

**Prof. Dr. Narendra Kumar Arora MBBS, MD (Pediatrics), MMSc (Clin. Epid.)**



**25/06/1954**

**Executive Director**

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**CURRICULUM VITAE**

2005- present	Executive Director	The INCLIN Trust International, New Delhi
2020- present	President	All India Institute of Medical Sciences (AIIMS), Deoghar, Jharkhand
2018- present	President	All India Institute of Medical Sciences (AIIMS), Patna, Bihar
2010- 2014	Executive Director	Child Health and Nutrition Research Initiative (CHNRI), New Delhi
2004- 2007	Professor	Department of Pediatrics,
1996- 2004	Additional Professor	All India Institute of Medical Sciences (AIIMS), New Delhi
1992- 1996	Associate Professor	
1988- 1992	Assistant Professor	

**PROFESSIONAL APPOINTMENTS**

**Since**

2020	Member	WHO Strategic and Technical Advisory Group of Experts (STAGE) for Maternal, Newborn, Child, Adolescent Health & Nutrition
2019	Member	Global Advisory Committee for Vaccine Safety (GACVS)
2017	Member	SAGE Working Group on GVAP
2016	Member	SAGE Working Group on Measles & Rubella
2016	Member	SAGE Working Group on PCV
2015-17	Member	SAGE Working Group on Typhoid
2015-16	Chair	SAGE Working Group on Measles & Rubella
2015-16	Chair	SAGE Working Group on HEV
2015-16	Chair	SAGE Working Group on Measles & Rubella
2014-16	Chair	SAGE Working Group on Hepatitis E
2013-17	Chair	SAGE Working Group on GVAP
2013-16	Member	SAGE Working Group on Humanitarian Emergencies
2010-16	Member	Strategic Advisory Group of Experts (SAGE) (Vice-Chair 2013-16) Scientific Advisory Committee, International Association for the Study on Obesity
2010	Member	
2011	Advisor	Gates Projects on Immunization
2008-11	Member	Regional Technical Advisory Group for Immunization, WHO-SEARO
2008-10	Co-Chair	World Alliance for Patient Safety
2008	Member	Regional Technical Advisory Group on Acute Diarrheal Disease and Respiratory Infections, WHO-SEARO

**Within India:**

- 2020 Chairperson Operational Research Group of the National Task Force for COVID19, ICMR New Delhi
- 2020 Chairperson Scientific Advisory Committee (SAC) for the qHPV program, DBT-BMGF
- 2019 Member Governing Body of Translational Health Science and Technology Institute (THSTI), DBT-Gol
- 2019 Chairperson Expert Committee for Selection and Recommendation of NCP and FBR projects for Implementation under Health Care Theme of CSIR
- 2019 Co-Chair Accelerated Translational Grant for Commercialization' (ATGC) Expert Evaluation Committee Constituted by DBT
- 2018 Chairperson Technical Expert Committee (TEC), Medical Biotechnology-II (DBT-NER), Department of Biotechnology
- 2018 Co-Chair Scientific and Technical Advisory Group (STAG), Medical Biotechnology, Department of Biotechnology
- 2017 Advisor National Adverse Event Following Immunization (AEFI) Committee
- 2016 Chairperson National Pneumococcal Vaccine Expert Committee, Immunization Division, Ministry of Health & Family Welfare (MoHFW)
- 2015 Chairperson National Certification Committee for Verification of Elimination of Rubella & Congenital Rubella Syndrome in India
- 2015 Member National Advisory Group (NAG), National Steering Committee (NSC) & Technical Resource Groups (TRG), Rashtriya Bal Swasthya Karyakram (RBSK)
- 2014 Chairperson National Certification Committee for Polio Eradication (NCCPE)
- 2014 Chairperson National Expert Committee on Rota Virus Vaccine
- 2014 Member Advisory Group on Measles & Rubella (IEAR on MR)
- 2014 Member Technical Expert Group on rationality of continuing typhoid vaccination in children, Directorate of Family Welfare
- 2014 Member Committee on National Institute for Research in Reproductive Health (NIRRH)
- 2013 Member Reconstitution of National Technical Advisory Group on Immunization (NTAGI)
- 2014 Member Expert Committee, Department of Biotechnology on Vaccine Research and Development
- 2008 - 17 Chairperson National Adverse Event Following Immunization (AEFI) Committee
- 2015 Member National Advisory Group (NAG), National Steering Committee (NSC) & Technical Resource Groups (TRG), Rashtriya Bal Swasthya Karyakram (RBSK)
- 2012 Member Scientific Advisory Group, National Centre for Disease Control (NCDC)
- 2012 Member Reproductive Maternal Newborn Child Health Coalition
- 2011 Member Committee for Biotechnology based Programs for SC/ST and Rural Population
- 2011 Secretary Technical Resource Group (TRG) for Child Health
- 2011 Member Working group, Performance of National Rural Health Mission (NRHM) for Twelfth Five Year Plan
- 2011 Member Niche Area Committee (NAC) on Biotechnology for Social development
- 2011 Member Expert Committee, Development of vision document in healthcare for North Eastern Region of India
- 2011 Member National Vaccine Policy by Ministry of Health and Family Welfare
- 2011 Member Community Pediatrics, Ethics Committee, Dept. of Bio-technology
- 2010 Member Scientific Advisory Group, Indian Council of Medical Research
- 2010 Member Medical Council of India, Board of Specialty in Family Medicine
- 2008 Chairperson Expert Group, Celiac Disease Research Program, ICMR

