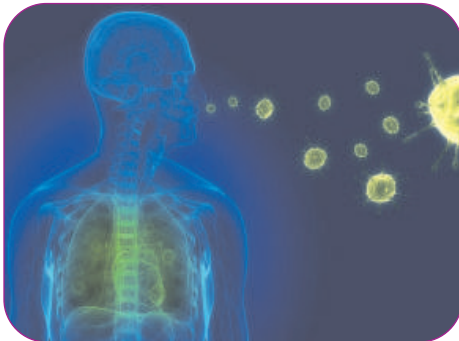




## PNEUMONIA DISEASE RESEARCH IN INDIA: A SCIENTOMETRIC STUDY DURING 2004-13



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### ABSTRACT :

**A**nalyzes 2508 distributions in Indian pneumonia inquire about, as filed in Scopus database amid 2004-13, seeing a yearly normal development rate of 19.86%, a normal reference affect for every paper of 2.85 and worldwide cooperative production offer of 14.19%. The general offer of Indian pneumonia examine was 2.74% amidst 2004-13, which reached out from 1.83% to 3.39% from 2004-08 to 2009-13. Medicine contributed the best flows share (76.28%) in Indian pneumonia explore, trailed by pharmacology, toxicology and pharmaceuticals (16.27%), typical science, acquired qualities and atomic science (13.12%), immunology and microbiology (7.19%) and science (3.99%) amidst 2004-13. The 15 most profitable Indian associations and creators in Indian pneumonia investigate contributed 34.01% and 10.88% offer each to its combined distributions yield amid 2004-13 and have enrolled a normal efficiency of 56.87 and 18.20, a normal reference affect for every paper of 3.15 and 4.06, a normal h-file estimation of 9.27 and 7.00 and a normal offer of global collective papers of 16.65% and 14.29%..

**KEYWORDS :** *Pneumonia, Disease, Publications, India, Scientometrics.*

### INTRODUCTION:

Pneumonia is a fiery disease of the lung and it is additionally depicted as lung parenchyma/alveolar aggravation and anomalous alveolar loading with fluid<sup>1</sup>. Pneumonia can influence only one projection of the left or right lung, an entire lung or the two lungs. At the point when the germs that reason pneumonia achieve the lungs, the lung's air sacs (alveoli) winds up noticeably aggravated and tainted. The contaminated lungs release liquid and shed dead cells. Therefore, liquid stops up the air sacs and makes it less flexible and makes it hard for lungs to carry out their employment of getting oxygen into the blood or in expelling carbon dioxide from the blood as proficiently not surprisingly. The lungs, similarly, necessities to work harder to fulfill the body's essential for oxygen. When one has pneumonia, one gets the indications, for example, hack, fever, chill and weight in breathing<sup>2-3</sup>. Pneumonia can come about because of assortment of causes. Infections are one of the two noteworthy reasons for pneumonia, the other being microscopic organisms, less regular causes are different microorganisms, for example, growths and parasites, certain medications and different conditions, for example, immune system ailments. Minuscule life forms, diseases or developments that live in your nose, mouth, sinuses or the enveloping condition can enter the lungs and make tainting. One can likewise get microscopic organisms or infection from individuals tainted with them. Infections are the most widely recognized reason for pneumonia in kids while in grown-ups microorganisms are the most well-known cause<sup>4</sup>. Pneumonia is a typical sickness influencing roughly 450 million individuals every year and happening in all parts of the world. It is a noteworthy reason for death among all age bunches bringing about 4 million passings (7% of words yearly aggregate). Rates

are most elevated in kids under five and grown-ups more established than 75 years old. It happens around 5 times more as often as possible in the creating scene than in the created world. Late gauges from UNICEF demonstrates that pneumonia keeps on being number one enemy of kids the world over – causing 18% of all mortality, an expected 1.3 million tyke passings in 2011 alone. The lungs, similarly, necessities to work harder to fulfill the body's essential for oxygen. When one has pneumonia, one gets the indications, for example, hack, fever, chill and weight in breathing<sup>2</sup>-About all pneumonia passings happen in making nations and three quarter of these happens in only 15 nations, The yearly tyke pneumonia passings in 2010 are most essential in India (396700), trailed by Nigeria (143600), Congo (87000), Pakistan (79800),Ethio<sup>3</sup>. pia (57800), China (54700), etc<sup>5-6</sup>.

## LITERATURE REVIEW

No scientometric consider had been distributed on pneumonia, one of the lung ailment up until now. Be that as it may, few scientometric thinks about have been distributed on other lung illnesses. For instance, Arunachalam and Gunasekaran<sup>7</sup> mapped India and China tuberculosis inquire about amid 1990-99 and distinguished organizations and urban areas dynamic in look into, diaries used to distribute the discoveries, utilization of high effect diaries, effect of their examination and degree of universal coordinated effort announced. Gupta and Bala<sup>8</sup> analyzed the Indian tuberculosis explore utilizing Scopus database amid 1998–2009 and concentrated on parameters, for example, development, rank and worldwide distributions share, reference affect, offer of universal synergistic papers, commitment of major communitarian accomplice nations, commitment of different subject fields and kind of tuberculosis and examples of research correspondence in most profitable diaries. Asthma is a noteworthy interminable lung malady described by repetitive assaults of shortness of breath and wheezing, which shift in seriousness and recurrence from individual to individual. Gupta and Bala<sup>9</sup> bibliometrically evaluate Indian asthma look into yield amid 1999-I 2008 and concentrated on the development, rank and worldwide productions share, reference affect, offer of universal collective papers, commitment of major communitarian accomplice nations and commitment of different subject fields. It additionally breaks down the attributes of most beneficial organizations, creators and high-referred to papers

