



# PAHAL

QUARTERLY NEWSLETTER BY UP-TSU

## About UP-TSU

Uttar Pradesh Technical Support Unit (UP-TSU) was established in 2013 under a Memorandum of Cooperation signed between the Government of Uttar Pradesh (GoUP) and Bill & Melinda Gates Foundation (BMGF) to strengthen the Reproductive, Maternal, Newborn, Child, and Adolescence health (RMNCH+A) and Nutrition. University of Manitoba's India-based partner, the India Health Action Trust (IHAT) is the lead implementing organization.

UP-TSU provides technical and managerial support to GoUP at various levels of the health system and that includes maternal, new born, child health, nutrition and family planning. UP-TSU also supports the GoUP at the state level in policy formulation, planning, budgeting, human resource management, monitoring, contracting, procurement, and logistics to improve healthcare throughout the state.

## A NOTE BY THE EXECUTIVE DIRECTOR

Dear Friends,

Wishing you all a very happy new year 2023. It gives me immense pleasure to share the 16<sup>th</sup> issue of PAHAL.

The year 2022 marked some key achievements by the Health and ICDS departments of UP. Some of the key highlights has been the in-principle agreement to link Revenue Villages to Health and Wellness Centers and to align the households responsibility of ASHAs and Anganwadi Workers within a revenue village. This will help reduce the missed beneficiaries for health and nutrition services and in easy exchange of data between the two.

As a step towards inculcating gender-intentional behavior in health service providers, gender was integrated in the SBA trainings innovatively by an E-Module on Gender.

As 2022 draws to a close, I hope this edition of PAHAL fills us with a sense of accomplishment for all our hard work. I hope the year 2023 would ring in new objectives to strive for. Wish you all once again a very Happy New Year!

Sincerely,

(Dr. Vasanthakumar N.)  
Executive Director



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Your suggestions, innovative ideas and feedback are invaluable to the success of our program.

Write to us at [iec.uptsu@ihat.in](mailto:iec.uptsu@ihat.in)



FP review meeting under the chairmanship of Additional Director- Azamgarh Division



FPLMIS orientation of ASHAs and Sanginis- CHC Binauli, Baghpat

**FPMLE CONSORTIUM OF BMGF AND FP2030 AT INTERNATIONAL CONFERENCE ON FAMILY PLANNING (ICFP) 2022**

Preeti Anand, Director Family Planning, UP-TSU spoke in a debate organized by FPMLE consortium of BMGF and FP2030 on “How FP programs should address the increase in use of traditional methods in Asia” at ICFP 2022 in Pattaya, Thailand.



In 2022, UP-TSU prepared a detailed analysis on reducing unmet need in family planning in Uttar Pradesh by half. The analysis presented parity-focused strategies and the pathways to achieve the goal of reducing unmet need in the next three years. Of the various pathways suggested in the analysis, bringing services closer to the community with a focus on strengthening below block facilities to enhance availability of contraceptive choices was made effective in 2022. Focus on strengthening FPLMIS to ensure commodity security at below block facilities and FLWs chiseled the above strategy. Prioritizing newly-weds for contraceptive information through ASHAs was initiated in a pilot form. The strategy on augmenting the provider base for sterilization services took shape in the form of mentoring plans for non-performing sterilization providers. The analysis was presented at state and at all 18 division level meetings.

UP-TSU also brought into focus “enhancing male engagement in family planning” by undertaking a study with Population Council and ICRW to generate behavioral insights to improve male participation in family planning decision making. Post the presentation of results from the study, support was provided in the development of the strategy, training modules and roll out of trainings for the male engagement program spearheaded by SIFPSA.

**KEY ACHIEVEMENTS IN FAMILY PLANNING**

Through the work that continued in 2022 with state, division and district level officials and health work force cadres in family planning, some of the key achievements were:

- 24% more eligible couples were able to choose a modern contraceptive in 2022 (53 lakh couples)
- ~10 lakh women received counselling on modern contraceptive methods by RMNCHA counselors at DH and CHCs
- 22% women coming for institutional deliveries to health facilities, chose a contraceptive method in the immediate post-partum period (up by 2% over 2021)
- 44% PHCs and 52% SCs were delivering a range of five contraceptive choices by the end of 2022
- 89% of all health facilities were providing new contraceptive services by the end of 2022
- Indenting for FP commodities through FPLMIS by ASHAs and sub centre was above 70% by December, 2022



