

**LINCOLN INTERNATIONAL INSTITUTE FOR RURAL HEALTH
SEMINAR SERIES**

Professor Sanjay Juvekar

**Professor and Head, Vadu Rural Health Program,
KEM Hospital Research Centre, Pune**

Friday 28th January 2022 at 10:30 UK time.



**UNIVERSITY OF
LINCOLN**

***The North-South Collaborations: approach and
opportunities in conducting global health
research in rural India***

Welcome to the session, we will begin shortly.

Please ensure your microphone & video are muted.

There will be an opportunity for Q&A at the end of the Seminar.



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KEM Hospital Research Centre Pune

Vadu Rural Health Program

The North-South Collaborations: approach and opportunities in conducting global health research in rural India

Rutuja Patil & Sanjay Juvekar

28th January 2022, Lincoln International Institute for Rural Health



This presentation includes:

- Introduction to Vadu Rural Health Program & learnings
- Challenges of researchers working in rural India
- Overcoming challenges using ongoing research program
- Contribution of Northern Collaborations in overcoming challenges
- RESPIRE example to showcase North-South collaboration
- Opportunities for collaboration
- **Future research to address major health challenges**
- Engaging for showcasing

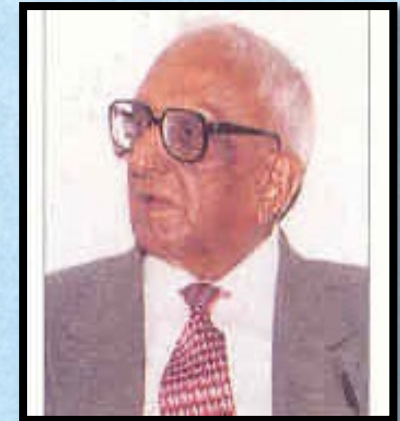
KEM Hospital Pune

- Established in 1912
- Largest 'not-for-profit' Hospital in Pune
- Societies' Registration Act 1860 and the Bombay Public Trusts Act 1950
- 550-bedded, tertiary-level teaching institution
- Serves Pune urban & rural as well as patients from neighbouring states



KEM Hospital Research Centre Pune (KEMHRC)

- 1973: Started research centre to commemorate Golden Jubilee celebrations of KEM Hospital
- 1985: Registered as an independent charitable trust
- 1988: ICMR Center of National Importance
- 1988: DSIR, Scientific and Industrial Research Organization
- 1988: Initiated **Vadu Rural Health Program**
- 1999: NIHFV recognized as Collaborating Training Institute (CTIs) for RCH program



Learnings from Vadu Rural Health Program...

Biggest learning: Convert scarcity into opportunity

...it was scarcity of everything @Vadu in 2002



©2002, Vadu Rural Health Program, KEMHRC Pune

History of VRHP

1973: Vadu
Primary
Health Unit

1986: Shirdi
Saibaba
Rural
Hospital
(tripartite
partnership)

1988: VRHP
as outreach
program

2002: Vadu
HDSS

2004: Vadu
Research
Unit



...contd History of VRHP

2005:
Initiated
vaccine
Trials

2009-10:
Research
laboratories

2010:
Expansion of
study area

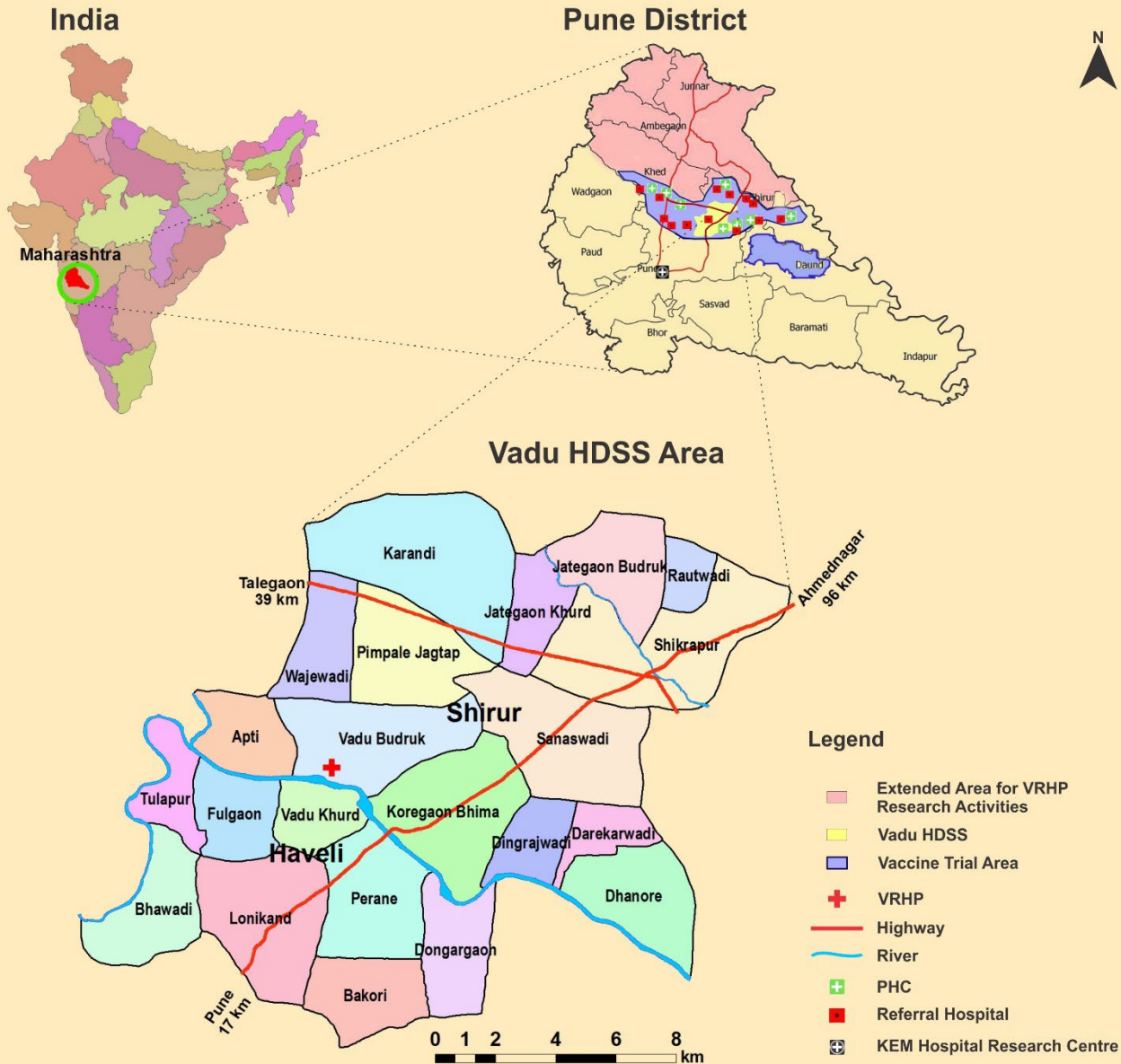
2011: Core
Vaccine
Research
Unit

2015: Joint
Field unit
with Govt.
and
implementat
ion research

2022:
Amidst
COVID-
Communi
ty Health
Research
Unit
(CHRU)



Vadu Rural Health Program (VRHP) Area



- Population covered
 - Vadu HDSS: 1,80,000
 - Vaccine Trial area: 5,00,000
 - Extended Area: 10,00,000

Clear Mission is important for team building

“Provide evidence-based, sustainable and rational health care solutions for the rural population using globally relevant community-based ethical research”

