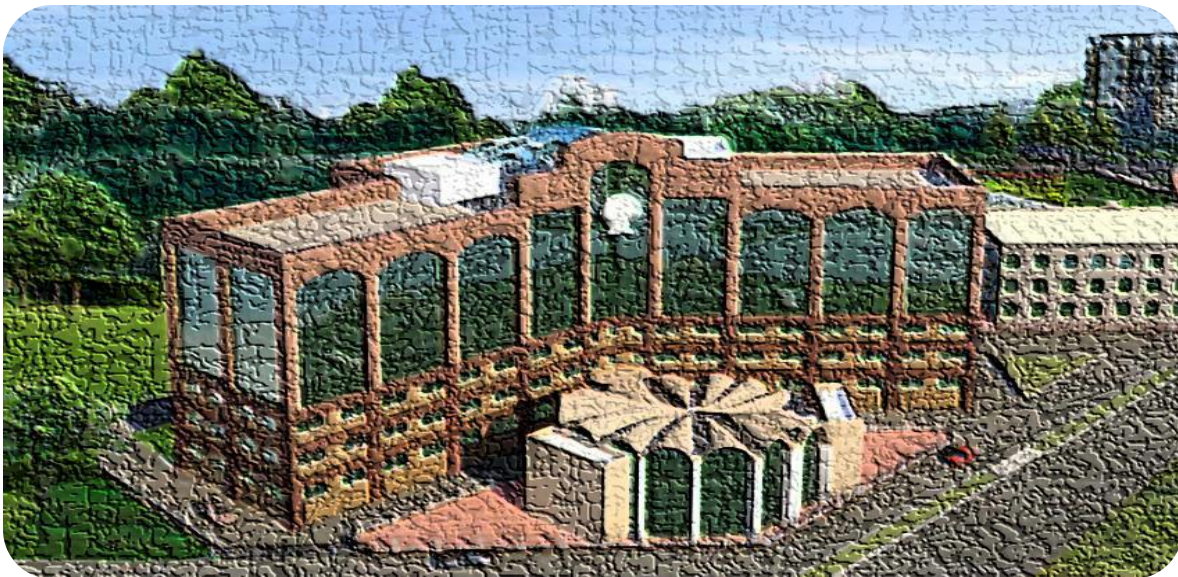




# IIPS Alumni Association (IIPSAA)

## E-Newsletter



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**IIPSAA**  
**Demographers' Fraternity Matters**

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## From the Editor's Desk



I am happy to present this *Newsletter* (the eighth volume) of IIPSAA as the Chief Editor. I accept that it is delayed, and I express regret for this delay in its publication.

This issue covers an article by Prof. Irudaya Rajan, who has described his journey as a demographer since 1982 when he joined IIPS as a CPS student, and Prof. Zachariah's impact on his life and academics. Then, it highlights the major academic and cultural activities that the managing committee of IIPSAA was able to initiate during the last year. As a new initiative, the committee has started supporting a few deserving and needy students in presenting their papers at international conferences in India and abroad. The committee desires to expand such

activities in the future. Details of such awards provided during the last year are included.

IIPS is expanding in different fields, and this *Newsletter* also provides information about the significant academic and other developments in IIPS.

I thank the editorial team members, particularly Dr. Kunal Keshri, for providing leadership in bringing out this *Newsletter* and the student members for providing details about different activities.

The managing committee has various plans, but they all require financial support. I appeal to all alumni to help in identifying alumni (also demographers and social scientists who may be interested in joining the association) who have not yet joined the association and encourage them to become life members. I also wish to thank the members of the association who have donated money to the association for its activities. More such contributions are required primarily to help needy students.

Comments on the organization of the *Newsletter* are welcome. A few of them may be included in the next issue of the *Newsletter*.

I hope in the future; we will be able to improve the publication further so that one can know about the significant achievements of the alumni, major developments in the institute, and opportunities for younger demographers and social scientists. Small technical notes/commentaries from alumni are also invited to be included in the next issue.

With good wishes,

**Arun Kumar Sharma**

Senior Professor, IIT Kanpur (Ret)

An alumnus of the 1975 batch of CPS

## Memorial

### *My Journey of Migration Research with Prof Zachariah*



*Prof. K C Zachariah*  
1922-2023

My journey with Prof. Zachariah started from the days when I was a Certificate in Population Studies (CPS) student at the International Institute for Population Studies (IIPS), way back in 1982. There was a compulsory paper Migration (Technical and Substantive), and we were supposed to read a book by K C Zachariah, titled, ‘Manual VI –Methods of Measuring Internal Migration’ published by the United Nations in 1970. He wrote two monumental books when he started research in the 1960s at the Demographic and Research and Training Centre (DTRC) as Deputy Director, now known as IIPS. These books are *A Historical Study of Internal Migration in the Indian Sub-Continent 1901–1931* (Asia Publishing House, 1964) and *Migrants in Greater Bombay* (Asia Publishing House, 1969).

At IIPS, we learned about the famous works of Prof. Zachariah on migration. At the final stage of my PhD, under the guidance of Prof. K Srinivasan, formerly Director, IIPS, I joined as an Assistant Professor in the United Nations Fund for Population Activities (UNFPA) supported Global Training Program on Population and Development at the Centre for Development Studies (CDS), Kerala. This was a golden era for CDS with trained demographers – P N Mari Bhat, K Navaneetham, P S Sarma, U S Mishra, P K Panda, and Mala Ramanathan in the 1990s.

When I joined CDS, Prof. Zachariah had just retired from the World Bank and was designated an honorary professor. He was 65 years old, and I was just 30. I fondly call his new phase of Zachariah’s life as “Zachariah 2.0”. He was allotted the faculty room very next to mine, and that’s how our interaction began. I started talking to the same personality whose book I once read as a student. By now, he had established himself as a world-famous demographer. We often chatted, and I once asked him whether he would like to engage in any major research; he was





already availing a handsome pension from the World Bank. He said that he had no interest in taking any research work and would lead a relaxed life in Kerala as a returned emigrant. Incidentally, he left Kerala to join Gauhati University, Assam, then Patna University, and then IIPS. After that, he moved to Cairo Demographic Centre, Egypt, and finally joined the World Bank. I was eagerly willing to work with him; he was looking for a comfortable retired life. I had a huge zeal for his contribution to demography, so I told him that he needn't do any work; instead, I wanted him to read my writings and guide me professionally. He agreed, and that's how our long journey of 35 years began till his last breath on January 20, 2023.

It was a journey of joint research, mentorship, and, most importantly, friendship till his last breath at the age of 99, four months. In 1991, one day, he brought one of his World Bank working papers titled *Anomaly of the Fertility Decline in Kerala*, published in 1981. He told me he wanted to replicate a similar Fertility Survey in 1991, after ten years of his earlier work. His long-time friend and colleague, Professor Pravin Visaria, then Director of the Gujarat Institute of Development Research, had agreed to fund the survey of 3000 households in three districts of Kerala – Ernakulam, Palakkad, and Malappuram. He wanted me to join him in the project. He requested all demographers at CDS to join him to be part of the book, published as CDS Monograph Series in 1994 titled, *Demographic Transition in Kerala in 1980*, authored by K C Zachariah, S Irudaya Rajan, P S Sarma, K Navaneetham, P S Gopinathan Nair and U S Mishra in 1994. I was traveling extensively at that time while Prof. Zachariah was mainly at home. I promoted the book extensively. The second edition of the book was brought out in 1998. This was our first work together, and I still fondly remember and cherish those days.

After tasting the success of our work on fertility, Prof. Zachariah again came up to me and said, "I started my research career at the age of 35, and it was on migration in Greater Bombay. Now, I wish to end my research career with the same topic of migration. Shall we develop some projects on migration? Can you become a part of this?" When he told me, he was close to 75. I was around 40 at that time and brimming with enthusiasm to work. That is how the first Kerala Migration Survey (KMS), 1998, was born. We applied for grants to some places in 1996 but got rejected. Finally, in 1997, the third funder agency supported us. We successfully completed the first migration survey. I would say that Prof. Zachariah baptized me as a migration expert.

Otherwise, I was planning to pursue my interest in studies of elderly people, and I continue to take up studies on elderly people. I must say that I got attracted to this study area because of his profound influence. And that was the beginning of our long-term collaboration. Since he retired, I was the one who attended all seminars to present the findings of KMS; the fame and success of the first round of KMS gave birth to subsequent rounds in the following years. We have completed eight rounds, and the 9th round of KMS 2023 has just begun. When I asked for any advice for KMS 2023, he suggested increasing the sample size. When we started in 1998, 10,000 households were studied. In 2008, it went to 15,000; we plan to increase it to 20,000 households. During the last 35 years, we have worked together on around eighteen working papers from CDS, nine journal articles, and ten books. The last one is a book entitled *Researching International Migration*, which Routledge publishes. Due to its popularity, Routledge wanted us



to prepare another companion volume, *Researching Internal Migration*. After some discussion, he asked me to work with R B Bhagat of the International Institute for Population Sciences (IIPS), Mumbai, whom I have known since my student days at IIPS. Prof. Zachariah read the manuscript and wrote a foreword for the book, which was released recently at the IIPS in the presence of Prof. K S James, Director, IIPS. Our strong bond kept us going through the last four decades. When I asked Prof. Zachariah about starting an institute, the International Institute of Migration and Development (IIMAD), he gladly agreed. Thus, he became the Founder and President of IIMAD and continued until he died in 2023. When I asked for his insights for the 2023 survey, I was confident that I would get the funding. In the last 25 years, I arranged the funding without any hassle, so Prof. Zachariah was confident that I could run IIMAD or any survey. He would always compliment my ability to gather resources.

Most people plan to enjoy a comfortable retired life, while Prof. Zachariah stood up to conduct one of the biggest surveys in the world after his retirement. His contribution to the field of migration studies focused on Kerala's spirit of migration. Prof. Zachariah was also a man of great willpower and determination. He was diagnosed with diabetes at the very young age of 24. From that day onwards, he took utmost care of his lifestyle and diet and conquered the condition with discipline and perseverance. Even at the age of 90, he was interested in studying the workings of new gadgets and technology. There were no bounds to his thirst for knowledge. It is notable that he published his last book, 'Researching International Migration' at the age of 92!