## 2. OBJECTIVES

The fundamental goal of this investigation is to break down the examination execution of India in pneumonia explore amid 2004-13, in view of distributions recorded in Scopus database. Specifically, the investigation concentrates on the accompanying goals: (i) To consider the world research yield and its development; (ii) To think about the commitment and reference effect of 15 driving nations; (iii) To inspect the circulation of references of the Indian research yield and attributes of the high referred to distributions; (iv) To examine the offer of worldwide coordinated effort distributions in Indian production yield and the commitment by driving teaming up accomplices; (v) To contemplate the dissemination of Indian research yield by expansive branches of knowledge and kind of pneumonia look into; (vi) To ponder the distribution profitability and the reference effect of driving foundations and creators and (viii) To contemplate the media of correspondence.

## 3. PROCEDURE AND DATA SOURCE

The examination downloaded and recovered the creation information of the world and of 15 driving nations in pneumonia research from the Scopus database (<http://www.scopus.com>) for a long time from 2004 to 2013. The catchphrase "pneumonia" was utilized as a part of "title, conceptual and watchword" and confining it period 2004-13 in "date extend tag" (as appeared in seek procedure beneath) was utilized for looking through the worldwide production information in the investigation and this turn into the primary pursuit string. At the point when this hunt string with limited to India in "nation tag" as demonstrated as follows, we get production information on India. This string is additionally limited to "branch of knowledge tag", "nation tag", "source title tag", "creator name" and "connection tag", to get data on conveyance of distributions by subject, working together nations, diary astute, creator name shrewd and association savvy, and so forth. For reference

information, the three years, two years, one year reference window was utilized for productions amid 2004-11, 2012 and 2013.

## 4. ANALYSIS

### 4.1 Global Publication Output, Share & Rank

The nations which have expanded their worldwide distribution rank among 15 most beneficial nations are: China (from eleventh to fifth), India (from twelfth to tenth), South Korea (from fifteenth to thirteenth), Japan (from 3th to 2th) and Italy (from eighth to seventh), as against diminish in Spain (from sixth to eighth), Canada (seventh to ninth), Netherlands (from ninth to eleventh), Australia (from tenth to twelfth), U.K. (from second to third), France (from fifth to sixth), Brazil (from thirteenth to fourteenth) and Turkey (from fourteenth to fifteenth) from 2004-08 to 2009-13 (Table 1).

## 5. RESULTS & CONCLUSION

In pneumonia inquire about, India has distributed 2508 productions amid 2004-13. It expanded its productions yield from 106 to 468 from 2004-08 to 2009-13,, enlisting a yearly normal development rate of 19.86%. India's worldwide production rank was eleventh among the 15 driving nations with worldwide distribution offer of 2.74% amid 2004-13. India's worldwide distribution offer and rank expanded from 1.83% to 3.39% and from twelfth to tenth from 2004-08 to 2009-13. The normal reference affect per distributions enlisted by Indian productions in pneumonia investigate was 2.85, which diminished from 3.24 to 2.71 from 2004-08 to 2009-13. Of the aggregate flows in Indian pneumonia research, 41.43% did not get any references (zero reference) and 58.57% arrangements were referred to no short of what one times. Of the referred to arrangements, just 0.84% of the allotments contributed 28.91% references share, 1.04% distributions contributing 11.54% reference share, 1.79% productions contributed 11.10% references share, 8.65% productions contributed 23.83% reference share and 46.29% productions contributed 24.62% references share amid 2004-13. Just 14.19% of the aggregate Indian distributions in pneumonia look into were universally community amid 1998-2013, which expanded from 13.53% to 14.45% from 2004-08 to 2009-13. Among the basic outside pleasing collaborators of India, USA contributed the best offer of 50.56% amidst 2004-13, trailed by U.K.(16.85%), Switzerland (10.11%), Australia (9.27%), Canada (8.71%), Argentina (7.30%), Germany (7.02%), Mexico (6.46%), Brazil (6.18%), France (5.90%), and so on. Among the subjects, prescription contributed the biggest offer of 76.28% amid 2004-13, trailed by pharmacology, toxicology and pharmaceuticals (16.27%), organic chemistry, hereditary qualities and atomic science (13.12%), immunology and microbiology (7.19%) and science (3.99%). Bacteria pneumonia contributed the biggest offer (37.32%) of distribution by kind of pneumonia, trailed by tuberculosis pneumonia (6.58%), ventilator related pneumonia (5.54%), parasitic pneumonia (5.22%), desire pneumonia (5.02%), viral pneumonia (4.51%), and so on amid 2004-13. The 15 Indian driving affiliations and creators contributed 34.01% and 10.88% offer to Indian pneumonia get some information about amidst 2004-13 and have recorded a common profitability of 56.87 and 18.20, run of the mill reference impact per paper of 3.15 and 4.06, ordinary h-file of 9.27 and 7.00 and normal offer of universal synergistic papers of 16.65% and 14.29% separately. The best 10 most beneficial diaries contributed 25.52% offer of the aggregate Indian productions in pneumonia inquire about amid 2004-13, which has expanded from 22.73% to 26.59% from 2004-08 to 2009-13.

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