

REFERENCES

- ACHARYA, P.T. (1962). A study of chemical pathological changes occurring in the neonatal infant as a result of difficult labour. Thesis for the Degree of Ph.D. London.
- ADAM, P.A.J., TERAMO, K., RAIHA, N., GITLIN, D., and SCHWARTZ, R. (1969). Human foetal insulin metabolism early in gestation: Response to acute elevation of fetal glucose concentration and placental transfer of human insulin I - 131. *Diabetes*, 18, 409.
- AMERICAN DIABETES ASSOCIATION (1968). Report of the Committee on Statistics of. 'Standardisation of the oral glucose tolerance test'. *Ibid.*, 1969. 18, 299.
- ANAGNOSTAKIS, D.E. and LARDINOIS, R. (1971). Urinary Catacholamine excretion and plasma NEFA concentration in small-for-date infants. *Pediatrics*, 47, 1000.
- BAENS, G.S., LUNDEEN, E., and CORNBATH, M. (1963). Studies of carbohydrate metabolism in the newborn infant. VI. Levels of glucose in blood in premature infants. *Ibid.*, 31, 580.
- BAIRD, J.D. and FARQUHAR, J.W. (1962). Insulin secreting capacity in newborn infants of normal and diabetic women, *Lancet*, 1, 71.
- BERGMEYER, H.U. (1968). *Methods of Enzymatic Analysis*. Academic Press, New York and London, p.123.
- BONDY, P.K. and CARDILLO, L.R. (1956). The effect of glucagon on carbohydrate metabolism in normal human beings. *J.Clin.Investi.*, 35, 494.

- BOWIE, M.D., MULLIGAN, P.B. and SCHWARTZ, R. (1963). Intravenous glucose tolerance in normal newborn infant: The effects of double dose of glucose and insulin. *Pediatrics*, 31, 590.
- BROWN, R.J.K. and WALLIS, P.G. (1963). Hypoglycaemia in the newborn infant. *Lancet*, 1, 1278.
- CANTAROW, A. and TRUMPER, M. (1962). *Clinical Biochemistry*, Sixth Edition. W.B. Saunders Company, Philadelphia, London, p. 36.
- CHANCE, G.W. and BOWER, B.D. (1966). Hypoglycaemia and temporary hyperglycaemia in infants of low birth weight for maturity. *Arch. Dis. Childh.*, 41, 279.
- CHIKERMANE, A.S., MAJUMDAR, G.R. and SHAH, A.P. (1969). The use of maturity score in the assessment of gestational age of the newborn babies with special reference to prematurity. *Indian Pediat.*, 6, 720.
- COLE, H.S., BILDER, J.H., CAMERINI-DAVALOS, R.A. and GRIMALDI, R.D. (1970). Glucose tolerance, insulin and growth hormone in infants of gestational diabetic mothers. *Pediatrics*, 45, 394.
- CORNBLATH, M., GANZON, A.F., NICOLOPOULOS, D., BAENS, G.S., HOLLANDER, R.J., GORDON, M.H. and GORDON, H.H. (1961). Studies of carbohydrate metabolism in the newborn infant. III. Some factors influencing the capillary blood sugar and the response to glucagon during the first hours of life. *Ibid.*, 27, 378.
- , LEVIN, E.Y. and MARQUETTI, E. (1958). Studies of carbohydrate metabolism in the newborn. II. The effect of glucagon on the concentration of sugar in capillary blood

- of the newborn infant. *Ibid.*, 21, 885.
- , ODELL, G.B., and LEVIN, E.Y. (1959). Symptomatic neonatal hypoglycaemia associated with toxæmia of pregnancy. *J. Pediat.*, 55, 545.
- , and RELSNER, S.H. (1965). Blood glucose in the neonate, clinical significance. *New England, J. Med.*, 273, 378.
- , and SCHWARTZ, R. (1966). Disorders of Carbohydrate Metabolism in Infancy. Major Problems in Clinical Pediatrics, Vol. III, W.B. Saunders Company, Philadelphia and London.
- , WYBREGT, S.H. and BAENS, G.S. (1963). Studies of carbohydrate metabolism in the newborn infant. VII. Test of carbohydrate tolerance in premature infants. *Pediatrics*, 32, 1007.
- , ———, BAENS, G.S. and KLEIN, R.I. (1964). Symptomatic neonatal hypoglycemia: Studies of carbohydrate metabolism in the newborn infant, VIII. *Ibid.*, 33, 388.
- CREERY, R.D.G. and PARKINSON, T.J. (1953). Blood glucose changes in the newborn. I. The blood glucose pattern of normal infants in the first 12 hours of life. *Arch. Dis. Childh.*, 28, 134.
- DANOWSKI, T.S. (1957). Diabetes Mellitus with Emphasis on Children and Young Adults. The Williams & Wilkins Company, Baltimore.
- DAWES, G.S. (1968). Foetal and Neonatal Physiology. A Comparative Study of the Changes at Birth. Year Book Medical Publishers, Inc., Chicago, p.216.

