unicef
for every child

Nutrition Publications

SUPPORTED BY THE NUTRITION TEAM UNICEF INDIA COUNTRY OFFICE

2018-2022

Foreword

Dear colleagues,

As we look towards a future where all children can grow up healthy and strong with adequate nutrition, it is crucial that we invest in research, evidence, data and knowledge management as critical components for the development of effective policies and programmes. This publication list comprises of UNICEF Nutrition supported evidence-related reports and papers published in journals and elsewhere during the UNICEF India Country Programme 2018 to 2022. Most of these are co-authored by staff from UNICEF India.

Maternal and child malnutrition remains a significant public health challenge in India, with severe consequences for both individuals and society as a whole. Through rigorous research and data analysis, we can gain a deeper understanding of the underlying causes and drivers of malnutrition and develop targeted and evidence-based interventions to address them.

The papers and reports in this publication list cover a wide range of topics, including on the nutrition situation of women and children and the causes of the various forms of malnutrition in India, and review of nutrition interventions on maternal and child nutrition. The importance of research and data-driven insights cannot be overstated. It allows us to track progress, identify gaps, and measure the impact of our interventions. It also helps us to target our efforts and resources more effectively, ensuring that we are reaching those who are most in need. These papers demonstrate the breadth and depth of the research and evidence work supported by UNICEF India in relation to maternal and child malnutrition in India. It represents work of government, academia, development partners, and UNICEF, who have come together to contribute to the collective effort to improve the evidence base in support of strengthening the response to promote maternal and child nutrition in India. It is through this collaboration and the sharing of knowledge and expertise that we can make the most progress in getting to evidence informed high impact nutrition responses.

With continuous generation and dissemination of evidence-based knowledge, we can truly make a difference in the lives of mothers and children in India. The papers and reports in this publication list present cutting-edge research and innovative solutions that are needed to address the complex and multifaceted problem of malnutrition.

We hope that this publication list will serve as a valuable resource for policy makers, practitioners, and researchers working to improve maternal and child nutrition in India. We also hope that it will inspire all stakeholders to continue to support and invest in research, evidence, data, and knowledge management as critical components for the development of high impact policies and programs to address maternal and child malnutrition in India. We must also continue to work together, bringing together the expertise and resources of government, academia, and development partners, including UNICEF, to achieve our common goal of a healthier and more prosperous future for all mothers and children in India.

Regards,

Arjan de Wagt
Chief Nutrition, UNICEF India Country Office

Publications from 2022 to 2018

2022

1. ‘India Inc Invests in Nutrition-Proof of Concepts’ IMPact4Nutrion 2019-2021. IMPact4Nutrition 2022.

2. Avula, R., Nguyen, P.H., Tran, L.M. et al. De Wagt Arjan. (April 2022). Reducing childhood stunting in India: Insights from four subnational success cases. Food Sec. 14, 1085–1097.

3. Chatterjee, K., Sinha, R., & Kumar, P. (2022). Finding sustainable solutions for childhood under-nutrition in India: an assessment of association of childhood under-nutrition with multiple factors. International Journal of Community Medicine And Public Health, 9(5), 2214–2224.

4. Dhillon, Preeti & Sahoo, Harihar & Usman, Mohd & Srivastava, Anjula & Agrawal, Praween & Johnston, Robert & Unisa, Sayeed. (August 2022). Status and correlates of micronutrient deficiencies in slum and non-slum areas of India’s four metropolitan cities: Investigation from CNNS. Social Science & Medicine. 309. 115259. 10.1016/j.socscimed.2022.115259.

5. Hargreaves D, Mates E, Menon P, Alderman H, Devakumar D, Fawzi W, Greenfield G, Hammoudeh W, He S, Lahiri A, Liu Z, Nguyen PH, Sethi V, Wang H, Neufeld Lynette, Patton G. (January 2022). Strategies and interventions for healthy adolescent growth, nutrition, and development. Lancet. 399 (10320): 198-210.

6. Joe, William Rinju & Patel, Narendra & Alambusha, Ruby & Kulkarni, Bharati & Yadav, Kapil & Sethi, Vani. (February 2022). Coverage of Iron and Folic Acid Supplementation in India: Progress Under the Anemia Mukt Bharat Strategy. 2017-2020. Health Policy and Planning. 37. 10.1093/heapol/czac015.