- 2008 Member Regional Technical Advisory Group (RTAG), Integrated Control of Acute Diarrhea and Respiratory Diseases (ICDR)
- 2007 Member Scientific Advisory Board, Indian Council of Medical Research
- 2007 Nominated Task Force on Maternal & Child Health, Division of Reproductive Health & Nutrition, ICMR
- 2007 Member Technical Advisory Group, Polio Communication Strategy
- 2006 Member Rotavirus vaccine and Hib vaccine, ICMR
- 2005 Member Committee on Nutrition, Foods for Special dietary use on infants
- 2005 Member Expert Committee for Vitamin A & Iron Folic Acid Supplementation on Reproduction & Child Health Program
- 2005 Member Expert Group, Zinc as adjunct therapy with ORS in acute diarrhea
- 2004 Member Planning Group for Centre for Public Health & Biotechnology, DBT
- 2004 Member Working group, Review of National Nutrition Policy (NNP) and National Action Plan on Nutrition Department for Women & Child Development, Food & Nutrition Board
- 2003 Member Revision of guidelines to manage diarrheal disease in childhood
- 2003 Member National Advisory Group on Immunization (NTAGI) - Ministry of Health and Family Welfare, Government of India
- 2001 Member Working Group, Improving Nutritional Status of Population with Special Focus on Vulnerable Groups, MoHFW
- 2000 Member India Expert Group on Polio Eradication
- 2000 Member Tribal Health Project Scientific Advisory Group
- 1998 Coordinator National Certification Committee for Polio Eradication (NCCPE)
- 1998 -03 Member Food & Nutrition Council, Women & Child Development
- 1997 Member Task force, Food based Guidelines for India
- 1997 Member Committee on National Strategies to Reduce Childhood Malnutrition
- 1997 Member Task Force on management of malnourished children with diarrheal disease

### **ACADEMIC RECORD**

<b>INSTITUTION</b>	<b>YEAR</b>	<b>DEGREE</b>	<b>REMARKS</b>
Govt. Inter College, Bareilly	1971	Intermediate	Distinction with National Merit Scholarship
All India Institute of Medical Sciences (AIIMS), New Delhi	1971 to 1976	M.B.B.S.	Recipient of National Merit Scholarship
	1977 to 1979	M.D. (Pediatrics)	Recipient of National Talent Search Fellowship (TSSF) of ICMR

