

## **Publications from Sitaram Bhartia Institute of Science and Research**

(2021)

### **Indexed Publications**

#### **International**

1. STAGE (Strategic Technical Advisory Group of Experts), Duke T, AlBuhairan FS, Agarwal K, Arora NK, Arulkumaran S, Bhutta ZA, Binka F, Castro A, Claeson M, Dao B, Darmstadt GL, English M, Jardali F, Merson M, Ferrand RA, Golden A, Golden MH, Homer C, Jehan F, Kabiru CW, Kirkwood B, Lawn JE, Li S, Patton GC, Ruel M, Sandall J, Sachdev HS, Tomlinson M, Waiswa P, Walker D, Zlotkin S. World Health Organization and knowledge translation in maternal, newborn, child and adolescent health and nutrition. *Arch Dis Child*. 2021 Dec 30:archdischild-2021-323102. doi: 10.1136/archdischild-2021-323102. Epub ahead of print. PMID: 34969670.
2. Kulkarni B, Augustine LF, Pullakhandam R, Pradhan AS, Dasi T, Palika R, Banjara SK, Sachdev HS. 'Screen and Treat for Anaemia Reduction (STAR)' strategy: study protocol of a cluster randomised trial in rural Telangana, India. *BMJ Open* 2021;11:e052238. doi:10.1136/bmjopen-2021-052238
3. Naga Rajeev L, Saini M, Kumar A, Sinha S, Osmond C, Sachdev HS. Weight-for-height is associated with an overestimation of thinness burden in comparison to BMI-for-age in under-five populations with high stunting prevalence. *Int J Epidemiol*. 2021, 1-10. Epub ahead of print 22 September 2021. <https://doi.org/10.1093/ije/dyab238>.
4. Varghese JS, Adair LS, Patel SA, Bechayda SA, Bhargava SK, Carba DB, Horta BL, Lima NP, Martorell R, Menezes A, Norris SA, Richter LM, Ramirez-Zea M, Sachdev HS, Wehrmeister FC, Stein AD. for the COHORTS group. Changes in asset-based wealth across the life course in birth cohorts from five low- and middle-income countries, *SSM Population Health* 2021; Nov 20. Epub ahead of print. doi: <https://doi.org/10.1016/j.ssmph.2021.100976>.
5. Thiruvengadam R, Desiraju BK, Natchu UCM, Wadhwa N, Sachdeva K, Misra S, Parmar N, Juyal M, Mittal P, Bharti R, Tripathi R, Ramji S, Sachdev HS, Bhatnagar S; GARBH–Ini study team. Gestational weight gain trajectories in GARBH-Ini pregnancy cohort in North India and a comparative analysis with global references. *Eur J Clin Nutr*. 2021 Nov 16. doi: 10.1038/s41430-021-01040-y. Epub ahead of print. PMID: 34785811.
6. Dasi T, Palika R, Pullakhandam R, Augustine LF, Boiroju NK, Prasannanavar DJ, Pradhan AS, Kurpad AV, Sachdev HS, Kulkarni B. Point-of-care haemoglobin measurement in pooled capillary blood by a portable autoanalyser: comparison with venous blood haemoglobin measured by reference methods in cross-sectional and longitudinal studies. *Br J Nutr*. 2021 Nov 2:1-27. doi: 10.1017/S0007114521004347. Epub ahead of print. PMID: 34726147.

