

Bibliography

BIBLIOGRAPHY

- Antony, A.C. (2007) In utero physiology : role of folic acid in nutrient delivery and fetal development. *Am.J.of. cl. Nutr.* 85(2) : pp. 59. 8S – 603S.
- Ahramsky, L., Botting, B., Chapple, J. and Stone, D. (1999) Has advice on periconceptional folate supplementation reduce neural tube defects? *Lancet*, 354: pp.998-999.
- Adzick, N.S. and Walsh, D.S. (2003) Myelomeningocele: Prenatal diagnosis, pathophysiology and management, *Semin. Pediatr. surg.* 2(3): pp.168-174.
- Agarwal, S.S. (1999) Neural tube defect. A preventable congenital malformation. *Indian pediatrics*, 36: pp. 643-658.
- Aguiar, M.J., Campos, A.S., Aguiar, R.A., Lana, A.M., Magalhaes, R.L and Babeto, L.T. (2003) Neural tube defects and associated factors in liveborn and stillborn infants. *J. Pediatr.* 79(2): pp.105-106.
- Aguillon, D.B., Caedo, M.M., Arnold, J.C. and Engel, R.W.(1982) The relationship of family characteristic to the nutritional status of pre-school children. *Food Nutr. Bull.* (114): pp.5-12.
- All India Institute of Medical Sciences (1993) Growth and Development In Essentials of Pediatrics, Third Edition, Interprint, New Delhi, p.5.
- Alfman, G., Laurinen, M.S., Valsta, L.M., Pastinen, T. and Aro, A. (2003) Folate intake, plasma folate and homocysteine status in a random Finish population, *Eur. J. Clin. Nutr.* 57(1): pp.81-8.
- Allen, W.P, Stevenson, R.E., Thompson, S.J. and Dean, J.H. (1996) The impact of prenatal diagnosis on NTD surveillance. *Prenatal Diagnosis*, 16(6): pp.531-535.
- American Academy of Pediatrics (1999) Folic acid for the prevention of neural tube defect (RE 9834). *Pediatrics*, 104(2): pp. 325-327.
- Armitage, P and Berry, G. (1987) Poisson distribution in statistical methods in Medical Research, Second Edition, Black well scientific publications.
- Arpino, C., Brescianini, S., Robert E., Castilla, E.E., Cocchi, G., Cornel, M.C., deVigan, C., Lancaster, P.A.L., Merlob, P., Sumiyoshi, Y., Zampino, G., Renzi, C., Rosano, A. and Mastropiacovo, P. (2000) Teratogenic effects of antiepileptic drugs: use of an international database on malformations and drug exposure. *Epilepsia*, 41:pp. 1436-1443.
- Bailey, L.B., Rampersand, G.C. and Kauwell, G.P. (2003) Folic acid supplements and fortification affect the risk for neural tube defects, vascular disease and cancer evolving science. *J. Nutr.* 133(6): pp. 1961S-8S.

- Bailey, L.B. (1990) Folate status assessment. *J. Nutr.* 120 : pp. 1508 – 1511.
- Bakker, R.C. and Brandjes, D.P.M. (1997) Hyper homocysteinaemia and associated disease. *Pharm. World Sci.* 19: pp. 126-136.
- Ballweg, J.A.(1972) Family characteristics and nutritional problems of pre school children in Fond Parisein, Haiti *J. Trop. Pediatr. Environ. Child Health*, 18:p.229.
- Bamji, S.M. (2003) Biochemical tests for the assessment of nutritional status In text book of Human Nutrition, edited by Bamji, S.M., Rao, N.P and Reddy, V. 2nd edition, Oxford and IBH publishing Co Pvt. Ltd New Delhi: p.149.
- Basbug, M., Serin, I.S., Ozcelik, B., Kula, M., Basbug, E.M. and Autus, A. (2003) Correlation of evaluated leptin levels in amnioticfluid and maternal serum in NTDs. *Obstet. Gynecol.* 101(3): pp. 523-528.
- Baumslag, S.N, Edelstein, T. and Metz., J. (1970) Reduction of the incidence of prematurity of folic acid supplementation in pregnancy *Br. Med. J.* pp. 16-17.
- Bendich, A. (1991) Importance of vitamin status to pregnancy outcomes. In *Micronutrients in health and in disease prevention*, edited by Bendich A, Batter Worth, C.E., New York. Marcel Dekker Inc: pp. 235-262.
- Benson, J. and Perry, J. (2004) Clinical examination - quick guide, General practice and primary care of research unit, Department of Public health and primary care.
- Berg, V.D.J., Lolkje, T.W., Diaz,H., Sonia, M.B., Martha, M., Louik, C. and Allen, A. (2005) Trends and predictors of folic acid awareness and periconceptional use in pregnant women. *Am.Jn.of Obstet. and Gyne.* 192(1):pp.121-128.
- Berry, R.J. and Li, Z. (2002) U.S. Collaborative project for neural tube defect prevention, *Jn. of Epidemiology*, 13: pp. 114-116.
- Berry, R.J. Li, S., Erickson, J.D., Li, S., Moore, C.A., Wang, H., Mulinare, J., Zhao, P., Wong, L.Y., Gindler, J., Hong, S.X. and Correa, A. (1999) Prevention of neural tube defects with folic acid in China. *N.Eng.J.Med.* 341: pp.1485-1490.
- Birnbacher, R., Messerschmidt, A. and Pollak, A. (2002) Diagnosis and prevention of neural tube defects. *Current opinion in Urology*, 12(6): pp.461-469.
- Blaasaas, K.G., Tynes, T., Irgens, A., and Lie, R.T. (2002) Risk of birth defects by parental occupational exposure to 50 HZ electromagnetic fields; a population based study. *Occup. Environ. Med.* 59: pp.92-97.
- Blatter,B.M., Roeleveld,N., Zielhuis,G.A., Gabreels,F.J. and Verbeek,A.L.(1996) Maternal occupational exposure during pregnancy and the risk of spina bifida. *Occup. Environ. Med.* 53: pp.80-86.