### **SPECIALITIES**

Pediatric Gastroenterology	1980 to 1983	Certificate	All India Institute of Medical Sciences (AIIMS) under ICMR-Talent Search scheme
National Academy of Medical Sciences	1992	MAMS	Recipient of Honorary Membership
Centre for Clinical Epidemiology & Biostatistics, Univ. of Newcastle, Australia	1993	M.M.Sc (Clinical Epidemiology)	Recipient of Rockefeller INCLIN Fellowship

## **Honors & Awards:**

- S.T. Achar Award, Indian Academy of Pediatrics, 1984
- B. Gopala Raju Award, Indian Academy of Pediatrics, 1986
- P.N. Taneja Award, Indian Academy of Pediatrics, Delhi Branch, 1990
- Rockefeller- INCLEN Fellowship, on clinical epidemiology at Centre for Clinical Epidemiology & Biostatistics, Newcastle, Australia, 1993
- National Academy Of Medical Sciences, 1993
- Honor, International Society of Pediatric Gastroenterology in recognition of the contributions made in the field of Pediatric Gastroenterology and Nutrition, 1995
- ICMR-Talent Search Scheme Fellowship (ICMR-TSSF)
- Fellow of Indian Academy of Pediatrics, 2000
- Fellow of Indian Public Health Association, 2003
- Fellow of The National Academy of Medical Sciences (India), 2005
- Kerala University of Health Sciences Oration 2015
- Indian Association of Pediatrics, Shantilal C Sheth Memorial Award, 2017
- Institute Day Oration AIIMS Patna 2019
- Late Dr NL Sharma Oration KGMU Lucknow 2019
- Indian Journal of Pediatrics: 12<sup>th</sup> KC Chaudhuri Lifetime Achievement Award, 2019
- Yogamaya Devi Award in Biomedical Sciences by MACS (Pune), 2019
- Council Member, The National Academy of Medical Sciences (India), 2020

## **RESEARCH SUPERVISION:**

**MD Students:** 15 MD's at Dept of Pediatrics, All-Indian Institute of Medical Sciences, New Delhi

**Ph. D Students:** completed 9, ongoing 2

## **RESEARCH AREAS**

**62 Multi-centric, Competitive Research Projects** as Principal Investigator (PI) or co-investigator in following research areas:

### **Children & Adolescent Health and Development**

- Neuro-developmental Disabilities (NDD) in children in India (2007-14)
- Nutrition and Physical Growth among Children & Young Adults (5 to 25 years)
  - Clustering of Cardio-metabolic risk among children (2012 -16)
  - Body composition at pubertal stages of growth (2012 - 16)
  - Under nutrition, Stunting & Childhood Obesity (2012 -17)
  - Social Capital, nutritional & health outcomes (2014-17)
- Cognitive developments and its association with nutrition (2014 -17)
- Cognitive development with vaccine use among children (2018 – 19)

### **Pediatric Liver Diseases:**

- Role of hepatitis E virus infection in Pediatric age group
- Etiology of acute and chronic hepatitis
- Sero-epidemiology of hepatitis viruses in childhood
- Risk factors of severe liver disease in children
- Management of Extra-hepatic portal hypertension
- Vaccine trials (Hepatitis B Vaccine)
- $\alpha_1$ -Antitrypsin deficiency
- Tyrosinemia deficiency

### **Pediatric Gastroenterology & Diarrheal Diseases:**

- Epidemiology, etiology and management of acute and persistent diarrhoea in childhood.
- Diarrheal disease control: Community implementation and training of faculty members

- Evaluation of newer diagnostic techniques like endoscopy for gastrointestinal disease

### **Maternal Health**

- Integrated Maternal and Child health (IMNCI) (2004 – 08)
- Home based Neonatal Care (HBNC) (2016 – 18)
- Probiotics (2018 – 19)

### **Safety of Vaccines**

- Immunization Coverage & Safety of Vaccines
  - Pentavalent Vaccines (2014 -16)
  - Pneumonia (2016 – 20)
  - Influenza (2017 – 20)
  - Other childhood vaccines
  - HPV vaccines (2018 – 20)
- Adverse Event Following Immunizations (AEFI) (2014 – 2020)