**Key pathways to address the unmet need in UP**

Parity	Community	Facility	Systems
Parity 0	Strengthen appropriate information and contraceptives to newly weds Strengthen HDC	Strengthen capacity of FLWs through cluster meetings	Strengthen commodity availability through FPLMIS for FLWs
Parity 1	Strengthen CIVHND to minimize missed opportunities for FP Introduce Antara in CIVHND	Strengthen basket of choice at PHCs and SCs Strengthen post pregnancy family planning (PPFP) at CHCs	Strengthen private sector including pharmacies for information and services
Parity 2	Strengthen mobilization and pre-registration	Critical to convert FDS into routine services FDS to two days per week at facilities where providers are not located	Augment provider base for sterilization services

**KEY HIGHLIGHTS OF FACILITY**

In December 2021, GoUP developed a policy for training all DP staff (ANM/SN and AYUSH LMOs) in SBA by the end of 2023. A total of 51 batches of SBA ToT were approved to be conducted across UP. Till 20<sup>th</sup> Dec 2022, a total of 1023 district master trainers including UP-TSU NMs and doctors were trained across the 4 skills labs covering 61 districts. For the first time in the history of SBA in India, a gender e-module developed by UP-TSU has been incorporated both at the ToT and district level training to sensitise the health care providers on gender based biases that directly/indirectly impact the labor room outcomes.



Session on gender e module in SBA ToT Jhansi Dec 2022



CMO Sambhal visited SBA training site CHC Gunnar to assess the SBA training quality





## BAHUA HANDHOLDING SUPPORT

Post the training of the FLWs on the digital application, the UP-TSU staff conducted regular visits to the pilot block in order to provide handholding support to FLWs, identify implementation gaps and ensure quality data entry into the application.

“Until now whatever work I did, I used to record it in the ASHA diary and carry it everywhere I went, sometimes the pages of the register used to get torn. But now it has become easy to record our work in the application and there is no need to carry the register.”

-Vidhya Devi, ASHA, Phulwamau

“Because of the application we can easily migrate a family in and out of the village. The due list for pregnant women and children due for immunization is automatically generated through the application. The best part is that the data we enter into the application will not get lost.

- Basanti Devi, ASHA, Mardanpur

## SCALE-UP PROGRESS

- 6.2 crore members and 1.51 crore families have been enumerated.
- 63.93 lakhs eligible couples have been registered in the application.
- 24.3 lakh 0-1 year old children enumerated.

## DG/NHM STAFF ATTENDANCE PORTAL

DGMH, UP has launched an initiative to develop a mobile app for marking daily attendance of the health department staff who are stationed at health facilities. The web version of this application allows the district officials to track attendance of the staff and state officials to access district wise attendance report.

## DIGITALIZATION OF HEALTH FRONTLINE WORKERS

The Ayushman Bharat Digital Mission (ABDM) was launched by the Prime Minister on 27<sup>th</sup> September 2021 with an aim to create a seamless online platform “through the provision of a wide-range of data, information and infrastructure services, duly leveraging open, interoperable, standards-based digital systems” while ensuring the security, confidentiality and privacy of health-related personal information. Under the umbrella of the ABDM program, the government of Uttar Pradesh identified the eKavach application to be rolled out in the state to facilitate last-mile care and digital enablement of FLWs. eKavach is a workflow based digital application that collects data at source, facilitates interoperability of data and ensures generation of Electronic Health Records.

eKavach application was initially piloted in Bahua block of Fatehpur district with the support of UP-TSU wherein the ASHAs, ASHA Sanginis and ANMs were provided training and handholding support in a phased manner. Based on successful implementation of the pilot, the application was scaled-up across the state. On 31<sup>st</sup> December 2021, approximately 80000 phones were distributed among the ASHAs by the Chief Minister for the scale-up across 75 districts.

## INTERNAL CAPACITY BUILDING

Building on the supervisory cadre's mentoring and training capabilities is essential, in order to achieve effective application adoption at the grassroot level. To ensure that its Block Outreach Coordinators (BOCs) are actively engaged in the supportive supervision of FLWs, UP-TSU conducted a one-day training session for them. Around 361 BOCs in total were trained on the digital application in 12 batches at the divisional level.



BOC Training

## ICT INITIATIVE-2022

### UNIFIED DISEASE SURVEILLANCE PLATFORM (UDSP)

Government of Uttar Pradesh (GoUP) with support of UP-TSU has developed the UDSP for tracking cases of COVID and certain communicable and non-communicable diseases.

