

## Publications from Sitaram Bhartia Institute of Science and Research

(2023)

### Indexed Publications

#### International

1. Sachdev HS, Reddy GB, Pullakhandam R, Ghosh S, Rajkumar H, Kurpad AV. A vicious turn to the saga of vitamin A deficiency in India. *Eur J Clin Nutr* 2023; Online first: 22 December, 2023 <https://doi.org/10.1038/s41430-023-01389-2>
2. Ware L, Vermeulen B, Maposa I, Flood D, Brant LCC, Khandelwal S, Singh K, Soares S, Jessen N, Perman G, Riaz BK, Sachdev HS, Allen NB, Labarthe DR. Comparison of cardiovascular health profiles across population surveys from five high- to low-income countries. *CJC Open* 2023; Online first 7 December, 2023. doi: <https://doi.org/10.1016/j.cjco.2023.11.021>.
3. NCD Risk Factor Collaboration (NCD-RisC; includes Sachdev HS, Bhargava SK, Fall CHD, Osmond C). Global variation in diabetes diagnosis and prevalence based on fasting glucose and hemoglobin A1c. *Nat Med*. 2023 Nov 9. doi: 10.1038/s41591-023-02610-2. Epub ahead of print. PMID: 37946056.
4. Sachdev HS, Mondal A, Kurpad A. Contextual diets or chemical nutrient products for preventing malnutrition in low- and middle-income countries? *Arch Dis Child* Epub ahead of print: 27 October, 2023. doi:10.1136/archdischild-2023-325734
5. Nagpal J, Rawat S, Gupta L, Negi A, Oraon DS. A stepped wedge cluster randomized trial to evaluate the effectiveness of a community leader-driven kit-based diabetes self-management education approach in improving diabetes control and care: study protocol for the DELhi Diabetes INTervention Trial (DEDINTT). *Trials*. 2023 Oct 17;24(1):673. doi: 10.1186/s13063-023-07712-3.
6. Kurpad AV, Pasanna RM, Hegde SG, Patil M, Mukhopadhyay A, Sachdev HS, Bhat KG, Sivadas A, Devi S. Bioavailability and daily requirement of vitamin B12 in adult humans: an observational study of its colonic absorption and daily excretion as measured by [13C]-cyanocobalamin kinetics. *Am J Clin Nutr*. 2023; Published online October 17, 2023 <https://doi.org/10.1016/j.ajcnut.2023.08.020>
7. Rawat S, Yadav R, Goyal S, Nagpal J. Estimated risk of cardiovascular events and long-term complications: The projected future of diabetes patients in Delhi from the DEDICOM-II survey. *Diabetes Metab Syndr*. 2023 Oct 12;17(11):102880. doi: 10.1016/j.dsx.2023.102880. Epub ahead of print.
8. Fewtrell M, Bandsma RHJ, Baur L, Duggan CP, Dumrongwongsiri O, Hojsak I, Khatami K, Koletzko B, Kovalskys I, Li Z, Mouane N, Nel E, Sachdev HS, Spolidoro JV. The role of Pediatricians in promoting and supporting breastfeeding. A position paper of the

International Pediatric Association (IPA) Strategic Advisory Group on Infant, Child and Adolescent Nutrition. *Ann Nutr Metab.* 2023 Sep 6. doi: 10.1159/000534004. Epub ahead of print. PMID: 37673040.