Another incident I recollect is when I went to East-West Centre, Hawaii, as a visiting scholar. I was out on the beach with a great professor, and he was lying down and listening to me. I was introducing myself and where I hail from while he laid down. He was indifferent throughout, and the moment I told him I worked with Prof. Zachariah, the professor suddenly got up and looked at me with astonishment. I still remember his eagerness to know about my association with Prof. Zachariah. After reaching home, when I narrated the incident to him, his face broke into a wide grin. People looked up to him as a great personality, and I was lucky enough to get him as a colleague in the next room. I have countless memories of him.

I am working on my biography and plan to combine it with Prof. Zachariah's. After spending 35 years together, I can't find any way to write about me without including him. I plan to name it "The Migrant" as my tribute to Prof. Zachariah.

**Prof. Irudaya Rajan**

Former Professor at the Centre for Development Studies (CDS), Kerala  
& IIPSAA President

### IIPSAA Lecture Series

IIPSAA has started a new initiative to call renowned demographers for motivational and academic lectures under the IIPSAA lecture series. These lecturers aim to increase IIPS graduates' awareness about admission to different national and global institutions. In some of these lectures, speakers have discussed job opportunities to support those who would be looking for jobs right after graduating PhD or master's programmes. IIPSAA is also trying to focus on enhancing the research network, consultancy services and general health, which will benefit all members, including middle and late-career alumni. These lectures are delivered mostly by the alumni of IIPS. We have also invited global experts where there is a requirement. We will engage with our alumni regularly to gauge the training gaps. During the last year, six lectures were held. The lectures were well attended and appreciated by the students and younger faculty. The details are given below.

#### ➤ Lecture 1 | 05<sup>th</sup> July 2022 (Online)

*“Opportunities for students of IIPS in the leading academic institutions in India”*

Speaker: Prof. A K Sharma, IIT Kanpur

Chairperson: Prof. Irudaya Rajan

Introduction of Speaker: Prof. Nandita Saikia

Vote of Thanks: Dr. Bashir A Bhat

Prof. Sharma is a distinguished alumni of IIPS. He joined IIT Kanpur as a lecturer in Sociology, where he served for 41 years from 1980 to 2021, and retired as an Emeritus Fellow in June 2021. Prof. Sharma discussed the admission procedure in IITs and IIMs of India and job opportunities for scholars with population backgrounds.



➤ **Lecture 2 | 06<sup>th</sup> September 2022 (Online)**

*“Higher education opportunities in Europe”*

Speaker: Dr. Aravinda M Guntupalli, University of Aberdeen, Scotland

Chairperson: Prof. Sayeed Unisa

Introduction of Speaker: Dr. Bashir A Bhat

Vote of Thanks: Dr. Sandhya R Mahapatro



Dr. Arvinda Meera Guntupalli is a distinguished alumni and works as a senior lecturer in Global Health at the University of Aberdeen, United Kingdom. She provided insights on various universities suitable for the students of IIPS, the availability of funds and fellowships to pursue the courses and the useful websites and other resources to know more and avail of these opportunities.

➤ **Lecture 3 | 12<sup>th</sup> January 2023 (In-person)**

*“Higher Education and Employment Opportunities in North America”*

Speaker: Prof. Shivalingappa Halli, Max Rady College of Medicine, University of Manitoba

Chairperson: Prof. Sayeed Unisa

Introduction of Speaker: Dr. Kunal Keshri

Vote of Thanks: Pankaj Kumar Patel

Prof. Shivalingappa Halli is a distinguished alumni and works as a Professor at the Max Rady College of Medicine, University of Manitoba, Canada. He discussed the admission procedure in the universities of Canada and talked about the projects running in India on health issues and the job opportunities in India and Canada.





➤ **Lecture 4 | 17<sup>th</sup> February 2023 (Online)**

*“Research Ethics in Australian Universities / Research Institutes”*

Speaker: Dr. Santosh Jatrana, James Cook University, Australia

Chairperson: Prof. R. Nagarajan

Introduction of Speaker: Prof. Nandita Saikia

Vote of Thanks: Dr. T R Dilip

Dr. Santosh Jatrana, is the Senior Principal Research Fellow and Research Head at the Murtupuni Centre for Rural and Remote Health and currently holds an honorary Associate Professor position at the Australian National University..Dr Jatrana gave detailed information and procedures followed to clear the data collection of the students in the universities of Australia.

➤ **Lecture 5 | 27<sup>th</sup> March 2023 (Hybrid Mode)**

*“The Digital Revolution and Demography: Perspectives from Digital and Computational Demography”*

Speaker: Prof. Ridhi Kashyap, Nuffield College, University of Oxford

Chairperson: Prof. Sayeed Unisa

Introduction of Speaker: Prof. Nandita Saikia

Vote of Thanks: Mr. Pankaj Kumar Patel



Prof. Ridhi Kashyap is an eminent scholar in the field of population studies at Nuffield College, University of Oxford. She explained the procedure of using digital data and procuring the data from social media sites. She has also presented her papers on the use of this data for demographic studies.



## ➤ Lecture 6 | 3<sup>rd</sup> May 2023

*“Preparing for a career in global health and development.”*

Speaker: Dr. Saumya Rama Rao, Consultant Population Council, New York, USA

Chairperson: Prof. A K Sharma

Introduction of Speaker: Prof. Sayeed Unisa

Vote of Thanks: Prof. Dhananjay W. Bansod

Dr. Saumya Rama Rao is a former faculty of IIPS. She is the Chair of the Institutional Review Board of the Population Council, New York. She had advised scholars to expand the area of research to get global opportunities.



## **IIPSAA Workshops**

- ❖ The different committee members of IIPSAA are organising workshops for the skill development of the students, early career graduates and senior staff who require different skills. These will be paid workshops; however, concessions will be given to life and student members. IIPSAA decided to hold offline and online workshops from time to time. During last year, two in-person workshops were held. Their details are given below.

### **Five-Day Workshop on Sampling Methods in Population and Health Research: Types, Techniques, Examples**

**Date:** DEC 12 - 16, 2022

**Venue:** International Institute for Population Sciences (IIPS), Mumbai.

**Organizers:** IIPSAA & IIPS

The sample size is an essential determinant of survey estimates' reliability; its determination is one of the most crucial steps in designing a study, acknowledging that a Five-Day **Workshop on Sampling Methods in Population and Health Research** was held in IIPS, Mumbai, from Dec 12-16, 2022. This workshop was jointly organized by the International Institute for Population Sciences Alumni Association (**IIPSAA**) & International Institute for Population Sciences (**IIPS**). The primary aim of organizing such a workshop was to equip and enhance the student's knowledge regarding the importance of sample size and essentials in its estimation, along with sample size estimation methods in different population and health research scenarios. The course (for the workshop) was designed by Prof. T.K. Roy and Prof. Sayeed Unisa (two workshop coordinators).

The workshop brought together over 47 participants from IIPS and other institutes across India. The workshop was inaugurated at 2:00 p.m. on Dec 12, 2022, at IIPS Mumbai. Prof. R. Nagarajan, IIPSAA Vice President and Workshop Coordinator, facilitated our guest resource person, Prof. T.K. Roy, and gave the welcome speech. Prof. Sayeed Unisa, IIPSAA Vice President and workshop coordinator, made some introductory remarks that made the participants aware of the workshop's theme and its rationale in the research context. She further gave a brief overview of the five-day workshop. IIPSA MC members Prof. Dhananjay W. Bansod, Dr. Dilip T. R., Dr. Kunal Keshri, and Dr. Illias Kanchan Sheikh graced the occasion with their presence.

Resource persons for this workshop were Prof. T.K. Roy, Prof. Sayeed Unisa, Prof. S.N. Dwivedi, Dr. Shahina Begum, and Prof. L.K. Dwivedi. The first session started with opening remarks by Prof. Roy, emphasizing that the primary purpose of the sample size estimation should be to determine the minimum number of subjects/participants required in a study to derive valid conclusions with a prefixed precision and significance level. Prof. Roy also taught multistage sampling design and sample size estimation for different study designs. Prof S.N Dwivedi delivered a lecture on clinical trials and sample size determination, whereas Dr. Shahina spoke on sample size estimation using EPI info. Prof L.K. Dwivedi demonstrated the importance of sampling weight and its estimation for different sampling methods (Example of NFHS, LASI, and NSS). In the last session, Prof. Sayeed Unisa discussed impact evaluation designs using the SWABHIMAN monitoring and evolution model as an example.

The workshop successfully harnessed the enthusiasm and experience of participants and reached wide-ranging topics for discussion and learning. Informative and worthwhile sessions made participants happy and satisfied. They gave positive feedback on their learning experiences during the feedback and discussion session. The Valedictory function of the workshop was held at 6:00 p.m. on Dec 16, 2022. Workshop Coordinators (Prof. Unisa & Prof. Nagarajan) distributed the certificate to all the participants. In the end, Pankaj Kumar Patel (workshop volunteer) extended the vote of thanks. The workshop organizing committee extends heartfelt gratitude to all resource persons, IIPS administration, IIPSAA MC Members, student volunteers, and participants.