### **Elderly Care**

- Science in Dementia (Aadhar) (2018 – 20)

### **Implementation Research**

- Health System Strengthening
  - Quality of Care (QoC) in PHCs & CHCs (2015 – 18)
  - Improvement of New borne and Maternal Health Programs (2017 – 19)
  - Demonstration of implementation strategies on Maternal Vaccines
- Improving Water, Sanitation and Hygiene (WASH) in Communities
- Control of Vector Borne Diseases like Malaria

### **Program Evaluations**

- Evaluation of Pulse Polio Immunization Program (1997-98, 1998-99, 1999-2000, 2000)
- Evaluation of Family Health Awareness Program (1999, 2000)
- Evaluation of Vitamin-A and Iron Folic Acid Supplementation Program (2001, 2002)
- Assessment of Injection Practices in India (2002-2005)
- Evaluation of AFP Surveillance & Universal Immunization Program in India (2004-2005)
- Evaluation of Integrated Disease Surveillance Program (2001-2002)
- Certification of Polio Eradication (1999-2005)
- Evaluation of Integrated Management of Neonatal & Childhood Illnesses
- Baseline assessment of childhood morbidity & mortality in selected districts (2005-2009)

### **Sentinel Surveillance**

- Demographic, Development and Environmental Surveillance Sites (DDESS) – SOMAARTH (Palwal, Haryana since 2009, Bareilly, UP since 2018 & Shillong 2019)
- Childhood and Neonatal Pneumonia (2016 – 2020)

### **Safe Injection Practices**

- Assessment of Injection Safety in India (AIPI) (2002 -04)
- Model Injection Centre Program (MIC) in India (2005 -10)
- Situation of Bio-Medical Waste Management Practices (2009 – 10)

### **Environment**

- Air-quality monitoring
- Cook stoves to improve the household air quality

### **Leadership**

- Leadership and Management Program (LAMP) (since 2014)
- Pathways to Leadership in Health Research (2018 -19)

## **Research Priority Setting**

- Maternal and Child health for India (2014 -16)

## **Health Technologies**

- Geographic Information System (GIS) in Public Health (2011 – till date)
- Acceptance of Technology to Improve immunization coverage and Quality (2018)
- Electronic Data for
  - Longitudinal data collection (2014)
  - Framework software for multiple different study designs (2018)
  - Universal Immunization Program (UIP) vaccination (2016 – 17)
- Bio-chemical techniques to carry out nutrient balance studies for patients with malabsorption syndromes
- In-vitro organ culture system for human and rabbit intestine
- Technique to investigate pathogenesis of newer pathogens, microbes and micronutrients on intestinal structure and function
- Diagnostic facilities for hepatitis viral infections (A to E)
- Screening tests for metabolic liver diseases in children ( $\alpha$ -1 anti-trypsin deficiency, Wilson's disease, amino-acid defects, urinary succinyl acetone for tyrosinemia).

## **Qualitative Data Analysis & Synthesis**

- FGDs & In-depth Interviews in all studies exploring determinants
- Policy and Program Analysis

## **Teaching**

- Bedside and class room teaching of medical students at AIIMS, New Delhi
- Teaching Clinical Epidemiology & Essentials in Research Methodology
- Faculty for continuing medical education programs of AIIMS, Indian Academy of Pediatrics, College of Nursing, Indian Medical Association, College of General Practitioners and NIPPCCID
- Adjunct Faculty at PHFI since December 2014

## **MEMBERSHIPS IN SCIENTIFIC AND ACADEMIC BODIES**

### **National**

- Indian Academy of Pediatrics (IAP)
- Indian Academy of Medical Sciences
- Indian Association of Preventive & Social Medicine
- Indian Society of Gastroenterology
- Indian Association of Study on Liver
- India Clinical Epidemiology Network (IndiaCLEN)
- Pediatric Gastroenterology subspecialty Chapter of Indian Academy of Pediatrics
- Delhi Chapter of Indian Academy of Pediatrics
- Alumni Association of AIIMSONIANS
- National Institute of Health & family Welfare (NIHFW)

### **International**

- International Clinical Epidemiology Network (INCLEN).
- International Epidemiological Association.

