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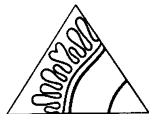
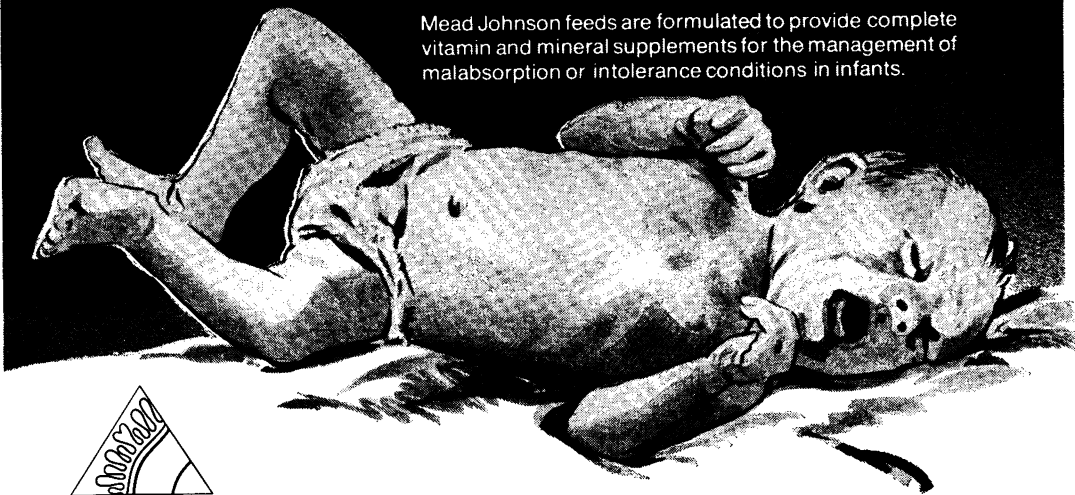
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PEDIATRIC RESEARCH

Volume 9, No. 6

June 1975

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Hemopexin Synthesis *in Vitro* by Human Fetal Tissues

U. MULLER-EBERHARD, H. H. LIEM, K. H. COX, AND T. P. CONWAY (La Jolla, California)

The concentration of hemopexin, albumin, and transferrin in fetal serum and the amount of these proteins synthesized by fetal tissues is determined by these investigators, who found significant synthesis of hemopexin and albumin only in the liver.

α -Ketoaciduria: A Description of a New Metabolic Error in Lysine-Tryptophan Degradation

R. W. WILSON, C. M. WILSON, S. C. GATES, AND J. V. HIGGINS (East Lansing, Michigan)

These investigators describe a mentally retarded male with elevated levels of α -aminoacidic and α -ketoacidic acids in his urine; their results suggest a new inborn error of metabolism involving the catabolism of lysine and tryptophan.

Fetomaternal Potassium Relations in the Fetal Rat of Twenty Days of Gestational Age

A. G. FANTEL (Seattle, Washington)

Studies undertaken by this scientist demonstrate that potassium concentrations in fetal rat plasma are considerably lower than those in maternal plasma; the fetal plasma levels are consistent with predictions based upon a passive transfer model.

Leukocyte Urea Cycle Enzymes in Hyperammonemia

D. M. WOLFE AND P. D. GATFIELD (London, Ontario, Canada)

Blood from patients with three hepatic urea cycle disorders was studied by these investigators who found that analysis of urea cycle enzymes in leukocytes may be useful in disease detection.

Interaction of Endogenous Growth Hormone, Cortisol, and Catecholamines with Blood Glucose in Children with Brittle Diabetes Mellitus

E. BRUCK AND M. H. MACGILLIVRAY (Buffalo, New York)

These studies document the sequences of hypoglycemia followed by hyperglycemia in diabetic children in response to excessive production of growth hormone and other antagonists of insulin; prompted by hyperglycemia, increasing administration of exogenous insulin results in a vicious cycle of hypoglycemia alternating with hyperglycemia (Somogyi syndrome).

The Use of Transfer Factor in a Patient with Agammaglobulinemia

N. M. ZALDIVAR, P. S. PAPA-GEORGIU, S. KAFFE, AND P. R. GLADE (New York, New York)

Transfer factor therapy is used by these workers in an attempt to alter the clinical course of a patient with agammaglobulinemia; their findings suggest that transfer factor may affect immunoglobulin synthesis.

The Effect of Increased Pulmonary Blood Flow on the Pulmonary Vascular Bed in Pigs

B. FRIEDLI, G. KENT, AND B. S. L. KIDD (Toronto, Canada)

Obligatory shunts in 1-month-old piglets were produced by these scientists by unilateral pneumonectomy, creation of systemic arteriovenous fistulas, or a combination of both in an attempt to identify changes in the pulmonary vasculature induced by high pulmonary blood flow.

