Archives of Disease in Childhood, 1978, **53**, 264–266

Neonatal Society

Summer Meeting held on 24 June 1977 at the Radcliffe Infirmary and Somerville College, Oxford

Demonstrations

Oxford perinatal mortality. J. D. Baum, P. Howat, J. W. Keeling, and T. Wheeler. Departments of Paediatrics and Obstetrics and Gynaecology, John Radcliffe Hospital, Oxford.

Iatrogenic disease in the newborn nursery. J. W. Keeling (introduced by J. D. Baum). Department of Paediatrics, John Radcliffe Hospital, Oxford.

Plasma renin activity before and after exchange transfusion in infants. J. G. Carver and R. O. Robinson. Nuffield Institute for Medical Research, University of Oxford, and Department of Paediatrics, John Radcliffe Hospital.

Physiological prediction of conjoined placental circulation in twin fetal lambs. J. G. Carver, J. C. Mott, M. J. Taylor, and L. M. Valdes-Cruz. Nuffield Institute for Medical Research, University of Oxford.

Experimental growth retardation in fetal guinea pigs. C. T. Jones, H. N. Lafeber, and T. P. Rolph (introduced by H. J. Shelley). Nuffield Institute for Medical Research, University of Oxford.

Experimental growth retardation in fetal lambs. I. Hart, C. T. Jones, J. S. Robinson, and G. D. Thorburn. National Institute for Research into Dairying, Shinfield, and Nuffield Institute for Medical Research, University of Oxford.

Influence of insulin on tissue pools of free amnino acids in fetal lambs. S. Chrystie, J. Horn, D. Noakes, I. Sloan, and M. Young. Department of Gynaecology, St. Thomas's Hospital Medical School, London.

Some effects of glucose administration to well-oxygenated and hypoxic fetal lambs. P. J. Haynes and H. J. Shelley. Nuffield Institute for Medical Research, University of Oxford.

Changing composition of reflex milk. J. D. Baum, J. Gibbs, and A. Lucas. Department of Paediatrics, John Radcliffe Hospital, Oxford.

A dilemma: sterilisation versus preservation of antibacterial components in reflex milk. J. Gibbs and P. Goddard (introduced by J. D. Baum). Department of Paediatrics, John Radcliffe Hospital, Oxford.

Metabolic and endocrine response to first feed of breast milk in preterm infants. A. Aynsley-Green, S. R. Bloom, A. Lucas, and R. C. Turner. Department of Paediatrics, John Radcliffe Hospital, and Nuffield Department of Clinical Medicine, Radcliffe Infirmary, Oxford, and Department of Medicine, Royal Postgraduate School of Medicine, Hammersmith Hospital, London.

Some metabolic, endocrine, and behavioural state changes in relation to feeding during development in lambs. J. M. Bassett, R. Harding, P. Johnson, C. T. Jones, M. McClelland, C. McLeod, and P. Whyte. Nuffield Institute for Medical Research, University of Oxford.

Physiological changes during feeding in young lambs. R. Harding, P. Johnson, M. McClelland, C. McLeod, and P. Whyte. Nuffield Institute for Medical Research, University of Oxford.

Cardiovascular changes associated with feeding in the newborn baby. R. Cooke, K. Costeloe, and P. Helms (introduced by P. Johnson). Department of Paediatrics, John Radcliffe Hospital, Oxford, and Department of Neonatal Medicine, Hammersmith Hospital, London.

Apparent cerebral blood flow in the newborn infant. R. Cooke, P. Howat, and P. Rolfe. Department of Paediatrics, John Radcliffe Hospital, Oxford.

Measurement of cerebral blood flow in fetal lamb: effects of inhomogeneous blood flow distribution. S. Blomstrand, K. Karlsson, and I. Kjellmer (introduced by D. Harvey). Department of Paediatrics I and Obstetrics and Gynaecology, University of Göteborg, Sweden.

Use of combined video and polygraphic recording of breathing and heart rate during different sleep states in the newborn baby. M. Bamford, R. Harding, and P. Johnson. Department of Paediatrics, John Radcliffe Hospital, and Nuffield Institute for Medical Research, University of Oxford.