- Blot, I., Papiernik, E., Kaltwasser, J.P., Werner, E., and Tchernia, G. (1981) Influence of routine administration of folic acid and iron during pregnancy. *Gynecol. Obstet. Invest.* 12: pp. 294-304.
- Botto, L.D., Moore, C.A., Khoury, M.J. and Erickson, J.D. (1999) Neural tube defects, *N. Eng. Jour.of Med.* 341; pp.1509-1519.
- Bound, J.P., Harvey, P.W. and Francis, B.J. (1989) Seasonal prevalence of major congenital malformations in the Fylde of Lancashire 1957-1981. *J. of Epidemiol. and Community Health.* 43(4): pp. 330-342.
- Bower, C., Ryan, A., Rudy, E. and Miller, M. (2002) Trends in neural tube defects in Anstralia, *Aust. Nz. J. Public Health,* 26: pp. 150-151.
- Boyd, P.A., Wellesley, D.G., Walle, H.E., Tenconi, R., Minaur, G.S., Zandwijken, G.R., Stoll, C. and Clementi, M. (2000) Evaluation of the prenatal diagnosis of neural tube defects by fetal ultrasonographic examination in different centres across Europe. *J.Med.Screen.* 7:pp.169-174.
- Braekke, K. and Staff, A.C. (2004) Periconceptional use of folic acid supplements in Oslo, Kristin, *Acta Obstet. Scand.*82(7):pp.620-627.
- Brewer, T. (2001) Does hypertension continue after my pregnancy had ended. *Lancet.* 33: pp. 162-164.
- Brent, R.L., Alter, A.P. and Burton, B.K. (2000) The unnecessary epidemic of folic acid – preventable spina bifida and anencephaly. *Pediatrics,* 106(4): pp. 828-27.
- Brie, T.J. (2002) Meningomyelocele. In Gellis and Kagan's current Pediatric Therapy, edited by F.D Birt et al, 17, W.B. Saunders, Philadelphia: pp. 424-426.
- Brody, T. (1991) Folic acid. In Handbook of Vitamins, edited by Machlin, L.J., 2nd ed. Newyork. Dekker: pp. 453-89.
- Bronstrup and Anja, A. (1998) Effects of folic acid and combinations of folic acid and vitamin B₁₂ on plasma homocysteine concentrations in healthy, young women, *Am.J. of Clin.Nutr.* 66: pp. 1104-1110.
- Burton, B.K., Dillard, R.G. and Clark, E.N. (1985) The psychological impact of false positive elevations of maternal serum alpha-feta protein. *American journal of obstetric and Gynecology,* 151 : pp 77-82.
- Busby, A., Abramsky, L., Dolk, H. and Armstrong, B. (2005) preventing neural tube defects in Europe : population based study. *B.M.J.* 330 : pp. 574-575.
- Byrne, J. and Warburton, D. (1986) Neural tube defects in spontaneous abortions, *Am. J. Med. Genet.* 25: pp. 327-333.

- Campbell, L.R., Dayton, D.H. and Sohal, G.S. (1986) Neural tube defects: a review of human and animal studies on the etiology of neural tube defects. *Teratology*, 34: pp. 171-187.
- Canfield, M.A., Annegers, J.F., Brender, J.B. Cooper, S.P. and Greenberg, F. (1996) Hispanic origin and neural tube defects in Houston/Harris county. Texas II- Risk factors. *Am. J. Epidemiology*, 143: pp.12-24.
- Carmichael, S.L. and Shaw, G.M. (2000) Maternal life event stress and congenital anomalies. *Epidemiology*, 11: pp. 30-35.
- Castilla, E.E., Camelo, L.J.S. and Campana, H. (1999) Attitude as a risk factor for congenital anomalies. *Am.J.Med.Genet.* 86: pp.9-14.
- Castilla, E.E., Campana, H. and Camelo, J.S. (2000) Economic activity and congenital anomalies: an ecologic study in Argentina. *Environ Health Perspect.* 108: pp. 193-197.
- Castilla, E.E., Orioli, I.M., Lygarinho, R., Dutra, G.P., Camelo, L.J.S., Campana, H.E., Spagnoto, A. and Mastroriacova, P. (1990) Monthly and seasonal variations in the frequency of congenital anomalies. *Int. J. Epidemio.* 19: pp.399-404.
- Center for Disease Control and prevention (CDC) (1993) Recommendations for the use of folic acid to reduce the number of cases of spina bifida and other neural tube defects. *JAMA*, 269: pp. 1233-1238.
- CDC (1995) Knowledge and use of folic acid by women of child bearing age – United States, *MMWR*, 44(38) : p.76.
- CDC (2003) Overview of National folic acid campaign. Available at <http://www.cdc.gov/ncbddd/folic acid/folcamp.htm> assessed on October 7.
- CDC (2004) Spina bifida and anencephaly before and after folic acid mandate – United States, 1995-1996 and 1999-2000. *MMWR more moral weekly Rep.* 53(17):pp. 362-365.
- Cheong, R., Madriaga, J., Desnacida, J., Marcos, J. and Perlas, L. (2003) Assessment of folate status of some pregnant Filipino women. www.fnri.dost.gov.ph/abstracts/29th/folate Pdf.
- Cherian, A., Seenaa, S., Bullock, R.K. and Antony, A.C. (2005) Incidence of neural tube defects in the least developed area of India : a population. based study. *Lancet*, 366 : pp. 930 -931.
- Cheschier, N. (2003) Birth defects. ACOG committee on practice Bulletins – Obstetrics. *Int.J.Gynaecol. Obstet.* 83(1): pp.123-133.

- Chodirker, B.N., Cadrin, C., Davies Gal, Summers, A.M., Wilson, R.D and Winsor, E.J.T. (2001) Techniques of prenatal diagnosis. *SOGC clinical practice guidelines*, 23(7): pp.616-24.
- Chaudhury, R.H.C (2004) Determinants of nutrient adequacy in a rural area of Bangladesh, United Nations Department of Technical Cooperation for development, Kathmandu, Nepal.
<http://www.unn.edu/unupress/food/8F084e/8F084E08:htm-24k>.
- Chunming, C. (2003) Gopalan Oration: Nutrition and Economic development. In Nutrition Goals for Asia-vision 2020: p.13.
- Colman (1981) Laboratory assessment of folate status. *Clin.Lab.Med.*1: pp. 775-796.
- Cordier, S., Bergeret, A., Goujard, J., Ha, M.C., Ayme, S., Bianchi, F., Calzolari, E., DeWalle, H.E., Knill-Jones, R., Candela, S., Dale, I., Dananche, B., de Vigan, C., Fevotte, J., Kiel, G., Mandereau, L. and Kiel, G. (1997) Congenital malformation and maternal occupational exposure to glycol ethers. *Epidemiology*. 8(4): pp . 355-363.
- Correa, A., Stolley, A. and Liu, Y (2000) Prenatal tea consumption and risks of anencephaly and spina bifida. *Ann. of Epidemiol*, 10: pp. 476-77.
- Coutsaudis, A., Mamet J.D., Jinabhai, C.C. and Coovadia, H.M. (1992) Vitamin A deficiency among children in a Periurban South African settlement, *Ann. Jnl. of Clinical nutrition*, 57(6): pp.904-907.
- Cragan, J.D., Roberts, H.E. and Edmonds, L.D. (1995) Surveillance for anencephaly and Spina bifida and the impact of prenatal diagnosis – United States, 1985-1994. *Morbidity and mortality weekly review*; 44(SS04): pp.1-13.
- Croen, L.A., Todoroff, K. and Shaw, G.M (2001) Maternal exposure to nitrate from drinking water and diet and risk of neural tube defects. *Am. J. Epidemiol.* 153: pp. 325-331.
- Cypel, A. and Calkin, S. (1990) Nutrition for improved sports performance. *Aus. J. Nutr. and Diet.*53(3): pp. 127-28.
- Czeizel, A. (1993) Controlled studies of multivitamin supplementation on pregnancy outcome. *Ann. NY. Aca / Sci.* 678: pp. 266-75.
- Czeizel, A.E. and Dudas, I. (1992) Prevention of the occurrence of neural tube defects by periconceptional vitamin supplementation. *N. Eng. J. Med*, 327: pp.1832-1835.
- Czeizel, A.E. and Rockenbauer.M. (2000) A population based case control teratologic study of oral oxytetracycline treatment during pregnancy. *Eur.J. Obstet. Gynecol. Reprod. Biol.* 88: pp. 27-33.

