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## PEDIATRIC RESEARCH

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Volume 11, No. 8

August 1977

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### *Contents include*

#### Relationship between Maturity and Isoenzymes of Erythrocytic Carbonic Anhydrase in Newborn Infants

J. B. MOYNIHAN (Dublin, Ireland)

The present study was conducted to assess the activities of all three principal isoenzymes of human erythrocytic carbonic anhydrase in newborn infants in relation to their estimated gestational ages.

#### Glucose Homeostasis in Preterm Rhesus Monkey Neonates

W. G. SHERWOOD, D. E. HILL, AND  
G. W. CHANCE (Toronto, Ontario,  
Canada)

A primate model was employed to study the effects of prematurity on postnatal glucose homeostasis utilizing a radioactive tracer kinetic methodology.

#### Carnitine Content of Blood and Amniotic Fluid

P. HAHN, J. P. SKALA, D. W.  
SECCOMBE, J. FROHLICH, D. PENN-  
WALKER, M. NOVAK, I. HYNIE, AND  
M. E. TOWELL (Royal Oak, Michigan,  
and Vancouver, British Columbia,  
Canada)

The free carnitine levels determined in fetal blood and amniotic fluid from the 10th-40th week of gestation were found to decrease progressively in gestation but to be higher in cord blood than in maternal blood.

#### Negative Feedback Control of Neonatal Serum Creatine and Increased Urinary Creatinine Excretion after Enzyme-inducing Drugs

E. TALAFANT, A. HÔSKOVÁ, AND A.  
POJEROVÁ (Brno, Czechoslovakia)

Results of these studies indicate that rapid creatine input into the circulation in the first days of life causes depression of its formation, resulting in a slight decrease in the next few days and that phenobarbital with nikethamide increases urinary creatine excretion.

#### Plasma Somatomedin Activity in Normal and Scoliotic Children

G. S. G. SPENCER AND P. A. ZORAB  
(London, England)

Plasma somatomedin activity was measured in normal and scoliotic children

#### The Effect of Growth Hormone Deficiency and of Growth Hormone Substitution on Blood Volume and Red Cell Parameters

O. LINDERKAMP, O. BUTENANDT, T.  
MADER, D. KNORR, AND K. P. RIEGEL  
(Munich, Federal Republic of  
Germany)

This study on various form of dwarfism revealed a direct effect on growth hormone deficiency and substitution on blood volume and related hematologic parameters.

#### Catecholamine Release in the Newborn Infant at Birth

H. LAGERCRANTZ AND P. BISTOLETTI  
(Huddinge, Sweden)

Catecholamine concentrations in umbilical blood of the newborn were correlated with clinical condition, gestational age, pH, and fetal heart rate pattern.

#### Steroid Sulfatase Deficiency

L. J. SHAPIRO, L. COUSINS, A. L.  
FLUHARTY, R. L. STEVENS, AND H.  
KIYARA (Torrance and Pomona,  
California)

These authors have studied the placenta, cultured fibroblasts, and amniotic fluid cells from a patient with placental sulfatase deficiency.

#### Immunologic Studies in Cow's Milk-induced Pulmonary Hemosiderosis

H. A. STAFFORD, S. H. POLMAR, AND  
T. F. BOAT (Cleveland, Ohio)

Studies of possible immunologic mechanisms involved in the pathogenesis of milk-induced pulmonary hemosiderosis were undertaken in nine patients with precipitins to cow's milk.

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# Atopic Allergy?



a hereditary predisposition?

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When history and examination are equivocal the use of IgE as a parameter for atopic allergy either for diagnostic or predictive purposes should be decisive.

Kjellman, N-I Max: Immunoglobulin E and Atopic Allergy in Children. Linköping University Medical Dissertations 36, 1976.

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**NEWBORN INTENSIVE CARE: Chemical Aspects** by Toshiko Hirata and June P. Brady, both of Univ. of California, San Francisco, California. Forewords by Moses Grossman and I. Newton Kugelmass. Basic physiologic and chemical processes occurring in the fetus and newborn infant are explored and analyzed. Topics emphasized include the treatment of those problems most common in newborn infants, the effects of drugs on the fetus and neonate, and the unique physiology of the preterm infant. Basic information on cardiopulmonary adaptation and dysadaptation, and on the control of respiration, body fluids, electrolyte balance, temperature regulation and renal function is also presented. '77, 196 pp., 25 il., 14 tables, \$16.75