Studies of sleep state and related respiratory and cardiovascular events in newborn lamb. R. Harding, P. Johnson, M. McClelland, C. McLeod, and P. Whyte. Nuffield Institute for Medical Research, University of Oxford.

Upper airway function during breathing and swallowing in fetal and newborn lambs. R. Harding, P. Johnson, M. McClelland, C. McLeod, and P. Whyte. Nuffield Institute for Medical Research, University of Oxford.

Influence of lung gas volume on expiratory activity of the larynx and breathing in lambs. R. Harding, P. Johnson, M. McClelland, C. McLeod, and P. Whyte. Nuffield Institute for Medical Research, University of Oxford.

Cardiovascular changes during apnoea initiated by laryngeal stimulation. R. Harding, P. Johnson, M. McClelland, C. McLeod, and P. Whyte. Nuffield Institute for Medical Research, University of Oxford.

Cardiovascular changes associated with apnoea in the human newborn infant. K. Costeloe (introduced by P. Johnson). Department of Neonatal Medicine, Hammersmith Hospital, London.

Further developments in use of ultrasound to measure fetal breathing movements. J. D. Gough and E. R. Poore (introduced by G. S. Dawes). Nuffield Institute for Medical Research, University of Oxford.

Breathing patterns in fetal lambs. R. L. K. Chapman, G. S. Dawes, D. W. Rurak, and P. L. Wilds. Nuffield Institute for Medical Research, University of Oxford.

Renal and cardiovascular effects of infusing vasopressin into fetal and newborn lambs. D. W. Rurak and D. W. Walker (introduced by G. S. Dawes). Nuffield Institute for Medical Research, University of Oxford.

Lecithin/sphingomyelin ratios in pharyngeal aspirates from newborn infants. J. D. Baum and P. Jenkins. Department of Paediatrics, John Radcliffe Hospital, Oxford.

Surface tension lowering properties of wet and dry surfactant. A. D. Bangham and C. J. Morley (introduced by G. S. Dawes). Agricultural Research Centre, Cambridge, and Nuffield Institute for Medical Research, University of Oxford.

Communications

Prostaglandins in human fetal circulation. J. G. Bibby, J. Brunt, A. P. F. Flint, M. D. Mitchell, and A. C. Turnbull (introduced by H. J. Shelley). Nuffield Department of Obstetrics and Gynaecology, John Radcliffe Hospital, Oxford.

Factors affecting fetal electroencephalogram during labour. P. Wilson (introduced by P. Johnson). Department of Obstetrics and Gynaecology, Harari Central Hospital, Salisbury, Rhodesia.

Transcutaneous PO_2 monitoring in newborn infants: where are the limits? M. Holzmann, O. Linderkamp, K. P. Riegel, I. Strohhacker, and H. T. Versmold (introduced by J. P. M. Tizard). Department of Paediatrics, Division of Neonatology, University of Munich, FRG.

Echocardiographic detection of intracardiac right-to-left shunts after peripheral vein injections. D. R. Pieroni, J. M. A. Roland, L. M. Valdes-Cruz, and P. J. Varghese (introduced by J. C. Mott). Johns Hopkins Hospital, Baltimore, USA.

Cerebral blood-flow and sleep in the newborn. N. Cullen and D. W. A. Milligan (introduced by K. W. Cross). Neonatal Research Group, London Hospital Medical College, London.

Treatment of apnoeic attacks in the newborn baby with theophylline. J. A. Kuzemko (introduced by P. A. Davies). Department of Paediatrics, Peterborough District Hospital, Peterborough.

Nasal resistance during infancy. S. Godfrey and J. Stocks. Department of Paediatrics and Neonatal Medicine, Hammersmith Hospital, London.

Dry pulmonary surfactant: its physical and physiological properties. A. D. Bangham, G. Jenkin, P. Johnson, C. J. Morley, and G. D. Thorburn. Agricultural Research Centre, Cambridge, and Nuffield Institute for Medical Research, University of Oxford.

Spongioform myelinopathy and hexachlorophane concentrations in brains of infants with birthweights <1500 g. J. M. Anderson, F. Cockburn, J. O. Forfar, R. A. Harkness, R. W. Kelly, and B. Kilshaw. Departments of Paediatric Biochemistry, Pathology, and Child Life and Health, University of Edinburgh, and MRC Reproductive Biology Unit, Edinburgh.