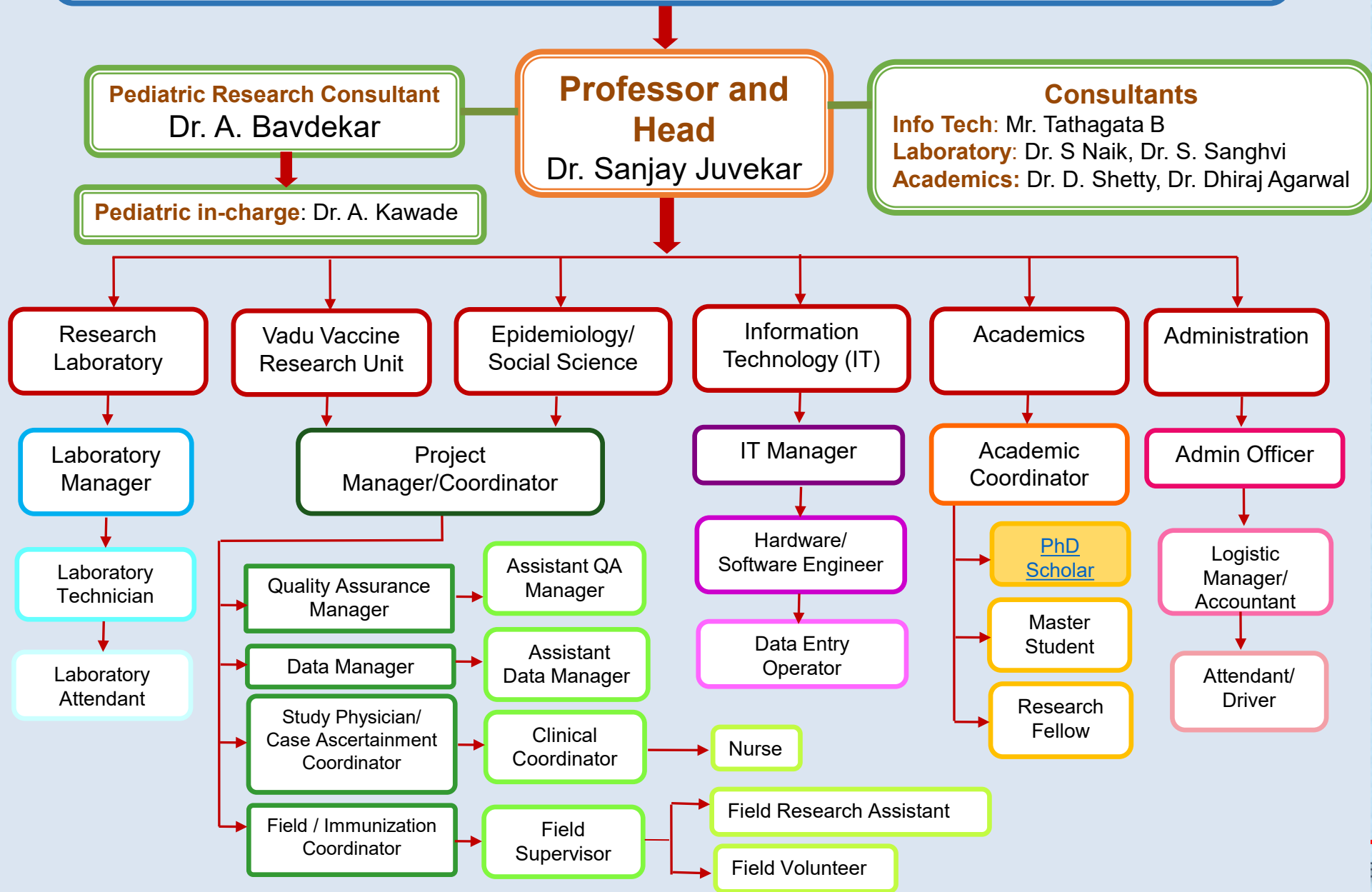


Challenges of researchers working in rural India...

- Infrastructure building and maintenance (laboratory, clinics, *etc.*)
- Community/ local politics
- Identifying, procuring and maintaining equipment
- Phone & Internet connectivity
- Distance and access to better facilities (education, training & health)
- Unavailability of roads and travel options
- Identifying qualified local team
- Keeping local medical fraternity interested & involved
- Lesser capacity building opportunities

Overcoming challenges using
ongoing research program...

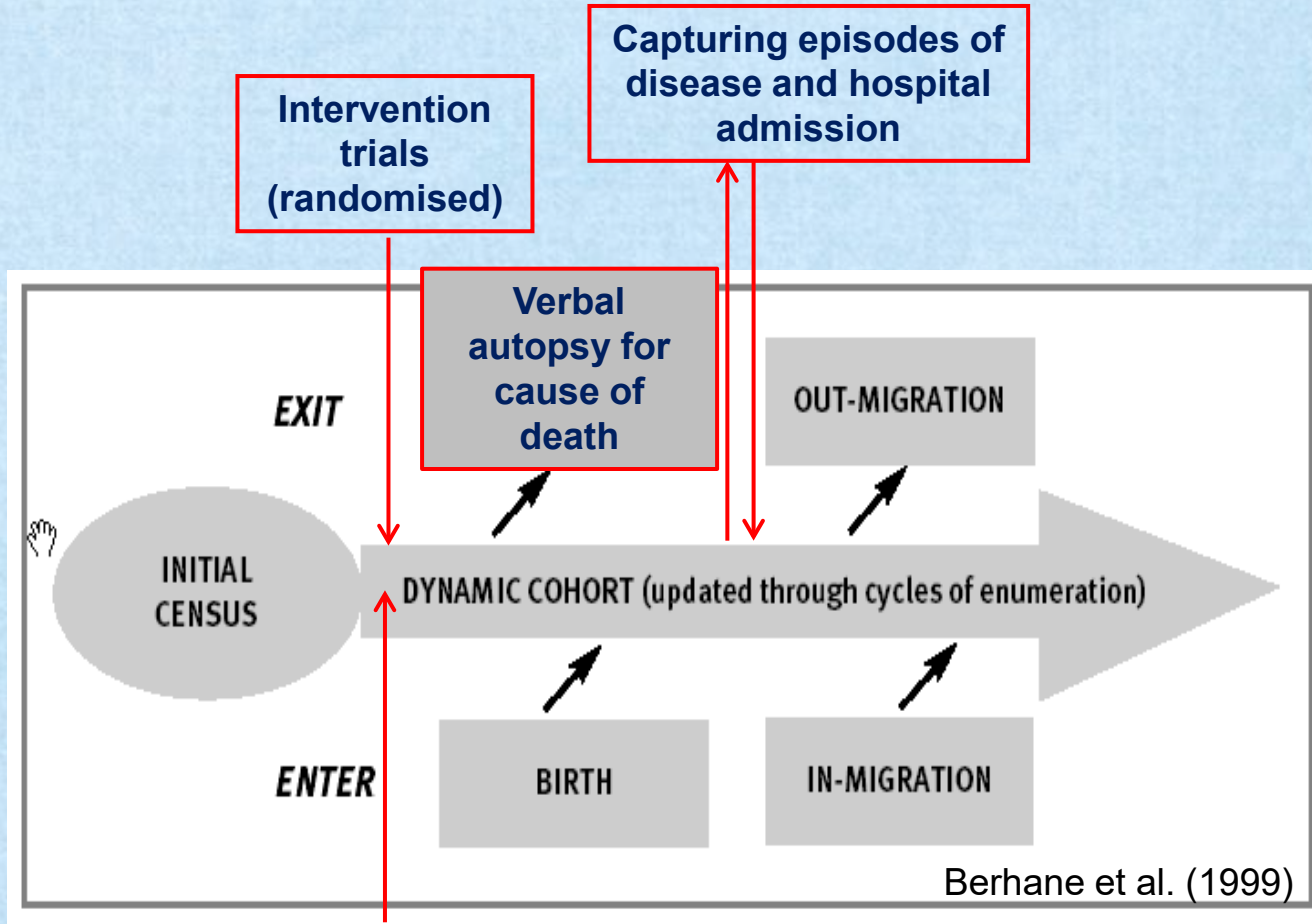
Vadu Rural Health Program, KEM Hospital Research Centre Pune, Site Organogram