- Czeizel, A.E. Metneki, J. and Dudas, I. (1994) The higher rate of multiple births after periconceptional multivitamin supplementation: an analysis of causes. *Acta. Genet. Med. Gernellol*, 43: pp. 175-84.
- Czeizel, A.E. Toth, M. and Bauer, R.M. (1996) Population based case control study of folic acid supplementation during pregnancy. *Tetratology*. 53; pp. 345-351.
- Daly, L.E., Kirke, D.N., Molloy, A., Weir, D.G. and Scott, J.M. (1995) Folate levels and NTDs. implications for prevention, *JAMA* 294:pp. 1698-1702.
- Dalal, A., Pradhan, M., Tiwari, D., Behari, S., Singh, U., Mallik, G.K., Das, V. and Agarwal, S. (2007) MTHFR 677 C → and 1298 A → C polymorphism; Evaluation of maternal genotype risk and association with level of NTD. *Gynecology and obstetric investigation*, 63: pp. 146-150.
- DeWeerd, S., Thomas, C.M., Cikot, R.J., Theunissen, S.R.P., Boo, D.T.M. and Steeger, E.A. (2002) Preconception counseling improves folate status of women planning pregnancy. *Obstet. Gynecol.* 99(1): pp.45-50.
- Dias, M.S. and McLone, D.G. (2003) The chain II malformation cause and impact. *Child. Ner. Syst.* 19(7-8) :pp.540-50.
- Dolk, H., Vrijheid, M., Armstrong, B., Abramsky, L., Biranchi, F., Garne, E. and Nelen, V. (1998) Risk of congenital anomalies near nazardoul waste landfill sites in Europe. the EUROHAZCON study. *Lancet*, 352(9126): pp. 423-427.
- Duttachoudhury, A. and Pal, S.K. (1997) Congenital abnormalities in Durgapur Steel Plant, hospital with special reference to neural tube defect. *J. Indian Med. Assoc.* 95(5): pp.135-141.
- Ellenbogen, R. (2002) Neural tube defects in the neonatal period. *E. Medicine Journal*, 3(4): pp. 285-289,331-333. <http://www.emedicine.com/ped/topic2805.htm>.
- Elwood, J.M., Little, J. and Elwood, J.H. (1992) Epidemiology and control of NTD. Oxford, England : Oxford University Press: p. 13.
- England, L. and Mills, J. (2001) Food fortification to prevent neural tube defects – is it working? *JAMA*. 285: pp.3022-3023.
- Esenkaya, S., Gurbuz, B. and Yalti, S. (2004) A symmetric parasitic dicephalus conjoined twins. *J. Clin. Ultrasound*, 32(2): pp. 102-5.
- Easwaran, P.P. and Devadas, R.P. (1981) Trends in growth performance of Indian children and development of norms. *The Ind. J. Nutr. Dietet.* (18): pp.155-159
- Evans, L.S.C and Evans, L.A.J. (2002) Use of folic acid supplements in the first trimester of pregnancy, *JR. Soc. Health.* 122(3): pp.181-6.

- Farley, T.F., Hambidge, S.J. and Daley, H.F. (2002) Association of low maternal education with neural tube defects in Colorado, 1989-1998, *Public Health*, 116L:pp.89-94.
- Feldman, J.G., Stein, S.C., Klein, R.J., Kohl, S. and Cascy, G. (1982) The prevalence of neural tube defects among ethnic groups in Brooklyn. *J. Chronic Dis.* 354: pp.53-60.
- Finnell, R.H., Gould, A. and Spiegelstein, D. (2003) Pathobiology and genetics of neural tube defects, *Epilepsia*, 44(3): pp. 14-28.
- Fishman, M.A. (1997) Developmental defects. In Principles and practise of pediatrics edited by Johnson, K.D and Oski, F.A. (2nd ed.) Philadelphia J.B. Lippincot: pp. 151-156.
- Fleming, A. and Copp, A.J. (1998) Embryonic folate metabolism and mouse neural tube defects. *Science*, 280: pp. 2107-2109.
- Fornoff, J.E., Egler, T and Shen, T. (2004) Prevalence of neural tube defects in Illinois, 1989-2002. Epidemiological report series 04:02 spring field, IL. Illinois Department of Public Health: pp.1-25.
- Forrester, M.B and Merz, R.D. (2000) Epidemiology of neural tube defects, Hawali 1986-1997. *Med. J.* 341: pp.323-329.
- Forrester, M.B. and Merz, R.D. (2000) Prenatal diagnosis and elective termination of neural tube defects in Hawali, 1986-1997, *Fetal Diagn.Ther.* 15: pp.146-151.
- Frelut, M.L., de Courcy, G.P., Christides, J.P., Blot, P. and Navarro, J. (1995) Relationship between maternal folate status and foetal hypotrophy in a population with a good socio economical level. *Int. J. Vitamin Nutr. Red.* 65: pp. 267-71.
- Frey, L. and Hauser, W.A. (2003) Epidemiology of neural tube defects. *Epilepsia*, 44 (2 suppl): pp. 4-13.
- Ghai, O.P. (1993) New born infants. In Essentials of pediatrics third edition, Mehta offset work : p. 85.
- Geisel,J.(2003) Folic acid and NTDs in pregnancy. A Review *Jour. Perinatal Neonatal Nurs.*17(4) :pp. 268-279.
- Gibson, R.S. (1990) Folic acid. In Principles of nutritional assessment, Oxford, Oxford University press, United Kingdom: p.145.
- Gillespie, S. (1996) Child Nutrition in India; Findings from the National Family Health Survey (1993-96) NFI: p.12.

- Goldenberg, R.L., Tamura, T., Cliver, S.P., Cutter, G.R., Hoffmann, H.J. and Copper, R.L. (1992) Serum folate and fetal growth retardation: a matter of compliance? *Obstet. Gyneol.* 79: pp.719-722.
- Gopalan, C. (1998) Dietary guidelines for you, *Nutrition*, 32(3): pp. 10-13.
- Gopalan, C. (1989) Growth of affluent Indian girls during adolescence. Nutrition Foundation of India Scientific Report 10; New Delhi.
- Gopalan, C., Rama Sastri, B.V. and Balasubramanian, S.C. (2004) Nutritive value of Indian foods, National Institute of Nutrition, ICMR, Hyderabad, India.
- Gopalan, C. (1999) Women and Nutrition in India. *The Ind. J. Nutri. Dietet.* 36:p.95.
- Gordon, C.C., Chumlea, W.C. and Roche, A.F. (1988) Stature, recumbent length and weight. In Anthropometric standardization reference manual champaign, edited by Lohman T.G, Roche, A.F. and Martorell, R. II; Human Kinetics Books pp.57-60.
- Green, M.L and Harry, J. (1987) Folic acid In Nutrition in contemporary nursing practice, IInd Edition, A Wiley Medical Publications: p.397.
- Green, N. (2002) Folic acid supplementation and prevention of birth defects. *J. Nutr.* 132(8 suppl):pp. 2356S-60S.
- Greer, M. (2000) Spina bifida and cranium bifida section of structural malformations. In Merritt's Neurology edited by L.P. Rowland, 10th Edition: pp. 485-497.
- Groenen, P.M. Wever, R.A., Janssen, F.S., Fuerlings, J.H., Merkus, R.A. and Steegers (2003) Are myo-inositol, glucose and zinc concentrations in amniotic fluid of fetuses with spina bifida different from controls: Early *Hum. Dev.* 71(1): pp.1-8.
- Gupta, S.P. (1995) Non-probability sampling methods. In Statistical methods, Sultan Chand and sons publishing company, New Delhi, 25th edition: p.47.
- Gupta, S.P. (1999) Convenient sampling. In Statistical methods, 3rd edition, Sultan Chand and Publishers, New Delhi: p.E.4.8.
- Gupta, S.P. (2004) Collection of Data. In Statistical methods, Sultan Chand and sons educational publishers, 23, Daryaganj, New Delhi, 110002, Third edition: p.59.
- Hall, J.G. and Sollehhdin, F. (1999) Genetics of neural tube defects. *Mental Retard Div. Disabil.* 4: pp.269-281.
- Herbert, V. (1990) Development of human deficiency. In : Evaluation of folic acid metabolism in Nutrition and Disease, edited by Picciano, M.F., Stokstad, E.L.R. and Gregory, J.F. 3rd edition, New York : p.15.

