SUPPORTING EARLY BREASTMILK EXPRESSION ON THE NEONATAL UNIT – ARE WE DOING ENOUGH?

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Background and aims When breastfeeding is delayed, prompt breast-milk expression facilitates establishment and maintenance of lactation. On neonatal units, the recommended UNICEF target of all mothers achieving early milk expression within 6 h of birth is often not achieved. For critically ill infants, breast milk is particularly beneficial due to its nutritional and immunological benefits. Clinical practices that positively affect timely initiation are poorly described. Our aim was to investigate these practices.

Methods A cross-sectional survey was performed on a tertiary neonatal unit to assess lactation and breastfeeding support provided to mothers of term and preterm infants. Anonymous questionnaires were distributed, between days 3–7 postpartum.

Results Of 79 participants, 53% were advised about breast-milk antenatally. Overall, 90% of mothers were helped to hand-express but only 11% within 6 h of birth. Breastfeeding nurses and midwives provided most advice but neonatal nurses were involved in only 10% of episodes. The likelihood of early expression was lower for mothers of preterm infants and in mothers who had not done kangaroo care but not significantly. Maternal perception of support was positive in 90% of cases.

Conclusion The survey demonstrated a large discrepancy between recommended levels of support and actual practice. Questions about the feasibility of conforming to UNICEF recommendations in neonatal units remain. Further analysis of the factors that impeded early expression is needed. It may well be that in mothers whose infants require neonatal care, there are entirely valid reasons for some delay in initiation of expression.

DISTINGUISHING CONGENITAL COMBINED PITUITARY HORMONE DEFICIENCY FROM BILIARY ATRESIA AS A CAUSE OF CHOLESTASIS IN INFANTS

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Background and aims Neonatal cholestasis is caused by either biliary atresia or intrahepatic cholestasis. Congenital combined pituitary hormone deficiency (CPHD) is a rare disease and a recognised cause of intrahepatic cholestasis. It is important to differentiate cholestasis due to this entity from cholestasis due to biliary atresia, since both diseases can cause jaundice at about 1 month of age. However, doing so in a timely fashion remains a diagnostic dilemma.

This retrospective study was performed to clarify differences between cholestasis due to congenital CPHD and cholestasis due to biliary atresia.

Methods From 2004 to 2010, 4 infants (2 boys and 2 girls) with cholestasis due to congenital CPHD were admitted to Nagoya City University Hospital. Head magnetic resonance imaging of the 4 infants revealed an invisible pituitary stalk; 3 of these 4 infants had an ectopic posterior pituitary. Liver biopsy was performed in 3 of the 4 infants, and histological findings included giant cell hepatitis. Findings from these 4 infants were then compared with those from 35 infants treated in our hospital for cholestasis due to biliary atresia.

Results The results showed a significant difference in mean gamma-glutamyl transpeptidase levels between the two groups of infants (115.0 IU/l vs. 553.0 IU/l, respectively).

Conclusions The gamma-glutamyl transpeptidase level was found to be useful for distinguishing congenital CPHD from biliary atresia as the cause of cholestasis. The diagnosis of hypopituitarism should always be considered in infants with unexplained neonatal hepatitis.