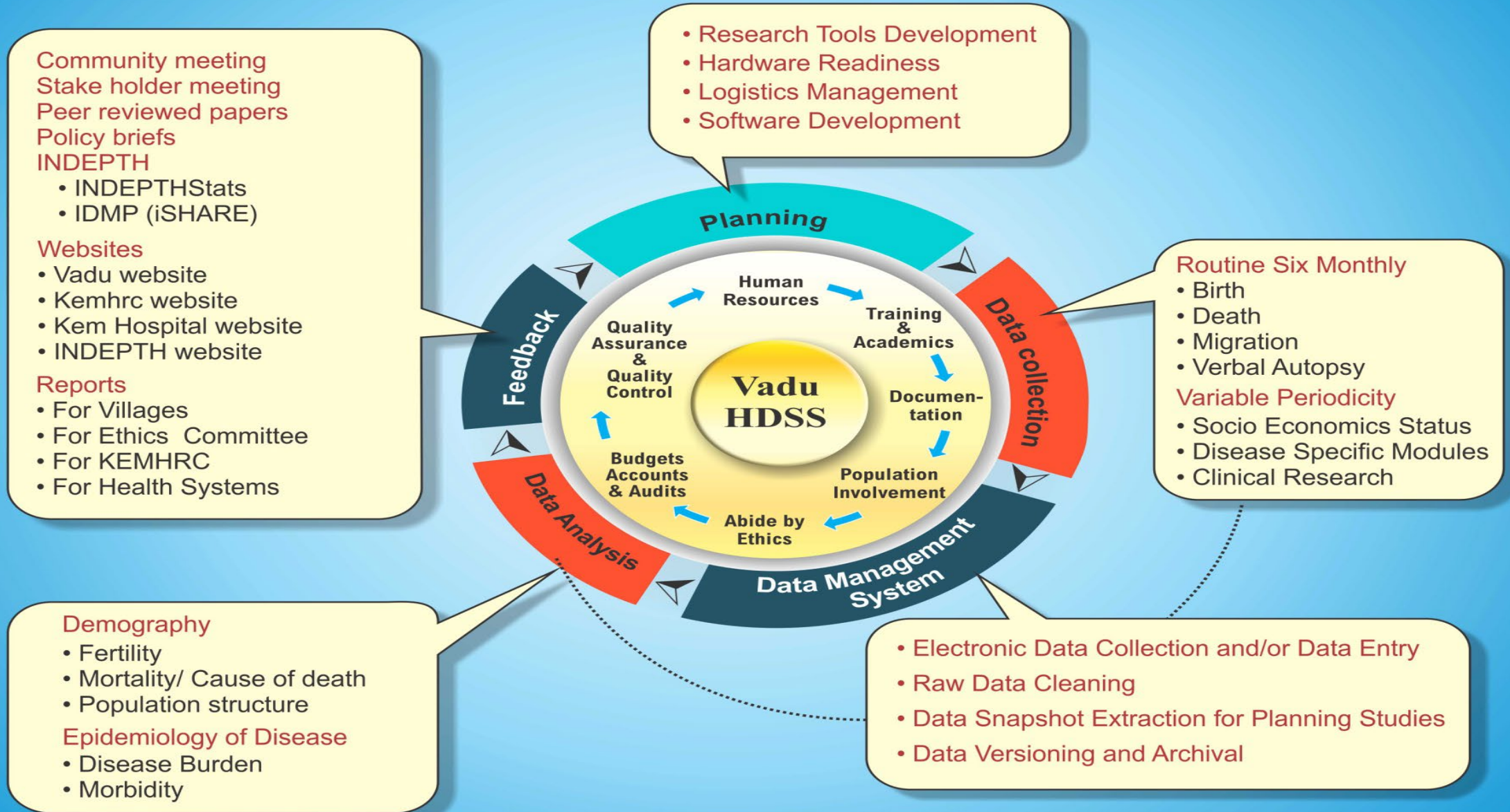
Vadu HDSS

Initiated- 2003

(Gates Institute, Hopkins- Seed money)



Vadu Health and Demographic Surveillance System - Conceptual Framework



Current Research Domains



Observational Research	# of studies
Disease Burden	10
Social studies	25
Laboratory based studies	6

Intervention Research	# of studies
Vaccine Trials	40
Micronutrient supplement intervention	6

Implementation Research	# of studies
Formative studies	15
Collaborative implementation of new/ modified programs	8
Development and Technology Research	# of studies
Use of technology in health and research	8



Contribution of Northern collaborations in overcoming challenges...

List of previous Northern Collaborations

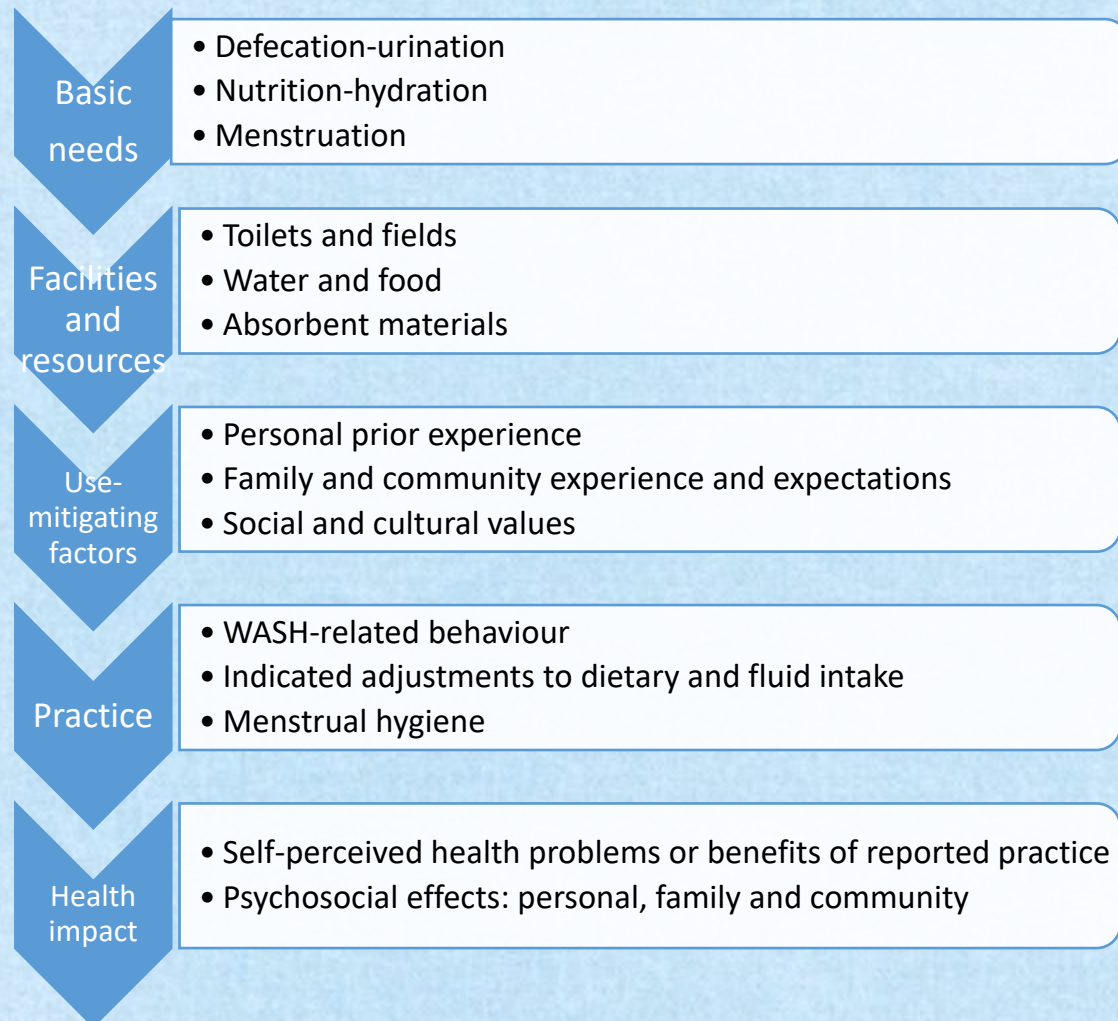
Year	Title	Design	Sample	Northern Collaborator
2004-05	Sprinkles I	RCT	432	HSC, Toronto
2004-05	NCD Risk Factor Surveillance	Cohort	2500	INDEPTH, WHO
2004-05	Health Equity	Cohort	14690	INDEPTH
2005-06	Hand washing & Acute Respiratory Infections	Cross sectional	700	LSHTM, WHO
2006-07	Study on aging (SAGE)	Cohort	500	INDEPTH, WHO
2006-ongoing	iSHARE ongoing: Data sharing	Development	Participating DSS's Population	INDEPTH, SIDA Sarec, Wellcome Trust, now self funded