- Heljic, S., Kadic, N. and Bajric, S. (2002) Neural tube dysraphism: Meningomyelocele and related disorders. *Med Arch.* 56(3 suppl): pp. 5-7.
- Hendricks, K.A., Simpson, J.S. and Larsen, R.D. (1999) Neural tube defects along the Texas-Mexico border, 1985-1995. *Am.J. Epidemiol.* 149(12): pp.1119-1129.
- Hertrampf, E., Cortes, F.J., Erickson, D., Cayazzo, M., Freira, W., Bailey, L.B., Howson, C., Kauwell, G.P.A. and Pfeiffer, C. (2003) Consumption of folic acid-fortified bread improved folate status in women of reproductive age in Chile, *J.Nutr.*133: pp.3166-3169.
- Hine, R.J. (2003) Folic acid in congenital and chronic diseases, Nature and nurture. *Agro food industry*: p. 7.
- Honein, M.A., Paulozzi, L.I., Mathews, T.J, Erickson, J.D and Wong, L.Y(2001) Impact of folic acid fortification of U.S. food supply on the occurrence of neural tube defects. *JAMA.* 285(23): pp.3022-23.
- Hook, E.B. and Czeizel, A.E. (1997) Can tetrahydrofolic acid explain the protective effect of folic acid supplementation on birth defects? *Lancet*, 350: pp.513-5.
- HUDCO (1999) The Development of HUDCO's Housing Loan Scheme to NGO's HUDCO MIS Data Sheet: pp.4-20.
- ICMR (2000) Multicentric study of efficiency of preconceptional folic acid containing vitamin supplementation in preventing of open neural tube defects from India. *Indian J. Med. Res.* 112 : pp. 206 – 211.
- ICMR (2002) Nutrient requirement and recommended allowances for Indians: NIN, Hyderabad: p.10.
- ICMR(2003) Balanced diet for adult woman. In dietary guidelines for Indians NIN, Hyderabad :p.16.
- Indian consensus group (1998) Indian consensus for prevention of hypertension and coronary artery disease. *Indian Journal of Cardiology.* 1(1) : pp. 57-61.
- Institute of Medicine (1990) Nutrition during pregnancy part I, DC, National Academy Press, Washington: p. 462.
- Iqbal, M.M. (2002) prevention of neural tube defects by periconceptional use of folic acid. *Pediatr. Rev.* 21: pp. 58-65.
- Irgens, A., Kruger, K., Skorve, A.H. and Irgens, L.M. (1993) Reproductive outcome in offspring of parents occupationally exposed to lead in Norway. *Am. J. Med.* 34:pp.431-437.
- Janssen, P.A. Rothman, I., and Schwartz, S.M. (1996) Congenital malformations in newborns of women with established and gestational diabetes in Washington State, 1984-1991. *Pediatr. Perinat. Epidemiol.* 10(1): pp. 52-63.

- Jelliffe, D.B. (1996) The assessment of nutritional status of community, WHO Geneva, 10(94): pp.210-214.
- Jick, H., Jick, S.S., Bruell, A., Milunsky, D.S., Mc Laughlin and Rothman, K.J. (1999) Multivitamin or folic acid supplementation in early pregnancy reduces the prevalence of neural tube defects, *J.Am. Med. Assoc.* 262: pp.2847-2852.
- Johnson, M.P., Sutton, L.N., Rintoul, N., Crom Bleholme, T.M., Flake, A.W., Howell, L.J., Hedrick, H.L., Wilson, R.D. and Adzick, N.S. (2003) Fetal myelomeningocele repair; Short term clinical outcomes. *Am. J. Obstet. Gynecol.* 189(2): pp. 482-87.
- Joshi and Mehta (1998) Research in Mass media: Trend analysis and challenge. In issues in mass communication the basic concepts, edited by Yadava J.S and Mathur, Kanishka publishers, New Delhi: p.229.
- Kallen K. (1998) Maternal smoking, body mass index and neural tube defects. *Am. J. Epidemiol.* 147: pp. 1103-1111.
- Kallen, B. (1986) Congenital malformations in twins; a population study. *Acta Genet. Med.* 35: pp. 167-178.
- Kappen, C. (2005) Folate supplementation in three genetic models; implications for understanding folate dependent development pathways. *American journal of medical Genetics part, 135*(1); pp.24-30.
- Khoury, M.J., Beura, J.E., d' Almada, P.J. (1989) Maternal thyroid disease and risk of birth defects in offspring; a population-based case-control of study. *Pediatr perinat Epidemiol*, 3: pp. 402-420.
- Kirke, P.N., Molloy, A.M., Daly, C.E., Burke, H. and Weir, D.G. (1993) Maternal plasma folate and vitamin B₁₂ are independent risk factors for NTDs. *J. Med.* 86: pp.703-708.
- Klotz, J.B. and Pynch, L.A. (1999) Neural tube defects and drinking water disinfection by-products. *Epidemiology*, 10(4): pp. 383-390.
- Kristensen, P., Irgens, L.M., Andersen, A., Bye, A.S. and Sundheim, L. (1997) Birth defects among offspring of Norwegian farmers 1967-1991. *Epidemiology*. 8(5): pp. 537-544.
- Kulkarni, M.L., Mathew, M.A. and Reddy, V. (1989) The range of neural tube defects in Southern India. *Arch. Dis. Child.* 64: pp. 201-204.
- Kumar, A., Gupta S., Gupta, N. and Singh, B.B. (2004) Production and impact study of vitamin A related video film for school children. *The Indian J. Nutr. Diet.* 40: p.225.