## PUBLICATIONS

Research Papers	Published	First / Communicating Author
International	89	13
National	110	21
Monographs	24	15
Chapter in Books	29	19

## INTERNATIONAL

1. Nayyar S, Bhan MK, Gupta U, Arora NK Ghai OP, Mohapatra LN, Stinzing G, Molby R, Holme T. *Campylobacter jejuni* as a cause of childhood diarrhea in a north Indian Community. *J Diarrhea Dis Res (Dhaka)* 1983;1(1):26-28.
2. Khoshoo V, Bhan MK, Arora NK Kumar R, Stintzing G. Leucocyte migration inhibition in cow's milk protein intolerance. *Acta Paediatr Scand* 1986; 75:308-312.
3. Arora NK Bhan MK, Dhamija NK, Khoshoo V, Goel DP. Absorption tests in children with different states of malnutrition. *J Diarr Dis Res* 1985; 3:209-214.
4. Bhan MK, Ghai OP, Khoshoo V, Vasudev AS, Bhatnagar S, Arora NK Rashmi, Stintzing G. Efficacy of mung bean (lentil) and pop rice based re-hydration solutions in comparison with standard glucose electrolyte solution. *J Ped Gastro Nutr* 1987; 6:392-399.
5. Bhan MK, Arora NK Khoshoo V, Raj P, Bhatnagar S, Sazawal S, Sharma K. Comparison of a lactose free cereal based formula and cow's milk in infants and children with acute gastroenteritis. *J Ped Gastro Nutr* 1988; 7:208-213.
6. Bhan MK, Raj P, Khoshoo V, Bhandari N, Sazawal S, Kumar R, Srivastava R, Arora NK. Quantitation and properties of fecal and upper small intestinal aerobic microflora in infants and young children with persistent diarrhea. *J Paediatr Gastroenterol Nutr* 1989; 9:40-45.
7. Sazawal S, Bhatnagar S, Bhan MK, Saxena SK, Arora NK Aggarwal SK, Kashyap DK. Alanine based oral re-hydration solution: assessment of efficacy in acute non-cholera diarrhea among children. *J Paediatr Gastroentero Nutri* 1991; 12:461-468.
8. Khoshoo V, Bhan MK, Kumar R, Arora NK Stintzing G. Is cow's milk protein sensitive enteropathy a cell mediated immunological phenomenon? *Acta Paediatr Scand* 1991; 80:1092-1093.
9. Bhatnagar S, Bhan MK, Sazawal S, Gupta U, George C, Arora NK Kashyap DK. Efficacy of massive dose oral gentamicin therapy in non-bloody persistent diarrhea with associated malnutrition. *J Paediatr Gastroentrol Nutr* 1992;12 : 117-124.
10. Pradhan KM, Arora NK Jena A, Susheela AK, Bhan MK. Safety of ciprofloxacin in children: body flouride levels, magnetic resonance images and linear growth. *Acta Paediatr* 1995; 84: 555-60.
11. Arora NK Nanda SK, Gulati S, Ansari IH, Chawla MK, Gupta SD, Panda SK. Acute viral hepatitis types E, A, and B singly and in combination in acute liver failure in children in North India. *J Med Virology* 1996, Mar; 48(3): 215-221
12. Arora NK Tiwari V, Pandav CS, Kulkarni MH. Health as an economic issue: case study of village Bataha. *J Clin Epidemiology* 1997;50:35S