Year	Title	Design	Sample	Northern Collaborator
2007-10	Men PSA-TT	Vaccine trial	340	MVP, WHO
2007-08	Sprinkles II	Effectiveness study	18000	Heinz, Helen Keller International
2008-10	IMVAC (BOLD)	Cross Sectional	3600	Imperial College London
2008-11	Measles	Vaccine Trial	2000	WHO and Serum Institute of India
2014- 15	Women, WASH and Health	Mixed methods	Survey (300), 9 FGD, 21 KI	LSHTM, UK

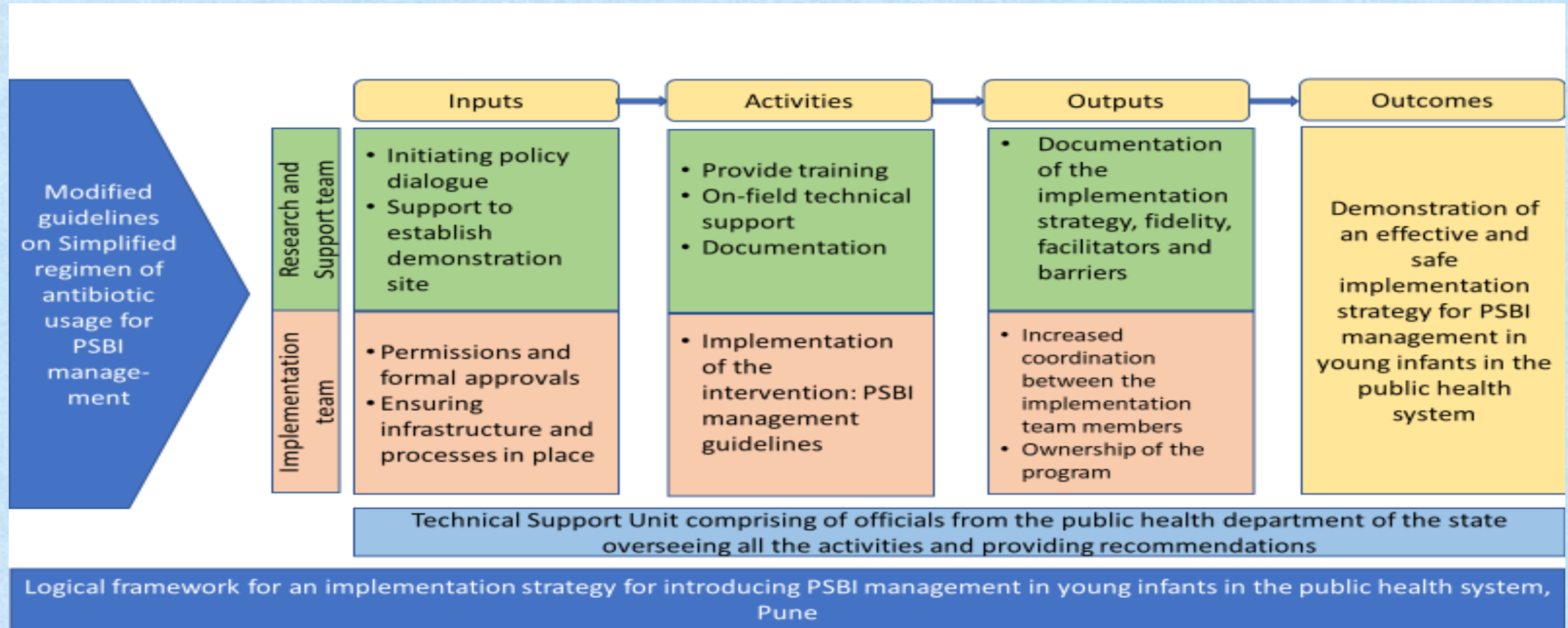
Year	Title	Design	Sample	Northern Collaborator
2014-16	Care seeking Behaviors of Mother	Observational	780	Johns Hopkins, UoE UK
2008-13	Influenza Disease Burden Study	Hospital Based Surveillance	HDSS Population	ICMR/NIV and CDC, USA
2016-19	Promoting LPG in pregnancy	Feasibility trial	210	Implementation science network through UC Berkley
2016-19	PSBI	Implementation research	2 blocks	WHO
2018-19	PMUY assessment	Mixed methods	260	ICMR, UC Berkley
2017-19	Nanofortified Oil	RCT	444	Saving Brains Canada
2017-20	Typhoid burden	Disease burden	6000	BMGF

Year	Title	Design	Sample	Northern Collaborator
2021-22	Barriers and Challenges in Pandemic by HCPs	Qualitative Research	64	IPCRG and RESPIRE
2016-23	PRERNA-Platform	Capacity building	NA	WHO, Univ Bergen
2019-21	WHO RAISE	Implementation Research	NA	HPSR, WHO
2021-22	ARISE- Adolescent health	Cohort	1200	Harvard
2022-22	Feasibility of Drone	Cross sectional	NA	FDCO, UK
2021-22	Pneumococcal carriage	Cohort	805	BMGF
2018-22	UoE RESPIRE Network	Multiple	NA	NIHR, UK


Women, WASH and Health in Rural Pune district- identifying stress and unmet needs



An innovative approach to jump start simplified Management of Sick Young infants with PSBI Where Referral is Not Possible for potential scale-up



Bridging research integrity and global health epidemiology (BRIDGE) statement: guidelines for good epidemiological practice

Sandra Alba ,¹ Kristien Verdonck,² Annick Lenglet,^{3,4} Susan F Rumisha,^{5,6} Martijn Wienia,⁷ Imre Teunissen,¹ Masja Straetemans,¹ Walter Mendoza,⁸ Daniel Jeannotot,¹ Daniel Weibel,⁹ Harriet Mayanja-Kizza,¹⁰ Sanjay Juvekar¹¹


To cite: Alba S, Verdonck K, Lenglet A, *et al*. Bridging research integrity and global health epidemiology (BRIDGE) statement: guidelines for good epidemiological practice. *BMJ Global Health* 2020;5:e003236. doi:10.1136/bmjgh-2020-003236

ABSTRACT

Background Research integrity and research fairness have gained considerable momentum in the past decade and have direct implications for global health epidemiology. Research integrity and research fairness principles should be equally nurtured to produce high-quality impactful research—but bridging the two can lead to practical and ethical dilemmas. In order to provide practical guidance to researchers and

BRIDGE

Bridging research integrity and global health epidemiology (BRIDGE) guidelines: explanation and elaboration

Sandra Alba ,¹ Annick Lenglet,² Kristien Verdonck,³ Johanna Roth,⁴ Rutuja Patil ,⁵ Walter Mendoza,⁶ Sanjay Juvekar,⁵ Susan F Rumisha^{7,8}

To cite: Alba S, Lenglet A, Verdonck K, *et al*. Bridging research integrity and global health epidemiology (BRIDGE) guidelines: explanation and elaboration. *BMJ Global Health* 2020;5:e003237. doi:10.1136/bmjgh-2020-003237

ABSTRACT

Over the past decade, two movements have profoundly changed the environment in which global health epidemiologists work: research integrity and research fairness. Both ought to be equally nurtured by global health epidemiologists who aim to produce high quality impactful

Summary box

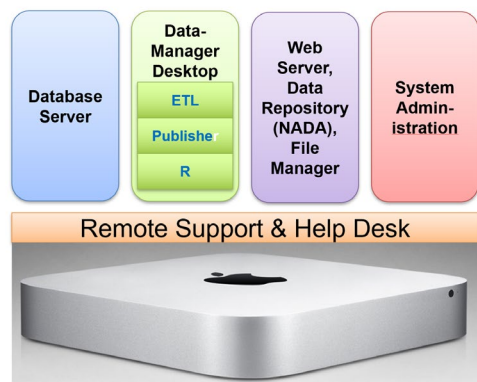
- Over the past decade, two movements have profoundly changed the environment in which global health epidemiologists work: research integrity and research fairness.