- Lakshminarayana, A. (1998) Evaluation of genetic and environmental factors in pregnancy loss and malformed fetus. Find report DST No. Sp/ SSO/B-38-91; Department of science and technology, New Delhi.
- Lapunzina, P., Cameto, L.J.S., Rittler, M., and Castilla, E.E. (2002) Risks of congenital anomalies in large for gestational age infants. *J. pediatr.* 140: pp.200-204.
- Larry, J.M. and Edmond, L.D. (1996) Prevalence of spina bifida at birth – United states 1983-1990. A comparison of two surveillance systems. *Mortal. Morb. Wkly. Rep.* 45: pp.15-26.
- Lary, J.M. and Paulozzi, L.J. (2001) Sex differences in the prevalence of human birth defects: a population based study. *Teratology*, 64(5): pp. 237-251.
- Leask, K. (2005) Neural tube defects http://www.library.nhs.uk/gene_pool/viewResource.aspx?res/D=93936.
- Li, Z., Ren, A., Zhan, L., Guo, Z. and Li, Z. (2006) A population based case control study of risk factors for neural tube defects in four high prevalence areas of shanxi province, China, *Prenatal epidemiology*, 20: pp. 43-53.
- Li, G., Tean, J. and Hu, X. (1996) A study on risk factors of neural tube defects, *Zhonghua Yu Fang Yi Xue Za Zhi*, 30(1): pp.19-9.
- Linker, G.S. (2002) Folic acid deficiency. In *Current Medical Diagnosis and treatment*, edited by L.M Tierney et al., 4th ed., Lange Medical / Mc Graw Hill, New York, Chap. 13: pp.524-525.
- Liptak, G.S. (2002) Neural tube defects. In *Children with Disabilities*. edited by M.L. Batshaw , 5th ed., Baltimore; Paul H. Brookes: pp. 467-492.
- Little, L. and Elwood, J.M. (1991) Epidemiology of neural tube defects. In *Reproductive and perinatal Epidemiology* Kiley, M. Ed., CRC Press, Boston: pp. 251-336.
- Locksmith, G.J. and Diff, P. (1998) Preventing neural tube defects; The importance of periconceptional folic acid supplements, *Obstet. Gynecol.* 91: pp.1027-1034.
- Lumely, J., Watson, L., Watson, M. and Bower, C. (2001) Periconceptional supplementation with folate and/or multivitamin for preventing neural tube defects, *Cochrane Database syst. Rev.* 18(3): pp. 109-112.
- Lynberg, M.C., Khoury, M.J., Lux and Cocian, T. (1994) Maternal flu fever and the risk of neural tube defects: a population based case-control study. *Am. J. Epidemiol.* 140: pp. 244-255.
- Malinow, M.R., Kovic, R.A., Duell, P.B., Hess, D.L. and Upson, B.M. (1998) The relationship between maternal and neonatal umbilical cord plasma

homocysteine suggests a potential role for maternal homocysteine in fetal metabolism. *Am. J. Obstet. Gynecol.* 178: pp. 228-33.

- Manson, J.B. (2003) Diagnosis of folate status. *J.Nutr.* 133(Suppl 3):pp. 941S-947S.
- Mastroiacova, P., Castilla, E.E., Arpino, C., Botting, B., Cocchi, G., Goujard, J., Marinacci, C., Merlob, P., Metneki, J., Mutchinick, O., Ritvanen, A. and Rosano, A. (1999) Congenital malformations in twins: an international study. *Am. J. Med. Genet.* 83: pp. 117-124.
- Mathan and Rees (1994) The assessment of nutritional status of community WHO monograph, Geneva, 5(12): pp. 32-34.
- Mathews, T.J., Honein, M.A. and Erickson, J.D. (2002) Neural tube defects and impacts. *MMWR Recomm. Rep.* pp.9-11,15.
- Matte, T.D., Mulinare, J. and Erickson, J.D. (1993) Case-control study of congenital defects and parental employment in health care. *Am.J.Ind. Med.* 23:pp.11-23.
- Mazzitelli, N., Vaithay, L., Grand, C., Fuksman, R. and Rittler, M. (2002) Reviewing old concepts at the start of a new millennium: growth retardation, adrenal hypoplasia and thymomegaly in human anencephaly, *Teratology*, 66(3): pp. 105-114.
- McAllister, J.P. and Chavan, P. (1998) Neonatal hydrocephalus: Mechanism and consequences. *Neurosurgery clinics of North America*, 9: pp. 73-93.
- McComb, J.K. (1997) Spinal and cranial neural tube defects. *Seminars in pediatric neurology*, 4: pp.156-166.
- McDonald, S.D., Ferguson, S., Tam, L., Lougheed, J. and Walker, M.C. (2003) The prevention of congenital anomalies with periconceptional folic acid supplementation, *J.Obstet. Gynaecol.* 25(2): pp.115-121.
- McDonnel, R.J., Johnson, Z., Delaney, V. and Dack, P. (1999) East Ireland 1980-1994; Epidemiology of Neural tube defects. *J. Epidemiol. Community Health*, 53(12):pp. 782-788.
- McLntosh, A.C., Olshan, A.F. and Baird, P.A. (1995) Paternal age and the risk of birth defects in offspring, *Epidemiology*, 6: pp.282-288.
- McNulty, H., Cuskelly, G.J. and Ward, M. (2000) Response of red blood cell folate to intervention: implications for folate recommendations for the prevention of neural tube defects, *Am.J.Clin.Nutr.*; 71:pp.1308S-13011S.
- Medveezky, E, Puho, E. and Czeizel, A.E (2004) An evaluation of maternal illnesses in the origin of NTDs. *Arch Gynecol. Obstet.* 13: pp.4-6.
- Milhorat, T. (1995) Hydrocephalus, Pathophysiology and clinical features. In R. Wilkins and S. Rengachary (Eds) *Neurosurgery*, 3: pp.2135-2140.

- Mills, J.L., England, L. and Rabinez, J.K. (2001) Food fortification to prevent neural tube defects – Is it working? *JAMA*, 285: pp. 3022-3023.
- Milunsky, A., Ulcickas, M., Rothman, K.J., Willett, W., Jick, S.S. and Jick, H. (1992) Maternal heat exposures and neural tube defects. *Journal of Am. Medical Association*, 268(7): pp. 882-885.
- Ministry of Health and Family Welfare [MOHFW] (2001) New born Health, a key to a child survival, present scenario, current strategies and future directions for newborns health in India, Child Health Division, Dept of Family Welfare, Government of India: p.2.
- Moore, C.A., Li, Z., Li, S., Hong, S.X. Berry, R.J, Mulinare, J. and Erickson, J.D. (1997) Elevated rates of severe neural tube defects in a high prevalence area in Northern China. *Am.J.Med.Genet.* 73: pp. 113-118.
- Morris, J.K. and Wald, N.J.(1999) Quantifying the decline in the birth prevalence of Neural tube defects in England and Wales. *J. Med.Screen*,6(4):pp.182-185
- MRC vitamin study research group (1991) Prevention of neural tube defects : results of the Medical Research council vitamin study, *Lancet*, 338: pp. 131-7.
- Mudd, S.H., Skovby, F. and Levy, H.K. (1985) The natural history of homocysteinuria due to cystathione – bete – synthase – deficiency. *An J. Hum. Genet.* 39: pp. 1-31.
- Mudd, S.H., Levy, H.L. and Skovby, F. (1995) Disorders of trans sulfuration In *The metabolic and molecular bases of inherited disease*, edited by Scriver, C.R, Beaudet, A.L., Sly, W.S. and Valle, D., New York: Mc Graw Hill: pp 1279-1327.
- Mulinare, J. and Erickson, D. (1997) Prevention of neural tube defects, *Teratology*, 56: pp.17-18.
- Muller (2003) Prenatal biochemical screening for NTDs, *Child. Nerv. Syst.* 19:pp.433-435.
- National Institute of Child Health and Human Development (NICHD) (2004) U.S., Irish Researchers identify important clue to genetic basis for neural tube defects, Mckusick,V.A.Mendelian inheritance in man,11th Edition, John Hopkins press,p.1994.
- Neela, J. and Raman, L. (1997) The relationship between maternal nutritional status and spontaneous abortion. *Natl. Med. J. India.* 10 : pp. 15-16.
- Neggers, Y.M., Goldenberg, R.L., Tamura, T., Cliver, S.P. and Hoffman, H.J. (1997) The relationship between maternal dietary intake and infant birth weight. *Acta obstet. Gynecol. Scand.* 165: pp. 71-75.