13. Arora NK Anand NK, Bhan MK, Jaikhani B, Aggarwal A, Meenu R, Batla R. Nutrient absorption from a fat-enriched diet in young malnourished children: a randomized controlled trial. *Acta Paediatr* 1998; 87: 143-148.
14. Gulati MS, Paul SB, Sharma S, Gupta AK, Arora NK Berry M. Intravenous CT portography: a new technique in the evaluation of extra-hepatic portal hypertension and surgical portal systemic shunts. *Pediatr Radiology* 1998; 28: 663.
15. Steinhoff MC, IBIS Group. Invasive *Haemophilus influenzae* disease in India: a preliminary report of prospective multihospital surveillance. *Pediatr Infect Dis J.* 1998 (supplement); 17: 172-175S.
16. Gulati MS, Paul SB, Arora NK Berry M. Evaluation of extra-hepatic Portal Hypertension and Surgical Portal Systemic Shunts by Intravenous CT-portography. *Clinical Imaging* 1999; 23: 377-385.
17. Arora NK Panda SK, Nanda SK, Ansari IH, Joshi S, Dixit R, Bathla R. Hepatitis E infection in children: study of an outbreak. *J Gastroenterol & Hepatology* 1999; 14: 572-577.
18. Invasive Bacterial Infection Surveillance (IBIS) Group, International Clinical Epidemiology Network (INCLEN). Prospective multicenter hospital surveillance of *Streptococcus pneumoniae* disease in India. *Lancet* 1999; 353: 1216-1221.
19. Gulati MS, Paul SB, Arora NK, Mathur P, Berry M. Esophageal and gastric vasculature in children with extrahepatic portal hypertension: evaluation by intravenous CT portography. *Clinical Imaging*. 2000; 24: 351-356.
20. Pandav CS, Arora NK Anand K, Sankar R, Pandav S, Karmarkar M.G. Validation of spot-testing kits to determine iodine content in salt. *Bull World Health Organ.* 2000; 78 (8): 975-980.
21. Arora NK Kohli R, Gupta DK, Bal CS, Gupta AK, Datta Gupta S. Hepatic technetium-99m-mebrofenin iminodiacetate scans and serum gamma-glutamyl transpeptidase levels interpreted in series to differentiate between extra hepatic biliary atresia and neonatal hepatitis. *Acta Paediatr* 2001; 90:975-981.
22. Arora NK Ganguly S, Agadi SN, Irshad M, Kohli R, Deo M, Paul VK, Deorari AK, Chellani H, Prasad MS, Sharma D. Hepatitis B immunization in low birth weight infants: do they need an additional dose? *Acta Paediatr* 2002; 91(9):995-1001.
23. Invasive Bacterial Infections Surveillance (IBIS) Group of the International Clinical Epidemiology Network. Are *Haemophilus influenzae* infections a significant problem in India? A prospective study and review. *Clin Infect Dis.* 2002, 34: 949-957.
24. Thukral A, Lodha R, Irshad M, Arora NK. Performance of Pediatric Risk of Mortality (PRISM), Pediatric Index of Mortality (PIM), and PIM2 in a pediatric intensive care unit in a developing country. *Pediatr Crit Care Med*, 2006; 7(4): 356-361.
25. Sarathi M, Lodha R, Vivekanandhan S, Arora NK. Adrenal status in children with septic shock using low-dose stimulation test. *Pediatr Crit Care Med – CME-* 2007; 8(1):23-28.
26. Khandpur S, Malhotra AK, Bhatia V, Gupta S, Sharma VK, Mishra R, Arora NK. Chronic arsenic toxicity from Ayurvedic medicines. *Int J Dermatol* 2008; Jun; 47(6):618-21
27. D Gisselquist, JJ Potterat, JS St Lawrence, M Hogan, Arora NK M Correa, WW Dinsmore, G Mehta, J Millogo, SQ Muth, M Okinyi and T Ounga. How to contain



generalized HIV epidemics? A plea for better evidence to displace speculation. *International J STD & AIDS* 2009; 20: 443-446