7. Nagpal J, Rawat S, Goyal S, Lata AS. The poor quality of diabetes care in a cluster randomized community survey from Delhi (DEDICOM-II): A crisis, an opportunity. *Diabet Med.* 2021 Sep;38(9):e14530. doi: 10.1111/dme.14530. Epub 2021 Feb 5.
8. Balachandar R, Pullakhandam R, Kulkarni B, Sachdev HS. Relative efficacy of Vitamin D2 and Vitamin D3 in improving Vitamin D status: Systematic review and meta-analysis. *Nutrients* 2021, 13, 3328. <https://doi.org/10.3390/nu13103328>. Epub ahead of print.
9. NCD Risk Factor Collaboration (NCD-RisC includes Sachdev HS, Bhargava SK, Osmond C, Fall CHD). Worldwide trends in hypertension prevalence and progress in treatment and control from 1990 to 2019: a pooled analysis of 1201 population-representative studies with 104 million participants. *Lancet.* 2021; Published Online August 24, 2021 [https://doi.org/10.1016/S0140-6736\(21\)01330-1](https://doi.org/10.1016/S0140-6736(21)01330-1). Epub ahead of print.
10. Kurpad AV, Ghosh S, Thomas T, Bandyopadhyay S, Goswami R, Gupta A, Gupta P, John AT, Kapil U, Kulkarni B, Kuriyan R, Madan J, Makkar S, Nair KM, Pullakhandam R, Reddy GB, Shah D, Sachdev HS. Perspective: When the cure might become the malady: the layering of multiple interventions with mandatory micronutrient fortification of foods in India. *Am J Clin Nutr.* 2021 Jul 28:nqab245. doi: 10.1093/ajcn/nqab245. Epub ahead of print.
11. Sinha S, Shah D, Osmond C, Fall CHD, Bhargava SK, Sachdev HS. Intergenerational change in anthropometry of children and adolescents in the New Delhi Birth Cohort. *Int J Epidemiol.* 2021 Jul 19:dyab142. doi: 10.1093/ije/dyab142. Epub ahead of print.
12. Strategic and Technical Advisory Group of Experts (includes Sachdev HS). Creating the Strategic and Technical Advisory Group of Experts (STAGE) to advance maternal, newborn, child, adolescent health and nutrition: a new approach. *BMJ Glob Health.* 2021 Jul;6(7):e006726. doi: 10.1136/bmjgh-2021-006726.
13. Sharma S, Kumari N, Sengupta R, Malhotra Y, Bhartia S. Rationalising antibiotic use after low-risk vaginal deliveries in a hospital setting in India. *BMJ Open Qual.* 2021 Jul;10(Suppl 1):e001413.
14. Reddy GB, Shalini T, Ghosh S, Pullakhandam R, Kumar BN, Kulkarni B, Laxmaiah A, Kapil U, Deb S, Hemalatha R, Kurpad AV, Sachdev HS. Prevalence of vitamin A deficiency and dietary inadequacy in Indian school-age children and adolescents. *Eur J Nutr.* 2021 Jul 12. doi: 10.1007/s00394-021-02636-7. Epub ahead of print. PMID: 34251518.
15. Reddy GB, Pullakhandam R, Ghosh S, Boiroju NK, Tattari S, Laxmaiah A, Hemalatha R, Kapil U, Sachdev HS, Kurpad AV. Reply to Regular vitamin A supplementation: prioritizing the youngest children. *Am J Clin Nutr.* 2021;114(1):391-2.
16. Reddy GB, Pullakhandam R, Ghosh S, Boiroju NK, Tattari S, Laxmaiah A, Hemalatha R, Kapil U, Sachdev HS, Kurpad AV. Reply to Universal National Vitamin A Program. *Am J Clin Nutr.* 2021;113(6):1709-11.
17. Kulkarni B, Peter R, Ghosh S, Pullakhandam R, Thomas T, Reddy GB, Rajkumar H, Kapil U, Deb S, Johnston R, Agrawal PK, de Wagt A, Kurpad AV, Sachdev HS. Prevalence of Iron Deficiency and its sociodemographic patterning in Indian children and adolescents: Findings from the Comprehensive National Nutrition Survey 2016–18. *J Nutr* 2021; Online first published 28 May, 2021, nxab145, <https://doi.org/10.1093/jn/nxab145>