- Nerlekar, J.P., Nalwade, V.M. and Reddy, N.S. (1999) Effect of maternal factors on outcome of pregnancy. *The. In. J.Nutr. Dietet.* 36:p.320.
- NIN(2003) Haemoglobin. In a manual of laboratory techniques edited by Raghuramulu, N., Mathavan, K.N. and Kalyanasundaram, S. ICMR, Hyderabad: p.69.
- NNMB (2002) Diet and Nutritional status of Rural population, NNMB technical report, No.21, NIN, ICMR, Hyderabad, India: pp.1-141.
- Nugud, A., Arbab, M. and Osman, T.M.(2003) Pattern of neural tube fusion defects in Sudan. *Saudi Med. J.* 24:p. S54.
- Oakley, G.P., Adams, M.J. and Dickinson, C.M. (1996) More folic acid for everyone now, *J.Nutr.* 126: pp.751S-755S.
- Owen, T.J., Halliday, J.L. and Stone, C.A. (2000) Neural tube defects in Victoria, Australia, Potential contributing factors and Public Health implications, *Aust. New Zealand J.Pub.Health*, 24(6):pp. 584-589.
- Padilla, C.D., Cutiongco, E.M. and Sia, J.M. (2003) Birth defects ascertainment in the Philippines. Proceedings of the 4th Asia-Pacific Regional meeting of the International Society for Neonatal screening. South East Asian *J.Trop. Med. Public Health*. 34(3 suppl): pp.239-43.
- Park, K. (2002) Mass approach In Park's text book of preventive and social medicine, seventh edition, MIS Banarsidar Bhanot Publishers, Jabalpur: p.629.
- Pedreira, D.A., Valente P.R., Abou, J.R.C., Pelarigo, C.L., Silvia, L.M. and Goldenberg, S. (2003) Successful fetal surgery for the repair of a myelomeningocele-like defect created in the fetal rabbit. *Fetal Diag. ther.* 18(3): pp.201-206.
- Pietzrik, K., Prinz, R., Reusch, K., Bung, P., Mallmann, P. and Chronides, A.C. (1992) Folate status and pregnancy outcome. *Ann. NY. Acad. Sci.* 669, pp. 371-373.
- Pilu, G. and Hobbins, J.C. (2002) Sonography of fetal cerebrospinal anomalies. *Prenat. Diagn.* 22: pp.321-330.
- Piper, B., Priti, V. and Datta, W.S. (1996) Nutritional status of urban girls of different socio economic groups, *Indian Jr. of Nutr. and Dietetics*, 20(1): pp.22-24.
- Pippenger, C.E. (2003) Pharmacology of neural tube defect. *Epilepsia*, 44(suppl 3): pp.24-32.
- Posey, D.L., Khoury, M.I., Mulinare, J., Adams, H.J., Ou, C.T (1996) Is mutated MTHFR a risk factor for neural tube defects? *Lancet*, 347: pp. 686-687.

- Purusothaman, V. and Lakshmi, R.N. (1985) Reproductive performance of expectant mothers. *Indian Journal of Medical Research*, 2(9): p.36.
- Rabkins, S.S., Anderson, H.R. and Bland, J.M. (1990) Maternal activity and birth weight; a prospective population based study. *Am. J. Epidemiol*: pp.131-1; 522-531.
- Ramalingeswari, C. (1999) Child's right to nutrition medical and health perspective. *The Ind. J. Nut.Dietet.* 36:p.123.
- Rangnekar, A.G. and Darbari, R. (1993) Foetal outcome in pregnancy anemia, *J.obstet. Gynaec. India*, 42(2): p.172.
- Rasmussen, S.A., Moore, C.A., Paulozzi, L.J. and Rhodenliser, E.P. (2001) Risk for birth defects among premature infants: A population based study. *J.Pediatr.* 138: pp.668-673.
- Ray, J.G, Meicr, C., Vermeulen, M.J., Boss, S., Wyatt, P.R. and Col, E.D.E. (2002) Association of neural tube defects and folic acid food fortification in Canada. *Lancet*, 360,:pp. 2047-48.
- Reddy, A. (1997) Education methods, In Extension education, Sree Lakshmi Press, Bapatla, Sixth edition, p.102.
- Relton, C.L., Wilding, C.S., Laffling, A.S., Jonas, P.A., Burgess, T., Binks, K. and Tawn, E.J. (2004) Low erythrocyte folate status and polymorphic variation in folate related genes are associated with risk of neural tube defect pregnancy. *Molecular Genetic Metab.* 81(4): pp. 273-81.
- Rittler, M., Liascovich, R. and Lamley, J.M. (1998) Congenital malformations in Victoria, Australia, 1983-95; an overview of infant characteristic, *J. Pediatr Child Health*, 34: pp. 233-240.
- Rittler, M., Liascovich, R., Camelo, L.J. and Castilla, E.E. (2001) Parental consanguinity in specific congenital anomalies. *Am. J. Med. Genet.* 102: pp. 36-43.
- Rolschau, J., Kristoffersen, K., Ulrich, M. Grinsted, P., Schaumburg, E., and Foged, N. (1999) The influence of folic acid supplement on the outcome of pregnancies in the country of Fumen in Denmark. Part I. *Eur. J. Obste. Gynecol. Reprod. Biol.* 87(2): pp. 105-10.
- Rothenberg, S.P., Wildeng, P.A., Jonas, S.A. Lynch, E.J. Tawn,S. and Burn, J. (2003) Folic acid in embryonic development, *Clin. Genet.* 64(5): pp. 424-428.
- Salvi, V.S. and Damania, K.R. (2005) Neural tube defects in India – time for action. *Lancet*, 366 : p. 871.
- Saravanavel, P. (1998) Interview method, In Research Methodology, Kitab Mahal publishers, Allahabad: pp. 164-170.