Objective

Enhance the research data management capacity of INDEPTH member centers and enable them to develop, document, extract, harmonise and quality-assure analytical datasets from their operational databases


Output

Centre-in-a-Box



CiB– An all-encompassing research data management appliance

Year: 2013 – 2018
Member Centers: **47**
Workshops: **7**
Refresher Workshops: **5**



INDEPTH Data Repository

INDEPTH Data Repository – Platform for member centers and associated researchers to contribute and share fully documented, high-quality datasets with the scientific community

Published Datasets: **134**
Core Micro Datasets: **119**
Other Datasets: **15**
Total Downloads: **5668**
Users: **1575**

Summary:
Centers: **47**
Individuals: **14.19 M**
Events: **27.24 M**
Live Population: **8.34 M**
Total Person Years: **112.05 M**
Earliest Event: **1970-01-01**
Latest Event: **2017-12-31**

Events:

- Enumeration
- Birth
- Internal movements
- Migration
- Death
- Lost to Follow-up
- Last observation



Learnings from RESPIRE: An Example of North South Collaboration



RESPIRE highlights



- Global Network across five countries –
 - UK, Bangladesh, India, Malaysia and Pakistan
- Acute and Chronic Respiratory Conditions (26 studies, 12 PhDs, and 4 Post doc Fellowships)
- Including multi-country studies (7 studies, 2 PhDs and 1 Post doc Fellowship at KEMHRC, Pune)
- PhD programme that has embedded UoE trained PhDs across Southern countries (together with clinical fellows)
- Over 31 total (12 Vadu) peer-reviewed publications

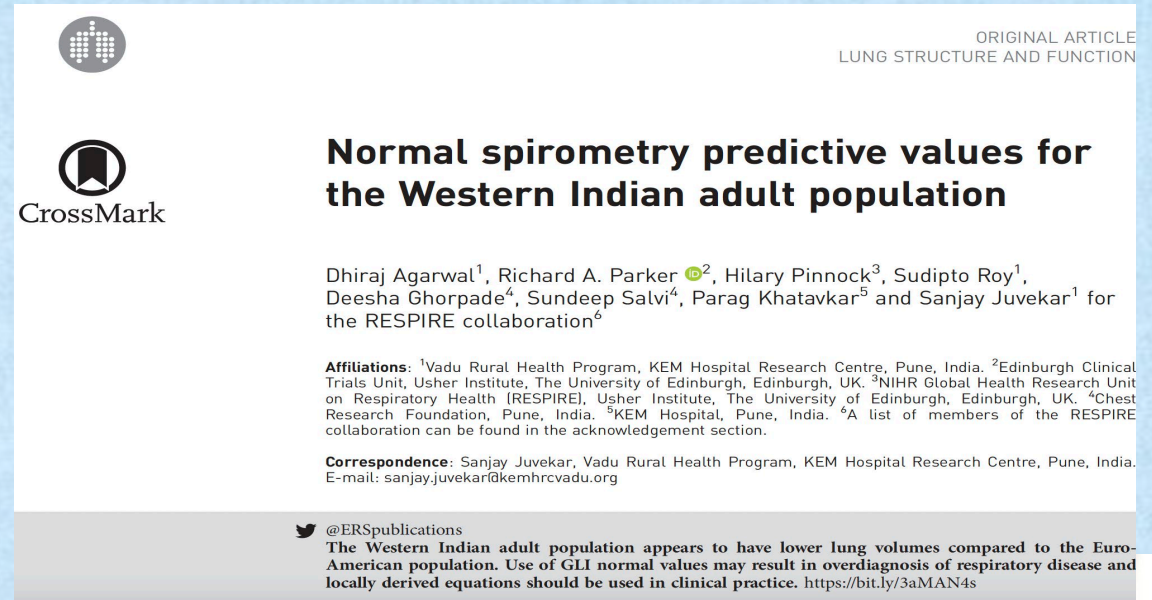
4CCORD-Estimating Chronic Respiratory Diseases burden in adults in Asian low and middle-income countries: a feasibility pilot study

- Coordination of multi-country study
- Fulfilling ethical and regulatory requirements of all sites involved
- Coordinating the trainings
- **Publications:** 1. Scoping Review protocol 2. Scoping Review 3. Clinical algorithm
- **Impact:** Testing CRD screening questionnaire and clinical algorithm for diagnosis of CRDs which could be used in future surveys



Development of Spirometry predictive values for Indian population

- Capacity building of LMIC researcher in statistical Data Analysis
- Possibility of including data from other Indian sites which will help to generate comprehensive equation for Indian population
- **Impact:** Predictive values for Western Indian population



ORIGINAL ARTICLE
LUNG STRUCTURE AND FUNCTION

Normal spirometry predictive values for the Western Indian adult population

Dhiraj Agarwal¹, Richard A. Parker², Hilary Pinnock³, Sudipto Roy¹, Deesha Ghorpade⁴, Sundeep Salvi⁴, Parag Khataavkar⁵ and Sanjay Juvekar¹ for the RESPIRE collaboration⁶

Affiliations: ¹Vadu Rural Health Program, KEM Hospital Research Centre, Pune, India. ²Edinburgh Clinical Trials Unit, Usher Institute, The University of Edinburgh, Edinburgh, UK. ³NIHR Global Health Research Unit on Respiratory Health (RESPIRE), Usher Institute, The University of Edinburgh, Edinburgh, UK. ⁴Chest Research Foundation, Pune, India. ⁵KEM Hospital, Pune, India. ⁶A list of members of the RESPIRE collaboration can be found in the acknowledgement section.

Correspondence: Sanjay Juvekar, Vadu Rural Health Program, KEM Hospital Research Centre, Pune, India. E-mail: sanjay.juvekar@kemhrcvadu.org

@ERSpublications
The Western Indian adult population appears to have lower lung volumes compared to the Euro-American population. Use of GLI normal values may result in overdiagnosis of respiratory disease and locally derived equations should be used in clinical practice. <https://bit.ly/3aMAN4s>



Practices & perceptions of public & private, general medical practitioners (primary care physicians: “GPs”) in rural India for diagnosis & management of asthma & COPD (RESPIRE Fellowship project)

Impact

- Built research capacity of the young researcher through training and networking
- Gave opportunity to conceptualise and implement a research study/project independently in the field of respiratory health
- Identified themes related to Clinical care of respiratory conditions, Delivery of care, and Training and upskilling. These are important factors that form the context for initiatives seeking to improve the quality of community-based care for people with CRD in Maharashtra state in India.



ASHA workload study

- Engagement of public health personnel/ stakeholders
- Precise exchange of qualitative skills between UoE and KEMHRC
- **Publications:** 1. Published ASHA's workload perception and its' determinants 2. Motivation for ASHA work (In progress)
- **Impact:** The results would be useful for policy and recommendation for future involvement of ASHA in health care provision and facilitations.