7. Kumar P, Chatterjee K, Daniel A, Kumar Sinha R, Arora P, Wagt A. (October 2022). A narrative review of efficacy of antibiotics in treatment of children with severe acute malnutrition in community based out-patient treatment. Trop Doct. (4):489-494.

8. Lynnette M Neufeld, Eduardo B Andrade, Ahna Ballonoff Suleiman, Mary Barker, Ty Beal, Lauren S Blum, Kathrin M Demmler, Surabhi Dogra, Polly Hardy-Johnson, Anwesha Lahiri, Nicole Larson, Christina A Roberto, Sonia Rodríguez-Ramírez, Vani Sethi, Teresa Shamah-Levy, Sofia Strömmer, Alison Tumilowicz, Susie Weller, Zhiyong Zou. (2022). Food choice in transition: adolescent autonomy, agency, and the food environment. Lancet. Volume 399, Issue 10320.

9. Nutrition Situation in India during COVID-19 pandemic: Synthesis of evidence. Public Health Foundation of India, Nutrition Development partners 2022.

10. Raghavan A, Satyanarayana VA, Fisher J, Ganjekar S, Shrivastav M, Anand S, Sethi V, Chandra PS. (September 2022). Gender Transformative Interventions for Perinatal Mental Health in Low and Middle Income Countries-A Scoping Review. Int J Environ Res Public Health. 2022 Sep 28;19(19):12357. doi: 10.3390/ijerph191912357. PMID: 36231655; PMCID: PMC9564578.

11. Ramaswamy, Gomathi & Jaiswal, Abhishek & Vohra, Kashish & Kaur, Ravneet & Bairwa, Mohan & Singh, Archana & Sethi, Vani & Yadav, Kapil. (2022). **Correction Equation for Hemoglobin Values Obtained Using Point of Care Tests—A Step towards Realistic Anemia Burden Estimates.** Diagnostics. 12. 3191. 10.3390/diagnostics12123191.

12. Scott S, Lahiri A, Sethi V, de Wagt A, Menon P, Yadav K, Varghese M, Joe W, Vir SC, Nguyen PH. (2022). **Anaemia in Indians aged 10-19 years: Prevalence, burden and associated factors at national and regional levels.** Matern Child Nutr. 18(4):e13391.

13. Shrivastav, Monica & Vasudeva, Saisha & Gulati, Tanvi & Roshni-Cwcsa, Bharati & Saraswat, Abhishek & Abraham, Neha & Anand, Sarita & Xaxa, Rika & Minj, Jagjit & Prajapati, Mahendra & Chandra, Prabha & Sethi, Vani. (2022). **The mental health of adolescent girls from a tribal region of Central Rural India during the COVID-19 pandemic – A cross-sectional study to determine the role of gender disadvantage.** Journal of Neurosciences in Rural Practice. 13. 1-7. 10.25259/JNRP-2022-2-3.

14. Sinha, Rajesh & Kumar, Praveen & Daniel, Abner & Shah, Hemang & Sriswan, Raja & Kokane, Arun & Mohapatra, Aditya & Goel, Anil & Kumar, Virendra & Kiran, Kumari & Arlappa, Nimmathota & Joshi, Ankur & Nayak, Rashmi & Sayal, Shikha & de Wagt, Arjan. (2022). **Association between anthropometric criteria and body composition among children aged 6–59 months with severe acute malnutrition: a cross-sectional assessment from India.** BMC Nutrition. 8. 10.1186/s40795-022-00551-6.

15. **Situational Overview of Nutritional Status, Food security, and Continuity of Essential Services in India during the COVID-19 Pandemic (October-December 2021).** Nutrition Development Partners, United Nations Children's Fund (UNICEF) India, Public Health Foundation of India 2022.

16. Unisa, Sayeed & Dhillon, Preeti & Anand, Enu & Sahoo, Harihar & Agarwal, Praween & Johnston, Robert. (2022). **Data quality of birthweight reporting in India: Evidence from cross-sectional surveys and service statistics.** SSM - Population Health. 19. 101220. 10.1016/j.ssmph.2022.101220.