- DAWKINS, M.J.R. (1963). — quoted by WALKER, D.G. Carbohydrate Metabolism and its Disorders, Vol.I. DICKENS, F., RANDLE, P.J. and WHELAN, W.J. Academic Press, London and New York, p.485.
- (1964). Hypoglycaemia in childhood. Proc.Roy.Soc.Med., 57, 1063.
- DESMOND, M.M. (1953). Observations related to neonatal hypoglycaemia. J.Pediat. 43, 253.
- DUPRE, J. (1964). Effect of route of administration on disposal of glucose load. Proc.Physiol.Soc., 24, 58.
- ELRICK, H., STIMMLER, L., HLAD, C.J., Jr. and ARAI, Y. (1964). Plasma insulin response to oral and intravenous glucose administration. J.Clin.Endo., 24, 1076.
- FARQUHAR, J.W. (1954). Control of blood sugar level in the neonatal period. Arch.Dis.Childh., 29, 519.
- GENTZ, J., WARRNER, R., PERSSON, B.E.H. and CORNBELTH, M. (1969). Intravenous glucose tolerance, plasma insulin, free-fatty acids and B-hydroxybutyrate in underweight newborn infants. Acta Paediat. Scand., 58, 481.
- GERDA - WOLFSOHN - ZONDEK. (1968). Carbohydrate metabolism in the newborn. Lancet, 1, 983.
- GRASSO, S., MESSINA, A., SAPORITO, N. and REITANO, G. (1968). Serum-insulin response to glucose and amino acids in premature infant. Ibid., 2, 755.
- GRUENWALD, P. (1967). Carbohydrate and energy metabolism in the newborn — an international exploration. XI International congress of Pediatrics. Pediatrics, 39, 596.

- HARTMAN, A.F. (1955). Pathologic physiology in some disturbances of carbohydrate metabolism. *J. Pediat.*, 47, 537.
- , and JAUDON, J.C. (1937). Hypoglycaemia. *Ibid.*, 11, 1.
- HAWORTH, J.C., DILLING, L. and YOUNOSZAI, M.K. (1967). Relation of blood glucose to haematocrit, birth weight and other body measurements in normal and growth retarded newborn infants. *Lancet*, 2, 901.
- HOLMAN, G.D. and LIPSITZ, P.J. (1966). *Clinical Obstetrics and Gynecology*. Vol. 9. Harper and Row New York, p. 922.
- ISLES, T.E., DICKSON, M. and FARQUHAR, J.W. (1968). Glucose tolerance and plasma insulin in newborn infants of normal and diabetic mothers. *Pediat. Res.*, 2, 198.
- JORGENSEN, K.R., DECKERT, T., PEDERSEN, L.M. and PEDERSEN, J. (1966). Insulin, insulin antibody and glucose in plasma of newborn infants of diabetic women. *Acta Endocr.*, 52, 154.
- KANAZAWA, Y., KUZUYA, T., IDE, T. and KOSAKA, K. (1966). Plasma insulin responses to glucose in femoral, hepatic and pancreatic veins in dogs. *Am. J. Phys.*, 211(2), 442.
- KEELE, D.K., KAY, J.L., BROWN, J., and NORDQUIST, B. (1966). Plasma free fatty acid and blood sugar levels in newborn infants and their mothers. *Pediatrics*, 37, 597.
- KENNY, F.M., MALVAUX, P. and MIGEON, C.J. (1963). Cortisol production in newborn babies, older infants and children. *Ibid.*, 31, 360.
- KETTERINGHAM, R.C. and AUSTIN, B.R. (1938). Blood sugar during labour, at delivery and postpartum, with observations on newborns. *Amer. J. Med. Sci.*, 195, 318.