**Workshop Coordinators:** Prof. Sayeed Unisa, Prof. R. Nagarajan & Prof. L.K. Dwivedi







## **Five-Day Workshop on “A Hands-on Training of SPSS: Basics to Advance”** **26-30 April, 2023**

**Venue:** International Institute for Population Sciences (IIPS), Mumbai

**Organizers:** IIPSAA & IIPS

The five-day workshop titled “A Hands-on Training of SPSS: Basics to Advanced” was organized by the International Institute for Population Sciences Alumni Association (IIPSAA) in collaboration with the International Institute for Population Sciences (IIPS). The workshop aimed to provide comprehensive training on using SPSS software to individuals aged 35 and above. Individuals employed in the public or private sector, faculty members, professionals, independent researchers, and NGO workers. The primary objective was to introduce the basics of SPSS to working professionals interested in data analysis, helping them acquire additional computational and statistical analysis skills using the software. The workshop sought to benefit faculty members, management executives, industry training professionals, and research scholars looking to enhance their understanding of this subject. A total of 20 participants actively took part in the SPSS training program. The participants included professionals aged 35 and above from various backgrounds, such as the public and private sectors, academia, and NGOs. The diverse range of participants ensured a rich learning environment and facilitated knowledge exchange among individuals from different fields. The workshop covered a wide range of topics related to SPSS, including various statistical analysis techniques, data mining, and interpreting the results. The participants were provided practical learning opportunities through case studies, enabling them to apply the concepts learned during the workshop. The workshop coordinators, Prof. Sayeed Unisa, Prof. R. Nagarajan, and Prof. Nandita Saikia, ensured that the training program encompassed both theoretical and hands-on aspects of SPSS, thus enhancing the participants’ understanding and practical skills. The workshop featured esteemed resource persons with extensive knowledge and expertise in SPSS. The resource persons responsible for the training sessions were Prof. C. P. Prakasam, Prof. Sulabha Parasuraman, Prof. Sayeed Unisa, Dr. Kunal Kesari, and Dr. Illias K. Sheikh. Their expertise in various SPSS and statistical analysis aspects gave participants valuable insights and guidance throughout the workshop.

The workshop commenced with an inauguration ceremony at 10:00 a.m. on April 26, 2023, at the Indian Institute of Population Studies (IIPS) in Mumbai. Prof. R. Nagarajan, the Vice



President of IIPSAA and one of the workshop coordinators, facilitated the resource persons, Prof. C. P. Prakasam and Sulabha Parasuraman, and delivered the welcome speech. Prof. Sayeed Unisa, also a Vice President of IIPSAA and workshop coordinator, introduced the workshop's theme, emphasizing its relevance in the research context. In the end, the valedictory function took place at 2:00 p.m. on April 30, 2023. Participants in the event included Prof. C. P. Prakasam, Prof. Sulabha Parasuraman, Prof. K.S. James (Director & Senior Prof, IIPS), Prof. Sayeed Unisa, Prof. R. Nagarajan, and Anjani Mishra (ICT Unit head). The distinguished speakers distributed the participation certificates to all the participants. Pankaj Kumar Patel (workshop volunteer) delivered the vote of thanks on behalf of the organizing committee, expressing gratitude to the resource persons, IIPS administration, ICT Unit, IIPSAA MC members, student volunteers, and participants.

**Workshop Coordinators:** Prof. Sayeed Unisa, Prof. R. Nagarajan, Prof. Nandita Saikia



## IIPSA Membership Drive and Regional Meetings

Management Committee of IIPSA had organized a membership drive meeting with the passing out students on 25<sup>th</sup> May 2022. Additionally, IIPSA organized several regional meetings to develop a strong network of alumni and to know the availability of experts for lecturers and workshops. Regional meetings were held in Lucknow (27 August 2022), Bhubaneswar (19 November 2022), UK (24 November 2022) and US and Canada (3 December 2022).

### Glimpses of Meetings





## **T-Shirt Drive**

To develop a sense of solidarity among family members of IIPS, IIPSAA organized a T-shirt drive. Many students and staff bought the T-shirt and found it to be a helpful activity. The association did not have to contribute any money towards this.





## Book Release



Prof. Nandita Saikia, Department of Public Health and Mortality Studies, along with Dr. Moradhvaj Dhakad (IIASA) launched the book **“Adult Mortality in India: Trends, Socio-Economic Disparities and Consequences”** on May 11, 2023 at New York University, Abu Dhabi. Since there has been a significant decrease in mortality among children under five, the weight of disease has shifted to the adult age group, with dire socioeconomic ramifications, as the new book emphasizes. Given that India has one of the greatest intra-country variances in mortality by location and socioeconomic category, this book highlights the critical need for a full knowledge of these variations.



## IIPSAA Marathon 2023



The International Institute for Population Sciences Alumni Association (IIPSAA), in collaboration with USV Private Ltd. (Pharmaceutical Company), organized a marathon event called “Run for Health Awareness” on the 22<sup>nd</sup> of January, 2023. The event was aimed at improving health awareness among students and was marked by the presence of Shri. Jayant Dwivedy, Executive Director of USV, Shri. Krishna Prakash IPS, Special Inspector General, Maharashtra Police, and Smt. Dr. Arpita Dwivedy, L. H. Hiranandani Hospital Mumbai.

The run was for short distances of 2 km and 5 km within the Deonar area in the vicinity of IIPS and was open for students, faculty, and staff of IIPS. Upon completing the run, every participant was awarded a finisher’s medal. Among the faculty members, Prof. K S James (Director & Senior Professor, IIPS), Prof. R B Bhagat, Prof. Sayeed Unisa, Prof. U S Mishra, Prof. T V Sekher, Prof. Nandita Saikia, Prof. Dhananjay Bansod, Prof. R Nagarajan, Prof. K C Das, Prof. S K Singh, Dr. Srinivas Goli, Dr. Kunal Keshri & Prof. M Sivakami (TISS) participated in the marathon.

The run was financially supported by USV, where all the registered participants received a T-shirt and a water bottle. Refreshments were served. Along with IIPSAA and marathon special volunteers, the Students Council of IIPS played a crucial role in making the event successful. Volunteers were present at the venue and along the route to guide the runners and to help in the smooth finishing of the marathon at the end-point. The police department also extended its support and guidance in making the event successful.







## IIPSAA Young Achievers

IIPSAA Conference Fund aims to support alumni of IIPSAA to attend an international academic conference to disseminate their research findings. This competitive fund can be available for researchers to present oral presentations at an international conference in or outside India. The following students have benefitted through IIPSAA funding to attend various conferences/workshops.

### 1. Nawaj Sarif, PhD Scholar, IIPS Mumbai

Conference Details: Population Association of America, 12-15 April 2023, New Orleans, Louisiana, USA

Paper Title: **“The Paradox of Urban Decline in India”**

Author: Nawaj Sarif and Archana K. Roy

Description: The paper highlights the global phenomenon of urban shrinkage in the Indian context. The study has found that 11.4 percent of towns have experienced population decline, and many are shrinking. It is paradoxical that despite having a low level of urbanization, India still faces population decline in many urban centers. Urban shrinkage will become a major challenge for urban planners and policymakers in the upcoming decades. Therefore, it is crucial to address this issue and take necessary actions.

*“Attending a conference abroad is a dream for every PhD student. Recently, I had the opportunity to attend the PAA Conference 2023 in New Orleans, USA, and it was one of the greatest experiences of my life. I am grateful to IIPSAA for helping me with the registration fee and making attending the PAA 2023 conference easier.”*



## 2. Dr. Ratna Patel, Junior Research Officer, NFHS-6

Conference Details: Policy Brief Talk, United Nations, Geneva, 23-25 June 2022

Paper Title: **“Earning gap and intimate partner violence: Testing Household Bargaining Model and Male Backlash Model theories”**

Description: This research attempts to outline the factors determining the violence against women in India, adopting a multilevel approach. Two rival economic hypotheses account for the incidence of domestic violence against women: Household Bargaining Model (HBM) and Male Backlash Model (MBM). They are employed to understand the predictors of violence against women.

*“I would not have been able to present this policy brief talk at the United Nations Office, Geneva, Switzerland if the IIPSAA committee had not provided me with the travel support. For this reason, I am very grateful to the IIPSAA committee, and I look forward to being associated with the organization for years to come.”*

## 3. Dr. Sekhar Chauhan, Senior Project Officer, LASI

Conference Details: Policy Brief Talk, United Nations, Geneva, 23- 25 June 2022

Paper Title: **ENRICH Marital Satisfaction Scale: Factor Structure and Reliability Study in rural population of Uttar Pradesh, India**

*“This work was part of my PhD research work. This research work examines the reliability of the ENRICH Marital Satisfaction Scale among married men in the Lalitpur and Shrawasti districts in Uttar Pradesh, India. Despite being selected for the oral presentation category, traveling costs were almost impossible for*

*me to cover without any financial aid, which is where the IIPSAA travel support came into play. For providing me with a travel grant to disseminate my PhD research work at the UN Office in Geneva, Switzerland, I am very grateful to the IIPSAA committee.”*



#### **4. Mihir Adhikary, PhD Scholar, IIPS Mumbai, IIPSAA Volunteer**

Conference: Population Association of Singapore 2023 Annual Meeting, National University of Singapore, 11-12, May 2023

Paper Title: “Neonatal, post-neonatal, child, and adult mortality attributable to household and ambient air pollution in India”

Author: Mihir Adhikary, Nandita Saikia, Pallav Purohit, Wolfgang Schöpp, Vladimir Canudas-Romo

Description: The paper highlights ambient and household air pollution and its association with mortality risk in life stages. This study is of paramount importance as it assesses the connection between air pollution and mortality in India. Pinpointing geographical pollution clusters and examining age-specific risks offers valuable insights for targeted public health interventions. The findings emphasize the urgency of adhering to air quality standards and reducing anthropogenic PM2.5 emissions to mitigate the substantial health risks of air pollution. Moreover, the study underscores the vulnerability of children to household air quality, necessitating measures to protect their health. This research provides critical information to guide policy decisions and improve public health outcomes.

*“My experience at the 2023 Population Association of Singapore annual meeting was truly remarkable. The conference offered unparalleled opportunities for cutting-edge research engagement and networking among scholars, providing invaluable insights into population health. Singapore’s juxtaposition of architectural marvels with abundant green spaces exemplified its commitment to urban planning, creating a refreshing blend of nature in the cityscape. This awe-inspiring experience enhanced my academic journey and allowed me to*

*embrace the city-state's unique charm. I am grateful to IIPSAA and IIPS for their generous funding support, enabling my attendance at this conference."*



## 5. Sourav Dey, PhD Scholar, IIPS Mumbai, IIPSAA Volunteer

Workshop: The 10<sup>th</sup> KOSTAT-UNFPA Summer Seminar on Population, Daejeon, South Korea, 24-28 July 2023

Attended two workshops:

- i) "Introduction to Demography with R."
- ii) "Standardization and Decomposition"



Workshop Description: The first workshop introduced basic demographic concepts and data; it explained the fundamental ideas about age, time, intensity, change, comparisons, and projection in demography using worked examples in R-language. In comparison, the second workshop demonstrated decomposition methods, the heart of demographic measures, and unifying standardization procedures with hands-on exercises using R and demographic data.