17. Vani Sethi, Archana Mishra, Akhand Pratap Singh, Sameer Pawar, Pushpa Awasthy and Arjan de Wagt. (November 2022). **Using flow charts and health systems strengthening to improve antenatal nutrition services in India.** Field Exchange 68.

2021

18. Abraham RA, Rana G, Agrawal PK, Johnston R, Sarna A, Ramesh S, Acharya R, Khan N, Porwal A, Kurundkar SB, Pandey A, Pullakhandam R, Nair KM, Kumar GT, Sachdev H, Kapil U, Deb S, Wagt A, Khera A, Ramakrishnan L. (March 2021). **The Effects of a Single Freeze-Thaw Cycle on Concentrations of Nutritional, Noncommunicable Disease, and Inflammatory Biomarkers in Serum Samples.** J Lab Physicians.13(1):6-13. doi: 10.1055/s-0041-1726575.

19. **Analysis of Wasting and Severe Wasting and its associated risk factors among under 5 children in India.** Center for Health Research and Development, Society for Applied Studies, United Nations Children's Fund (UNICEF) India 2021.

20. Bassi S, Bahl D, Maity H, Dudeja S, Sethi V, Arora M. (2021). **Content analysis of food advertisements on popular indian television channels among children and youth: a cross-sectional study.** Journal of Global Health Reports. 2021;5:e2021089.

21. Choedon, Tashi & Sethi, Vani & Chowdhury, Ranadip & Bhatia, Neena & Dinachandra, Konsam & Murira, Zivai & Bhanot, Arti & Baswal, Dinesh & de Wagt, Arjan & Bhargava, Madhavi & Meshram, Indrapal & Babu, Giridhara R & Kulkarni, Bharati & Divakar, Hema & Jacob, Chandni Maria & Killeen, Sarah Louise & Mcauliffe, Fionnuala & Alambusha, Ruby & Joe, William & Hanson, Mark. (2021). **Population estimates and determinants of severe maternal thinness in India.** International Journal of Gynecology & Obstetrics. 155. 380-397. 10.1002/ijgo.13940.

22. Dougal Hargreaves, Emily Mates, Purnima Menon, Harold Alderman, Delan Devakumar, Wafai Fawzi, Geva Greenfield, Weeam Hammoudeh, Shanshan He, Anwesha Lahiri, Zheng Liu, Phuong Hong Nguyen, Vani Sethi, Haijun Wang, Lynnette M Neufeld, George C Patton. (2021). **Strategies and interventions for healthy adolescent growth, nutrition, and development.** Lancet, Volume 399, Issue 10320.

23. **Innovations and Adaptations in Nutrition Response in India during COVID-19 pandemic.** United Nations Children's Fund (UNICEF) India 2021.

24. Johnston R, Dhamija G, Kapoor M, Agrawal PK, Wagt Ad. (2021). **Methods for assessing seasonal and annual trends in wasting in Indian surveys (NFHS-3, 4, RSOC & CNNS).** PLoS One. 16(11): e0260301.

25. Johnston R, et al. (November 2021). **Methods for assessing seasonal and annual trends in wasting in Indian surveys (NFHS-3, 4, RSOC & CNNS).** PLoS One.;16(11): e0260301.

26. Kachwaha, S., R. Avula, P. Menon, V. Sethi, W. Joe, and A. Laxmaiah. (2021). **Improving Maternal Nutrition in India Through Integrated Hot-Cooked Meal Programs: A Review of Implementation Evidence.** POSHAN Report No 14. New Delhi: International Food Policy Research Institute.

27. Kulkarni B, et al. (August 2021). **Prevalence of Iron Deficiency and its Sociodemographic Patterning in Indian Children and Adolescents: Findings from the Comprehensive National Nutrition Survey 2016-18.** The Journal of Nutrition. Volume 151, Issue 8, Pages 2422–2434.