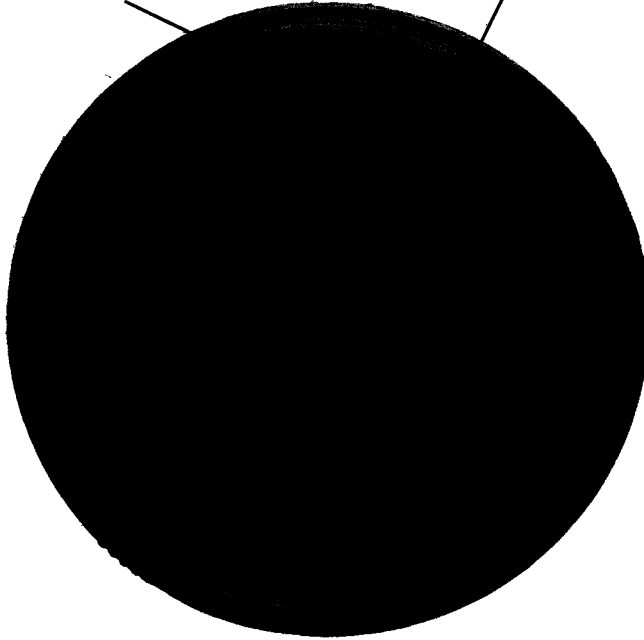
Citrullinemia: Enzymatic Evidence for Genetic Heterogeneity

N. G. KENNAWAY, P. J. HARWOOD, D. A. RAMBERG, R. D. KOLER, AND N. R. M. BUIST (Portland, Oregon)

The *in vitro* activity and kinetic properties of argininosuccinate synthetase were examined by these authors in three patients with citrullinemia.

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This is a virtual rewrite of the most important paediatrics text available. From the radically revised section on kidney disorders to today's most complete discussion of infectious diseases (covering 229 pages), the book offers encyclopaedic coverage of virtually every paediatric disease and disorder. A separate appendix concisely and accurately lists current drugs and paediatric dosage level. New sections include burns, drowning and near-drowning, atherosclerosis, hypertension, drug abuse, failure to thrive, problem-orientated record, prevention of psychologic disorders.

1876pp £18.39 539 Illustrations (4 plates in colour) Cloth Published February 1975.

Hematology of Infancy and Childhood

By David G. Nathan, MD, Chief, Division of Haematology, Children's Hospital Medical Centre, Boston; Professor of Paediatrics, Harvard Medical School. Frank A. Oski, MD, Professor and Chairman of the Department of Paediatrics, State University of New York, Upstate Medical Centre College of Medicine, Syracuse.

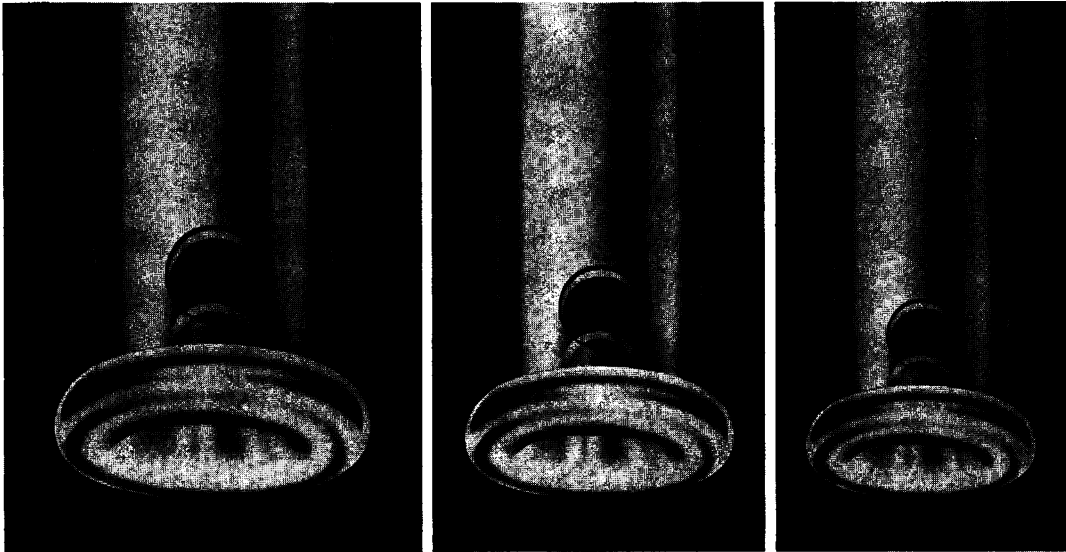
Hematology of Infancy and Childhood is a definitive new work emphasising the immunology, genetics and pathphysiology basic to the study of blood dyscrasias rather than a complete reliance on morphological considerations for analysis. Diagnosis and treatment of each disease is described in greater detail than other similar works. References that are thorough albeit selected, and clinical case histories accompany each chapter.