Effects of amino acids on fetal rat pancreas in organ culture. M. de Gasparo, G. R. Milner, R. D. G. Milner, and P. D. Norris. Ciba-Geigy, Basel, Switzerland, and Departments of Paediatrics and Pathology, University of Sheffield.

Evidence that fatty acid oxidation reverses hypoglycaemia of the starved newborn rat. J. R. Girard, P. R. Ferré, E. B. Marliss, and J. P. Pegorier. Laboratoire de Physiologie du Développement, Collège de France, Paris, and Department of Medicine, University of Toronto, Canada.

Quantification of intrauterine malnutrition. L. H. J. Ramaekers (introduced by P. A. Davies). Ziekenhuis St. Annadal, Maastricht, The Netherlands.

Growth of light-for-dates infants during the first year according to nutritional status at birth. D. P. Davies

and P. Platts. Department of Child Health, University of Leicester.

Energy absorption and growth in immature infants on a modern infant formula. J. Alvear and O. G. Brooke. Department of Child Health, St. George's Hospital, Tooting.

Meeting held on 3 November 1977 at St. Thomas's Hospital, London

Communications

Necrotising enterocolitis: a clustered spectrum of cases. J. M. Bradley, D. M. Flynn, F. M. Howard, P. Noone, and M. Szawatkowski. Departments of Paediatrics and Medical Microbiology, Royal Free Hospital, London.

Effect of modern neonatal care on 1-year infant morbidity. C. Jones and M. Radford. Department of Child Health, Southampton General Hospital, Southampton.

Neck extensors hypertonia in the newborn: clinical assessment and probable significance. C. Amiel-Tison (introduced by A. Minkowski). Port Royal Maternity Hospital, Paris, France.

Influence of central nervous system on fetal lung development. K. Bartlett, J. S. Wigglesworth, and R. M. L. Winston. Department of Clinical Biochemistry, Royal Victoria Infirmary, Newcastle-upon-Tyne, and Department of Paediatrics and Neonatal Medicine and Institute of Obstetrics and Gynaecology, Hammersmith Hospital, London.

Elastic recoil of chest wall and lung expansion at birth. I. E. Hopkin, A. D. Milner, and R. A. Saunders. Department of Child Health, University Hospital and Medical School, Nottingham.

Influence of labour on crying vital capacity (CVC) in the newborn. M. L. Chiswick. Special Care Baby Unit, St. Mary's Hospital, Manchester.

Respiratory patterns in the newborn studied using a new noninvasive device. B. M. Wright (introduced by H. B. Valman). Northwick Park Hospital and Clinical Research Centre, Harrow, Middlesex.

Comparison of continuously recorded transcutaneous oxygen tension ($tcPO_2$), measured by two $tcPO_2$ electrodes of different design, with simultaneously recorded arterial tension (PaO_2) in newborn infants with respiratory illnesses. A. K. Morgan, D. Parker, E. O. R. Reynolds, P. N. le Souëf, and L. P. Soutter. Departments of Paediatrics and Medical Physics and Bioengineering, University College Hospital and Medical School, London.

Experimental intrauterine growth retardation in guinea pigs. C. T. Jones, H. N. Lafeber, and T. P Rolph (introduced by H. J. Shelley). Nuffield Institute for Medical Research, University of Oxford.

Effect of a maternal fast in late pregnancy on metabolic adaptation of newborn rabbits to extrauterine life. R. D. G. Milner, I. Rubecz, and M. F. Whitfield. Department of Paediatrics, University of Sheffield.

Essential fatty acids in fetal and neonatal development. M. A. Crawford (introduced by E. M. Widdowson). Nuffield Institute of Comparative Medicine, The Zoological Society of London.

Is taurine an essential amino acid in the neonate? H. M. Berger, G. A. Brown, M. J. Brueton, and B. A. Wharton. Infant Development Unit, Queen Elizabeth Medical Centre, Birmingham.

Annual Vickers Guest Lecture: The role of trace elements in fetal and early postnatal development. Dr C. F. Mills. Rowett Research Institute, Aberdeen.