28. Kumar P, Sinha RK, Daniel A, Shah H, Sriswan R, Kokane A, Mohapatra A, Kashyap V, Goel AK, Kumar V, Kiran A, Arlappa N, Joshi A, Nayak RR, Singh M, Salasibew M, Ghosh S, Pawar SM, Mishra P, Tiwari K, Bhattacharjee S, Saiyed F, Patel TS, Nayak PK, Sahoo SK, Prajapati M, Sinha S, de Wagt A. (December 2021). **Effectiveness of community-based treatment programs for treatment of uncomplicated severe acute malnourished children aged 6-59 months using locally produced nutrient dense foods: protocol for a multicentric longitudinal quasi-experimental study.** BMC Nutr. 2021 Dec 15;7(1):85.

29. Kumar, P., Rohatgi, S., Singh, P. et al. (2021). **Strengthening Psychosocial Stimulation in the Management of Children With Severe Acute Malnutrition: Experience From a Nutrition Rehabilitation Center.** Indian Pediatr. 58 (Suppl 1), 42–45.

30. Mukherjee SB, Agrawal D, Mishra D, Shastri D, Dalwai SH, Chattopadhyay N, Unni J, Bharadva K, Thadhani A, Lewin M, Nagaraj A, Ramji S, Mehta R, Singh VV, Wagt A, Aquino L, Pejaver RK, Gandhi A, Tank J, Thangavelu S, Basavaraja GV, Kumar RR, Gupta P. (October 2021). **Indian Academy of Pediatrics Position Paper on Nurturing Care for Early Childhood Development.** Indian Pediatr. 58(10):962-969.

31. **National Consultation on Addressing Acute Malnutrition.** NITI Aayog, UNICEF, PAN Society (India), COE-SAM Network, ICMR-NIN Hyderabad 2021.

32. Neufield L, et al. (2021). **Food choice in transition: adolescent autonomy, agency, and the food environment.** Lancet Adolescent Nutrition Series.

33. Nguyen, Phuong & Kachwaha, Shivani & Tran, Lan & Sanghvi, Tina & Ghosh, Sebanti & Kulkarni, Bharati & Beesabathuni, Kalpana & Menon, Purnima & Sethi, Vani. (2021). **Maternal Diets in India: Gaps, Barriers, and Opportunities.** Nutrients. 13. 3534. 10.3390/nu13103534.

34. Onori, Federica & Dhillon, Preeti & Dinachandra, Konsam & Jaleel, Abdul & Saraswat, Abhishek & Rs, Reshmi & Unisa, Sayeed & Sethi, Vani. (2021). **An Adaptation of the Food Insecurity Experience Scale (FIES) for Measuring Food Insecurity Among Women in Socially- Backward Communities.**

35. Phuong PH, et al. (February 2021). **Missed opportunities for delivering nutrition interventions in first 1000 days of life in India: insights from the National Family Health Survey,** 2006 and 2016. BMJ Glob Health. 6(2): e003717.

36. Porwal A, et al. (2021). **Association of maternal height and body mass index with nutrition of children under 5 years of age in India: Evidence from Comprehensive National Nutrition Survey 2016–18,** Asia Pac J Clin Nutr. 30(4):675-686.

37. Porwal, A., Acharya, R., Ashraf, S. Johnston, r et al. (2021). **Socio-economic inequality in anthropometric failure among children aged under 5 years in India: evidence from the Comprehensive National Nutrition Survey 2016–18.** Int J Equity Health. 20, 176.

38. **POSHAN-COVID Monitoring Quarterly Situation Overview : October 2021.** Nutrition Development Partners, United Nations Children's Fund (UNICEF) India, Global Nutrition Cluster Technical Alliance 2021.

39. Raghu Pullakhandham, et al. (August 2021). **Prevalence of low serum zinc concentrations in Indian children and adolescents: findings from the Comprehensive National Nutrition Survey 2016-18.** The American Journal of Clinical Nutrition, Volume 114, Issue 2.

40. Reddy GB, et al. (2021). **Prevalence of vitamin A deficiency in Indian children and adolescents: findings from the Comprehensive National Nutrition Survey 2016-18.** Eur J Nutr. (1):197-209.