9. Benjamin-Chung J, Mertens A, Colford JM, Hubbard AE, van der Laan MJ, Coyle J, Sofrygin O, Cai W, Nguyen A, Pokpongkiat NN, Djajadi S, Seth A, Jilek W, Jung E, Chung EO, Rosete S, Hejazi N, Malenica I, Li H, Hafen R, Subramoney V, Häggström J, Norman T, Brown KH, Christian P, Arnold BF, The Ki Child Growth Consortium (includes Sachdev HS, Bhargava SK, Fall CHD). Early-childhood linear growth faltering in low- and middle-income countries. *Nature* 2023; Online first published September 13, 2023 <https://doi.org/10.1038/s41586-023-06418-5>.
10. Mertens A, Benjamin-Chung J, Colford JM Jr, Coyle J, van der Laan MJ, Hubbard AE, Rosete S, Malenica I, Hejazi N, Sofrygin O, Cai W, Li H, Nguyen A, Pokpongkiat NN, Djajadi S, Seth A, Jung E, Chung EO, Jilek W, Subramoney V, Hafen R, Häggström J, Norman T, Brown KH, Christian P, Arnold BF; Ki Child Growth Consortium (includes Sachdev HS, Bhargava SK, Fall CHD). Causes and consequences of child growth faltering in low-resource settings. *Nature.* 2023 Sep 13. doi: 10.1038/s41586-023-06501-x. Epub ahead of print. PMID: 37704722.
11. Ghosh S, Palika R, Dasi T, Varshney RK, Parasannanavar DJ, Sen Gupta S, Chitikineni A, Banjara SK, Pullakhandam R, Thomas T, Sachdev HS, Kurpad AV, Kulkarni B. Haemoglobin diagnostic cut-offs for anaemia in Indian women of reproductive age. *Eur J Clin Nutr.* 2023 Aug 3. doi: 10.1038/s41430-023-01308-5. Epub ahead of print. PMID: 37537294.
12. Godhamgaonkar AA, Wadhwani NS, Randhir KN, Selukar SS, Dalvi S, Dangat K, Wagh GN, Lalwani S, Chandiook N, Kulkarni B, Fall C, Sachdev H, Gupte S, Joshi SR. Erythrocyte fatty acids and desaturase indices in early pregnancy are associated with risk of preeclampsia. *Prostaglandins, Leukotrienes and Essential Fatty Acids* 2023;196:102583. Epub ahead of print; July 21, 2023. <https://doi.org/10.1016/j.plefa.2023.102583>
13. Nyati LH, Norris SA, Micklesfield LK, Adair L, Fall C, Lee N, Martorell R, Osmond C, Richter LM, Sachdev HS, Horta B, Stein AD; COHORTS Group; Birth to Thirty; New Delhi Birth Cohort; INCAP Nutrition Supplementation Trial Longitudinal Study; Cebu Longitudinal Health and Nutrition Survey. Growth in infancy and childhood and age at menarche in five low- or middle-income countries: Consortium of Health Orientated Research in Transitional Societies (COHORTS). *J Nutr.* 2023 Jul 12:S0022-3166(23)72482-6. doi: 10.1016/j.tjnut.2023.07.003. Epub ahead of print. PMID: 37451558.
14. Vasan SK, Alex AG, Roy A, Gowri M, Sinha S, Suresh J, Philip RS, Kochumon J, Jaiswal N, Arulappan G, Ramakrishnan L, Sachdev HS, Tandon N, Thomas N, Jebasingh F, Osmond C, Karpe F, Bhargava SK, Antonisamy B, Prabhakaran D, Fall CHD and Thomson VS. Echocardiography protocol and cardiometabolic phenotyping in Indian birth cohorts—the IndEcho study. *Front. Cardiovasc. Med.* 2023;10:1055454. doi: 10.3389/fcvm.2023.1055454