Formulating and testing a strategy for introducing Pulmonary Rehabilitation (PR) for COPD management in a rural Indian setting

Impact

- The PR Centre at Vadu is first of its kind in the rural setting of entire Maharashtra state and may be in **RURAL** India.
- An example showing how initial handholding has made it possible for the hospital to take it over as a service providing center by the rural hospital



©VRHP KEMHRC, PUNE, 2021

Assessment of feasibility of introducing pulse oximetry in IMNCI services in primary health facilities in Pune district

Impact

- Help the public health system to close the gaps related to service readiness (equipment, logistics and supply). Give an opportunity to look into requirement of training of their PHC staff so that adapted IMNCI guidelines can be scaled up across the Maharashtra state.
- Implementation of PO in IMNCI services will decrease the misclassification of severe cases (SpO₂<90%) as 'Pneumonia' (non-severe) and ensure appropriate management of these cases through inpatient care in appropriate referral facilities.



Establishing sentinel sero-surveillance to monitor the trend of SARS-CoV-2 infection transmission in the general population in rural Western India

Impact

- The COVID-19 pandemic has hit Pune district hard, with Pune reporting the highest number of cases among all districts in India in the last few months. During this time KEM Hospital Research Centre (KEMHRC) Pune successfully enrolled 14,294 individuals residing in 150 villages.
- A crucial factor for this success has been a massive stakeholder engagement exercise conducted between January 2021 to June 2021 wherein the study team held 150 meetings with community representatives such as village heads, nurses, community health workers and local government members.



PhD study 1- Feasibility of using a teleconsultation facility (Micro-Health Centre) in management of CRDs in remote rural area

- Capacity building
- Holistic approach with research and its implementation
- **Publications:**
 - Legalities and regulation review published
 - Doctor to doctor consultation in CRDs (in progress)
- **Impact:** Study created evidence for formulating a policy on 'Management of overall chronic diseases at remote rural area in India using teleconsultation'.



Other opportunities

- **Good Financial Grant Practices (GFGP)**
 - One day training at KEMHRC, Pune in Aug 2018
 - Three days workshop at Malaysia in Jun 2019
 - Helps organization to standardize operational procedures related to Accounts & Finance, HR & Payroll, Risk & Fraud and Project operations
- **Impact:** Development of research /potential in India to work towards respiratory health research of national importance



Opportunities for collaborations

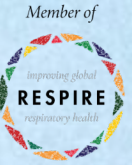
Academics as means of North South Collaboration

Projects	Number of Students Completed projects	Institute/University (National/International)
Post-Graduates Dissertations	50+	WITS University South Africa; SPPU, Pune; TISS Mumbai; I2IT, Pune; SKNCOP, Pune; Symbiosis, Pune; John Hopkins;
Doctorate (PhD)	13 (Vijendra, Siddhi, Utkarsh, Dhiraj, Manisha, Aditi, Shilpi, Stephen, Andrew, Rasmila, Asya, Shrish)	Umea University, Sweden; SPPU, Pune; IIT, Mumbai; IGIB, Delhi; University of California, Berkeley; ISGlobal, Barcelona;
Post-Doc Fellowship	1	University of Edinburgh



Capitalize on existing Networks

- RESPIRE: Global Health Research Unit focusing on respiratory health in Asia



- BOLD: Burden of Obstructive Lung Diseases



- ICMR- PMUY Taskforce



- DBT CoE: Collegium of Clinical Research Excellence

- PRERNA: Platform for Research Excellence Related to National Aims

- [CHRD - SAS, New Delhi.](#)
- [CMC, Vellore.](#)
- [KEMHRC Pune.](#)



- INDEPTH: International Network for the Demographic Evaluation of Populations and their Health



Possible collaborations with national HDSS network

- Initiative for establishment of a National Network of HDSS in India which will include around 21 old and new HDSS sites throughout the country
- These centers aim to create scientific evidence through longitudinal data collection of national importance
- Data from all HDSS can provide estimates for regional as well as national level health and demographic indicators
- First meeting of HDSS sites proposed; IGIB Delhi has agreed in principle to fund the meeting

Possible collaborations with Asian HDSS network

- Asia HDSS Network for exchange and promotion of health research
- Multi-site or multi-centre research utilizing longitudinal tracking of health and demographic indicators of Asian populations
- Improving, expanding and strengthening capacities of Asian scientists
- To generate evidence-based, reliable and comprehensive data for enabling effective translation of research into regional and/or global policies and programs.

Repurposing data collaboratively

- Demography:
 - Socio Economic Status
 - Ageing (SAGE)
 - NCD Risk Factor
 - Parental Heights
 - Child Nutritional status
- Genomic and/or Biochemical investigations
 - Iron atta Supplementation
 - Pune Microbiome study
 - Ayurgenomics
 - TRISUTRA
 - COPD
- Air pollution and lung diseases:
 - Behaviour intervention of improved cookstove
 - Handwashing Compliance and Risk of Acute Respiratory infections
 - COPD prevalence and phenotypic characterization of smoking and non- smoking COPD
- Disease burden
 - Influenza
 - Enteric Fever
- Technology
 - Care seeking location
- Other
 - Sprinkles
 - Preparedness for Marriage
 - Women WASH and hygiene

Future collaborative research to address challenges in rural India

- Establishing state of the laboratory for enhancing Lab research especially around infectious diseases
- Leveraging existing data for better research outcomes
- Digital Health interventions
- Use of technology for research
- Interventions for better health outcomes (Anemia, Chronic diseases)
- Mother and child health research also focusing Nutrition
- Implementation research
- COVID-19 related research for global health

Engaging for showcasing

Engagement of public health System



Kangaroo Mother care in public health hospital



RotaVac immunization Rollout



Training and orientation of health staff

Community engagement and dissemination



Programs Implemented in Community

© 2012, VRHP, KEMHRC Pune



Haemoglobin and Blood sugar estimation camps for women

© 2016, VRHP, KEMHRC Pune



Cycle Rally to promote cycling

© 2011, VRHP, KEMHRC Pune



Street Play for spreading awareness of Influenza illness in community

© 2015, VRHP, KEMHRC Pune



Rally organized for creating awareness on hygiene and health

KEM trains PMC medical officers on maternal immunisation

EXPRESS NEWS SERVICE PUNE, JUNE 7

A TRAINING session on maternal immunisation and surveillance monitoring for medical officers working in the Pune Corporation was held at KEM Hospital on Wednesday.

The training was conducted by the Pune Corporation's Health Services Department. The PMC had started vaccinating pregnant women for influenza-related complications at some PMC hospitals since 2015. Seasonal influenza is a year-round disease burden and pregnant women and neonates are at greater risk of influenza-related complications than the general population. Vaccination of pregnant women with influenza vaccine protects both mothers and infants from influenza. But in Pune, there have been high fa-

ces of influenza. The training was conducted by the Pune Corporation's Health Services Department. The PMC had started vaccinating pregnant women for influenza-related complications at some PMC hospitals since 2015. Seasonal influenza is a year-round disease burden and pregnant women and neonates are at greater risk of influenza-related complications than the general population. Vaccination of pregnant women with influenza vaccine protects both mothers and infants from influenza. But in Pune, there have been high fa-

Study to assess LPG use in villages

Researchers say the long refill time is pushing rural families back to using the traditional chulha, a health hazard and air-

Himanshu.Nitnaware @timesgroup.com

TWEETS @ThePuneMirror
Due to this d...-al families have not...se of LPG, a...ditional cooki... Anthrop... research... is aimed a...schemat... for cooki... reasons... scheme... lines, h...er to back... kiloy... m... p... r...
Under a time. However, the long wait for a cylinder refill has pushed these families back to the use of traditional chulhas (earthen stove) for cooking. Due to this d...-al families have not...se of LPG, a...ditional cooki... Anthrop... research... is aimed a...schemat... for cooki... reasons... scheme... lines, h...er to back... kiloy... m... p... r...
Beneficiaries of the government scheme, Pradhan Mantri Ujjwala Yojana (PMUY), which provides a connection of LPG cylinders to below poverty line (BPL) families, only get a single cyl-



For the study, various families will be provided with a second cylinder to avoid use

inders for the first time. However, the continuity has been a challenge. "The distributors may not see it feasible to supply LPG cylinders to a small community," Juvkar said. Villagers from Nigude, Khangon, Tejar Tambe, Padali and Beisar have volunteered to participate in the study which will start later this month. The investigator from KEM Hospital, Su...-the wait time for a refill is at least...-s, depending on the availability of cylinders and other... and oth...