41. Sethi, Vani & Choedon, Tashi & Chowdhury, Ranadip & Bhatia, Neena & Dinachandra, Konsam & Murira, Zivai & Bhanot, Arti & Baswal, Dinesh & de Wagt, Arjan & Bhargava, Madhavi & Meshram, Indrapal & Babu, Giridhara R & Kulkarni, Bharati & Divakar, Hema & Jacob, Chandni Maria & Killeen, Sarah Louise & Mcauliffe, Fionnuala & Vergehese, Mini & Ghosh, Sebanti & Hanson, Mark. (2021). **Screening and management options for severe thinness during pregnancy in India. International Journal of Gynecology & Obstetrics.** 155. 357-379. 10.1002/ijgo.13939.

42. Sethi, Vani & Kumar, Praveen & Choedon, Tashi & Dinachandra, Konsam. (2021). **Screening and Management of Maternal Malnutrition in Nutritional Rehabilitation Centers as a Routine Service: A Feasibility Study in Kalawati Saran Children Hospital,** New Delhi. Indian Journal of Community Medicine. 46. 10.4103/ijcm.IJCM_491_20.

43. Shrivastav, Monica & Saraswat, Abhishek & Abraham, Neha & Rs, Reshmi & Anand, Sarita & Purty, Apolenarius & Xaxa, Rika & Minj, Jagjit & Mohapatra, Babita & Sethi, Vani. (2021). **Early Lessons from Swabhimaan, a multi-sector integrated health and nutrition programme for women and girls in India.** Field Exchange issue 65.

44. **The cost of Childhood Wasting in India,** The Coalition of Food and Nutrition Security (CFNS), 2021.

45. Unisa, S., Saraswat, A., Bhanot, A., Jaleel, A., Parhi, R., Bhattacharjee, S., Sethi, V. (2021). **Predictors of the diets consumed by adolescent girls, pregnant women and mothers with children under age two years in rural eastern India.** Journal of Biosocial Science, 53(5), 663-682. doi:10.1017/S0021932020000462.

2020

46. Aneja, Satinder & Kumar, Praveen & Choudhary, Tarun Shankar & Srivastava, Akanksha & Chowdhury, Ranadip & Taneja, Sunita & Bhandari, Nita & Daniel, Abner & Menon, Purnima & Chellani, Harish & Bahl, Rajiv & Bhan, Maharaj. (2020). **Growth faltering in early infancy: highlights from a two-day scientific consultation. BMC proceedings.** 14. 12. 10.1186/s12919-020-00195-z.

47. Ann Abraham, Praween K. Agrawal, Robert Johnston, Sowmya Ramesh, Akash Porwal, Avina Sarna, Rajib Acharya, Nizamuddin Khan, Harshpal Singh Sachdev, Umesh Kapil, Renu Saxena, Amynah Janmohamed, Arjan de Wagt, Sila Deb, Ajay Khera, Lakshmy Ramakrishnan. (April 2020). **Comparison of hemoglobin concentrations measured by HemoCue and a hematology analyzer in Indian children and adolescents 1-19 years of age.** Int J Lab. Hemtol. 42(4);e155-e159.

48. **Assessing Impact of the COVID-19 Pandemic on the Socio-Economic Situation of Vulnerable Populations through Community Based Monitoring.** United Nations Children's Fund (UNICEF) India 2020.

49. **Brief report on Activities and Good practices Conducted by COE-SAM Network during POSHAN Maah.** Centre of Excellence – SAM Network, United Nations Children's Fund (UNICEF) India 2020.

50. Chopra M, et al. (September 2020). **Population estimates, consequences, and risk factors of obesity among pregnant and postpartum women in India: Results from a national survey and policy recommendations.** Int J Gynaecol Obstet 151(Suppl 1):57-67.

51. **Community based programme for children below 5 years of age with severe acute malnutrition in India Progress so far and lessons learned.** Centre of Excellence – SAM Network, United Nations Children's Fund (UNICEF) India 2020.

52. Kumar P, et al. (April 2020). **Comparison of hemoglobin concentrations measured by HemoCue and a hematology analyzer in Indian children and adolescents 1-19 years of age,** Int J Lab. Hemtol. 42(4);e155-e159.

