1986 YEAR BOOK OF

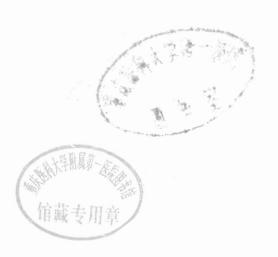
PEDIATRICS®

OSKI STOCKMAN

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The Year Book of PEDIATRICS®

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Acta Orthopaedica Scandinavica Acta Paediatrica Scandinavica

Allergy

American Family Physician

American Heart Journal

American Journal of Cardiology

American Journal of Clinical Pathology

American Journal of Diseases of Children

American Journal of Epidemiology

American Journal of Obstetrics and Gynecology

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American Journal of Roentgenology

American Journal of Sports Medicine

American Journal of Surgery

American Review of Respiratory Disease

Annals of Allergy

Annals of Emergency Medicine

Annals of Internal Medicine

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Archives of Disease in Childhood

Archives of General Psychiatry

Archives of Neurology

Archives of Ophthalmology

Archives of Otolaryngology

Arthritis and Rheumatism

British Journal of Diseases of the Chest

British Journal of Psychiatry

British Medical Journal

Canadian Journal of Neurological Sciences

Canadian Medical Association Journal

Cancer Treatment Reports

Clinical Orthopaedics and Related Research

Clinical Pediatrics

Clinical Radiology

Helvetica Paediatrica Acta

Israel Journal of Medical Sciences

Journal of Adolescent Health Care

Journal of the American Academy of Child Psychiatry

Journal of the American College of Cardiology

Journal of the American Dental Association

Journal of the American Medical Association

Journal of Applied Physiology

Journal of Bone and Joint Surgery (American vol.)

Journal of Bone and Joint Surgery (British vol.)

Journal of Child Psychology and Psychiatry

Journal of Clinical Endocrinology and Metabolism

Journal of Clinical Neuro-Ophthalmology

Journal of Dentistry for Children

Journal of Infectious Diseases

Journal of Neurology, Neurosurgery, and Psychiatry

Journal of Otolaryngology

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Journal of Pediatric Gastroenterology and Nutrition

Journal of Pediatric Surgery

Journal of Pediatrics

Journal of Thoracic and Cardiovascular Surgery

Journal of Trauma

Journal of Urology

Lancet

Mayo Clinic Proceedings

Medicine

Neurology

New England Journal of Medicine

Obstetrics and Gynecology

Ophthalmology

Pediatric Cardiology

Pediatric Infectious Disease

Pediatric Research

Pediatrics

Physician and Sportsmedicine

Plastic and Reconstructive Surgery

Radiology

Scandinavian Journal of Haematology

Southern Medical Journal

Spine

Surgery

Surgery, Gynecology and Obstetrics

Western Journal of Medicine

1 The Newborn

Do You Shake Hands With Mothers of Floppy Babies?

T. H. H. G. Koh (Hope Hosp., Salford, England) Br. Med. J. 289:485, Aug. 25, 1984

1 - 1

There are very few clinical situations where the birth of a child can lead to the new diagnosis of a serious condition in the mother and her family. In the past year, 2 admissions resulted in the diagnosis of myotonic dystrophy (MD) in both babies and 12 members of their families. One of these 2 babies in whom routine handshaking with the mother led to an early diagnosis is described.

Baby girl was delivered vaginally at 38 weeks' gestation after spontaneous labor. Polyhydramnios had been noted at 33 weeks. No drugs were given during labor, but meconium-stained liquor and type 2 decelerations were noted before delivery. At birth, the baby was covered in fresh meconium and had mild birth asphyxia; she was resuscitated appropriately. At 5 minutes she was breathing spontaneously and was pink breathing air. Initial electrolyte and blood sugar levels were normal. On examination she was extremely hypotonic and areflexic and had a feeble cry. There was a large cephalhematoma, bilateral pes cavus, and mild talipes equinovarus. A differential diagnosis of perinatal asphyxia or neuromuscular disease was made. Feeding proved slow and difficult, and nasogastric feeding was initially needed.