28. Walker, A. F. Merry, I. H. Wilson, G. A. McHugh, E. O'Sullivan, G. M. Thoms, F. Nuevo and D. K. Whitaker, GO Project teams. Global oximetry: an international anaesthesia quality improvement project. *Anaesthesia* 2009; 64: 1051-1060
29. Arora NK, Sanjay Chaturvedi, Rajib Dasgupta. Global Lessons from India's poliomyelitis elimination campaign. *Bulletin of the World Health Organization* 2010; 88: 232-234
30. Bhatia V, Das MK, Arora NK. Sclerotherapy in a Child Using the Transnasal Route. *J Clin Gastroenterol*, 2010; 44(6):457-8
31. Andermann A, Ginsburg L, Norton P, Arora NK. On behalf of the Patient Safety Research Training and Education Expert Working Group of WHO Patient Safety. Core Competencies for patient safety research: a cornerstone for global capacity strengthening. *BMJ Qual Saf*, 2011; 20: 96-101
32. Das MK, Devi K, Arora NK. The INCLEN (International Clinical Epidemiology Network) Trust International. How convergence on nutrition and health benefits mother and children. *BRICS; New Delhi Submit*, 2012:72-73.
33. Das MK, Devi K, Arora NK. Advancing Maternal, Newborn and Child Health Through Nutrition and Convergence. Stability, Security and Prosperity. *BRICS Research Group April* 2012
34. Mukhopadhyay R, Sankar S, Pillaristti A, Darby Jack, Mukhopadhyay Krishnendu, Balakrishnan Kalpana, Vaswai Mayur, Bates N. Michael, Kinney L. Patrick, Arora NK Smith R. Kirk. Cooking practices, air quality, and acceptability of advanced cookstoves in Haryana, India: an exploratory study to inform large-scale interventions. *Global Health Action* 2012, 2012; 5
35. Das MK, Arora NK. Nonalcoholic Fatty Liver Disease in Children: Epidemiology & Risk Factors. *Nutrition in Disease Management. Update Series 57*, January 2013
36. Bhatia V; Dhawan A; Arora NK, Mathur P; Das MK; Irshad M. Urinary Potassium Loss in Children with Acute Liver Failure and Acute Viral Hepatitis. *J of Pediatric Gastroenterology & Nutrition. Post Acceptance*, 6 March 2013, (doi: 10.1097/MPG.0b013e31828fc8ea)
37. Sen GS, Balakrish NG, Arora NK, Gangul NK. Vaccine development and deployment: Opportunities and Challenges in India. *Vaccine* 2013; 31s: B43-B53
38. Arora NK, Altaf LA, Joachim HM, Jose JI, Zulfiqar BA. The need for targeted implementation research to improve coverage of basic vaccines and introduction of new vaccines. *Vaccine* 2013; 31s: B129-B136
39. Wang S A, Hyde T B, Jack S M, Brenzel L, Favin M, Gordon W S, Shearer J C, Mantel C F, Arora NK, Durrheim D. New Vaccine Introductions: Assessing the impact and the opportunities for immunization and health systems strengthening. *Vaccine* 2013; 31s: B122- B1128
40. Epstein M.B., Bates M.N., Arora NK., Balakrishnan K, Jack D.W., Smith K.R. Household fuels, low birth weight, and neonatal death in India: The separate impacts of biomass, kerosene and coal. *International Journal of Hygiene and Environmental Health* 2013; 216: 523-532