53. Praveen Kumar, Raja Sriswan Mamidi, N Arlappa, Khyati Tiwari, Shivani Rohatgi, G Sarika, Dripta Roy Choudhury, Jaga Jeevan Babu Geddam and R Hemalatha. (October 2020). **Development and use of alternative nutrient-dense foods for management of acute malnutrition in India.** Field Exchange issue 63.

54. Praveen Kumar, Virendra Kumar, Sila Deb, Arpita Pal, Keya Chatterjee, Rajesh Kumar Sinha and Sanjay Prabhu. (October 2020). **Integration of management of children with severe acute malnutrition in paediatric inpatient facilities in India.** Field Exchange issue 63.

55. Praveen Kumar, Yazhmozhi Meiyappan, Eleanor Rogers, Abner Daniel, Rajesh Sinha, Srikanta Basu, Virendra Kumar, Arjan De Wagt. (March 2020). **Outcomes of Hospitalized Infants Aged One to Six Months in Relation to Different Anthropometric Indices – An Observational Cohort Study**. Indian Journal of Pediatrics. 87;699–705.

56. Saraswat, Abhishek & Unisa, Sayeed & Rs, Reshmi & Dwivedi, Laxmi & Pedgaonkar, Sarang & Sethi, Vani. (2020). **Assessment of Nutritional Status of Pregnant Women based on mid-upper arm circumference (MUAC) and associated factors in poverty pockets of Eastern India.** The Journal of family welfare. 64. 134-145.

57. Sarna A, et al. (2020). **Characterisation of the types of anaemia prevalent among children and adolescents aged 1–19 years in India: a population-based study,** Lancet Child Adolescent Health.

58. Unisa, S., Saraswat, A., Bhanot, A., Jaleel, A., Parhi, R., Bhattacharjee, S., . . . Sethi, V. (August 2020). **Predictors of the diets consumed by adolescent girls, pregnant women and mothers with children under age two years in rural eastern India.** Journal of Biosocial Science, 53(5), 663-682.

59. Vani Sethi, Arjan de Wagt, Arti Bhanot, Konsam Dinachandra Singh, Praween Agarwal, Zivai Murira, Salima Bhatia, Dinesh Baswal, Sayeed Unisa, Subu V. Subramanian. (March 2020). **Levels and determinants of malnutrition among India's urban poor women: An analysis of Demographic Health Surveys 2006 and 2016.** Matern Child Nutr. 2020; e12978.

2019

60. Abraham RA, et al. (2019). **Effect of temperature and time delay in centrifugation on stability of select biomarkers of nutrition and non-communicable diseases in blood samples,** Biochem Med (Zagreb). 2019;29(2):020708. doi: 10.11613/BM.2019.020708.

61. Arjan de Wagt, Eleanor Rogers, Praveen Kumar, Abner Daniel, Harriet Torlesse and Saul Guerrero. (2019). **Continuum of care for children with wasting in India: Opportunities for an integrated approach.** Field Exchange issue 60.

62. Chattopadhyay A, et al. (July 2019). **WASH Practices and its Association with Nutritional Status of Adolescent Girls in Poverty Pockets of Eastern India.** BMC Women's Health 19, 89.

63. **Comprehensive National Nutrition Survey Report 2016-18.** Ministry of Health and Family Welfare, Government of India, 2019.

64. Fulpagare P, et al. (December 2019). **Antenatal Care Service Utilization Among Adolescent Pregnant Women–Evidence From Swabhimaan Programme in India.** Front. Public Health 7:369.

65. Mahadevan U, et al. (June 2019). **Combining a mid-day meal, health service package and peer support in Karnataka State, India.** Nutrition Exchange South Asia.

66. R S R, Dinachandra K et al. (January 2019). **Context for layering women's nutrition interventions on a large scale poverty alleviation program: Evidence from three eastern Indian states.** PLoS One. 14(1): e0210836.

67. Sethi V, et al. (August 2019). **Nutrition status of nulliparous married Indian women 15-24 years: decadal trends, predictors and program implications.** PLos One. 2019 Aug 27;14(8): e0221125.

68. Sethi V, et al. (January 2019). **Delivering Essential Nutrition Interventions for Women in Tribal Pockets of Eastern India.** Economic Political Weekly. Vol. 54, Issue No. 4, 26 Jan. 2019.