**THE HYPERACTIVE CHILD IN THE CLASSROOM** by Frank P. Alabiso, Milton Robinson and Associates, Springville, New York, and James C. Hansen, State Univ. of New York, Buffalo, New York. This comprehensive textbook presents an in-depth study and evaluation of the current literature on hyperactivity, and an overview of the hyperactive child in the classroom. Major emphasis is placed on understanding the primary characteristics as separate behaviors subject to the principles of learning theory, while treatment is described in terms of reinforcement strategies with recommendations for implementation within the classroom. '77, 336 pp., 10 il., \$15.75

**VISUAL IMPAIRMENT IN THE SCHOOLS** by Randall K. Harley, George Peabody College for Teachers, and G. Allen Lawrence, Vanderbilt Univ. School of Medicine, both of Nashville, Tennessee. The two sections of this book are designed to provide a foundation for the understanding of the medical problems and the educational implications of visual impairment in children. The medical section, written by an ophthalmologist, includes topics related to anatomy of the eye and special kinds of eye problems common to children. The second section, written by an educator, includes topics of current interest such as vision screening, the visual environment, optical aids, and visual learning. '77, 168 pp., 25 il., 1 table, \$10.75

**LEUKEMIA AND LYMPHOMA IN THE NERVOUS SYSTEM** edited by Carl Pochedly, Nassau County Medical Center, East Meadow, New York. Foreword by Alvin M. Mauer. (3 Contributors) An important breakthrough in the treatment of acute childhood leukemia occurred with the introduction of prophylactic central nervous system therapy. This book extensively reviews clinical manifestations of leukemia and lymphoma as they affect the nervous system, the pathophysiological mechanisms that give rise to these manifestations, and the rationale and techniques for prevention and treatment. Chapters are also included on histopathology, on cytological methods for examination of the cerebrospinal fluid, and on neurological complications due to leukemia therapy. '77, 248 pp., 42 il., 26 tables, \$23.50

**MULTIPLE SCLEROSIS — SCARS OF CHILDHOOD: New Horizons and Hope** by John M. Adams, UCLA School of Medicine, Los Angeles, California. Foreword by Robert A. Good. The first section of this volume deals with clinical aspects of concern to the patient, and includes chapters on the cause, prevention and treatment of multiple sclerosis. The latter half of the text discusses the extensive MS-related research currently being conducted. The tenor and information content of this book make it useful not only to the patient, but also to nurses, therapists, students of demyelinating diseases, and general physicians. '77, 96 pp., 1 il., \$8.95, paper

**Principles and Techniques of INTERVENTION WITH HYPERACTIVE CHILDREN** edited by Marvin J. Fine, Univ. of Kansas, Lawrence, Kansas. (11 Contributors) This collection of articles on the hyperactive child offers a concise and critical analysis of concepts, research findings and perspectives of intervention. The text examines various approaches to educational management; specific applications of behavior modification; medical treatment; applications of the basic transactional analysis theory; research on cognitive tempo in children; and definition and measurement of hyperactivity. '77, 328 pp., 44 il., \$21.50

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Organ der Deutschen Gesellschaft für Kinderheilkunde

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# STATISTICS AT SQUARE ONE

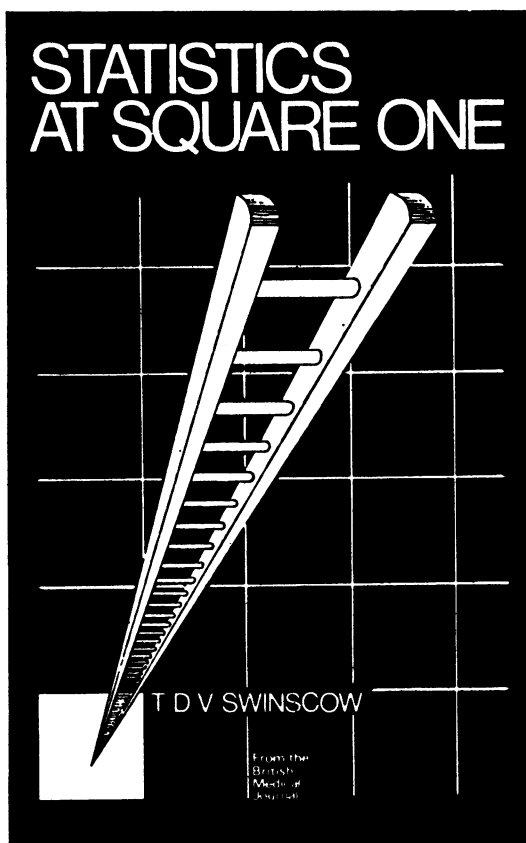
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from the British Medical Journal

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Murray, J. J., *British Dental Journal*, 1977, 142, 81.



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