Key features of the UDSP platform are:

1. Centralized repository of information on communicable and non-communicable diseases
2. Active, passive and sentinel surveillance
3. Campaign based Surveillance; configurable
4. ABDM compliant for ABHA generation and Electronic Health Records
5. Sample Collection and Routing within district/ outside district
6. Report upload and download
7. Facility outcome
8. Reporting module for state, district, health facilities, labs and community users
9. Data visualization on dashboard at state and district level.
10. Integration with UP ke Swasthya Kendra, Manav Sampada, ASHA database etc.
11. GOI IHIP portal compliant for pushing the UDSP on IHIP

### QR- BASED CERTIFICATE PORTAL

DGMH & NHM have taken an initiative to generate the QR based experience certificate to streamline the process of national level recruitment of candidates with appropriate experience at various cadres.

Salient features of the portal are:

1. Linkages with other platforms
2. Role-based credentials for cadre certificate generation
3. DGMH/NHM releases the certificate to candidate
4. Downloading and printing the certificates generated
5. Validation that one location (District/Block etc.) will release one certificate only
6. Provision to view generated certificates at district admin and state level.



## KEY HIGHLIGHTS OF NUTRITION

The key achievements of the ICDS Department GoUP, during 2022, with technical support from UP-TSU, were as follows:

- Geotagging of the Anganwadi Centres (AWCs); a network of almost one lakh ninety thousand AWCs was intensively supported by UP-TSU with development of the application, orientation of the ICDS functionaries, resolution of technical glitches and handholding for the process.
- Guidelines were issued from the ICDS Directorate in August 2022 for strengthening sector meetings, reshaping them into platforms for review, planning and capacity. UP-TSU drafted the sector meeting guidelines in consultation with the ICDS Department.
- The ICDS Department implemented the 'No Water Only Breastmilk (NWOB)' campaign in the state during May-June 22. The geographical coverage of the campaign has shown an incremental increase from the time it was initiated in 2018 to 2022. For the first time, the campaign has been implemented across the state. UP-TSU developed the design of the campaign and the guidelines for implementation in consultation with ICDS Department.
- 'Poshan Paathshala' webcasts on breastfeeding were designed and coordinated with support from UP-TSU, in June and July 2022. About 20 lakh people including ICDS personnel and beneficiaries- DPOs, CDPOs, Mukhya Sevika, AWWs, pregnant and lactating women across the state attended the webcast (Source: NIC).
- UP-TSU contributed to the development of 'Sakhsham' Manual; a comprehensive reference manual for AWWs, in coordination with the ICDS Department and nutrition development partners in the state.



*Dr. Renu Srivastava, Director Strategy Newborn and Child Health UP-TSU facilitating a session on breastfeeding in Poshan Paathshala*



*Mr. Anand Kumar Singh, Senior Associate - ICDS (Nutrition) facilitating a session on use of infantometer in the state level ToT for ANM Training at SIFHW Lucknow*

### दो दिवसीय प्रशिक्षण का किया गया आयोजन

सीतापुर। जिला ग्राम विकास प्रशिक्षण संस्थान खैराबाद में बाल विकास एवम पृष्ठहार विभाग अन्तर्गत सहयोग ऐप के लिए सीडीपीओ तथा मुख्य सेविकाओं का प्रशिक्षण के प्रथम बैच 30 प्रशिक्षार्थियों का डीपीओ सीतापुर के कुशल मार्गदर्शन में दो दिवसीय प्रशिक्षण का आयोजन किया गया। जिसमें मास्टर ट्रेनर संजय द्विवेदी, आईसीडीसीड तथा मनोप त्रिवेदी, जकनीकी सहायता इकाई द्द ने प्रशिक्षण देते हुए बताया। कि इस ऐप से कागज की उपयोगिता नहीं होगी। तथा मुख्य सेविकाओं द्वारा क्षेत्र के आंगनबाड़ियों केंद्रों के भ्रमण में पूरी तरह मानिट्रिंग भी की जा सकेगी। क्षेत्र में भ्रमण के समय काम के अंतर्गत आने वाली समस्याओं का भी निराकरण किया जा सकेगा। तथा उच्चाधिकारी भी उस आंगनबाड़ी केंद्रों का पूरा स्टेटस जान सकेंगे। यह प्रशिक्षण जिला ग्राम्य विकास प्रशिक्षण संस्थान खैराबाद सीतापुर में दिया जा रहा है। अभी अन्य बैचों को प्रशिक्षित किया जायेगा।



## KEY HIGHLIGHTS OF COMMUNITY OUTREACH

### ToT FOR BUILDING CAPACITIES OF NEWLY RECRUITED ANMs

In State of Uttar Pradesh, Directorate Health & Family Welfare, National Health Mission with the support of Uttar Pradesh Technical Support Unit has taken initiative of induction of newly joined ANMs. Hence with the objective of building knowledge and skill of newly recruited ANMs, 09 batches of State TOTs have been planned & accomplished in SIFHW Lucknow.