*an  
first time attending a workshop abroad. The opportunity to engage with international experts and immerse myself in a new academic environment was truly invaluable. I am immensely grateful to IIPSAA for their generous funding support, which made this journey possible. The workshop not only enriched my knowledge but also a truly transformative experience that has expanded my horizons and will undoubtedly benefit my future endeavors."*



## Achievements of IIPSAA Volunteers

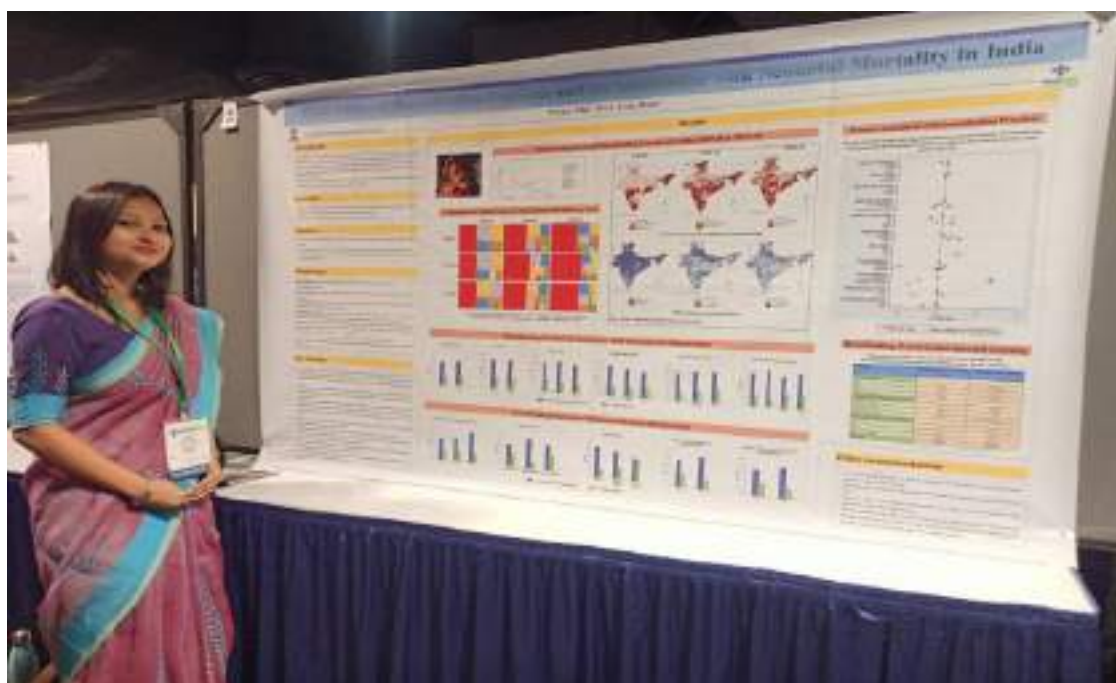
### 1. Piyasa Mal, PhD Scholar, IIPS Mumbai, IIPSAA Volunteer

Conference Details: Population Association of America, 2023, New Orleans, Louisiana, USA

Poster Title: **“First 3 days of breastfeeding practices and its association with neonatal mortality in India”**

Author: Piyasa Mal & Prof. Usha Ram

*“I am happy to share that I have received the ‘PAA (Population Association of America) Best Poster Award 2023’. Winning this prize is a noteworthy accomplishment and validation of my work. I would like to sincerely thank Prof. Usha Ram and my supervisor, Prof. Nandita Saikia, for supporting and advising me at every turn of my academic path. This conference allowed me to connect with researchers, scholars, and professionals worldwide, exchange knowledge, and explore the latest developments in our field. It allows me to broaden my perspective, gain new insight, and build a valuable international network.”*



### 2. Neha Kumari, PhD Scholar, IIPS Mumbai, IIPSAA Volunteer

Conference Details: “Population Dynamics in India, the World’s Most Populous Country conference,” which was held on May 10 and 11, 2023, at NYU Abu Dhabi campus.

Paper Title: **“What explains low cognitive functioning among older tribal people in India?”**

Authors: Neha Kumari and Prof. Nandita Saikia.



Description: The study aims to explain low cognitive functioning among tribal older adults in India. Using the Longitudinal Ageing Study in India (2017-18), a nationally representative sample, the study found that 77.5% (Coefficient: -2.73; p-value < 0.001) of the divergence attributed to caste-based differences was elucidated by varying characteristics. Addressing the educational chasm between tribal and non-tribal adults could potentially ameliorate cognitive inequity by 39% while narrowing the rural-urban residence divide could contribute an additional 8% reduction. Notably, among others, the absence of education emerges as a pivotal factor in the cognitive underdevelopment within India's tribal populace. Tailored educational policies targeted at tribal communities promise to foster cognitive growth and defer cognitive health deterioration.

*"I had always dreamed of traveling abroad, and this conference made that dream come true. It was a privilege to accompany some of the most brilliant faculty members from IIPS, which led to numerous enlightening discussions. The conference took place at NYU's Abu Dhabi campus, where I had the opportunity to engage in insightful discussions about India's population dynamics. I'm deeply thankful to my supervisor and the General Secretary of IIPSAA, Prof. Nandita Saikia, for providing me with this incredible opportunity."*



## Appointments of Alumni



**Dr Kunal Keshri** has joined as an Assistant Professor in the Department of Migration & Urban Studies on October 27, 2022.

**Dr Archana Kujur** has joined as an Associate Professor in the Department of Fertility and Social Demography on September 29, 2022.



**Ankita Siddhanta** has joined as an Assistant Professor (Research) at UH Population Health, University of Houston.

**Dr. Hanumant Waghmare** has recently joined as an Assistant Professor at Department of Sociology & Social Work, Hemvati Nandan Bahuguna Garhwal University, Srinagar, Uttarakhand.



**Dr. Mayanka Ambade** has joined as an Assistant Professor at the School of Humanities and Social Sciences, Indian Institute of Technology Mandi.

**Dr. Aishwarya** is working as an Assistant Professor, Public Policy at Ramaiah University of Applied Sciences, Bengaluru- Karnataka.



## Obituary

*We are sorry to inform you that during last few years, many distinguished alumni of IIPS passed. We are sharing the obituaries written by their friends, colleagues and family members.*



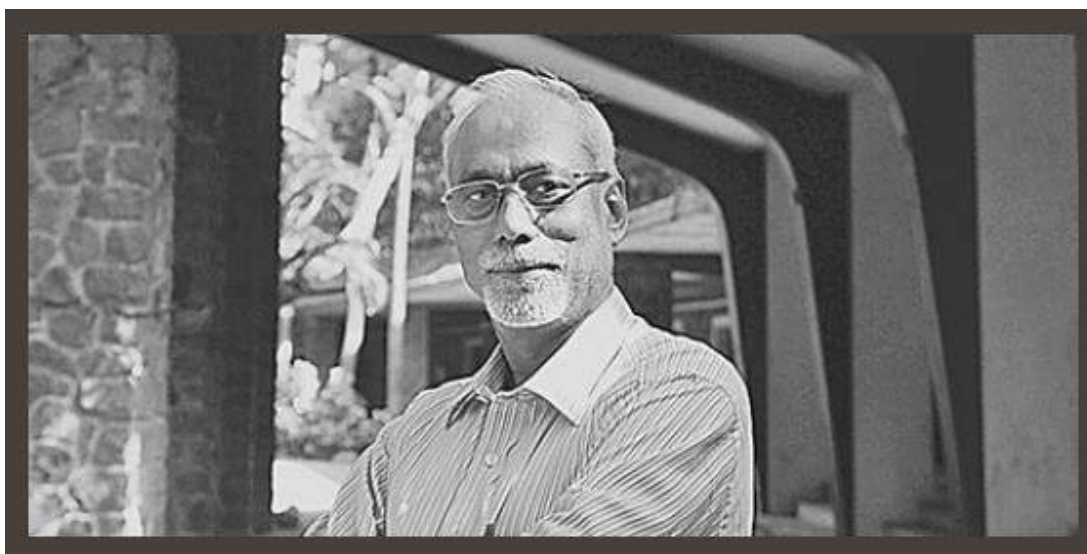
*Professor U P Sinha*  
(16-10-1935 to 26-02-2023)

Professor Sinha was born in Gaya, Bihar. He moved to Patna after completing his early education to pursue his interest in mathematics/statistics. Following his passion for statistics and instinct to be a lecturer, he migrated to Mumbai and joined IIPS in July 1964 while completing his Certificate in Population Studies (CPS) from during 1964 to 1965. He joined as a lecturer in 1968, was promoted to Reader and Professor, served as Head of the Department of Mortality and Public Health, and was Acting Director for a short time. Prof Sinha retired as a Professor in October 1995. Prof. U.P. Sinha's PhD thesis on "Demographic Study of Tribal Population of India" was highly recognized by researchers within demography and even outside the discipline. His contribution in revising the book entitled "India's Population Problem" by S N Agarwala was one of his great contributions to the demographic community.

Prof. Sinha married Ms. Indira Sinha in 1975 and has three children. Prof. Sinha, lovingly called by his colleagues and students as 'Chacha', was one of the most popular teachers of his time, and his masterly teaching of 'life table' was highly admired by his students. Prof. Sinha has done a pioneering demographic study of the Toda tribal community of South India. His extensive fieldwork among the Toda community in the Nilgiris highlighted the health and cultural practices and also brought to our notice high primary sterility among them in the late 1980s. He initiated the alumni association work in the early 90s. He had a major setback when his wife Indira passed away on September 22, 1999. His children completed education in later years and moved to the USA, where he spent many golden years before settling down in Delhi in 2016 in an Aashiana care home. He spent many good years in a care home with a dedicated, caring team before passing away on 26th Feb 2023.