When the mother, aged 28 years, visited the baby, routine handshaking revealed an obvious myotonic grip. She was unaware of her muscle disease but had noticed difficulties for some years. She could not easily remove pegs from the clothesline or unscrew caps from containers. She admitted to feeling "more stiff" during this and her two previous pregnancies. She thought that fetal movements had been normal during the recent pregnancy. On examination, she had bilateral ptosis, percussion myotonia, mild dysarthria, inability to bury her eyelashes, and a myopathic smile. Her 2 daughters, aged 4 and 8 years, respectively, had never had symptoms or signs of muscular disease. There had been 2 spontaneous abortions at 5 and 7 weeks, respectively. Examination of other members of the mother's family confirmed the presence of myotonia in her mother, twin sister, and 2 brothers. A niece, aged 8 months, born to the twin sister had been hypotonic since birth although no diagnosis had been made. Examination of this baby disclosed the tent-shaped mouth and considerable hypotonia. No members of this family were aware of their condition.

The detection of neonatal MD may be difficult and is based on clinical suspicion. The condition is not as rare as is generally thought. Since the affected babies often have respiratory problems, it is common to attribute the hypotonia to perinatal asphyxia. The clinical picture consists of extreme hypotonia, neonatal respiratory problems, joint deformities, facial diplegia with a tent-shaped mouth, unexplained hematomas, and polyhydramnios.

Most mothers and their families are not known to have MD. Thus in two series, 38 of 59 families were not known to have MD at the time of delivery. In most cases, the mother had noticed the myotonia but, as other members of the family have the symptoms, she has never thought of the disability as abnormal and therefore never reported them. Early diagnosis avoids unnecessary extensive investigations for the numerous causes of hypotonia in a baby.

▶ A handshake and a greeting is a good way to start off any relationship, and an article dealing with a diagnostic handshake is a good way to start off the YEAR BOOK. Shaking hands with the mother or father of your patient is just common courtesy—kissing them, however, is really unnecessary. By the way, always suspect myotonic dystrophy in an infant with respiratory distress in whom the chest x-ray film reveals the presence of thin ribs.—F.A.O.

Maternal Fluid Overload During Labor: Transplacental Hyponatremia and Risk of Transient Neonatal Tachypnea in Term Infants

S. C. Singhi and E. Chookang (Univ. of the West Indies, Kingston, Jamaica)
Arch. Dis. Child. 59:1155–1158, December 1984

1–2

Women in labor frequently receive an infusion of aqueous glucose solution for hydration or for oxytocin treatment, and this can cause transplacental hyponatremia and resultant seizures or neonatal jaundice. An increased risk of transient neonatal tachypnea, or wet lung syndrome, apparently also exists in newborns with transplacental hyponatremia.

Comparison was made between 180 infants born to mothers who received aqueous glucose solution by infusion for hydration or as a vehicle for oxytocin and 103 control infants whose mothers received no intravenous fluid. All were singleton infants delivered vaginally at term. The two groups were similar in maternal age, gestation, duration of labor,

birth weight, and Apgar score.

Hyponatremia, defined as a level of serum sodium of 130 mmol/L or lower, occurred in 39% of the study infants and in 6% of control infants, a significant difference. Transient neonatal tachypnea was diagnosed in 15% of study infants who were hyponatremic, which was significantly more often than in normonatremic infants in this group and in control infants. Tachypnea was associated with administration of a higher volume of glucose solution and a lower level of cord sodium. The volume of glucose solution that was given correlated negatively with the values of sodium in both the maternal and cord serum. Lowered values of serum osmolality showed the dilution nature of the hyponatremia.