UK's NHS and KEM to study respiratory conditions in the city

With University of Edinburgh, researchers will collect data on COPD, asthma and more, with aim to reduce the deaths caused

Himanshu.Nitnaware @timesgroup.com

TWEET @ThePuneMirror
The gravely deteriorating quality of the air around has become a matter of serious contention in recent years, compelling both public and private bodies to closely look into and understand the burden of respiratory diseases caused mainly by air pollution and lifestyle changes, a study has been initiated in the city under the Research Unit on Respiratory Health (RESPIRE) project. Tied up with the King Edward Memorial (KEM) Hospital, the study is being helmed by the University of Edinburgh, while research is being conducted by the NHS National Institute of Health Research (NIHR) of the United Kingdom, conducted across nations like India, Pakistan, Bangladesh and Malaysia. Here, it will take place at two locations — Vellore and Pune. "The programme aims to collect data on emerging respiratory disorders, like chronic obstructive pulmonary disease (COPD), asthma, lung cancer, pneumonia and more, obtain evidence and possible interventions that could be adopted to reduce deaths," said Rutuja Patil, one of the researchers who also works at the KEM Research Centre, adding that the data of the actual burden in known strategies on interventions at the local level, best delivery mechanisms for questionnaires and algorithms, the study would help realise how many people are actually suffering from these diseases. Exact diagnoses would be determined and also the misdiagnosis that happens on a substantial scale could be ruled out. "With the study would enable formulation of policy and chalk out a strategy to combat the issue. The expert also said that different risk factors causing chronic respiratory diseases could be discovered. "With increasing air problems, it is crucial to know what types of pollutants and factors cause specific respiratory ailments. There needs to be good knowledge on the same," Agarwal asserted. "The burden of COPD and other respiratory diseases in India is increasing. The study on a nationwide scale would be economically unviable, so it is being carried out at two centres," informed principal investigator Sanjay Juvekar, also from KEM, adding that many factors that cause a serious health impact, like a sedentary lifestyle, often go undocumented. "We really need to know about all diseases that spread in the form of infections and non-infections," he said.



Representative pic

Researchers have found that over 50 per cent of urban and rural people suffer from respiratory diseases, and the numbers of those afflicted in both zones are more or less the same. Principal project coordinator from KEM Dhiraj Agarwal added, "There is very little data on deaths and the impact of respiratory diseases on human health in India. Moreover, methodology used is not robust." He further said that the majority of urban and rural India is exposed to air pollution due to industrialisation, urbanisation, occupational hazards, particles, biomass use and more factors. "Over 50 per cent of the population suffers from respiratory disease," he said, informing that more than 70 per cent of the rural population is still dependent on biomass in India. "Through intensive case studies, questionnaires and algorithms, the study would help realise how many people are actually suffering from these diseases. Exact diagnoses would be determined and also the misdiagnosis that happens on a substantial scale could be ruled out. "With the study would enable formulation of policy and chalk out a strategy to combat the issue. The expert also said that different risk factors causing chronic respiratory diseases could be discovered. "With increasing air problems, it is crucial to know what types of pollutants and factors cause specific respiratory ailments. There needs to be good knowledge on the same," Agarwal asserted. "The burden of COPD and other respiratory diseases in India is increasing. The study on a nationwide scale would be economically unviable, so it is being carried out at two centres," informed principal investigator Sanjay Juvekar, also from KEM, adding that many factors that cause a serious health impact, like a sedentary lifestyle, often go undocumented. "We really need to know about all diseases that spread in the form of infections and non-infections," he said.

Film on harmful effects of biomass cooking screened at KEM hospital

EXPRESS NEWS SERVICE PUNE, JUNE 7

working in the tribal area of Junnar taluka to study air pollution. While working here, the team realised the problems and complications that pregnant women faced due to the use of chulhas. The team provided the famant women with LPG cylinders. "Our initiatives brought a really positive effect. Women wanted this to reach the masses, which is why we decided to make a film on the issue," said Dr. Manoj Patil, clinical officer at KEM Vadu. "We made a film on the use of biomass fuel. Women who used biomass fuel for cooking (respiratory ailments, acceptance of modern fuels, like Liquid Petroleum Gas (LPG) by the community is still a challenge, says Rutuja Patil, a young scientist at the KEM hospital who conceptualised the film. Exposure of pregnant women to indoor air pollution (IAP) results in lower birth weights leading to further birth complications. Women and children are affected by IAP. Improving the peruse in the community is encouraged. Government initiatives like the IAP still primary



Annappurna — a short film on harmful effects of biomass in cooking

HEALTH RESEARCHER'S REPORT IN LANCET

'Household air pollution a major risk factor for respiratory diseases, cataracts'

ANURADHA MASCARENHAS PUNE, NOVEMBER 27

HOUSEHOLD AIR pollution from cooking is associated with a range of diseases, according to report published in the 'Lancet Respiratory Medicine'.

A biotechnologist-turned-public health researcher, 33-year-old Rutuja Patil, who wrote the cover story for December 1 edition of the journal said that there should be collective steps to reduce the domestic use of biomass fuels. "Household air pollution from

Household air pollution from biomass fuel used for cooking is associated with 2.4 of 5.6 million cases of chronic bronchitis, 0.3 of 0.76 million cases of TB, 5.07 of 51.4 million cases of cataract among adult Indian women, and 0.02 of 0.15 m stillbirths across India" — RUTUJA PATIL PUBLIC HEALTH RESEARCHER



Vadu Rural Health Program, KEMHRC Pune
210 Tweets

Vadu Rural Health Program, KEMHRC Pune @kemvadu · Jul 12
Our team with the team from #CMCVellore at the @DHSCgovuk @NIHRresearch meeting at #Chennai representing @RESPIREGlobal

We appreciated the way a funder reached out to discuss ground level issues with the grantees.
@sanjayjuvekar @dhirajagarwal99 @Ru2ja



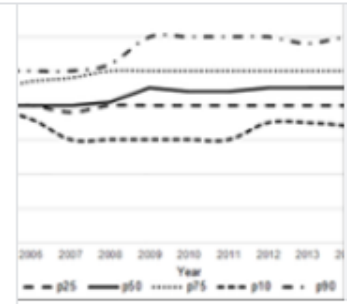
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Demographic surveillance over 12 years helps elicit determinants of low birth weights in India

