. It has been dissected by Scientometric techniques. India hascreated 1291 papers delivered during the time of study, which is expanding at yearly normal development rate is 0.58. In thisconcentrate on discreetly stressed development rate, India need to build itsresearch yield and draw out the nature of exploration endeavors. Thepronouncement of joint effort on normal comes to 0.50. New Delhigets first position in Indian exploration yield. To assess the creatorcooperation Collaborative Index (CI), Degree of Collaborative Coefficient (CC), top food and nourishmentresearch foundations in India and center diaries were distinguished.

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