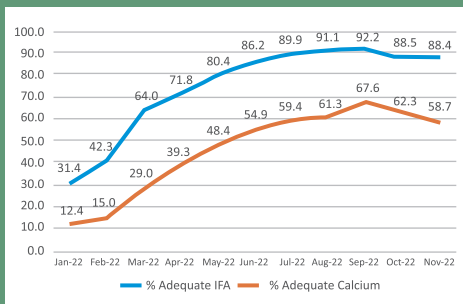
For the Training of Master trainers, 4 participants (ACMO, MOIC, PHN Tutor, NM, HEO/DHEOs) were nominated from each district of Uttar Pradesh. 288 master trainers out of 300 (96%) were trained on critical RMNCH+N services- Family Planning, ANC, HRP, PNC, Newborn care, Diarrhoea & Pneumonia, Routine Immunization, CVHND planning & execution, Maternal, Infant Young Child Nutrition along with Gender, E-Kawach & HWC.



*State ToT for orientation of ANM*







**Fig 1: IFA and Calcium availability at Observed CVHND Sessions**



**Woman identified as HRP**

### CVHND

It is an approach to deliver systematic, customized and client-focused package of defined RMNCHA+N services for women and children. Enabling convergence is expected to improve the quality and effectiveness of services.

### ASHA-AWW AREA ALIGNMENT

The objective of ASHA-AWW area alignment is to improve inter-departmental convergence, joint planning, and information sharing and strengthen service delivery from both cadres. It also intends to eliminate missed geographies and reduce left-outs and to improve citizen experience.

### ENHANCED IFA AND CALCIUM AVAILABILITY AT CVHND SESSIONS

Across the observed CVHNDs of all districts, including Aspirational Districts, the availability of IFA and Calcium tablets have demonstrated promising results. In January 2022, a total of 1032 CVHND sessions were observed, of which 31.4% had more than 600 IFA tables and 12.4% had adequate calcium availability. A total of 3099 CVHND sessions were observed in November 2022, out of which 88.4% of CVHND sessions showed more than 600 IFA tablets per session and 58.7% showed adequate calcium availability (Fig 1).

### EXPANDING CLUSTER CAPACITY BUILDING ACROSS 75 DISTRICTS

Cluster Capacity Building initiative has been scaled up across 820 blocks of the 75 districts in the state. UP-TSU has taken the lead conducting a three-day training for ASHA Sanginis across the state. Subsequently, 5690 ASHA Sanginis are conducting cluster capacity building sessions.

### HRP IDENTIFICATION, REFERRAL AND TRACKING

At CVHND, ANMs identify and line list the HRPs. UP-TSU, with support from NHM, integrated the tracking tools within the Sangini Dairies and ensured capacity building of Asha Sanginis on the tracking tools. On an average, 69 districts report their HRP status as of now.

### LBW IDENTIFICATION, MANAGEMENT AND TRACKING

Whatsapp groups for MoIC, Staff Nurse, ASHA Sanginis, BCPM and UP-TSU team have been created at all the delivery points. Tracking tools are integrated in ASHA Sangini dairies and the LBW tracking status is being shared by nearly 69 districts.

### GROUP ANC FORMATIVE RESEARCH

Phase-1 of the formative research on ANC services is complete. Based on the evidence generated from this phase, Phase-2 has been designed and is in the process of implementation.







## PROCUREMENT OF SMARTPHONES FOR ASHA WORKERS



ASHAs are the backbone of a healthcare system. Digitally enabling ASHAs is a significant step towards paving the path for digitizing data at source, ensuring availability of unitized data and helping improve coverage and quality of last-mile healthcare services. Thus, aligned with the Digital Health Strategy of UP and the National Digital Health Mission, the necessity of investing in the digital health space for ensuring an end-to-end digital coverage across the continuum of care, was recognized. Hence UP-TSU supported NHM, Uttar Pradesh for successful procurement of 85,936 Smartphones (in addition to 79,647 smartphones procured in Jan'22) for distribution to ASHA workers. UP-TSU supported with finalizing technical specifications, evaluation of technical bids and award of contract to the successful bidder.