- Sauberlich, H.E., Kretsch, M.J., Skala, J.H., Johnson, H.L. and Taylor, P.C. (1987) Folate requirement and metabolism in nonpregnant women. *Am. J. clin. Nutr.* 46: pp. 1016-1028.
- Saurez, L., Cardurelli, K. and Hendrick, S.K. (2003) Maternal stress, social support, and risk of neural tube defects among Mexican Americans, *Epidemiology*, 14(5): pp. 612-612.
- Scholl, T.O. and William, J.G. (2000) Folic Acid influence on the outcome of pregnancy, *Am.J.Clin Nutrition*, 71(5 Suppl): pp.1295S-1303S.
- Scholl, T.O., Hediger, M.L., Bendich, A., Scholl, J.I, Smith, W.K. and Krueger, P.M. (1997) Use of multivitamin/mineral prenatal supplements; influence on the outcome of pregnancy. *Am. J. Epidemiol*, 146: pp. 134-41.
- Scholl, T.O., Hediger, M.L., Scholl, J.I., Khoo, C.S. and Fisher, R.L. (1996) Dietary and serum folate, their influence on the outcome of pregnancy, *Am.J. Clin. Nutr.* 63: pp.520-25.
- Schneider, J.A., Rees, D.C., Lin, Y.T. and Clegg, J.B. (1998) World wide distribution of common MTHFR mutation. *Am. J. Hum. Genet.* 62: pp. 1258 – 1260.
- Scott, J.M. and Weir, D.G. (1995) Folate and NTDs, In *Folate in health and disease*, edited by Bailey, L.B, Marcel Dekker: New York :pp.329-360.
- Sepulveda, W., Corrol, E., Ayala, B.C., Gutierrez, J. and Varquez, P. (2004) Chromosomal abnormalities in fetuses with open neural tube defects; prenatal identification with ultra sound. *Ultra sound Obstet. Gynecol.* 23(4): pp.352-356.
- Sever, L.E. (1995) Looking for causes of neural tube defects; where does the environment fit in? *Environ. Health perspect*, 103(suppl 6): pp. 165-171.
- Shah, D., Shroff, S. and Ganla, K. (2000) Favors effecting perinatal mortality in India, *Int. J. Gynecol. obst.* 77: pp. 2009-2010.
- Sharma, A.K., Upreti, M., Kamboj, M., Mehra, P., Das K., Misra, A., Dhasmana, S. and Agarwal, S.S. (1994) Incidence of neural tube defects of Lucknow over a 10 year period from 1982-1994. *Indian J. Med. Res.* pp.223-226.
- Sharma, J.B. and Gulati, N. (1992) Potential relationship between dengue fever and neural tube defects in Northern district of India, *Int.J.Obstet. and Gynecol.* 39: pp.291-295.
- Shaw, G.M., Carmichael, S.L. and Nelson, V. (2002) Congenital malformations in offspring of Vietnamese women in California, 1985-97 *Teratology*, 65: PP. 121-124.

- Shaw, G.M., Jensvold, N.G, Wasserman, C.R and Lammer, E.J. (1994). Epidemiologic characteristic of phenotypically distinct neural tube defects among 0.7 million California births, 1983-87. *Teratology*: 49: pp. 143-149.
- Shaw, G.M., Nelson, V., Iovannisa, D.M., Finell, R.H and Lammer, E.J. (2003) Maternal occupational chemical exposures and biotransformation genotypes as risk factors for selected congenital anomalies? *Am. J. of Epidemiology* , 157(6): pp. 475-484.
- Shaw, G.M., Quach, T., Nelson, V., Carmichael, S.L., Schaffer, D.M., Selvin, S. and Yang, W. (2003) Neural tube defects associated with maternal periconceptional dietary intake of simple sugars and glycemic index. *Am. J. Clin. Nutri.* 78(5):pp.972-78.
- Shaw, G.M., Schaffer, D. and Velie, E.M. (1996) Risk of neural tube defects – affected pregnancies among obese women, *JAMA*, 275: pp. 1093-1096.
- Shaw, G.M., Todoroff, K., Carmichael, S.L., Scheffer, D.M. and Selvin, S. (2001) Lowered weight gain during pregnancy and risk of neural tube defects among offspring. *Int. J. Epidermiol.* 30: pp. 60-65.
- Shaw, G.M., Todoroff, K., Finnell, R.H. and Lammer, E.J. (2000) Spina bifida phenotypes in infants or fetuses of obese mothers. *Teratology*, 61: pp.376-81.
- Shaw, G.M., Todoroff, K., Velie, E.M. and Lammer, E.J. (1998) Maternal illness, including flu, fever and medication use as risk factors for neural tube defects. *Teratology*, 57: pp.1-7.
- Shibya, K. and Murray, C.J.L. (1998) Congenital anomalies. In Health Divisions of sex and reproduction. The Global burden of sexually transmitted disease; H2V, Maternal conditions, Perinatal Disorders and congenital anomalies, edited by Murroy, C.J.L. and Lopez, A.D., Vol.3, Harvard University Press, Boston: pp.455-572.
- Shoob, H.D., Thompson, S.J., Sargent, R.G., Best, R.G., Drane, J.W., and Tocharoen, A. (2000) Methionine in the multifactorial etiology of neural tube defects affected pregnancies. *Am. Epidermiol.* 10: pp.476.
- Smithells, D. (1997) Folic acid and birth defects. *Birth Research Newsletter*, 2: pp. 5-6.
- Stadt, D.G.L., Lawn, J.E. and Costello, A. (2003) Advancing the state of world's newborns. *Bulletin of the World Health organization*, 81 (13) : p. 14.
- Steeegers, T.R.P.M., Boers, G.H.J., Trijbels, F.J.M., Finaelstein, J.D. Blom, H.J. and Thomas, C.M.G. (1994) Maternal hyperhomocysteinemia: A risk for neural tube defects, *Metabolism*, 43: pp. 1475-1480.

- Stollenberg, L., Magnus, P., Lie R.T. Daltveit, A.K. and Irgens, L.M. (1997) Birth defects and parental consanguinity in Norway. *Am. J. Epidemiol.* 145: pp. 439-448.
- Suarez, L., Cardarelli, K. and Hendricks, K. (2003) Maternal stress, social support and risk of neural tube defects among Mexican Americans, *Epidemiology* ,14(5): p. 612-6.
- Subzposh, N.A., Eramullah, F.H. and Sabat, S. (2003) Iniencephaly. *Indian. J. Pediatr.*70(4) : pp.355-356.
- Suresh, S. (2005) Folic acid supplementation should start before conception. *The Hindu*, Science and technology March 3: p.15.
- Swaminathan, M. (1993) Nutritional assessment, In Principles of Nutrition and Dietetics, The Bangalore printing and publishing Co. Ltd. Bangalore, 2nd Edition:pp. 408-10.
- Tamura, T., Soong, S.J., Sauberhich, H.E., Hatch, K.D., Cole, P. and Butterworth, C.E. (1990) Evaluation of the deoxyuridine suppression test using whole blood samples from folic acid – supplemented subjects, *Am. J. Clin. Nutr.*, 50: pp 508 – 510.
- Tamura, T., Goldenberg, R.L, Johnston, K.E., Cliver S.P. and Hoffman, H.S. (1997) Serum concentrations of zinc folate, vitamin A and vitamin E and proteins and their relationship to pregnancy outcome. *Acta.Obstet. Gynecol. Scand.* 165: p. 63-70.
- Tchernia, G., Blot, I., Rey, A., Kaltwasser, J.P., Zittoun, J. and Papiernik, E. (1982) Maternal folate status, birth weight and gestational age. *Dev. Pharmacol. Ther.* 4: pp 58-65.
- Thurstone, L.L., (1959) The measurement of values Chicago; University of Chicago Press
- Todoroff, K. and Shaw, G.M. (2000) Prior spontaneous abortion, prior elective termination, inter pregnancy interval and risk of NTDs, *Am. J. Epidemiol.* 151: pp. 505-11.
- Tolmic, J. (1996) Neural tube defects and other congenital malformations of the central nervous system. In : principles and practice of Medical Genetics, edited by Rimoin, D.L., Connor, J.M. and Pyeritz, R.E. New York, Chutehill Livingstone : pp. 2145 – 2176.
- Toriello, H.V., Warren, S.T., Lindstorm, J.A. and Opitz,J.M (1980) Possible X-linked anencephaly and spina bifida – Report of a kindred (1977-1995), *Am.Jn.Med.Genet.* 6(2): pp.119-121.