15. Shalini T, Pullakhandam R, Ghosh S, Kulkarni B, Rajkumar H, Sachdev HS, Kurpad AV, Reddy, G.B. Prevalence of Vitamin B12 and Folate Deficiencies in Indian Children and Adolescents. *Nutrients* 2023, 15, 3026. <https://doi.org/10.3390/nu15133026>.
16. Gupta A, Rundall P, Ntombela N, Sachdev HS. Response to Dewey et al.'s Letter. *World Nutrition*. 2023;14(2):95-99.
17. Thiruvengadam R, Desiraju BK, Sachdev HS, Bhatnagar S. The challenges in gestational weight gain monitoring in low and middle income settings. *Eur J Clin Nutr*. 2023 Jun 14. doi: 10.1038/s41430-023-01292-w. Epub ahead of print.
18. Nema J, Wadhvani N, Randhir K, Dangat K, Pisal H, Kadam V, Mehendale S, Wagh G, Kulkarni B, Sachdev HS, Fall C, Gupte S, Joshi S. Association of maternal vitamin D status with the risk of preeclampsia. *Food Funct*. 2023 May 22;14(10):4859-4865.
19. Kurpad AV, Sachdev HS. Efficacy of maternal vitamin B12 supplementation for improving infant outcomes in settings with high deficiency. *Lancet*. 2023; Published online April 6, 2023 [https://doi.org/10.1016/S0140-6736\(23\)00511-1](https://doi.org/10.1016/S0140-6736(23)00511-1)
20. Gupta A, Rundall P, Ntombela N, Sachdev HS. Is "small quantity lipid nutrition supplement" (SQ-LNS) a sustainable and pragmatic strategy to prevent malnutrition? *World Nutr*. 2023;14:103-12.
21. NCD Risk Factor Collaboration (NCD-RisC includes Bhargava SK, Sachdev HS). Diminishing benefits of urban living for children and adolescents' growth and development. *Nature* 2023;615: 874–83.
22. Poveda NE, Adair LS, Martorell R, Patel SA, Ramirez-Zea M, Bhargava SK, Bechayda SA, Carba DB, Kroker-Lobos MF, Horta BL, Lima NP, Mazariegos M, Menezes AMB, Norris SA, Nyati LH, Richter LM, Sachdev HS, Wehrmeister FC, Stein AD. Growth patterns in childhood and adolescence and adult body composition: a pooled analysis of birth cohort studies from five low and middle-income countries (COHORTS collaboration). *BMJ Open* 2023;13:e068427. doi: 10.1136/bmjopen-2022-068427
23. Sachdev HS, Ghosh S, Gupta A, Thomas T, Kurpad AV. Locally validated biomarker cutoffs should inform micronutrient deficiency burdens. *Lancet Global Health* 2023;11:e338.

## **National**

1. Muralidharan J, Hegde SG, Ghosh S, Mondal A, Arjun MC, Thomas T, Kurpad SS, Davis C, Sachdev HS, Kurpad AV. Mandatory fortification of rice in the public distribution system in India: an ethics perspective. *Indian J Med Ethics*. 2023; Published online first on October 20, 2023. DOI: 10.20529/IJME.2023.064
2. Gupta A, Sachdev HS, Kapil U, Prakash S, Pandey RM, Lal PR. Etiology of mild and moderate anaemia among rural adolescent girls in India. *Indian J Hematol Blood Transfus*. 2023; Published Online October 16, 2023 <https://doi.org/10.1007/s12288-023-01707-5>.

3. Kaur M, Trilok-Kumar G, Sinha S, Filteau S, Kurpad AV, Osmond C, Sachdev HS. Longitudinal growth and undernutrition burden among term low birth weight newborns reared in adverse socioeconomic conditions in Delhi. *Indian Pediatr.* 2023; Published online: September 11, 2023; PII: S09747559160070.
4. Kurpad AV, Sachdev HS. Balance and threats of mandatory micronutrient fortification of foods in India. *Natl Med J India.* 2023;36:73–5.
5. Ghosh S, Majumder R, Sachdev HS, Kurpad AV, Thomas T. Customization of WHO under-five growth standards for an appropriate quantification of public health burden of growth faltering in India. *Indian Pediatr.* 2023; June 21, 2023: PII: S097475591600556. Epub ahead of print.
6. Gupta A, Bidla N, Joshi Y, Prasad V, Sachdev HS, Kumar P. Advertising of Pre-Packaged Foods in India: A Qualitative Analysis. *Indian Pediatr.* 2023 Apr 20:S097475591600529. Epub ahead of print. PMID: 37078482.
7. Pullakhandam R, Kulkarni B, Kurpad AV, Sachdev HS. The Need for Food Fortification with Zinc in India: Is There Evidence for This? *Indian Pediatr.* 2023 Apr 20:S097475591600527. Epub ahead of print. PMID: 37078479.
8. Rana G, Abraham RA, Sachdev HS, Nair KM, Trilok Kumar G, Agarwal PK, Johnston R, de Wagt A, Sarna A, Acharya R, Porwal A, Khan N, Ramesh S, Bharti R, Kalavani M, Ramakrishnan L. Prevalence and correlates of Vitamin D deficiency among children and adolescents from a nationally representative survey in India. *Indian Pediatrics* 2023;60 PII: S097475591600479 January 02, 2023 [E-pub ahead of print]

