the suppressive effect of bilirubin on the cerebrocortical activity lasts for a far shorter period in the central region whereas it lasts longer in the anterior regions.

There were no differences between the two groups in terms of vertex, sleep spindle, and k complex in the third month, which supported the hypothesis that hyperbilirubinemia caused transient delay in the brain maturation.

We conclude that hyperbilirubinemia affects the cerebrocortical electrical activity, but appears to be time limited.

## REFERENCES

- Whitington PF, Gartner LW 1993 Disorders of bilirubin metabolism. In: Nathan DG, Oski FA (eds) Hematology of Infancy and Childhood. WB Saunders, Philadelphia, pp 74–114
- Oski FA 1991 Disorders of bilirubin metabolism. In: Taeusch HW, Ballard RA, Avery ME (eds) Diseases of the Newborn. WB Saunders, Philadelphia, pp 749–777
- Kliegman RM 1996 Jaundice and hyperbilirubinemia in the newborn. In: Nelson WE, Behrman RE, Kliegman RM, Arvin AM (eds) Textbook of Pediatrics. WB Saunders, Philadelphia, pp 493–499
- Hansen TWR, Bratlid D 1986 Bilirubin and brain toxicity. Acta Pediatr Scand 75:513–522
- Gartner LM, Snyder RN, Chabon RS, Bernstein J 1970 Kernicterus: high incidence in premature infants with low serum bilirubin concentrations. Pediatrics 45:906–917
- Morphis L, Constantopoulos A, Matsaniotis N 1982 Bilirubin-induced modulation of cerebral protein phosphorylation in neonate rabbits in vivo. Science 218:156–158
- Tharp BR 1990 Electrophysiological brain maturation in premature infants: an historical perspective. J Clin Neurophysiol 7:302–314
- Dubowitz L, Dubowitz V, Goldberg C 1970 Clinical assessment of gestational age in the newborn infant. J Pediatr 77:1–10
- Robertson WO 1998 Personal reflections on the AAP practice parameter on management of hyperbilirubinemia in the healthy term newborn. Pediatr Rev 19:75–77
- Jasper HH 1958 The ten-twenty electrode system of the International Federation. Electroencephalogr Clin Neurophysiol 10:371–373
- Özmert E, Erdem G, Topçu M, Yurdakök M, Tekinalp G, Genç D, Renda Y 1996 Long-term follow-up indirect hyperbilirubinemia in full-term Turkish infants. Acta Paediatr 85:1440–1444

- Nakamura H, Takada S, Shimabuku R, Matsuo M, Matsuo T, Negishi H 1985 Auditory nerve and brainstem responses in newborn infants with hyperbilirubinemia. Pediatrics 75:703–708
- Koivisto M 1987 Cry analysis in infants with Rh haemolytic disease. Acta Paediatr Scand 335:1–73
- Chen YJ, Kang WM 1995 Effects of bilirubin on visual evoked potentials in term infants. Eur J Pediatr 154:662–666
- Bongers-Schokking B, Colon EJ, Hoogland RA, Van den Brande JL, Groot CJ 1990 Somatosensory evoked potentials in neonatal jaundice. Acta Pediatr Scand 79:148– 155
- Wennberg RP, Hance J 1986 Experimental bilirubin encephalopathy: importance of total bilirubin, protein binding, and blood-brain barrier. Pediatr Res 20:789–792
- Szeto H 1990 Spectral edge frequency as a simple quantitative measure of the maturation of electrocortical activity. Pediatr Res 27:289–292
- Scher MS, Sun M, Steppe DA, Guthrie RD, Sclabassi RJ 1994 Comparisons of EEG spectral and correlation measures between healthy term and preterm infants. Pediatr Neurol 10:104–108
- Ellingson RJ, Peters JF 1980 Development of EEG and daytime sleep patterns in trisomy-21 infants during the first year of life: longitudinal observations. Electroencephalogr Clin Neurophysiol 50:457–466
- Hahn JS, Tharp BR 1990 Winner of the Brazier Award: the dismature EEG pattern in infants with bronchopulmonary dysplasia and its prognostic implications. Electroencephalogr Clin Neurophysiol 76:106–113
- Tharp B, Scher M, Clancy R 1989 Serial EEGs in normal and abnormal infants with birth weights less than 1200 grams: a prospective study with long term follow-up. Neuropediatrics 20:64–72
- Haas GH, Prechtl HF 1977 Normal and abnormal EEG maturation in newborn infants. Early Hum Dev 1:69–90
- Schulte FJ, Michaelis R, Nolte R, Albert G, Parl U, Lasson U 1969 Brain and behavioral maturation in newborn infants of diabetic mothers. I. Nerve conduction and EEG patterns. Neuropaediatrie 1:24–35
- Holmes GL, Lombroso CT 1993 Prognostic value of background patterns in the neonatal EEG. J Clin Neurophysiol 10:323–352
- Ktonas PY, Fagioli I, Salzarulo P 1995 Delta (0.5–1.5 Hz) and sigma (11.5–15.5 Hz) EEG power dynamics throughout quiet sleep in infants. Electroencephalogr Clin Neurophysiol 95:90–96
- Parmelee AH 1969 EEG power spectral analysis of newborn infants' sleep states. Electroencephalogr Clin Neurophysiol 27:690–691
- Schulte FJ, Bell EF 1973 Bioelectric brain development: an atlas of EEG power spectra in infants and young children. Neuropaediatrie 4:30–45
- Thatcher RW, Walker RA, Gludice S 1987 Human cerebral hemispheric development at different rates and ages. Science 236:1110–1113

## Erratum

In the article "Gamma-Linoleic Acid and Ascorbate Improves Skeletal Ossification in Offspring of Diabetic Rats" (Pediatr Res 51:647–652, 2002), the acknowledgments on p. 651 read "... This paper is dedicated to the memory of our friend and colleague Dr. Ruth Garland." It should read "... This paper is dedicated to the memory of our friend and colleague Dr. Hugh O. Garland." The publisher regrets this error.