- , ——, (1939). Induced hyperglycemia at delivery.  
Amer.J.Obstet.Gynec., 37, 1000.
- KIRTLEY,W.R., WAIFE,S.O., HELMER,O.M. and PECK,F.B. (1953).  
Effect of purified glucagon (hyperglycaemic glycogenolytic  
factor) on carbohydrate and corticoid metabolism in normal  
and diabetic subjects. Diabetes, 2, 345.
- , ——, PECK,F.B. (1953). Effect of glucagon in stable  
and unstable diabetic patients. Proc.Soc.Exper.Biol. &  
Med., 83, 387.
- KOHLER,A. (1932). — quoted by FARQUHAR,J.W. (1954). Control of  
the blood sugar level in the neonatal period. Arch.Dis.  
Childh., 29, 519.
- LARON,Z., MANNHEIMER,S., NITZAN,M. and GOLDMANN,J. (1967).  
Growth hormone, glucose and FFA levels in mother and  
infants in normal, diabetic and toxaemic pregnancies.  
Arch.Dis.Childh., 42, 24.
- Le DUNE,M.A. (1972a). Intravenous glucose tolerance and plasma  
insulin studies in small-for-dates infants. Ibid.,47, 111.
- (1972b). Response to glucagon in small-for-dates  
hypoglycaemic and non-hypoglycaemic newborn infants.  
Ibid., 47, 754.
- McCANCE,R.A. and WIDDOWSON,E.M. (1954). The influence of  
events during the last few days in utero on tissue-  
destruction and renal function in the first two days of  
independent life. Ibid., 29, 495.
- McKITTRICK,J.B. (1940). Serial blood sugar determinations in  
normal newborn infants. J.Pediat., 16, 151.

MIGEON, C.J., PRYSTOWSKY, H., GRUMBACH, M.M. and BYRON, M.C. (1956).

Placental passage of 17-hydroxycorticosteroids: Comparison of the levels in maternal and fetal plasma and effect of ACTH and hydrocortisone administration. *J.Clin.Investi.*, 35, 488.

MILLER, H.C. and ROSS, R.A. (1940). Relation of hypoglycaemia to the symptoms observed in infants of diabetic mothers. *J.Pediat.*, 16, 473.

MILNER, R.D.G. and HALES, C.N. (1965). Effect of intravenous glucose on concentration of insulin in maternal and umbilical-cord plasma. *Brit.Med. J.*, i, 284.

MULLIGAN, P.B. and SCHWARTZ, R. (1962). Hepatic carbohydrate metabolism in the genesis of neonatal hypoglycemia. Effects of the administration of epinephrine, glucagon and galactose. *Pediatrics*, 30, 125.

NATELSON, S. (1961). *Microtechniques of Clinical Chemistry*. Second Edition. Charles C. Thomas Publishers, Springfield, Illinois.

——, PINCUS, J.P. and RANNAZZISI, G. (1963). Dynamic control of calcium, phosphate, citrate and glucose levels in blood serum. Effect of ACTH, adrenaline, noradrenaline, hydrocortisone, parathormone, insulin and glucagon. *Clin.Chem.*, 9, 31.

NELIGAN, G.A. (1964). Hypoglycaemia in the newborn. *Proc.Roy. Soc.Med.*, 57, 1059.