69. Sethi V, et al. (June 2019). **Delivering an integrated package of maternal nutrition interventions in Andhra Pradesh and Telangana (India).** Food Nutr Bull. 40(3);393-408.

70. Sethi V, et al. (May 2019). **Mid upper arm circumference cut-off for screening thinness in adolescent girls 10-14 and 15-19 years in field settings.** Public Health Nutrition. 22(12);2189–2199.

71. Sethi V., Kumar, P. and De Wagt, A. (July 2019). **Development of a maternal service package for mothers of children with severe acute malnutrition admitted to nutrition rehabilitation centres in India.** Field Exchange issue 59.

72. Sethi Vani et al. (2019). **Delivering Nutrition to Pregnant Women: Fiscal Bottlenecks in Purnea, Bihar.** Vol. 54, Issue No. 20.

73. Sethi Vani et al. (2019). **Fiscal challenges in scaling up nutrition interventions : Insights and Policy Implications.** Vol. 54, Issue No. 26-27.

74. Sethi, V et al. (November 2019). **Integrated Multisectoral Strategy to Improve Girls' and Women's Nutrition Before Conception, During Pregnancy and After Birth in India (Swabhimaan): Protocol for a Prospective, Non-Randomised Controlled Evaluation.** BMJ Open. 9(11), e031632.

75. Sethi, Vani & Bhanot, A & Bhattacharjee, Saptak & Gope, R & Sarangi, D & Nath, Vikash & Nair, Nirmala & Singh, Usha & Daniel, A & Parhi, RN & Sinha, S & Loomba, A & S, S & Purty, A & Ali, N & Mohapatra, B & Agarwal, N & Bhatia, Vikas & Ruikar, Manisha & Unisa, Sayeed. (2019). **Integrated multisectoral strategy to improve girls' and women's nutrition before conception, during pregnancy and after birth in India (Swabhimaan): protocol for a prospective, non-randomised controlled evaluation.** BMJ Open. 2019;9:e031632.

76. Sethi, Vani & Tiwari, Khyati & Sareen, Neha & Singh, Suneeta & Mishra, Chittaranjan & Jagadeeshwar, M. & Sunitha, K. & Kumar, S. & de Wagt, Arjan & Sachdev, Harshpal. (2019). **Delivering an Integrated Package of Maternal Nutrition Services in Andhra Pradesh and Telangana (India).** Food and Nutrition Bulletin. 40. 037957211984414. 10.1177/0379572119844142.

77. Shrivastava S, et al. (2019). **Fiscal challenges in scaling up nutrition interventions.** Economic and Political Weekly. Vol. 54, Issue No. 26-27.

2018

78. **Creating Awareness among Unreached Communities on CMAM by Local Folk Media.** Health and Family Development Department, Government of Gujarat, United Nations Children's Fund (UNICEF) India, 2018.

79. **Key Achievements from 5 Years of Collaboration. National Center of Excellence (NCOE) for SAM Management.** Kalawati Saran Children's Hospital, Ministry of Health and Family Welfare, Government of India, United Nations Children's Fund (UNICEF) India 2018.

80. Kumar P, Bijalwan V, Patil N, Daniel A, Sinha R, Dua R, Seth A. (2018). **Comparison between Weight-for-Height Z-Score and Mid Upper Arm Circumference to Diagnose Children with Acute Malnutrition in five Districts in India.** Indian J Community Med. 43(3):190-194.

81. Kumar P, et al. (2018). **Screening Maternal Acute Malnutrition Using Adult Mid-Upper Arm Circumference in Resource-Poor Settings.** Indian J Community Med. 43:132.

82. Sinha, R., Dua, R., Kumar, P., & Kumar, V. (2018). **Protocol of the cost effectiveness analysis of a cmam intervention with children in india.** Journal of Disease and Global Health. 11(2), 84-92.

83. Sinha, Rajesh & Dua, Richa & Bijalwan, Vasundhara & Rohatgi, Shivani & Kumar, Praveen. (2018). **Determinants of Stunting, Wasting, and Underweight in Five High-Burden Pockets of Four Indian States.** Indian Journal of Community Medicine. 43. 279-283.

Poshan Weekly (Nutrition newsletter)