These findings suggest an increased risk of transient neonatal tachypnea in term infants with transplacental hyponatremia that is related to the intrapartum maternal infusion of aqueous glucose solution. They also offer an explanation of the increased incidence of transient neonatal tachypnea in infants delivered by cesarean section. These infants have lower plasma

oncotic pressure at birth, and their mothers usually have received large volumes of fluid in the intrapartum period.

▶ Transplacental hyponatremia and hyposmolarity have also been implicated in the pathogenesis of neonatal jaundice following the infusion of oxytocin during labor (Singhi, S., et al.: Arch. Dis. Child. 54:400, 1979; Buchan, P., Br. Med. J. 2:1255, 1979). Singhi and co-workers have examined cord serum sodium values in three groups of 278 term infants and correlated these values with the incidence of jaundice (bilirubin > 5 mg/100 ml) during the first 3 days of life (Br. J. Obstet. Gynecol. 91:1014, 1984). Of the 278 infants, 87 were born to mothers who were given infusions of 5% or 10% glucose in water during labor, 90 were born to mothers who received glucose solution as a vehicle for oxytocin, and 101 were born to mothers who did not receive any intravenous fluid therapy. Jaundice occurred in 32% and 33% of the first two groups but in only 12% of the controls. The prevalence of jaundice in the infants with a serum sodium value in excess of 131 mEg/L was the same in all three groups. but jaundice occurred 31/2 times more frequently in hyponatremic infants. One may conclude that hyponatremia produces transient tachypnea as well as hyperbilirubinemia. The jaundice is probably a result of increased red blood cell destruction produced by osmotic lysis of erythrocytes.

Obstetricians should not be allowed to "drown" babies by proxy. It appears unwise for mothers to receive more than 500 ml of electrolyte-free water in any 24-hour period during the conduct of labor.—F.A.O.

Incidence of Hyperbilirubinemia in Breast-Versus Formula-Fed Infants

Joyce A. Adams, Dennis J. Hey, and Robert T. Hall Clin. Pediatr. (Phila.) 24:69-73, February 1985

1 - 3

An increase in hyperbilirubinemia has been noted in breast-fed infants in the first week of life. The effects of various factors on the occurrence of hyperbilirubinemia were examined in a retrospective study of 233 fullterm infants born consecutively at the University of Health Sciences Hospital, Kansas City, Missouri, in a 6-month period in 1980. The breast-fed and formula-fed groups were similar in mean birth weight, maternal age, and Apgar scores (Table 1). More of the white mothers chose to breastfeed their infants.

Breast-feeding was the factor most predictive of development of hyperbilirubinemia that exceeded 12 mg/dl. Weight loss after 3 days is related to hyperbilirubinemia in Table 2. Significantly more breast-fed than formula-fed infants had peak levels of bilirubin that were higher than 15 mg/ dl when neonates with bruising and cephalhematoma were excluded (Table 3). Hyperbilirubinemia is related to the length of hospital stay in Table 4. Hyperbilirubinemia resolved within 10 days except for 1 case, which was presumed to be a case of "true breast milk jaundice." Formula-fed infants had peak levels of bilirubin on days 3-5, and their hyperbilirubinemia resolved by day 7 in all cases.