## SET UP OF PPP PROJECT MONITORING UNIT FOR NHM, UTTAR PRADESH

Department of Medical Health and Family Welfare, Uttar Pradesh has awarded multiple healthcare contracts on outsourcing/ PPP basis, which includes Advanced life support ambulance, CT Scan operationalization, Free diagnostic services at District Hospitals and Community Health Centres, Dialysis services at District Hospitals, to name a few ('Ongoing Contracts'). The department also intends to award similar outsourcing/PPP contracts in the near future ('New Contracts'), for which the process has already been initiated. To build institutional capacity for managing such complex contracts, a project management unit consisting of contract management experts was envisaged to be setup. UP-TSU helped in conceptualizing the idea, defining scope of work, carrying out transparent procurement process and onboarding the agency for the same in 2018. As the tenure of the previous agency was coming to an end, UP-TSU provided technical support in selection of new agency for managing PPP- PMU.

## DATA SYSTEM STRENGTHENING AND EVIDENCE GENERATION TO INFORM EFFECTIVE DECISION-MAKING

Year 2022 was another successful year wherein important efforts to strengthen the data system and enhance data use for decision making were made. Building upon previous year's efforts of mapping of public health facilities, the UP-TSU data system team played a vital role in mapping and geo-coding of additional 5000 new Sub-centres in UP. The team coordinated with the GoUP and the TSU Community Outreach vertical to ensure the mapping of all newly allocated Sub-centres, ensuring timely completion by block and district-level government staff. By mid-December 2022, 4746 of 5000 new sub-centres were successfully mapped. This effort resulted in the fulfilment of population norms by 68% of total Sub-centres in the states simultaneously increasing the tally of total sub-centres to 25523. After the completion of this exercise, the total number of sub-centres in the state is expected to reach to 25848. It was also important to link the new Sub-centres to specific revenue villages so that a designated ASHA and ANM could start providing services to the geographies allocated under these facilities. As UP has already mapped ASHA under ANMs, the facility level mapping exercise was the next logical step towards assigning Area of Responsibility (AoR) of each sub-centre to a revenue village and to an ANM. This involved reallocation of revenue villages to a Sub-centre in such a way that none of the rural geographies remain unserved and the population served by each Sub-centre was within a narrow range. UP-TSU M&E, Community Outreach, and Digital team devoted joint efforts to complete the AoR mapping of all the Sub-centres under 820 blocks (including the new and existing sub-centre areas). By the middle of December 2022, AoR of 80% blocks were completed and sent to the government for approvals.



*Review meeting conducted in Balrampur on 15th December 2022 with officials from GoUP, BMGF, UP-TSU and partner organisations*

Equally significant efforts were also put-in towards improving the quality of government data system. By January 2022, Divisional M&Es were placed across all the 18 divisions of UP to provide the technical and analytical support to NHM Divisional M&E Hubs. Both NHM and UP-TSU Divisional M&E jointly initiated the Validation Committee Meeting at District Hospital as one of the important new activities. The evidence has shown that despite the improvement in data quality over the past few years, data quality at DH level remained an issue as no concrete effort was made to improve DH data quality in the past. Learning from the experience of Validation Committee Meeting (VCM) at lower-level facilities, the same was activated at DH level and has shown some promising results. Eighty-seven percent of District Hospitals (n=85 DWH/DCH) started conducting VCM and one-third of DCH/DWH are conducting VCM in every alternate month. VCM at CMO level has also got scaled-up to all the 75 districts which was earlier concentrated in 25 HPDs. Close to 57% of districts (43 out of 75 districts) have conducted validation committee meeting consistently since January 2022.

As part of its efforts to strengthen evidence-informed programmatic decision-making, UP-TSU M&E/data system team has continued to support the data review platforms through the divisional and state staff. All the 18 divisions have conducted review meetings once in a quarter and 8 of them are consistently conducting these meetings each month. The UP Health Dashboard continued to provide important insights in these review meetings and also acted as a guiding tool to facilitate programmatic discussions as well as to develop a much-deeper analysis using multiple data sources beyond the HMIS/UPHMIS. During the year, 407 decisions were taken in the domains of RMNCH and data quality by the district and division level government officials. UP-TSU have also developed the tools and protocols to establish the program review mechanism at the facility and block level through "Facility and Block Score Cards" and the same will be rolled out in the year 2023.