**Neelu Sinha**

(Eldest Daughter of Prof. Sinha)



Prof S. Parasuraman  
(1952-2022)

We, the members of the IIPSAA community, are deeply saddened by the passing of Professor S. Parasuraman on September 2, 2022, in Pune. Professor Parasuraman was a distinguished alumnus of our institution, having received his certificate in Population Studies and a Ph.D. from the International Institute for Population Sciences, Mumbai.

He dedicated 14 years of his career to serving as the Director of the Tata Institute of Social Sciences (TISS) in Mumbai. Before assuming the Vice Chancellor role at MIT World Peace University in Pune, Prof. Parasuraman played a pivotal role as the university's Chief Advisor and Dean of the Faculty of Sustainability Studies (FSS). His illustrious career spanned over 25 years in the field of education, where he not only imparted knowledge but also functioned as an advocate, an administrator, and a catalyst for development. His contributions have left an indelible mark, and his memory will forever endure.

He had worked several times on the governing boards of IIPS and helped the Institute in its growth. Our heartfelt condolences go out to his grieving family, and we pray to the divine for the eternal repose of his soul. May he rest in eternal peace!

**Editorial Committee**





Prof. P. K. Bhargava  
(1953-2023)

We regret to inform all of our members of the tragic passing of Prof. PK Bhargava. On July 13, 2023, while Dr. Bhargava was visiting his daughter in the United States of America, he departed for his heavenly home. Dr. Bhargava was a well-known colleague among demographers and those who teach population studies. He was awarded a Rockefeller Foundation Special Postdoctoral fellowship in Population Sciences for advanced research in Population Sciences at the University of Southern California, Los Angeles, USA, 1989-90. After returning from the US, he joined Population Research Centre, Institute of Economic Research Dharwad, as Director & Professor and later joined the National Institute of Adult Education, New Delhi. He also served as Advisor (Demography, Economics & Statistics) to the General Directorate of Statistics, Central Informatics Organizations, Kingdom of Bahrain from 2008-2009.

He spent several years teaching population education and economics courses at the International Institute for Population Sciences (IIPS), Mumbai. Dr. Bhargava is one of the primary figures in founding the population education department at Udaipur University, of which he was incredibly proud. Dr. Bhargava was a really welcoming, kind, and warm individual. People who knew him and had a chance to visit him at his Gurgaon home can also attest to his ardent devotion to and affiliation with the IIPS.

We send his grieving family our sincere condolences and pray to God to give them the fortitude to cope with this unrecoverable loss. May he rest in eternal peace!

**Ravi Verma**

Regional Director

(International Center for Research on Women's Asia Regional Office)



Mrs A. Sebastian  
(1935-2021)

When I joined IIPS (then DTRC), Mrs Sebastian was my senior colleague. We, 7 to 8 persons, were working on the population simulation model project under the leadership of Dr. Venkata Chary. Mrs. Sebastian was a very humble, decent lady. She used to call me A. P. It was a great pleasure to work with her. She was also my guide for my research paper on Internal Migration in India during 1961-71 when I did my CPS during 1975-76. The reference of this paper is also given in the book written by late professor Asha Bhende. I had great respect for Mrs. Sebastian. She worked as Asst. and Associate Professor in the Department of Migration and Urbanization and in-charge of the computer centre for several years. Mrs. Sebastain retired from IIPS service in 1995. May god rest her soul in peace!

**Dr A.P. Deshpande**  
(Retired Faculty of IIPS)

## List of IIPSAA Members



It is a matter of great satisfaction that the size of IIPSAA community is expanding. As on record there are 472 members (including life members and student members). There is a need to approach other IIPSA to register as a member. Even other demographers who are not alumni of IIPS are encouraged to get membership (see the website).

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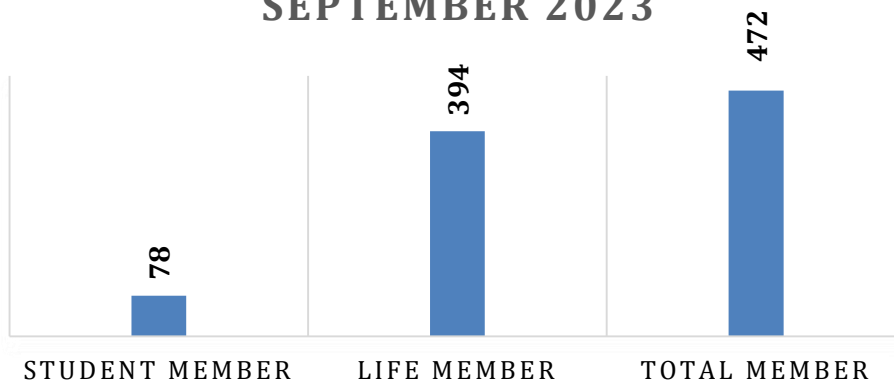
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### STATUS OF IIPSAA MEMBERSHIP SEPTEMBER 2023



# Summary Report:

## Technical Workshop on Child Development Index Methodology Framework Review



14 December 2022, Mumbai

**NITI Aayog, Government of India**

**UNICEF India**

**International Institute for Population Science (IIPS)**

## Background

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UNICEF India and NITI Aayog is working together with IIPS, technical partner, in developing a comprehensive measure to understand the multidimensional development among children and launch a flagship national report on the Status of India's Children establishing the status of child development across Child Rights domains based on an adapted methodology gaining consensus among stakeholders.

Designing national measure of child development index is a process that involves several important decisions at various levels. As a first step of consensus building among stakeholders, a one-day technical workshop on **'Child Development Index Methodology Framework Review'** was organised on 14 December 2022 jointly by UNICEF India, International Institute for Population Sciences (IIPS), and NITI Aayog, Government of India in Mumbai. Technical experts from five reputable national institutes such as Indian Statistical Institute (ISI), New Delhi, Indira Gandhi Institute of Development Research (IGIDR), Mumbai, Jawaharlal Nehru University (JNU), New Delhi, National Institute of Public Finance and Policy (NIPFP), New Delhi, and Institute for Social and Economic Change (ISEC), Bangalore were invited in the workshop to discuss and feedback on the jointly developed proposed methodology for the Child Development Index in India. Moreover, representatives from NITI Aayog, Ministry of Women and Child Development (MWCD), Government of India and DES, Government of Maharashtra had joined the workshop to provide their inputs into the discussions. Subsequently, to review the dimensions and indicators that the IIPS listed in consultation with UNICEF. Further, to discuss the next steps to shape technically sound methodology on Child Development Index in India.

The meeting started with a welcome address by Prof. K.S. James, Director IIPS. Ms. Hyun Hee Ban, Chief, Social Policy and Social Protection, UNICEF, and Ms. Indra Mallo, Joint Secretary, Ministry of Women and Child Development, Government of India, made the opening remarks. The introduction of all the participants followed by it.

IIPS Team in collaboration with UNICEF presented the proposed methodology framework before the technical experts and discussed around child rights domains, challenges and opportunities of different available data sources, a list of possible indicators for consideration, and the method to be adopted. Following are major take ways that emerged from this discussion.

### Major Takeaways:

#### A. Conceptual Framework

- Experts suggestion to focus on the developmental dimension than deprivation dimension is well taken. IIPS and UNICEF team is also in agreement with expert views that Life-course approach considered for preparing the CDI must equally cover all the ages 0-18 or find a mechanism for adjusting them through weighing

mechanism. Currently, there is an imbalance in indicators across the age spectrum and gender-wise.

## **B. Dimensions**

- IIPS and UNICEF team also in agreement with experts' suggestion for explain the rationale for selecting 7 dimensions based on the scoping review.
- Mapping of dimensions with different related central ministries.

## **C. Indicators**

- IIPS and UNICEF team also in agreement with experts' suggestion for explain the rationale for selection of the indicators and also to look beyond NFHS and consider indicators from macro data from other sources.
- IIPS and UNICEF team also look forward to cross-verify the current indicators with that of the already existing child indicators used by SDG index of NITI and also the child indicators relevant to other ministries.

## **D. Methodology**

- IIPS and UNICEF team agrees with expert suggestion to explore for multiple methodologies apart from the score method approached by us.
- In principle, we agree to work-out the index with HDR estimation procedure using macro data like U-DIES+.

## **E. Next steps**

- Mapping of domains in line with the indicators listed in SDI and central ministries.
- Providing summary statistics and justification for all indicators that were considered for child development index (CDI).
- Mapping of gaps of critical indicators in NFHS and complement with other data sources available across India and its states. Mapping of SDG indicators with different domains considered for CDI.
- Identification of macro-data sets and cross validating the aggregate micro estimates with macro estimates.
- Run the analysis considering both the approaches- (a) HDR method and (b) Scoring method.
- Conducting several robustness checks and sensitivity analyses to validate the indicators and estimates.



## Detailed Discussion and Expert Views

### Session-I

Prof. K.S. James chaired the first session. In the first session, introductions and the background of the project were presented by Dr. Urvashi Kaushik, UNICEF, followed by a presentation on the draft conceptual framework by Dr. Srinivas Goli, Associate Professor, IIPS. Dr. Urvashi gave an excellent background on the importance of child development indicators for policymaking. And how India has to develop one such measure for better child development policies in India. In his presentation, Dr. Goli introduced the proposed data sources, the dimensions and indicators list. Dr. Goli has also highlighted the challenges and opportunities of different available data sources and reasons for considering NFHS for the present analysis, conceptual framework, a detailed list of indicators, sub-indicators in each of the proposed dimension of CDI.

Prof. K.S. James has opened the session to discuss on the proposed data sets, dimensions, and indicators based on the presentations of Dr. Urvashi and Dr. Goli. Below, we have listed the comments of each the participants.

**Prof. Srijit Mishra, IGIDR:** gave insightful comments on data source proposed and clarity on dimensions and indicators listed for measuring CDI.