## **Preprints**

1. Majumder R, Kurpad AV, Sachdev HS, Thomas T, Ghosh S, Anthropometric Growth Reference for Indian Children and Adolescents. SSRN [Preprint] July 19, 2023. Available at SSRN: <https://ssrn.com/abstract=4514754> or <http://dx.doi.org/10.2139/ssrn.4514754>
2. Ware L, Vermeulen B, Maposa I, Flood D, Brant LC, Khandelwal S, Singh K, Soares S, Jessen N, Perman G, Riaz BK, Sachdev HS, Allen NB, Labarthe DR. Comparison of cardiovascular health profiles across population surveys from five high- to low-income countries. *medRxiv* [Preprint]. 2023 Jul 28:2023.07.26.23293185. doi: 10.1101/2023.07.26.23293185. PMID: 37546768; PMCID: PMC10402230.
3. Shalini T, Pullakhandam R, Ghosh S, Kulkarni B, Rajkumar H, Sachdev HS, Kurpad AV, Reddy GB. Prevalence of Vitamin B12 and Folate Deficiencies in Indian Children and Adolescents. *Preprints.org* 2023, 2023051011. <https://doi.org/10.20944/preprints202305.1011.v1>.
4. Ghosh S, Palika R, Dasi T, Varshney R, Prasannanavar D, Gupta S, Chitikineni A, Banjara S, Pullakhandam R, Thomas T, Sachdev HS, Kurpad AV, Kulkarni B. Haemoglobin diagnostic cut-offs for anaemia in Indian women of reproductive age. *Research Square Preprint* DOI: <https://doi.org/10.21203/rs.3.rs-2366595/v1> Posted January 24th, 2023.

## **Non-Indexed Journals**

1. Khalil S, Sachdev HPS. Primordial prevention of adult chronic disease in the “first 1000 days”: An Indian perspective. *Indian J Pract Pediatr.* 2023;25:52-60.

## **Reports Citation**

1. World Health Organization Regional Office for South-East Asia. Nutrient and promotion profile model. Ending the inappropriate promotion of food products for older infants and young children. New Delhi, World Health Organization, 2023.
2. World Health Organization. Report on the first meeting of the WHO Technical Advisory Group on Gestational Weight Gain (TAG-GWG). Virtual meeting 20 and 22 June, 2023. Geneva World Health Organization, 2023. Available from: [https://www.who.int/publications/m/item/report-on-the-first-meeting-of-the-who-technical-advisory-group-on-gestational-weight-gain-\(tag-gwg\)](https://www.who.int/publications/m/item/report-on-the-first-meeting-of-the-who-technical-advisory-group-on-gestational-weight-gain-(tag-gwg)). Accessed 22 December, 2023.
3. WHO Guideline for complementary feeding of infants and young children 6–23 months of age. Geneva: World Health Organization; 2023. Licence: CC BY-NC-SA 3.0 IGO.
4. Carbohydrate intake for adults and children: WHO guideline. Geneva: World Health Organization; 2023. Licence: CC BY-NC-SA 3.0 IGO.
5. Saturated fatty acid and trans-fatty acid intake for adults and children: WHO guideline. Geneva: World Health Organization; 2023. Licence: CC BY-NC-SA 3.0 IGO.
6. Total fat intake for the prevention of unhealthy weight gain in adults and children: WHO guideline. Geneva: World Health Organization; 2023. Licence: CC BY-NC-SA 3.0 IGO.
7. Use of non-sugar sweeteners: WHO guideline. Geneva: World Health Organization; 2023. Licence: CC BY-NC-SA 3.0 IGO.
8. Accelerating anaemia reduction: a comprehensive framework for action. Geneva: World Health Organization; 2023. Licence: CC BY-NC-SA 3.0 IGO.