The data use was not only limited to the routine program monitoring data but was also expanded to the analysis of survey data sets. UP-TSU M&E successfully completed the analysis of Integrated Family Planning Survey, Rolling Facility Survey Plus, Cohort Study under Routine Immunization and National Family Health Survey-5 data sets to bring various programmatic insights.



**KEY SBCC INITIATIVES**



Film on eKavach



Film on Routine Immunization to address AEFI by introducing Paracetamol syrup



Development of an E-module on gender part 1 and part 2 to sensitize health service providers on Gender. NHM integrated both Modules in Skill Birth Attendants (SBA) training



Development of 3 films to enhance the IPC skills of ASHA for promoting Shagun Kit among newlyweds and to address key barriers on FP



Development of 2 films on complementary feeding to promote adequate and quality food among 6-8 months and 9-23 months old children



Film on Khushhal Parivar Diwas

**EDITORIAL TEAM**

Dr Vasanthakumar N., Executive Director  
Dr Manish Kumar P, Director-Nutrition and HR  
Dr Shalini Raman, Sr. Team Leader - IEC/BCC

**COMMUNICATION TEAM**

Pritika Ojha - Community Process  
Neha Parveen - FP  
Tapaswini Swain - Nutrition  
Shreya Mazumdar - System  
Abhishek Sahu - Designing Support

UP-TSU did approximately 16 different analyses and 4 peer-reviewed publications using multiple data sets which helped in developing various concept notes and guiding the discussion with GoUP and UP-TSU program verticals to improve health outcomes.

**List of programmatic analyses and peer-reviewed publications**

**A. Programmatic analyses**

1. Understanding pattern and change in neonatal mortality rate in UP: Evidence from NFHS-5
2. Understanding progress and inequities in key RMNCHN indicators in UP: Learnings from NFHS-5
3. Situational analysis on maternal anaemia in Uttar Pradesh
4. Unpacking home delivery pattern in UP with special focus on Shamli and Mirzapur: Learnings from NFHS-5
5. Applying an effective coverage framework to understand full immunization coverage among children aged 12-15 months in priority blocks of Uttar Pradesh, India
6. Developing approaches to develop Health Equity Framework for Programs using NFHS and CBTS data
7. Neonatal and Post-neonatal Mortality in Uttar Pradesh: A gender perspective
8. Understanding health situation and health seeking pattern in Uttar Pradesh
9. Interplay between women's empowerment and community-based interventions on health outcomes in Uttar Pradesh: Trends and patterns
10. NFHS coverage and districts level differentials in MNCH indicators: District prioritization for focused intervention
11. Strategic selection of geography for gender analysis using equity framework
12. Understanding Critical Gaps in Immunization Coverage in Prayagraj using Effective Coverage Cascade Approach
13. Understanding health situation in Kanpur Dehat, Uttar Pradesh
14. Low coverage of 4+ANC in Unnao district and its' potential reasons
15. Newborn complications and neonatal deaths in 25 HPDs of Uttar Pradesh: RFS+
16. Deep dive situational insights to facilitate India Newborn Action Plan (INAP) meeting, Bahraich

**B. Peer-reviewed publications**

1. Halli SS, Alam MT, Joseph A, Prakash R, Isac S, Becker M, et al. Declining fertility and increasing use of traditional methods of family planning: a paradox in Uttar Pradesh, India? J Biosocial Sci. 2022; 06:1–14. <https://doi.org/10.1017/s0021932022000086>
2. Khandait D, Yadav V, Chakrabarti R, Prakash R, Isac S, Sridharan S. Developing a culture of evidence use: Experience from Uttar Pradesh. Published in M&E @70: Strengthening India's Evidence Systems for Accelerated Reforms and Inclusive Growth- A Compendium of Essay. 2022. NITI Aayog: New Delhi.
3. Meghani A, Tripathi AB, Bilal H, Gupta S, Prakash R, Namasivayam V, et al. Optimizing the health management information system in Uttar Pradesh, India: implementation insights and key learnings. Global Health Science Practice. 2022;10(4):e2100632. <https://doi.org/10.9745/GHSP-D-21-00632>
4. Namasivayam V, Dehury B, Prakash P, Becker M, Anand P, Mishra A, et al. Understanding the rise in traditional contraceptive methods use in Uttar Pradesh, India. Reproductive Health (Accepted)



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