Breast-fed infants have hyperbilirubinemia more often than formula-fed

| pa | Number (%) | 06 | 118 53 (45) 92 (78) 26 (22)* 53 (45) 65 (55)* 11 (9) 5 (4) 6 (5) 14 (12) 17 (14) |
|--|---------------|---|--|
| s Formula-fed | Range | 2290–4990 15–36 –39 5–10 40–77 | |
| TABLE 1.—Comparison of Breast-Fed and Formula-Fed Groups Breast-fed | Mean (SD) | 3328 (483) 23.1 (4.8) 7.3 (1.4) 8.7 (1.4) 61.1 (7.5) | |
| ED AND FORM | Number (%) | | 63 (55) 103 (90) 12 (10) 70 (61) 45 (39) 18 (16) 3 (3) 6 (5) 20 (17) 14 (12) 17 (15) |
| n of Breast-Fe Breast-fed | Range | 2240-4730 18-40 4-9 7-10 43-79 | ebruary 1985.) |
| 1.—Compariso | Mean (SD) | 3447 (482) 24.2 (3.8) 7.6 (1.0) 8.8 (0.6) 60.5 (6.6) | (Phila.) 24:69–73, F |
| TABLE | Variable | Birth weight (g) Mothers age (yrs) 1-minute Apgar 5-minute Apgar Hematocrit (%) | Male White Non-white One-Day Program Three-Day Program Narcotic pain medication C-section Induction of labor Forceps used Bruising or cephalohematoma ABO set-up with negative Commbs *Pc.05 by using Pearson chi-square analysis. (Courtesy of Adams, J.A., et al.: Clin. Pediatr. (Phila.) 24:69–73, February 1985.) |

infants in the first week of life. It is not known whether this form of hyperbilirubinemia is harmful. Delayed motor development has been described in the Collaborative Perinatal Project, but attempts to document long-term cognitive impairment have failed. Breast-feeding remains a pre-

R = 0.244

 $p > 0.05 \pm$

| IIII III OII | IIIICLL DIII I | ROGICINI | |
|------------------------|----------------|-------------|------|
| | Breast-fed | Formula-fed | p* |
| Number | 43 | 62 | |
| Mean weight loss as: | | | |
| % of birth weight | 5.3 | 3.9 | <.03 |
| Standard deviation (%) | 3.9 | 3.1 | |
| Minimum (%) | 0 | 0 | |
| Maximum (%) | 19.6 | 19.3 | |
| | | | |

TABLE 2.—Weight Loss and Hyperbilirubinemia for INFANTS ON THREE-DAY PROGRAM

Correlation between weight loss and

hyperbilirubinemia†

R = 0.098

 $p > 0.1 \pm$

TABLE 3.—Incidence of Hyperbilirubinemia in Breast-FED AND FORMULA-FED INFANTS

| Classification According to Peak Bilirubin Level | Breast-fed | Formula-fed | p† |
|---|------------|-------------|---------|
| Group 1 (not measured or | | | |
| <12 mg/dl) | 78 (77%) | 108 (92) | NS‡ |
| Group 2 (12.0-14.9 mg/dl) | 11 (11%) | 7 (6%) | NS‡ |
| Group 3 (above 15 mg/dl) | 12 (12%) | 2 (2%) | < 0.002 |
| Groups 2 and 3 | | | |
| (above 12 mg/dl) | 23 (23%) | 9 (8%) | < 0.003 |
| Total (Groups 1, 2, and 3) | 101 | 117 | |

^{*}After excluding infants with bruising or cephalohematoma.

ferred method of feeding healthy infants. Further study is needed to determine whether hyperbilirubinemia in breast-fed infants is related to hospital management.

▶ The findings in this study are in substantial agreement with last year's report by L. M. Osborn and associates (see the 1985 YEAR BOOK, pp. 24-26).

What is a normal bilirubin level? M. J. Maisels and K. Gifford provide us with an answer in a presentation at the 1985 meetings of the Society for Pediatric Research-American Pediatric Society (Pediatr. Res. 19:240A, 1985). Maximum serum bilirubin concentrations and feeding methods were analyzed in 2,388 infants, of whom 99% were white. The results are given in the table.

The authors conclude that a bilirubin level greater than 13 mg/dl in a term infant who is not breast-feeding requires evaluation, whereas a bilirubin level

^{*}Comparison of means by using analysis of variance.

[†]Each case coded as follows: 1, bilirubin not measured or <10 mg/dl; 2, bilirubin 10.0 to 11.9 mg/dl; 3, bilirubin 12 to 14.9 mg/dl; and 4, bilirubin >15 mg/dl.

[‡]Probability that R values will be greater than zero.

⁽Courtesy of Adams, J.A., et al.: Clin. Pediatr. (Phila.) 24:69-73, February 1985.)