1. We need to talk about development indicators, not deprivation indicators. We need to be more focused on success rather than failure.
2. We should not be restricted to individual data constraints; we need to explore data sets like U-DISE for education and other macro data sources.
3. Can we do an exercise at the state level using administrative data and compare it with the estimates that we get from micro-data exercise.
4. For each age group (0-5, 6-14, and 15-19) if we can construct a matrix for each indicator and for each age group. And if we can identify the gaps in the matrix, those gaps (that is, data not available for a particular indicator and for a particular age group) can be filled with the data beyond NFHS.
5. To have better reach and acceptability of the CDI, we need to look beyond NFHS, maybe data from different ministries.

**Prof. S Chandrasekhar, IGIDR:** Prof. Chandrasekhar highlighted that efforts have to be made for administrative data so that we can track the needs in real time. Suggested that we can do an analysis using the microdata at hand and construct the same indicator using an administrative data and see the pattern emerging from these two different data sets. As an exercise, we may request the government of Maharashtra data on “SARAL” collected on education and see how CDI may differ using different data sources for robustness.

**Dr. Vani, ISEC:** Dr. Vani suggested that some dimensions should have higher weight; for example, education should not have much weight (importance) in 0-5 years. We may need to have different indices for different age groups by appropriate weights and aggregates. And raised the issue of parents as a respondent than the child itself; the issues of misreporting may happen, so we need to adjust it appropriately.

**Prof. Abhiroop, ISI:** Professor Abhiroop has raised concerns about using microdata and its rationale behind using microdata only. He highlighted the use of macro data when constructing such indices. With macro data, one has a different source of data for various indicators. Prof. Abhiroop also suggested the way-out combining indicators from the micro-macro data.

**Prof. Supriya, ISEC:** Professor Supriya has raised an important issue of migration, and she is of the opinion that if a parent migrates along with the children and not getting any benefits or not availing benefits at the destination, then how do we place those children in this index construction, whether one should consider parental migration as a positive or negative indicator.

**Prof. Saumen, JNU:** Pointed out that, when it comes to education, you see that ultimately it is empowering to the child, though learning outcome is the best way to measure whether the child is actually learning it, it is challenging to measure. So, we can keep it as a way to talk about the facilities we provide to the channel. When considering education indicators, can we consider existing facilities and the quality infrastructure that prevails in a district or state? One also needs to consider the family sizes, as families are very strategic regarding resource allocation among family members. The gender damage should become very important so the lower level of income family tends to be very strategic in resource allocations, and the girl child may suffer due to unequal resource allocations, family size coupled with the level of income on that particular family known should have considerate positions.

**Dr. Jitendra, DES:** Dr. Jitendra has suggested to use ICDS data on underweight and other child-malnutrition indicators. And also suggested the use of U-DISE data for educational outcome indicators. He has emphasized whether the crowding indicator is necessary when constructing CDI.

**Prasanna, UNICEF:** Highlighted that the age group 6-14 years is not harmonious with WHO/UN Definitions of Children and Adolescence; can we bifurcate it into 6-10 and 11-14 years. And we need to consider multicollinearity when considering these many indices for index construction.

**Prof. U.S. Mishra, IIPS:** Professor Mishra has clarified on use of microdata rather than macro data. Prof. Mishra has pointed out that by using microdata, we can have age-sex disaggregated indices. These segregations may not be possible using macro-level data. It should also be noted that with micro-data, we have a well-defined target group. Highlighted that in NFHS, we have well-defined denominators and numerator for each

proposed indicators. With the use of multiple source of data, Prof. Mishra pointed out that comparability issues may arise due to different dimensions and difference in numerator and denominator. And pointed out that we can agree to use one source of data like NFHS, or for that reason any survey that can be replicated and has some periodicity.

**Prof. K.S. James, IIPS:** thanked everyone for fruitful discussion and debate. And highlighted the difficulty in using different data sources when measuring the child indicators. He pointed out the difficulties and qualities of various data source in India. For example, NCRB shows that crime rates are much lower for state likes Uttar Pradesh and Bihar, and higher among states like Tamil Nadu and Kerala. Various source has pointed that the higher reporting among Tamil Nadu and Kerala is due to better reporting than UP and Bihar, the reporting error is one such issue of many lacunas in administrative data. He agreed on to exceptional good quality of U-DISE for education. However, pointed out that expect U-DISE none other data source discussed gives accurate data to construct any indicators at micro-level. Suggested that any part of discussion on data source is welcome and here we are flexible to go any data source given its complete information, and accuracy in information.

## **Session-II**

In the second session, Dr. Srinivas Goli has presented on methodology and had a discussion on each dimension and indicators presented by Dr. T.R. Dilip and Dr. Meheeb Rahaman. Experts have given opinion on the method and suggestions on the dimensions and indicators.

**Srijit, IGIDR:** Has highlighted that the proposed method gives us an aggregate level index of child development. From the method, we can conclude that we have simple averages, that means one dimension of wellbeing or achievement can be offset equally offset by shortcut in another dimension. Prof. Srijit, has suggested to look at MANUSH approach when constructing at indices. As a reference of normalisation of indicators, one can look at the "FIRM Sustainability Index". Before normalising the variables, one has to define proper 0 and 1 score in each indicator.

One can also consider adding indicators from other sources for age groups that were not covered in NFHS.

**Prasanna Ash, UNICEF:** Has highlighted that this report opts to bring out based on the principle of the intensity of the rights of the child. And emphasized that when we use macro and micro data for index construction then we may not be able to retain the individual level information.

**Prof. Abhiroop, ISI:** In weighing exercise of each indicator, one should consider the difference in whether to control weights or to control number of indicators. And also suggested that equal weights to each children assumes equal impact, if we are not

normalising the indicators, the change we intended to measure may not be captured well. The following suggestion were made with regard to indicators.

In economic well-being, wealth score will be a good reflection of household's economic well-being. Taking quintiles of the score and defining bottom two quintiles as poor will be a good approximate for economic well-being.

**Prof. Vani, ISEC:** has raised an important issue on identifying the multidimensional developed or deprived children. We may need to identify how many children each dimension or better-off or deprived. If possible, can we have mental health data from surveys like NSS along with indicators like drop-out, child-mortality and under-nutrition may be considered.

**Prof. Saumen, JNU:** has suggested on intersectionality of dimensions need to be considered. And told that weights should be endogenously determined. If possible then rights index of children as constructed by KIDS RIGHT organisation may be considered. With increase in digital learning, we can also include the access to digital world indicators like- access to cell phones, internet, TV in the household.

**U.S. Mishra, IIPS:** has clarified that what this report intended to do is not just an aggregation of children, but it's an aggregation of phenomenon. This index score or indexing it is a comparative construct of situation and compared this comparative construction of the situation against the ideal or seems to be ideal and that is we can say that what is the extension of development failure or development was good. We can identify the child characteristics who will had their right or failure using the proposed analytic framework. All the discussed dimensions and indicators will be normalised.

**Dr. Srinivas Goli, IIPS:** has shed lights on the adoption of Score method, and emphasised on using NFHS data for construction of child development index. Dr. Goli has clarified on the robustness and sensitivity analyses to be conducted along with the index construction exercise. Highlighted on the decomposition analysis to get a greater perspective on what dimensions are contributing towards the child development index in India and its states.

**Dr. Urvashi Kaushik, UNICEF:** has shed lights on why we are considering outcome variables as on indicator. Identified indicators may be mapped to particular SDG goals. And has discussed on the indicators of menstrual knowledge proposing that it may be good to have a usage of menstrual pad or sanitary pads as an indicator than the knowledge itself. Highlighted that the particular menstrual indicator is only used for girls or women than boys. So, how we going to address the issues of lesser or more indicators for a particular age groups.

**Hyun Hun Ban, Chief, UNICEF:** thanked all the experts for their suggestions and feedback. Highlighted the importance of the report along with the measurement problems in India.



## List of participants

### Member from MWCD (Virtual)

1. **Ms. Indra Mallo**, Joint Secretary, Ministry of Women and Child Development, Government of India

### Member from NITI (Virtual)

1. **Dr. Prem Singh Bogzi**, SDG Advisor, NITI Aayog, Government of India / their team

### Experts

1. **Prof. Supriya Roy Chowdhary**, Institute for Social and Economic Change (ISEC), Bangalore.
2. **Dr. B P Vani**, CESP, Institute for Social and Economic Change (ISEC), Bangalore.
3. **Prof. Saumen Chattopadhyay**, Zakir Husain Centre for Educational Studies, SSS, Jawaharlal Nehru University (JNU), New Delhi.
4. **Prof. Lekha S. Chakraborty**, National Institute of Public Finance and Policy (NIPFP), New Delhi (Virtual)
5. **Prof. Srijit Mishra**, Indira Gandhi Institute of Development Research (IGIDR), Mumbai
6. **Prof. Abhiroop Mukhopadhyay**, Economics and Planning Unit, Indian Statistical Institute (ISI), Delhi.
7. **Prof. S Chandrasekhar**, Indira Gandhi Institute of Development Research (IGIDR), Mumbai.

### Members from IIPS, Mumbai

1. **Prof. K.S. James**, Director and Senior Professor.
2. **Prof. Udaya Shankar Mishra**, Professor.
3. **Dr. TR Dilip**, Associate Professor.
4. **Dr. Srinivas Goli**, Associate Professor.
5. **Harchand Ram**, Research Analyst.
6. **Umenthala Srikanth Reddy**, Research Analyst

### Members from UNICEF

1. **Hyun Hee Ban**, Chief, Social Policy Social Protection, UNICEF India, New Delhi
2. **Urvashi Kaushik**, Social Policy Monitoring and Evaluation Specialist, UNICEF India, New Delhi.
3. **Mehebab Rahaman**, Technical Consultant, Child Poverty Measurement and Data, UNICEF India, New Delhi
4. **Prasanna Ash**, Planning, Monitoring & Evaluation Specialist, UNICEF India, Patna
5. **Dr. Joemet Jose**, Consultant, UNICEF India, Mumbai

### Members from DES, Govt. of Maharashtra

1. **Mr. Vijay Aher**, Director, Directorate of Economics and Statistics, Government of Maharashtra
2. **Dr. Jitendra Choudhary**, Additional Director, Evaluations, Directorate of Economics and Statistics, Government of Maharashtra

14 November 2023

**Certification of Presentation at Population Association of Singapore (PAS) 2023 Annual Meeting in Singapore**

This is to certify that Mihir Adhikary, from the International Institute for Population Sciences, has presented their paper "*Neonatal, Post-Neonatal, Child, and Adult Mortality Attributable to Household and Ambient Air Pollution in India*" at the Population Association of Singapore (PAS) 2023 Annual Meeting in Singapore, co-organised by the Population Association of Singapore and Centre for Family and Population Research, with the theme "***Building Singapore's Population Towards a Better Future***", and held from 11-12 May 2023 at the National University of Singapore.