41. Andermann A., Albert W. Wu, Lashoher A., Norton P., Arora NK, Bates David.W., Larizgoitia I. Case Studies of Patient Safety Research Classics to Build Research Capacity in Low- and Middle-Income Countries. *The Joint Commission Journal on Quality and Patient Safety* Dec 2013; 39:553-560
42. Shepard DS, Yara A. Halasa, Brij Kishore Tyagi, S. Vivek Adhish, Deeki Nandan, K. S. Karthiga, Vidya Chellaswamy, Mukul Gaba, Arora NK and the INCLEN Study Group† Economic and Disease Burden of Dengue Illness in India: The American Society of Tropical Medicine and Hygiene; *Am. J. Trop. Med. Hyg.*, 00(0), 2014, pp. 000–000
43. Pillarisetti A, Vaswani M, Jack D, Balakrishnan K, Bates MN, Arora NK. Patterns of Stove Usage after Introduction of an Advanced Cookstove: The Long-Term Application of Household Sensors. *Environ Sci Technol.* Nov 2014; 48.
44. Dube L, Webb P, Arora NK, Pingali P. Agriculture, health, and wealth convergence: bridging traditional food systems and modern agribusiness solutions. *Ann N Y Acad Sci.* Dec 2014;1331:1-14.
45. Dube L, Jha S, Faber A, Struben J, London T, Mohapatra A. Convergent innovation for sustainable economic growth and affordable universal health care: innovating the way we innovate. *Ann N Y Acad Sci.* Dec 2014;1331:119–41.
46. Harmanci H, Duclos P, Arora NK. World Health Organization Approaches to Evaluating the Potential Use and Quality of Hepatitis E Vaccine. *Open Forum Infect Dis.* Dec 2014; 1(3).
47. Plessow R, Arora NK. Social Costs of Iron Deficiency Anemia in 6–59-Month-Old Children in India. *PLoS ONE.* Aug 2015; 10(8).
48. Lu J, Xiong S, Arora NK and Dube L. Using food as reinforcer to shape children's non-food behavior: The adverse nutritional effect doubly moderated by reward sensitivity and gender. *Eating Behaviors.* Dec 2015; 19: 94-97.
49. Lu J, Xiong S, Arora NK and Dube L. Using food Reinforcer to shape Children's Non-Food Behavior Modifies Children's food preference. *Advances in Consumer Research.* 2015; 43:618-619.
50. Balakrishnan K, Sambandam S, Ghosh S, Mukhopadhyay K, Vaswani M, Arora NK. Household Air Pollution Exposures of Pregnant Women Receiving Advanced Combustion Cookstoves in India: Implications for Intervention. *Ann of Global Health.* May-June 2015; 81(3): 375-385.
51. Arora NK, Pillai R, Dasgupta R, Garg PR. Whole-of-society monitoring framework for sugar, salt and fat consumption and noncommunicable diseases in India. *Annals of The New York Academy of Sciences*; Issue: Paths of Convergence for Agriculture, Health, and Wealth: *Ann. N.Y. Acad. Sci.* xxxx (2014) 1–17 \_C 2014 New York Academy of Sciences.
52. Plessow R, Arora NK, Brunner B and Wieser S. Cost-Effectiveness of Price Subsidies on Fortified Packaged Infant Cereals in Reducing Iron Deficiency Anemia in 6-23-Month-old-children in Urban India. *PLoS ONE.* April 2016;11(4).
53. Arora NK, Mohapatra A. Setting research priorities for maternal, newborn, child health and nutrition in India by engaging experts from 256 indigenous institutions contributing over 4000 research ideas: a CHNRI exercise by ICMR and INCLEN. *Journal of Global Health,* June 2017.

54. Modjarrad K, Giersing B, WHO RSV Vaccine Consultation Expert Group et al. WHO report: WHO consultation on Respiratory Syncytial Virus Vaccine Development Report from a World Health Organization Meeting held on 23–24 March 2015. *Vaccine*. Jan 2016;34:190–197.
55. Kumar R, Arora NK, Santosham M. South Asia symposium on pneumococcal disease and the promise of vaccines – Meeting report. *Vaccine*. March 2016.
56. Nagy E, Moore S, Gruber R, Paquet C, Arora N, Dubé L. Parental social capital and children's sleep disturbances. *Sleep Health*. Dec 2016; 2(4):330-4.
57. Paquet, C., de Montigny, L., Labban, A., Buckeridge, D.L., Ma, Y., Arora, N.K. and Dubé, L. "The moderating role of food cue sensitivity in the behavioral response of children to their neighborhood food environment: a cross-sectional study." *International Journal of Behavioral Nutrition and Physical Activity*, 2017; 14: 86.
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