18. Poveda NE, Hartwig FP, Victora CG, Adair LS, Barros FC, Bhargava SK, Horta BL, Lee NR, Martorell R, Mazariegos M, Menezes AMB, Norris SA, Richter LM, Sachdev HS, Stein A, Wehrmeister FC, Stein AD; COHORTS Group. Patterns of Growth in Childhood in Relation to Adult Schooling Attainment and Intelligence Quotient in 6 Birth Cohorts in Low- and Middle-Income Countries: Evidence from the Consortium of Health-Oriented Research in Transitioning Societies (COHORTS). *J Nutr*. 2021 May 12:nxab096. doi: 10.1093/jn/nxab096. Epub ahead of print. PMID: 33982126.
19. Zengin A, Kulkarni B, Khadilkar AV, Kajale N, Ekbote V, Tandon N, Bhargava SK, Sachdev HS, Sinha S, Scott D, Kinra S, Fall CHD, Ebeling PR. Prevalence of Sarcopenia and Relationships Between Muscle and Bone in Indian Men and Women. *Calcif Tissue Int*. 2021 May 9. doi: 10.1007/s00223-021-00860-1. Epub ahead of print. PMID: 33966094.
20. Sachdev HS, Porwal A, Sarna A, Acharya R, Ramesh S, Kapil U, Kurpad AV. Intraindividual double-burden of anthropometric undernutrition and “metabolic obesity” in Indian children: a paradox that needs action. *Eur J Clin Nutr*. 2021; Published Online April 23, 2021 <https://doi.org/10.1038/s41430-021-00916-3>
21. Sachdev HS, Porwal A, Acharya R, Ashraf S, Ramesh S, Khan N, Kapil U, Kurpad AV, Sarna A. Haemoglobin thresholds to define anaemia in a national sample of healthy children and adolescents aged 1–19 years in India: a population-based study. *Lancet Glob Health* 2021; Published Online April 16, 2021 [https://doi.org/10.1016/S2214-109X\(21\)00077-2](https://doi.org/10.1016/S2214-109X(21)00077-2).
22. Pullakhandam R, Agrawal PK, Peter R, Ghosh S, Reddy GB, Kulkarni B, Thomas T, Kurpad AV, Sachdev HS, Porwal A, Khan N, Ramesh S, Acharya R, Sarna A, Kapil U, Rajkumar H, De Wagt A, Deb S, Johnston R. Prevalence of low serum zinc concentrations in Indian children and adolescents: findings from the Comprehensive National Nutrition Survey 2016-18. *Am J Clin Nutr*. 2021 Apr 8:nqab066. doi: 10.1093/ajcn/nqab066. Epub ahead of print.
23. Gupta A, Kant S, Ramakrishnan L, Pandey RM, Khandelwal R, Kapil U, Sachdev HS. Impact of daily-supervised administration of a package of iron and folic acid and vitamin B12 on hemoglobin levels among adolescent girls (12–19 years): a cluster randomized control trial. *Eur J Clin Nutr* (2021). <https://doi.org/10.1038/s41430-021-00878-6>
24. NCD Risk Factor Collaboration (NCD-RisC includes Bhargava SK, Sachdev HS). Heterogeneous contributions of change in population distribution of body mass index to change in obesity and underweight. *NCD Risk Factor Collaboration (NCD-RisC)*. *eLife* 2021;10:e60060. DOI: <https://doi.org/10.7554/eLife.60060>.
25. Sarna A, Porwal A, Acharya R, Ashraf S, Ramesh S, Khan N, Sinha S, Sachdev HS. Waist Circumference, Waist-to-Height Ratio and Body Mass Index percentiles in children and adolescents aged 5 to 19 years in India: A population based study. *Obesity Science and Practice* *Obes Sci Pract*. 2021;1–13. <https://doi.org/10.1002/osp4.493>
26. Kumaran K, Krishnaveni GV, Suryanarayana KG, Prasad MP, Belavendra A, Atkinson S, Balasubramaniam R, Bandsma RHJ, Bhutta ZA, Chandak GR, Comelli EM, Davidge ST, Dennis CL, Hammond GL, Jha P, Joseph KS, Joshi SR, Krishna M, Lee K, Lye S, McGowan P, Nepomnaschy P, Padvetnaya V, Pyne S, Sachdev HS, Sahariah SA, Singhal N, Trasler J, Yajnik CS, Baird J, Barker M, Martin MC, Husain N, Sellen D, Fall CHD, Shah

PS, Matthews SG. Protocol for a cluster randomised trial evaluating a multifaceted intervention starting preconceptionally - Early Interventions to Support Trajectories for Healthy Life in India (EINSTEIN): a Healthy Life Trajectories Initiative (HeLTI) Study. *BMJ Open* 2021;11:e045862. doi:10.1136/bmjopen-2020-045862