Please contact the main organizer at [contactus@sgpopulation.org](mailto:contactus@sgpopulation.org) should you need further information.

Yours Sincerely,



Professor Wei-Jun Jean Yeung  
Co-Chair, [PAS 2023 Annual Meeting](#)  
President, Population Association of Singapore ([PAS](#))  
Provost Chair Professor, Department of Sociology and Yong Loo Lin School of Medicine  
Founding Director, Centre for Family and Population Research ([CFPR](#))  
National University of Singapore

4 April 2023

Mihir Adhikary  
International Institute for Population Sciences, Mumbai  
India

**Invitation to Present Paper at Population Association of Singapore  
(PAS) 2023 Annual Meeting in Singapore**

Dear Mihir Adhikary,

Congratulations!

Your paper "*Neonatal, post-neonatal, child, and adult mortality attributable to household and ambient air pollution in India*" has been accepted for oral presentation at the Population Association of Singapore (PAS) 2023 Annual Meeting in Singapore, with the theme "Building Singapore's Population Towards a Better Future". The conference is organised by the Population Association of Singapore in collaboration with National University of Singapore's Centre for Family and Population Research. The conference will be held on 11-12 May 2023 at the National University of Singapore.

PAS currently does not provide any financial support to the participants for travel, accommodation, or registration fees. We seek your understanding and sincerely hope that you will be able to obtain funding from other sources to participate in the conference.

We look forward to your attendance at the conference. Please contact the main organizer at [contactus@sgpopulation.org](mailto:contactus@sgpopulation.org) should you need further information.

Yours Sincerely,



Professor Wei-Jun Jean Yeung  
Co-Chair, [PAS 2023 Annual Meeting](#)  
President, Population Association of Singapore ([PAS](#))  
Provost Chair Professor, Department of Sociology and Yong Loo Lin School of Medicine  
Founding Director, Centre for Family and Population Research ([CFPR](#))  
National University of Singapore

ID: PAS2023\_150



THE INTERNATIONAL ACADEMIC FORUM  
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The Asian Conference on Aging & Gerontology (AGen2024)  
Toshi Center Hotel | Monday, March 25, 2024 to Friday, March 29, 2024

December 13, 2023

Corresponding Author: Ayushi Das, International Institute for Population Sciences, India

Contact Email: ayushi.das1999@gmail.com

Submission Title: Application of Machine Learning in Measurement of Ageing and Geriatric Diseases: A Systematic Review

Submission Number: 76813

Authors: Ayushi Das, and Preeti Dhillon

Presentation Type: Oral Presentation

Dear Ms Das,

On behalf of the AGen2024 Organising Committee, I am pleased to inform you that your Oral Presentation proposal, "Application of Machine Learning in Measurement of Ageing and Geriatric Diseases: A Systematic Review", for AGen2024 has met the accepted international academic standard of blind peer review, and has been accepted for presentation.

The conference will be held in Tokyo, Japan, and online from Monday, March 25, 2024 to Friday, March 29, 2024. For more detailed information about the conference, please visit the conference website.

To confirm your participation in the conference, please register by Friday, January 26, 2024. Once you have registered, if you cannot present for any reason, please notify the conference team at [support@iafor.org](mailto:support@iafor.org). We are only able to accommodate schedule requests for religious reasons or other exceptional and unavoidable circumstances.

Thank you for submitting to The Asian Conference on Aging & Gerontology. We look forward to welcoming you to the conference.

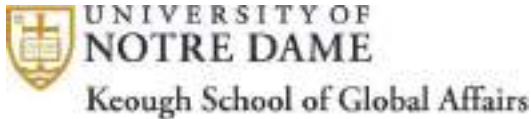
Yours Sincerely,

A handwritten signature in dark ink, appearing to read "Joseph Haldane", is written over a horizontal line.

Joseph Haldane, PhD (London), F.R.A.S.  
Chairman & CEO, IAFOR

The International Academic Forum (IAFOR),  
Sakae 1-16-26 - 201, Naka Ward, Nagoya, Aichi, Japan 460-0008  
International, Intercultural, Interdisciplinary





**1010 Jenkins Nanovic Halls  
Notre Dame, Indiana 46556  
(574) 631-3426 [keough.nd.edu](mailto:keough.nd.edu)**

January 24, 2023

Kaushalendra Kumar  
Department of Public Health & Mortality Studies  
International Institute for Population Sciences  
Mumbai, India

Dear Dr. Kaushalendra Kumar,

I am writing to invite you to visit Keough School of Global Affairs and Eck Institute of Global Health at the University of Notre Dame as visiting scholar from April 16-April 28, 2023. The visiting scholar offers their expertise and promotes discussion among students and faculty on issues of critical importance to global health and economic development.

I invite you to work on the research project titled "Antenatal care and birth weight in India" using the 5<sup>th</sup> round of the National Family Health Survey. During your visit, you are expected to conclude the data analysis and draft a preliminary version of the manuscript.

The University of Notre Dame will not bear any costs related to your travel/lodging, per diem but will provide office space and internet access to carry out the research activity under my supervision.

I hope you will accept my invitation and I look forward to meeting and working with you on the proposed research activity. Let me know if you have any questions.

With best wishes,

A handwritten signature in black ink that reads "S Kumar".

**Santosh Kumar, Ph.D.**

Associate Professor of Development and Global Health Economics  
Keough School of Global Affairs  
University of Notre Dame  
[skumar23@nd.edu](mailto:skumar23@nd.edu) | [keough.nd.edu](http://keough.nd.edu)

**Affiliations:** Eck Institute for Global Health | Kellogg Institute For International Studies



## Memorandum of Cooperation / 協力覚書



Between :

**The International Institute for Population Sciences**,  
(hereinafter called "IIPS"), A Deemed-to-be-University under the  
administrative control of the Ministry of Health & Family Welfare,  
Government of India.

And

**The National Institute of Population and Social Security  
Research** (hereinafter called "IPSS"),

Each is individually called a "Participant", collectively called the  
"Participants".

Participants decided as follows :

### **Background**

IIPS is a public research institute and a University, specialized in  
population studies, that works in partnership with the academic and  
research communities at national and international levels.

当事者 :

インド国際人口研究所 (以下「IIPS」という。)  
インド保健・家族福祉省所管公立大学

及び

国立社会保障・人口問題研究所 (以下「社人研」という。)

IIPS 及び 社人研を単独で「当事者」といい、両者を総称して「両当事者」  
という。

両当事者は次のとおり決定した :

### **背景**

IIPS は、人口研究を専門的に行う公的研究機関・大学であり、国内及び国際的  
な学術及び研究関係者と協力して活動している。

IIPS's missions is to strive to be a centre of excellence on all population and relevant issues through high quality education, teaching, and research. This is achieved by

Creating competent professionals,  
Generating and disseminating scientific knowledge and evidence,  
Collaborating and exchanging knowledge, and  
Advocacy and awareness.

IPSS is a public research institute created by merging the Institute of Population Problems founded in 1939 and the Social Development Research Institute founded in 1965. Along with investigating the trends of population and households, the Institute carries out research concerning social security policies and systems in Japan and abroad.

These same tasks, in a shared domain, brought IIPS and IPSS to introduce a collaboration, noting the Agreement between the Government of Japan and the Government of India on co-operation in the field of science and technology.

## 1. PURPOSE

This Memorandum of Cooperation (hereinafter called "the Memorandum") is to confirm the common intention of the Participants to cooperate in order to promote joint research/teaching.

## 2. SCOPE OF THE PARTNERSHIP

IIPS の使命は、質の高い教育と研究を通じて、人口に関する全ての側面について卓越した研究拠点となることである。これは、以下を通じて達成される。

高度人材育成  
科学的な知識とエビデンスの提供  
研究協力と交流  
啓蒙活動と意識向上

社人研は、1939年に設立された厚生省人口問題研究所と1965年に設立された特殊法人社会保障研究所との統合によって創設された公的研究機関である。この機関は、人口や世帯の動向を調査するとともに、日本及び海外の社会保障政策及び制度に関する研究を行っている。

IIPS と社人研は、科学技術の分野における協力に関する日本国政府とインド政府との間の協定に留意しつつ、共有する分野でのこれらの共通する課題において、協力を実現することとなった。

## 1. 目的

本協力覚書（以下「本覚書」という。）は、共同研究又は指導を推進するために協力するという両当事者の共通の意図を確認するものである。

## 2. 協力関係の範囲

The partnership covers two fields:

- research activities;
- dissemination and promotion of research. This can be implemented through various forms, in particular:

- exchange of visits by researchers to participate in workshops, seminars and conferences;
- sharing data, when possible, such as sample surveys, statistics and databases;
- development of joint research projects by the Participants;
- jointly-held workshops, seminars and conferences, and all other types of scientific events by the Participants;
- publishing the outcome;
- collaboration between libraries and/or documentation centres;
- Acceptance of visiting researchers

### 3. IMPLEMENTATION OF THE PARTNERSHIP

The selected projects by mutual consent between the Participants will be implemented through an implementation plan which will be made by relevant researchers of the Participants, in line with the research programme prepared by the project manager(s).

The implementation plan will be drafted in line with the present Memorandum.