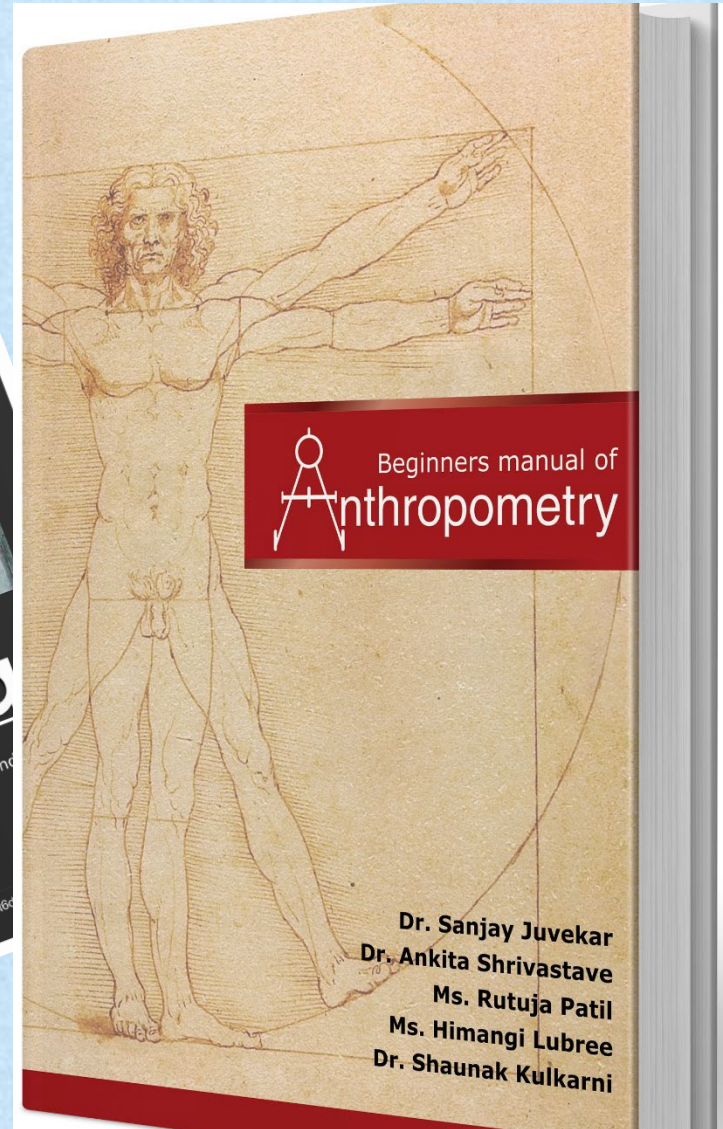
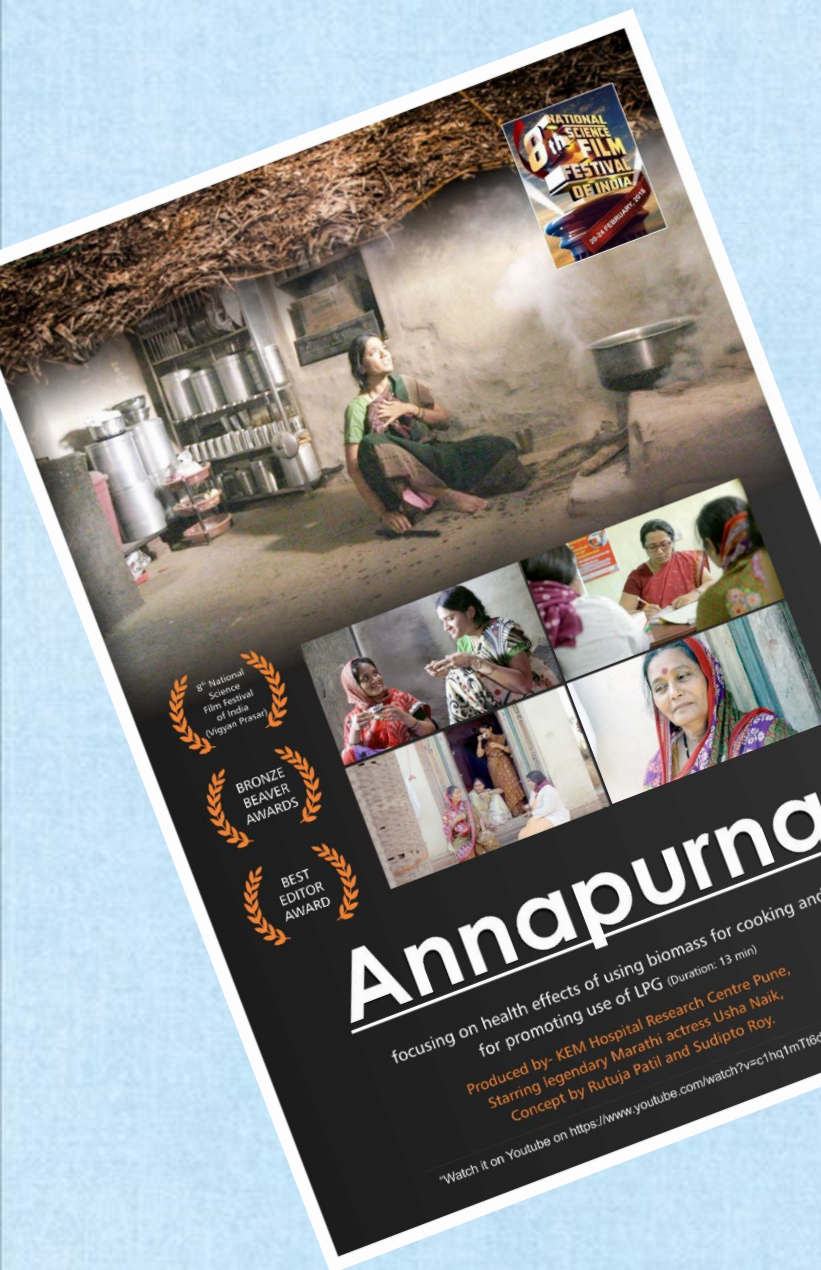
Background Low birth weight is an important predictor of maternal and child health. Birth...

7 1 comment 1 share

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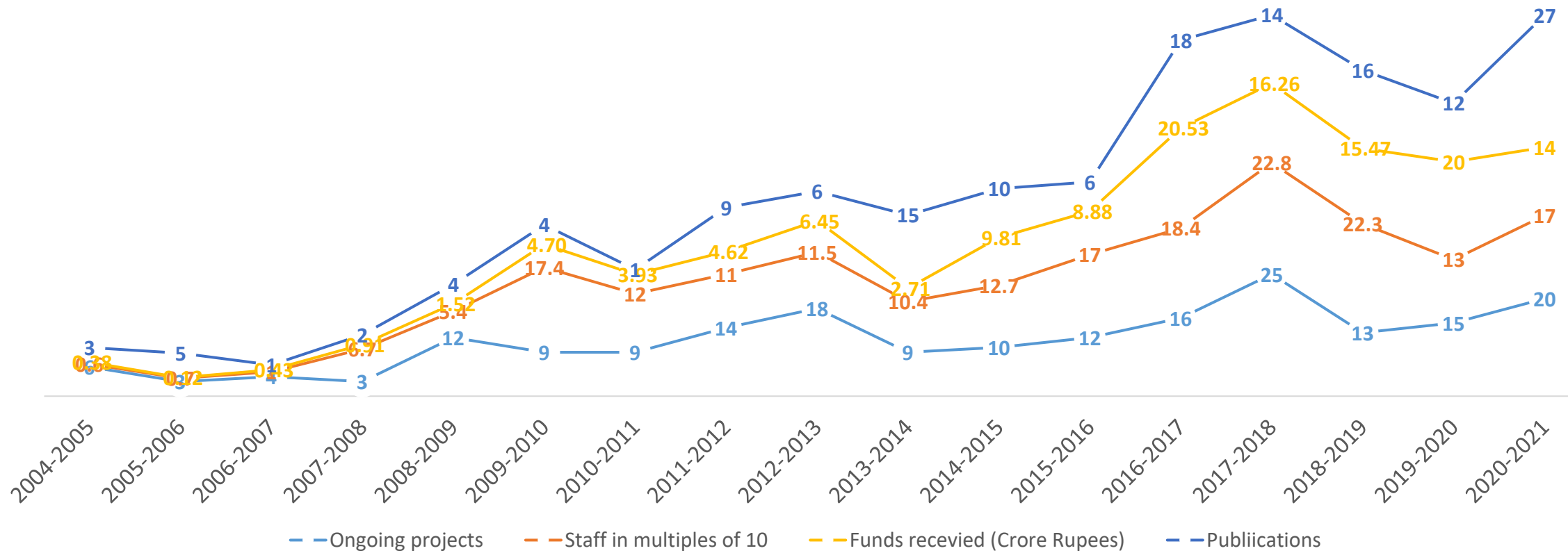
We have an urgent opening for Study Physician/Research Coordinator at KEM Hospital Research Centre. Minimum qualification requirements...



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*Next photo, I will expect colleagues from North in it...
Thank You*



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