## **National**

1. Gupta P, Dabas A, Seth A, Bhatia VL, Khadgawat R, Kumar P, Balasubramanian S, Khadilkar V, Mallikarjuna HB, Godbole T, Krishnamurthy S, Goyal JP, Bhakhri BK, Ahmad A, Angadi K, Basavaraj GV, Parekh BJ, Kurpad A, Marwaha RK, Shah D, Munns C, Sachdev HPS. Indian Academy of Pediatrics Revised (2021) Guidelines on Prevention and Treatment of Vitamin D Deficiency and Rickets. *Indian Pediatr.* 2021 Dec 29:S097475591600382. Epub ahead of print. PMID: 34969941.
2. Singh P, Kurpad AV, Verma D, Nigam AK, Sachdev HS, Pandey A, Hemalatha R, Deb S, Khanna K, Awasthi S, Toteja GS, Bansal PG, Gonmei Z, Bhargava B. Global hunger index does not really measure hunger - An Indian perspective. *Indian J Med Res.* 2021 Dec 2. doi: 10.4103/ijmr.ijmr\_2057\_21. Epub ahead of print. PMID: 34854428.
3. Thomas T, Sachdev HS, Ghosh S, Kapil U, Kurpad AV. Association of Vitamin A status with under-five mortality in India. *Indian Pediatr.* 2021;58: E-pub ahead of print September 22, 2021 PII: S097475591600372.
4. Pandey S, Devasenapathy N, Sinha S, Zodpey SP, Bhargava SK, Sachdev HPS, Osmond C, Fall CHD. Childhood head growth and educational attainment in an Indian cohort. *Indian Pediatr* 2021;58: E-pub ahead of print September 4, 2021 PII: S097475591600366.
5. Kumari N, Jain N, Dhar RSG. Effect of a Locally Tailored Clinical Pathway Tool on VBAC Outcomes in a Private Hospital in India. *J Obstet Gynaecol India.* 2021 Jun;71(3):246-253.
6. Dewan P, Sachdev HPS. Research for improving patient care. *Indian Pediatr* 2021;58:377-82.
7. 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 HPS, Kapil U, Deb S, de Wagt A, Khera A, Ramakrishnan L. The effects of a single freeze-thaw cycle on concentrations of nutritional, noncommunicable disease, and inflammatory biomarkers in serum samples. *J Lab Physicians* 2021;13:6–13.

## **Preprints**

1. Ghosh S, Thomas T, Kurpad A, Sachdev HS. Is iron status associated with markers of non-communicable disease in Indian children? Research Square Preprint DOI: 10.21203/rs.3.rs-1136688/v1 Posted 3 Dec, 2021. <https://www.researchsquare.com/article/rs-1136688/v1>
2. Ramesh S, Abraham RA, Sarna A, Sachdev HS, Khan N, Porwal A, Acharya R, Agrawal PK, Ashraf S, Ramakrishnan L. Prevalence of metabolic syndrome among adolescents in India: a population-based study. Research Square Preprint DOI: <https://doi.org/10.21203/rs.3.rs-902711/v1> Posted September 24; Available at <https://www.researchsquare.com/article/rs-902711/v1>
3. Pullakhandam R, Ghosh S, Kulkarni B, Reddy GB, Rajkumar H, Kapil U, Deb S, Kurpad Anura V, Sachdev HS. Reference Cut-Offs to Define Low Serum Zinc Concentrations in 1-19 Year Old Indian Children and Adolescents. 2021; Available at SSRN: <https://ssrn.com/abstract=3898499> or <http://dx.doi.org/10.2139/ssrn.3898499>
4. Kishore S, Kurpad AV, Sachdev HS, Webb P, Thomas T. The Potential Impact of Monthly Income Transfers on Child Stunting in India: A Sub-National Geospatial Perspective. Available at SSRN: <https://ssrn.com/abstract=3757400> or <http://dx.doi.org/10.2139/ssrn.3757400>

### **Non-Indexed Journals**

1. Reddy GB, Pullakhandam R, Shalini T, Kulkarni B, Sachdev HS, Kurpad AV. Vitamin A supplementation and fortification programs in India: need for review. NFI Bull 2021;42(4):1-8.
2. Khalil S, Sachdev HPS. Primordial Prevention of Adult Chronic Disease in the “First 1000 Days”: An Indian Perspective. NFI Bull 2021;42(3):1-8.

### **Reports Citation**

1. World Health Organization. (2021). WHO antenatal care recommendations for a positive pregnancy experience: nutritional interventions update: zinc supplements during pregnancy. World Health Organization. <https://www.who.int/publications/i/item/9789240030466>