BECHURAM MONDAL, VIKAL TRIPATHY AND RANJAN GUPTA

- Kilbride, J., Baker, T. G., Parapia, L. A., Khoury, S. A., Shuqaidef, S. W. and Jerwood, D.: Anemia during pregnancy as a risk factor for iron defiency anaemia in infancy: a case control study in Jordon. *Int. J. Epidemiol.*, **28**: 461-468 (1999).
- Kramer, S.: Determinants of low birth weight: Methodological assessment and meta analysis. *Bull. World Health Orgn.*, 65: 663-737 (1987).
- McLaughlin, B. and Kevany, J.: Haemoglobin concentration in pregnancy: Relationships with maternal age and birth weight. *Irish. J. Med. Sc.*, **151**: 71–74 (1982).
- Meda, N., Cousens, S. and Kanki, B.: Anaemia among women of reproductive age in Burkina Faso. World Health Forum, 17: 369-372 (1976).
- Mondal, B.: Anaemia in pregnancy in relation to some biosocial factors among the Jaintia of Meghalaya. J. Ind. Anth. Soc., 36: 197-204 (2001).
- Mondal, B.: Birth Weight and its Biosocial Proximates: A Study on Four Populations of Meghalaya. Ph.D Thesis, (unpublished) Guwahati (Assam): Gauhati University (1997).
- Mondal, B.: Risk factors for low birth weight in Nepali infants. *Ind. J. Pediat.*, **67:** 477-482 (2000).
- Oni, G. A.: The effect of maternal age, education and parity on birth weight in Nigerian community: The comparison of results from bivariate and multivariate analysis. J. Trop. Peditr., 32: 295-300 (1986).
- Osbourne, G. K., Howat, R. C. and Jonelan, M. N.: The obstetric outcome of teenage pregnancy. *Br. J. Gynaecol.*, **88**: 215 221 (1981) (cited by Sing et al. 1998).
- Park, K.: Nutrition and Health. Park's Text Book of Preventive and Social Medicine. 15th Edn. M/S Banarasidas Bhanot, Jabalpur (1997).
- Rangneker, A. G. and Darbari, R.: Foetal outcome in pregnancy Anaemia. J. Obstet. Gynaecol. Ind., 43: 172–176 (1993).
- Roy, S.: Introduction. In: Singh K.S. (ed) *People of India*, 'Meghalaya', vol 32 Anthropological Survey of India, Seagull Books, Calcutta (1994).
- Rushwan H.: Anaemia in pregnancy: trategies for prevention and

management. In. *Women's Health Today*, D.R. Popkin K.J. Peddle (Eds.) The proceedings of the xiv World Congress Gynaecology and Obstetrics, London: The Parthenon Publishing Group, (1994) (cited by Singh et al 1998).

- Scholl, T. S., Hediger, M. S. and Blesky, D. H.: Prenatal care and maternal health during adolescent pregnancy : a review and meta-analysis. J. Adolesc. Health., 15: 444–456 (1994).
- Sing, K., Fong, Y. F. and Arulkumaran, S.: Anaemia in pregnancy A cross- sectional study in Singapore. *Eur. J. Clin. Nutr.*, 52: 65 –70 (1998).
- Stoltzfus, J. R.: Rethinking anaemia surveillance. *The Lancet*, **349**: 1764-1766 (1976).
- Tayeng, J.: Households and Household Population by Language Spoken in Households. Meghalaya, Census of India Series 14 (1981).
- Thangaleela, T. and Vijayalakshmi, P.: Impact of anaemia in pregnancy. Ind. J. Nutr. Dietet., 31: 251-256 (1994).
- Vijayaraghaban, B. G. V., Nair, K. M. and Rao, N. P.: Evaluation of national nutritional anaemia prophylaxis programme. *Ind. J. Pediatr.*, 57: 182-189 (1990).
- Weiner, J. S. and Lourie, L. A.: Practical Human Biology, Academic Press, London (1981).
- World Health Organization (WHO). Anaemia. In. Global Estimates for Health Situation Assessment and Projection. World Health Stat., 43 (Suppl.): 32-33 (1990).
- World Health Organization (WHO). Health Situation in the South-East Asia Region 1998-2000, World Health Organization Regional Office for South-East Asia, New Delhi (2002).
- World Health Organization (WHO). Nutrition: The counterstone of health and sustainable development. In: Nutrition for Health and Development. Progress Report, WHO, Geneva (1999).
- World Health Organization (WHO).: Nutritional Anaemias. Report of a WHO Scientific Group. Technical Report Series, No. 405, (1968).
- World Health Organization (WHO).: Physical status: the use and interpretation of anthropometry. *Technical Report Series*, No.854, WHO, Geneva (1995).

KEYWORDS Anaemia. Pregnancy. Risk Factors. Garo. Meghalaya. India

ABSTRACT Some social and biological factors are considered as risk factors for developing anaemia during pregnancy among the Garo of Meghalaya, India. A total of 262 Garo pregnant women were interviewed thoroughly to obtain relevant socio biological information from those who were admitted for their delivery at the seven hospitals located in different parts of Meghalaya. Haemoglobin level at their third trimester of pregnancy was collected from the antenatal records of the respective hospitals. The overall incidence of anaemia during pregnancy is found to be 45.42% in the present population. Six factors (mother's age, mid upper arm circumference {MUAC}, education, economic position, antenatal care and habit of tobacco chewing during pregnancy) are significantly associated with anaemia during pregnancy. Mother's age <20 years, MUAC <20.9 cm illiterate or having little education and low economic condition are found to be as risk factors for developing anemia among the Garo which can be controlled effectively through the intervention programme and this may help to bring down the incidence of anaemia during pregnancy in the present ethnic group. Also it implies that more such studies are needed in other ethnic groups of Northeastern part of India to understand the problems of Anaemia during pregnancy in differenct ethnic groups.

Authors' Address: Bechuram Mondal, Vikal Tripathy and Ranjan Gupta, Biological Anthropology Unit, Indian Statistical Institute, 203 BT Road, Kolkata, 700 108, West Bengal, INDIA. *Telephone:* 91-33-25753200, *Fax:* 91-33-25773049, *E-mail:* mondalb1@rediffmail.com

© Kamla-Raj 2006 Human Ecology Special Issue No. 14: 27-32 (2006) Ecology, Culture, Nutrition, Health and Disease Kaushik Bose, Guest Editor