[†]Pearson chi-square analysis.

[‡]NS, not significant.

⁽Courtesy of Adams, J.A., et al.: Clin. Pediatr. (Phila.) 24:69-73, February, 1985.)

| | | *d | | NS | <0.05 | <0.02 | | |
|---|-------------------------------------|-----------------|---|---|-------------------------------------|--------------------------|----------------------------|---|
| OSPITAL STAY | 3-Day Program | Formula-fed | 26 (89%) | 5 (7%) | 2 (3%) | 7 (11%) | 63 | |
| TO LENGTH OF H | | Breast-fed | 29 (69%) | 7 (17%) | 5 (12%) | 12 (29%) | 41 | |
| ACCORDING | | *d | | NS | <.01 | <.02 | | |
| TABLE 4.—INCIDENCE OF HYPERBILIRUBINEMIA ACCORDING TO LENGTH OF HOSPITAL STAY | One-Day Program | Formula-fed | 51 (96%) | 2 (4%) | 0 | 2 (4%) | 53 | -73, February 1985.) |
| 4.—INCIDENCE OF | 0 | Breast-fed | 49 (82%) | 4 (5.5%) | 7 (12.5%) | 11 (18%) | 09 | in. Pediatr. (Phila.) 24:69 |
| TABLE | Classification According to Peak | Bilirubin Level | Group 1 (peak bilirubin < 12 mg/dl) Group 2 (peak bilirubin | 12-14.9 mg/dl) Group 3 (peak bilirubin | > 15 mg/dl) Groups 2 and 3 (peak | bilirubin > 12 mg/dl) | Total (Groups 1, 2, and 3) | *Pearson chi-square analysis. †NS, not significant. (Courtesy of Adams, J.A., et al.: Clin. Pediatr. (Phila.) 24:69–73, February 1985.) |

| | Maximum Serum Bilirubin mg/di | |
|------------|-------------------------------|------------|
| Percentile | Breast-fed | Bottle Fed |
| 10 | 2.1 | 1.6 |
| 25 | 4.3 | 3.1 |
| 50 | 7.3 | 5.6 |
| 75 | 9.7 | 8.0 |
| 90 | 12.5 | 10.1 |
| 95 | 14.5 | 11.6 |
| 97 | 15.5 | 13.0 |
| 99 | 17.0 | 15.5 |
| MEAN + SD | 7.1 + 3.9 | 5.8 + 3.4 |

greater than 15.5 mg/dl should be necessary to arouse concern in a breast-fed infant, Hurray for Maisels and Gifford—change the definition and the problem goes away. This reminds me of the plan of Senator George Aiken of Vermont for dealing with the Vietnam war. Aiken suggested that we declare that we won the war and bring the troops home. That would save face and save lives. For more on neonatal jaundice, read on.—F.A.O.

Natural History of Neonatal Jaundice

Coleen Kivlahan and Elizabeth J. P. James (Univ. of Missouri, Columbia) Pediatrics 74:364-370, September 1984

1 - 4

A study was made of the relationship between infant feeding type and the occurrence and natural history of neonatal jaundice in term newborn infants. A retrospective chart review of 124 records confirmed earlier findings indicating that jaundice is recognized more often in breast-fed infants than formula-fed infants. A prospective cohort study of 140 term newborn

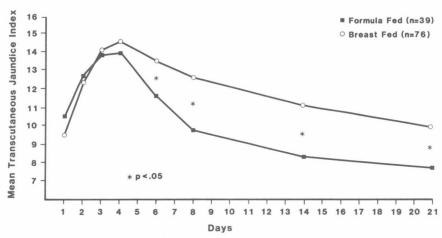


Fig 1-1.—The natural history of jaundice is traced in white breast-fed and formula-fed infants. (Courtesy of Kivlahan, C., and James, E.J.P.: Pediatrics 74:364-370, September 1984. Copyright American Academy of Pediatrics 1984.)