LIST OF MOST SIGNIFICANT PUBLICATIONS

Development of diagnostic tools for assessment of degree of malnutrition by using **anthropometeric indices-**

1)The growth pattern of Indian infants during the first year of life. Hum Biol 1973; 45: 341-9. 2-4) Growth in affluent Indian children Indian Pediatr 1992; 92:1203-82; 1994; 31: 377- 413 and 2001; 38: 1217-1235. 5) Statistics and applications 2015;11-23(ISSN 2454-7395 . and 6) Relationship of exclusive breast feeding for 6 mo to linear growth up to 18 mo of age. Indian J Pediatr. 2013;80(1):11-5 Indian J Pediatr. 2013;80(1):11-5. and .

biochemical tests 7) Free amino acid patterns of plasma, erythrocytes and leucocytes in hypoproteinemia. B J N. 1973; 29:151-157. 8) Erythrocytic enzymes and amino acids related to glutamic acid metabolism in childhood hypoproteinemia. A J CN 1981; 34; 924-927. 9) Composition of oedema fluid in hypoproteinemic disorders. Acta Paeditr. 1983; 74: 741-744 . 10) Biochemical changes in saliva of malnourished children. A J CN.1984; 39: 181- 184. 11) Salivary iron status in iron deficiency. J Trop Pediatr 1992; 38: 64-67. 12) Alterations in body fluids. Ann Clin Med Res 2021;2(2) article1031.

Adverse sequel of malnutrition- physical, neurological or cognitive deficits- 13)Placental morphometeric and morphological alterations in maternal undernutrition. Am J Obstet Gynec. 1976; 124: 641-645. 14). Nutritional status of rural pregnant women and fetal outcome.Indian Pediatr (IP). 1987; 24: 703-707. 15) Birth weight pattern in rural undernourished pregnant women. IP. 2002; 37: 244-253. 16) Effect of intrauterine nutritional deprivation on neuromotor behavior of the newborn. Acta Paediatr(AP). 1979; 68: 561-566. 17) Sleep cycle studies in babies of undernourished mothers. Arch Dis Child. 1980; 55: 134-138. 18) Growth behavior, development and intelligence in rural children between 1- 3 years of life. IP. 1992; 29: 467-480. 19).Growth and behavior development in rural infants in relation to malnutrition and nutrition. IP. 1992; 29: 595-606. 20) Influence of malnutrition on social maturity, visual motor coordination and memory in rural school children. Indian J Med Res(IJMR).1989; 90: 320- 327. 21) Influence of malnutrition on intellectual development. IJMR, 1989; 90: 430-441. 22) Effect of mid-day meal programme on physical growth and mental function. IJMR 1989; 90: 163-164. 23) Soft neurological signs and EEG pattern in rural malnourished children. AP. 1989; 78: 873-878. 24) Learning disability in rural primary school children. IJMR; 1991; 94: 89-95. 25) Impact of undernutrition on higher mental functions in Indian boys aged 10-12 years. AP. 1995; 84: 1357-1361. 26) Muscular sufficiency, serum protein, enzymes and bioenergetic studies (phosphorus magnetic resonance spectroscopy) in chronic malnutrition. AP 1994; 83: 327-331. 27) Brain MRI and cognitive evoked potentials in rural chronically undernourished children. Nutr Res(NR).1996; 16: 1147-1151. 28) Persistence of soft neurological signs in chronic undernourished children. 1995; 15: 193-199 . 29) Sequelae of early undernutrition on reaction time of rural children at 11-14 years. IJMR. 1998; 107: 98-102. 30) Effects of dietary protein on fetal brain and glutamic acid metabolism in rats.J Neurochem. 1979; 32: 1309-1314. 24. 31) Protein deprivation and the brain: Effect on enzymes and free α amino acids related to glutamate metabolism in rats.Ann Nutr Metab. 1981; 25: 228-233. 32) Prevalence of anemia in pregnant and lactating women in India. IJMR. 2006; 124: 173-184. 33) Effect of maternal anemia on the placenta and the newborn. AP 1978; 67: 645-648 .xxiii) Placental tissue iron status in maternal hypoferreimia. Am J Clin Nutr 1979; 32: 1462-1465. 34) Storage iron in human fetal organs. AP1985; 74: 701-706. 35) Effect of early iron deficiency in rat on the gamma-aminobutyric acid shunt in brain. J Neurochem 1986; 46: 1670-1674. 36) Effect of latent iron deficiency on metal levels of rat brain regions. Biol Tr Elem Res 1989; 22; 141-152. 37) Latent iron deficiency alters gamma-aminobutyric acid and glutamate metabolism in rat brain.Experentia 1989; 45: 343-345. 38) Effect of latent iron deficiency on 5-hydroxytryptamine metabolism in rat brain. J Neurochem 1989; 52: 730-735. 39)Studies on brain catecholamine metabolism following latent iron deficiency and subsequent rehabilitation in rat.Nutr Res. 1989; 9: 1177- 1186. 40) Iron and the brain: neurotransmitter receptors and magnetic resonance spectroscopy. Brit J Nutr. 2001; 85: S147-S150. 41) Increased breast milk iron in severe maternal anemia: Physiological trapping or leakage. AP 1985; 74: 290-291. 42)Effect of latent iron deficiency on GABA and glutamate neuroreceptors in rat brain. Indian J Clin Biochem. 2003; 18: 111-116. 43)Impact of