- , ROBSON, E. and WATSON, J. (1963). Hypoglycaemia in the newborn. *Lancet*, 1, 1282.
- NORVAL, M.A. (1950). Blood sugar values in premature infants. *J. Pediat.*, 36, 177.
- , KENNEDY, R.L. and BERKSON, J. (1949). Blood sugar in newborn infants. *Ibid.*, 34, 342.
- PEDERSEN, J. (1952). Diabetes and Pregnancy. Blood sugar of newborn infants during fasting and glucose administration. Danish Science Press, Copenhagen.
- PERLEY, M.J. and KIPNIS, D.M. (1967). Plasma insulin response to oral and intravenous glucose: studies in normal and diabetic subjects. *J. Clin. Invest.*, 46, 1954.
- PERSSON, B. and GENTZ, J. (1966). The pattern of blood lipids, glycerol and ketone-bodies during the neonatal period, infancy and childhood. *Acta Paediat. Scand.*, 55, 353.
- PILDES, R.S., HART, R.J., WARRNER, R. and CORNBATH, M. (1969a). Pitfalls in interpretation of oral glucose tolerance test in newborn. *Pediatrics*, 43, 92.
- , ———, ———, and ———. (1969b). Plasma insulin response during oral glucose tolerance tests in newborns of normal and gestational diabetic mothers. *Ibid.*, 44, 76.
- SCHIFF, D. and LOWY, C. (1968). Carbohydrate metabolism in the newborn. *Lancet*, 1, 475.
- SENTERRE, J. and KARLBERG, P. (1970). Respiratory quotient and metabolic rate in normal full-term and small for date newborn infants. *Acta Paediat. Scand.*, 59, 653.

- SHELLEY, H.J. (1964). Carbohydrate reserve in the newborn infant. *Brit.Med.J.*, 1, 273.
- (1969). Carbohydrate metabolism in the foetus and the newly born. *Proc. Nutr.Soc.*, 28, 42.
- and NELIGAN, G.A. (1966). Neonatal hypoglycaemia. *Brit.Med.Bull.*, 22, 34.
- SINCLAIR, J.C. and SILVERMAN, W.A. (1966). Intrauterine growth in active tissue mass of the human fetus, with particular reference to the undergrown baby. *Pediatrics*, 38, 48.
- SMITH, C.A. (1959). *The Physiology of the newborn infant*, Third Edition. Charles C. Thomas, Publisher, Springfield, Illinois, U.S.A.
- SPELLACY, W.N., GALL, S.A. and CARLSON, K.L. (1967). Carbohydrate metabolism of the normal term newborn: Plasma insulin and blood levels during an intravenous glucose tolerance test. *Obstet.Gynec.*, 30, 580.
- STEGMANN, H. and BECK, H. (1955) — quoted by von EULER, U., LARSSON, Y. and PERSSON, B. (1964). Glucose tolerance in the neonatal period and during the first six months of life. *Arch.Dis.Childh.*, 39, 393.
- SUTHERLAND, E.W. and RALL, T.W. (1960). The relation of adenosine - 3', 5' - phosphate and phosphorylase to the actions of catecholamines and other hormones. *Pharmacol. Rev.*, 12, 265.
- RANDLE, P.J., GARLAND, P.B., HALES, C.N. and NEWSHOLME, E.A. (1963). — quoted by ASHMORE, J. and WEBER, G. (1968). Carbohydrate metabolism in liver. Carbohydrate metabolism and its

- disorders. DICKENS, F., RANDLE, P.J. and WHELAN, W.J.  
Academic Press, London and New York, p.347.
- TOMIZAWA, H.H. TYBERGHEIN, J.M., HAFSEY, Y.D. and WILLIAMS, R.H.  
(1956). In vitro catabolism of protein hormone by liver:  
effect of other proteins on glycogenolytic action of  
glucagon. Fed.Proc., 15, 534.
- UNGER, R.H. (1971). Glucagon physiology and pathophysiology.  
New England. J.Med., 285, 443.
- VAN CREVALD, S. (1929). Carbohydrate metabolism of premature  
infants. I. The blood sugar during fasting. Amer.J.Dis.  
Child., 38, 912.
- von EULER, U., LARSSON, Y. and PERSSON, B. (1964). Glucose  
tolerance in the neonatal period and during the first six  
months of life. Arch.Dis.Childh., 39, 393.
- WACHTER, H.E. (1949). Hypoglycemia of the newborn infant.  
J.Missouri.Med.Ass., 46, 837.
- WALKER, D.G. (1968). Carbohydrate metabolism and its disorders,  
DICKENS, F., RANDLE, P.J. and WHELAN, W.J. Vol.1. Academic  
Press, London and New York, p.484-5.
- WARD, O.C. (1953). Blood sugar studies on premature babies.  
Arch.Dis.Childh., 28, 194.
- W.H.O. Technical Report (1961). Series No.217, Geneva.
- WIDDOWSON, E.M. and SPRAY, C.M. (1951). Chemical development in  
utero. Arch.Dis.Childh., 26, 205.