両機関の協力関係の範囲は、次の2つの分野とする。

- 研究活動
- 研究の普及及び促進

これは、特に、以下を含む様々な形態で実施することができる。

- ワークショップ、セミナー及び会議への参加を目的とした研究者の相互訪問
- 可能な場合には、標本調査、統計及びデータベースなどのデータの共有
- 両当事者による共同研究事業の形成
- 両当事者によって開催されるワークショップ、セミナー、会議その他科学的なイベントの共催
- 成果の公表
- 図書館又は文献センターの間の協力
- 客員研究者の受入れ

### 3. 協力関係の実施

両当事者間の同意によって選択された事業は、事業管理官が作成した研究計画に従って、両当事者の関係する研究者によって作成される実施計画に基づき実施される。

実施計画は、本覚書に従って起草され、以下の事項について規定する。



It specifies :

- the title;
  - the purpose;
  - the contents;
  - the name of project managers appointed by each Participant;
  - the duration of the project (it cannot exceed the duration of the Memorandum).
- 
- If necessary :
    - human resources;
    - financial resources;
    - material resources;
    - administrative modalities;
    - confidentiality rules;
    - the intellectual property system;
    - the applicable law and competent tribunals.

#### 4. MODIFICATION

This memorandum may be modified by an addendum.

#### 5. DURATION

##### 5.1. Commencement of Cooperation and Duration

Cooperation under this Memorandum will commence on the signature date and continues for a period of 2 years. Cooperation under this Memorandum will be automatically renewed every two years after the period of 2 years unless it is ended.

標題

目的

内容

各当事者に指名された事業管理官の名前

事業の継続期間（本覚書の継続期間を超えることはできない。）

必要に応じて：

- ・ 人的資源
- ・ 資金
- ・ 物的資源
- ・ 管理の様式
- ・ 秘密性についての規則
- ・ 知的財産に関する制度
- ・ 適用法規及び権限のある裁判所

#### 4. 修正

本覚書は、補遺によって修正することができる。

#### 5. 期間

##### 5.1 協力の開始及び期間

本覚書に基づく協力は、署名日に開始し、2年間継続する。本覚書が終了されない限り、本覚書に基づく協力は2年の期間の後、更に2年間自動的に継続する。

The latter Participant that signed this Memorandum will notify the other Participant of the completion of the signature of Memorandum within a week from the signature date and send one copy of this Memorandum to the other Participant.

## 5.2. Discontinuation

Cooperation under this Memorandum may be ended at any time by either Participant.

The discontinuation is implemented by registered mail with return receipt, with at least 6 months prior notice which certifies the receipt by the other Participant of the request for discontinuation.

This Memorandum is not legally binding but a document of intention, and does not create any legal right and obligation between the Participants under domestic and international law.

This Memorandum is written in English and Japanese, all texts having equal values. In cases of conflicting interpretation concerning this Memorandum, English version will prevail.

2 copies of this Memorandum are made and each Participant will have one copy.

本覚書に署名した当事者のうち遅い方の当事者は、他方の当事者に対し、署名日から 1 週間以内に署名の完了を通告し、本覚書の写しを一部送付する。

## 5.2 終了

本覚書の下での協力はいずれかの当事者によって、いつでも終了することができる。

その終了は、もう一方の当事者が終了の少なくとも 6 か月前までになされた事前の終了要求通知を受領したことを証明する受領証明付書留郵便によって行われる。

本覚書は、法的拘束力のない意図表明の文書であり、両当事者に国内法上及び国際法上のいかなる法的権利及び義務も生じさせるものではない。

本覚書は、英語及び日本語により作成され、全てが同等の価値を持つ。本覚書の解釈に関して相違が生じた場合には、英語による。

本覚書は 2 部作成され、各当事者が 1 部ずつ保管する。

**For IIPS**

インド国際人口研究所

Mumbai ムンバイ (India インド)

Date 日付:



Prof. K.S. James  
Director & Sr. Professor  
所長 K. S. ジェームス

**For IPSS**

国立社会保障・人口問題研究所

Tokyo 東京 (Japan 日本)

Date 日付: 28 Feb 2023



Mr. TANABE Kuniaki  
Director-General  
所長 田辺 国昭



**Jharkhand Statistical Society (JSS)**  
**In Collaboration with**  
**Central Institute of Psychiatry**  
**Kanke, Ranchi-834006, Jharkhand**  
**Certificate**



**The Best Paper Presentation**

This certificate is awarded to Dr./Mr./Ms. **Rumaan Alam**  
for presenting Paper On **Applications of Spatial Analysis and**  
**Geographic Information System in Mental Health: A Systematic Review**  
at the National Seminar on "Statistics for Researchers" held on 30<sup>th</sup> June  
2023, on the occasion of National Statistics Day Celebration.

**Hariom Pachori**  
Organizing Secretary

**Prof. Basudeb Das**  
Director, CIP

अन्तर्राष्ट्रीय जनसंख्या  
विज्ञान संस्थान  
(विश्वविद्यालय समतुल्य)



International Institute for  
Population Sciences  
(Deemed to be University)

संस्थान एवं विभाग संयुक्त कार्यालय, अन्तराष्ट्रीय जनसंख्या विज्ञान संस्थान  
डी.एन. रेड्डी मार्ग, देवरा, मुंबई - ४०० ०८८, भारत

(स्थापित - १९८६)  
विभाग भवन के लिए समर्पित निर्माण  
Capacity Building for a Better Future

An Autonomous Organisation of Ministry of Health & Family Welfare, Govt. of India  
S.D. Desai Marg, Devra, Mumbai - 400 088, INDIA

प्रोफेसर के. एस. जेम्स / Professor K. S. James

निदेशक एवं वरिष्ठ प्रोफेसर / DIRECTOR & Sr. PROFESSOR

No. DIR/Abroad/ 1/79/2023

Dated: February 27, 2023

Dear Mr. Mihir Adhikary

I am pleased to note that you would be presenting a paper entitled " Neonatal, post-neonatal, child and adult mortality attributable to household and ambient air pollution in India" in the Annual conference of the Population Association of Singapore, during May 11-12, 2023.

Your request for financial support to attend the training/workshop at in the Annual conference of the Population Association of Singapore, during May 11-12, 2023 was considered by the foreign travel assistant committee. The committee has approved your request for a maximum of Rs. 40,000/- (Rupees forty thousand only) subject to the production of travel bills and other documents, as per the provision of the Institute.

With best regards,

Yours sincerely,

(Prof. K.S. James)  
Director & Sr. Professor

Mr. Mihir Adhikary  
2nd Year Ph. D student  
I.I.P.S.  
Mumbai



# First 3 Days of Breastfeeding Practices and Its Association with Neonatal Mortality in India

Piyasa Maji<sup>1</sup>, Prof. Usha Ram<sup>1</sup>



<sup>1</sup> International Institute for Population Sciences

## Introduction

Breastfeeding is the most important factor for neonatal survival. It provides the best nutrition and protection against infections. However, in India, the practice of exclusive breastfeeding for the first 6 months is still low.

## Objectives

To assess the prevalence of breastfeeding practices in India (2015-21) and its association with neonatal mortality.

## Methods

We used data from the National Family Health Survey (NFHS-5) to analyze breastfeeding practices and neonatal mortality in India.

## Results

The prevalence of exclusive breastfeeding for the first 6 months was 48.5% in India. The association between breastfeeding practices and neonatal mortality was analyzed using logistic regression.

## Key Findings

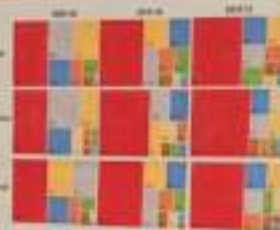
The study found that exclusive breastfeeding for the first 6 months was significantly associated with lower neonatal mortality. The association was stronger for infants born to women with higher education and income.

## Results

### Trends and patterns of breastfeeding Practices in India (2015-21)



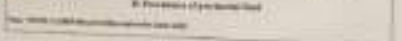
### Prevalence of children by pre-lactated and delivery type



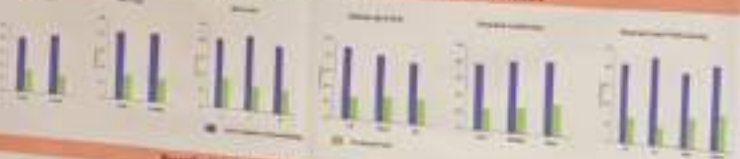
### Prevalence of top 10 indicators of breastfeeding



### Prevalence of exclusive breastfeeding



### Breastfeeding Practices by neonatal, child and maternal characteristics

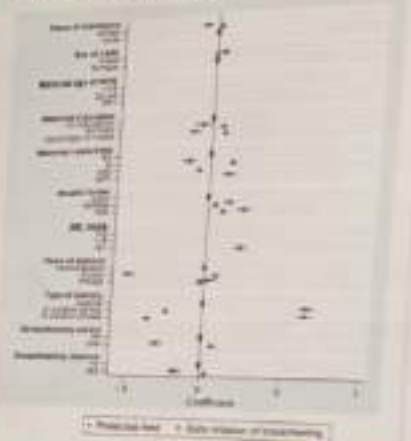


### Breastfeeding Practices by Maternal education characteristics



## Factors associated with breastfeeding Practices

Results of bivariate analysis showing the association of early initiation of breastfeeding and exclusive breastfeeding with neonatal mortality in India (2015-21).



## Breastfeeding Practices and neonatal mortality

Summary statistics showing the association between breastfeeding practices and neonatal mortality in India (2015-21).

Indicator	Prevalence (%)	Number of Deaths
Exclusive breastfeeding for the first 6 months	48.5	1234
Early initiation of breastfeeding	78.9	2345
Exclusive breastfeeding for the first 3 months	34.5	567
Exclusive breastfeeding for the first 4 months	23.4	456
Exclusive breastfeeding for the first 5 months	12.3	345
Exclusive breastfeeding for the first 6 months	48.5	1234

## Policy recommendations

- 1. Strengthen the role of health workers in promoting breastfeeding practices.
- 2. Improve the quality of breastfeeding counseling and support.
- 3. Increase the awareness of the benefits of breastfeeding.
- 4. Provide financial incentives to women who practice exclusive breastfeeding.
- 5. Strengthen the role of community health workers in promoting breastfeeding practices.



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