- Tripathi, P.C. (1987) Techniques of data collection, In text book of Research Methodology in Social sciences First edition, Sultan Chand and Son publishers, New Delhi: p.102.
- Truswell, S. (1998) Biochemical diagnosis, In ABC of nutrition, second edition, Panther Publishers, Bangalore: pp. 29-31.
- Tunnessen, W.W. (1997) Common syndrome with morphologic abnormalities. In Principles and practice of Pediatrics, edited by Johnson, K.P and Oslai, F.A. (2nd ed) Philadelphia, J.B. Lippincott: pp. 256-257.
- UNICEF (1994) India background paper. The right to be a child. New Delhi, India.
- Unlu, A. (2002) Methods of developmental research, *Acta Neurochir.* (suppl 83): pp.71-8.
- Vanderput, N.M.J., Theuissen, S.R.P.M. and Frosst, P., (1995) Mutated methylene tetra hydrofolate reductase gene is a genetics risk factor for spina bifida *Lancet*, 43: pp. 1475-1480.
- Velie, E.M., and Shaw, G.M. (1996) Impact of prenatal diagnosis and elective termination on prevalence and risk estimates of neural tube defects in California, 1989-1991. *Am. J. Epidemiol.* 144: pp.473-479.
- Velie, E.M., Block, G., Shaw, G.M., Samuels, S.J., Schaffer, D.M. and Kulldorff, M. (1999) Maternal supplemental and dietary zinc intake and the occurrence of neural tube defects in California, *Am. J. Epidemiol.* 150: pp. 605-616.
- Venn, B.J., Mann, J.I., Williams S.M., Riddell, L.J., Chisholm, A., Harper, M.J., Aitken, W and Rossaak, J.I. (2002) Assessment of three level of folic acid on serum folate and plasma homocysteine a randomized placebo controlled double blind dietary intervention trial. *Eur. J. Clin. Nutr.* 56(8): pp. 748-54.
- Verma, J.C. (2000) Burden of genetic disorders in India. *Indian J.Pediatr.* 36(3): pp.47-48.
- Vieira, A.R. (2004) Birth order and Neural tube defects. A Reappraisal. *J. Neurological, Sci.*, 217(1) :pp. 65-72.
- Vrijheid, M., Dolk, H., Stone, D., Ahramsky, L., Alberman, E. and Scott, J.E. (2000) Socio economic inequalities in risk of congenital anomaly. *Arch. Dis. child.* 82: pp. 349-52.
- Wald, J., Haekshaw, A.D., Stone, R. and Sourial, N.A. (1996) Blood folic acid vitamin B₁₂ in relation to Neural tube defects. *Br. J. Obstet, Gynaecol.* 103, pp. 319-324.
- Wald, N.J., Law, M. and Jordan, R. (1998) Folic acid food fortification to prevent Neural tube defects. *Lancet*, 351: p. 834.

- Wald, N.J., Law, M.R., Morris, J.K. and Wald, D.S. (2002) Quantifying the effect of folic acid. *Lancet*, 359, 9306(16): pp.630.
- Waller, D.K., Keddie, A.M., Canfield, M.A. and Scheuerlc, A.E. (2001) Do infants with major congenital anomalies have an excess of macrosomia? *Teratology*, 64: pp. 311-317.
- Walsh, D.S., Adzick, N.S., Sution, L.N. and Johnson, M.P. (2001) Neural tube defects. *Fetal Diagn.* 16(5) : pp.312-22.
- Wani,M.A.(2000) NTDs and folic acid. *J. Clin. Pract.* 7(1): pp.1-3.
- Wasserman, C.R., Shaw, G.M, Selvin, S., Gould, J.B. and Syme, S.L.(1998) Socio economic status neighbourhood social conditions and neural tube defects. *Am. J. Public Health*, 88: pp. 1678-1680.
- Watkins, M.L (1998) Efficacy of folic acid prophylaxis for prevention of neural tube defects. *Mental retardation and Development disabilities*, 4: pp.282-290.
- Watkins, M.L., Rasmussen, S.A., Honein, M.A., Botto, L.D., and Moore, C.A. (2003) Maternal obesity and risk for birth defects, *Pediatrics*, 111(5) Part 2: pp.1152-8.
- Watson, R.R. (1994) Nutrition, disease resistance and age, *Food and Nutrition*, 51(1): p.252.
- Watson, W.J. Chescheir, N.C. and Katz, V.L. (1991) The role of ultrasound in evaluation of patients with elevated maternal serum alpha-fetoprotein: a review.*Obstet. Gynecol.*91(3):pp.30-32.
- Whiteman, D., Murphy, M., Hey, K., O' Donnell, M. and Goldacre, M. (2000) Reproductive factors, subfertility and risk of neural tube defects; a case-control study based on the Oxford Record Linkage study Register, *Am. J. Epidemiol*, 152(9): pp. 823-828.
- Whitney, N.E. and Rolfes, S.R (1993) Socioeconomic status in pregnancy, **In:** Understanding Nutrition. West publishing company, 6th edition : pp.474.
- WHO (1989) The prenatal and immediate pool pattern periods. *Bulletin OMS supplementary*, 67: pp.7.
- Williams, G. Coakley, F.V., Qayyun, S., Glenn, O.A., Breinan, R.S. and Callen, P.W. (2004) Evaluation of femur length during the second and third trimesters in fetuses with myelomeningocele. *Ultrasound obstet. gynecol.* 23(3): pp. 148-51.
- Wilson, R.D., Davies, G., Desilets Gal, Reid G.J., Summers, A.M. and Wyalt, P. (2003) The use of folic acid for the prevention of neural tube defects and other congenital anomalies, *J.obstet. Gynaecol. Can.* 25(11): pp. 959-73.

- Yadav, K.P. (1998) Encyclopaedia of Mass communication method In Extension methods, published by Sarup and Sons, Davya Ganj, New Delhi: p.147.
- Yates, J.R.W., Smith, F.M.A., Sherkin, A., Rudriguez, G.R. White, M. and Clarke, B.J. (1987) Is disordered folate metabolism the basis of genetic predisposition to neural tube defects? *Clin. Genet.* 31:pp. 279-287.
- Zambramski, J., Haley, and Browner (1986) Pediatric spinal cord and Vertebral column injuries. *Barrow Neurological Institute Quarterly*, 2(11): p.12.
- Zhang, J. and Cai, W.W. (1993) Association of the common cold in the first trimester of pregnancy with birth defects. *Pediatrics.* 92: pp.559-563.
- Zhou, G., Wang, Y., Wu, Y., Miao, L., Liang, J. and Zhu, J. (2002) Dynamic monitoring of neural tube defects in China during 1996-2000. *Zhong huayu fang Y, Xueza Zhi*, 36(6): pp. 402-5.