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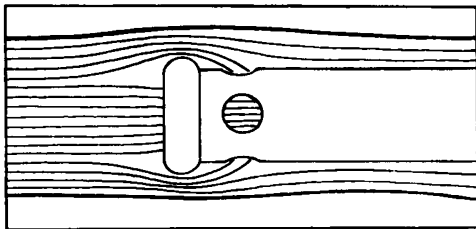
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Eine spanische Ausgabe dieser Zeitschrift erscheint bei
Editorial Lectura y Estudio, S. A., Barcelona

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PATHOLOGY AND SURGERY OF THE SALIVARY GLANDS by Jose Yoel, *Rawson Hospital, Municipal Post Graduate School of Medicine, Buenos Aires, Argentina. Forewords by Pierre Cernea, John Conley, Hector Marino and S. L. Perzik.* The clarity of the text matter in this book reveals a deep knowledge of the topic under consideration, based on a long and eclectic experience. Anatomy, physiology, pathology and semiology, instrumental and radiological exploration, and medical and surgical treatment of salivary gland diseases have been assigned ample chapters in which every detail has been clearly covered. Clear anatomophysiological sketches and magnificent illustrations of the operative stages clearly depict what the surgeon actually sees in the operative field. The author's punctilious attention to the surgery of tumoral processes does not lose sight of the possible morphological and functional repair of its consequences. Part I deals with fundamental concepts on embryology, histology, physiology and endocrinology and reviews the general pathology of the salivary glands and their diagnostic methods. Part II details the special pathology of the parotid gland and its excretory duct, the inflammatory condition, different salivary syndromes, lithiasis, primary and metastatic blastomas, as well as blastomas and pseudoblastomas of the parotid area. Parts III, IV and V are concerned with the special pathology of the submaxillary gland and its excretory duct, the special pathology of the sublingual gland, and the special pathology of the minor or accessory salivary glands. Each part contains a chapter on the surgical complications and sequelae. Operative techniques are shown in atlas form on the basis of photographs and notes taken by the artist present at the operation. Numerous photographs of patients as well as x-ray prints, including the reproduction of sialograms, contribute toward illustrating the subject matter. This treatise on the pathology and surgery of the salivary glands will find a wide acceptance since patients with salivary conditions are seen daily by clinicians and dentists, otolaryngologists, stomatologists, maxillofacial surgeons, plastic surgeons, neurologists and others. '75, 1446 pp. (7 x 10), 2074 il. (7 in full color), 6 tables, \$132.50

A PEDIATRIC PLAY PROGRAM: Developing a Therapeutic Play Program for Children in Medical Settings by Pat Azarnoff and Sharon Flegal, *both of the Univ. of California, Los Angeles. Foreword by T. Berry Brazelton.* This practical guide offers suggestions on starting a program, staffing and volunteers, justifying funding, training, involving parents and patients, liaison with members of the health care team, organizing the setting, and supplies and equipment. Problems related to typical low budgets and minimal staffing are also given attention along with the frequently heard objections toward a mentally healthy atmosphere for children. One section covers numerous therapeutic activities which can be done simply, with minimum staff and at low cost. The authors have provided a selected bibliography offering other ideas and suggestions and a listing of children's books. '75, 112 pp., 6 il., \$7.50, paper

CHILDREN'S SPATIAL DEVELOPMENT edited by John Eliot, *Univ. of Maryland, College Park, and Neil J. Salkind, Univ. of Kansas, Lawrence. (4 Contributors)* Comprised of four essays, this book discusses a status description of genetic studies of spatial behavior, a review of studies of neurological influences, a statement describing research on the language of space, and the relation of spatial development to the study of child development. Different research orientations are given along with abstractions of forty experiments involving children's spatial behavior. A large, comprehensive bibliography is offered on spatial ability and children's spatial development. Psychology, pediatrics and special education are a few of the many disciplines which will profit from this book. The sophisticated researcher and the scholar as well as the student will find much of interest in this text. '75, 312 pp., 19 il., 3 tables, \$23.50

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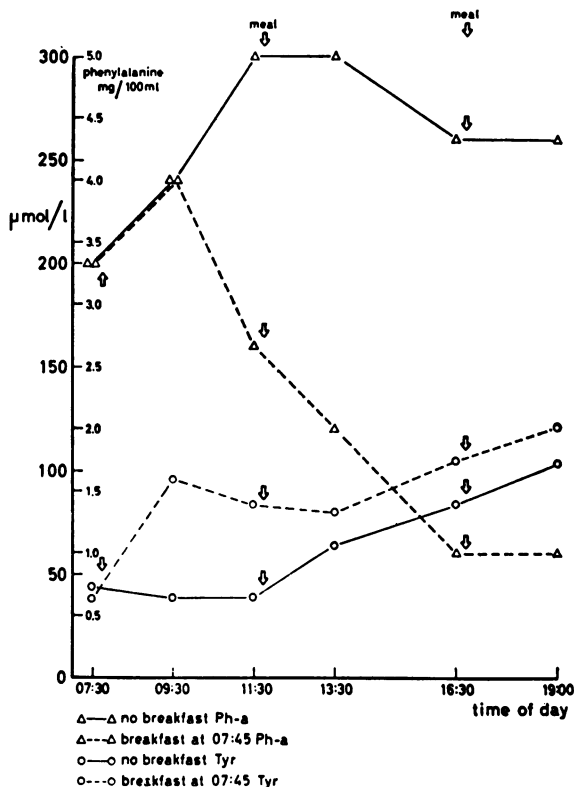
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