anemia on prophylaxis in pregnancy on maternal hemoglobin, serum ferritin and birth weight IJMR 1991;94:277-80.

Treatment by dietary supplementation-
44) Lactobacillus Casei in the control of acute diarrhoea- a pilot study. IP 2001; 38,905-910.
45) Feasibility studies to control acute diarrhoea in children by feeding fermented milk preparations Actimel and Indian Dahi .EJCN.2002:56/ suppl-4 pp-556-559. 46& 47) A pilot study on the effects of curd (*dahi*) & leaf protein concentrate in children with PEM. I JMR 2007; 126: 199-203;&.IJMR 2009; 130:31-36. 48) Berseem (Trifolium Alexandrium) Leaves in Diet as Immuno-Nutrient; Cytokine and T-Cell Subpopulation Responses in Malnutrition. Ann Pediatr Res. 2020;4(4):1046. 49) Indian Dahi as Immunonutrient Pilot Study. Acta Sci Paediatr 2018; 1: 2-4 . 50) Dahi in India culture. Intl J Med Sci Clin Res Studies ISSN 2022:02(06) pp 505-511(DOI: https ://doi .org/10.47191/ijmscrs).

A) Effects of massage & use of oil on growth, blood flow & sleep pattern in infants.IJMR 2000; 212-217.
B) Corticosteroids in erythropoiesis & prevention of red cell hemolysis: i) Acta Paediat Scand, 53: 149- 157, 1964. ii) Acta Endocrinolog. 1964 supp; 93: 3-58.iii) Acta Haemat 1967; 38:11-18, iv) Brit J Haemat 1969; 17:179-185. V) Corticosteroids and red cell system. Lambert Acad publ Co 2011.
C) 1 &2).Determination of protein requirements on vegetarian diet in healthy male & female volunteers. IJ MR 77: 654-658, 1983.& IJMR 78: 68-69, 1984. 3). In protein energy requirement studies in developing countries. Result of international Research, eds., Rand RU & Scrimshaw NS. The UNU Food and Nutrition Bulletin Supp.10: 889-95. 1984. Tokyo Japan.
D) Monographs:.i)The National Goitre Control Programme -A blueprint for its intensification. NFI Sci. Rep 1 (1983) MSW,Govt of India (GoI). Ii) Growth Performance of Affluent Indian Children (Under-fives) - Growth standards NFI Sci Rep 11 (1991) HRD (WCD),GoI.iii). Nutritional status, physical work capacity and mental function in school children. UNICEF.NFI Sci Rep 6 (1987).iv). Anaemia in Pregnancy – Interstate Differences.NFI Sci Rep 16 2005 .5. The Growth Infancy to Adolescence. CBS Publ Delhi, 2015. 6.Child Care in Asian Cultures. Lambert Acad Publ. 7. Principles of Child Care CBS, N-Dehi and Hindi edition for public distribution.