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## PEDIATRIC RESEARCH

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Volume 10, No. 10

October, 1976

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#### The Effect of Premature Delivery on the Development of Gluconeogenic Enzymes in the Guinea Pig

B. H. ROBINSON AND J. OEI  
(Toronto, Ontario, Canada)

These investigators examined the effect of premature delivery on glycemic status, on development of gluconeogenic enzymes, and on gluconeogenic capacity of newborn guinea pigs.

#### The Adaptation of the Fetal Red Cells of Newborn Lambs to Extruterine Life: The Role of 2,3-Diphosphoglycerate and Adult Hemoglobin

H. BARD, J.-C. FOURON, A. M. GROTHE, M. A. SOUKINI, AND A. CORNET (Montreal, Quebec, Canada)

The interrelationships between changes in 2,3-diphosphoglycerate, adult haemoglobin, and red cell oxygen affinity were evaluated during the post-natal period in newborn lambs.

#### D-Glyceric Acidemia: Biochemical Studies of a New Syndrome

S. KØLVRAA, K. RASMUSSEN, AND N. J. BRANDT (Aarhus and Copenhagen, Denmark)

The biochemical studies of a boy, presumably suffering from D-glyceric dehydrogenase deficiency, are described in detail.

#### Attempts to Induce Hepatic Uridine Diphosphate Glucuronyl Transferase in Genetically Deficient Gunn Rats by Grafting of Normal Liver Tissue

C. A. J. VAN HOUWELINGEN AND I. M. ARIAS (New York, New York)

Biochemical reconstitution of Gunn rats deficient in UDP (bilirubin) activity was attempted by the grafting of normal liver into genetically deficient rats.

#### Metabolic and Hormonal Responses to a Protein-Glucose Meal in Normal Infants and in Marasmus and Marasmic Kwashiorkor

G. G. GRAHAM, J. NAKASHIMA, R. G. THOMPSON, AND R. M. BLIZZARD (Lima, Peru and Baltimore, Maryland)

The response of blood sugar, plasma immunoreactive insulin, plasma growth hormone, and plasma free fatty acids was evaluated in infants with marasmus and marasmic kwashiorkor after a protein-glucose meal.

#### A Behavioral Phenotype in the de Lange Syndrome

H. G. JOHNSON, W. L. NYHAN, C. SHEAR, P. EKMAN, AND W. FRIESEN (San Francisco and San Diego, California and Miami, Florida)

This study attempts to define rigorously a behavioral phenotype for a group of patients affected by the de Lange syndrome.

#### Development of Guanylylimidodiphosphate-dependent Activation of Adenylate Cyclase by Glucagon in the Neonatal Rat Heart

E. A. YOUNT, J. F. CLARK, AND C. M. CLARK, JR. (Indianapolis, Indiana)

Results of this study demonstrate that guanylylimidodiphosphate facilitates the activation of adenylate cyclase by glucagon in the neonatal rat heart.

#### Riboflavin and Bilirubin Response during Phototherapy

J. A. PASCALE, L. C. MIMS, M. H. GREENBERG, D. S. GOODEN, AND E. CHRONISTER (Tulsa, Oklahoma)

The knowledge that riboflavin enhances the photodecomposition of bilirubin has been applied to phototherapy for neonatal hyperbilirubinemia using blue light energy in a predictable dose-response relationship.

#### Introduction of Dr. Clement A. Smith for the John Howland Award (From the American Pediatric Society, April 28, 1976, St. Louis, Missouri)

M. E. AVERY (Boston, Massachusetts)

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## Pitman Medical



### **EARLY NUTRITION AND LATER DEVELOPMENT**

*Edited by A. W. WILKINSON*

The future of a child may be greatly influenced by the way in which it has been fed from birth onwards. Further, the placenta and the environment of the fetus may be important factors in the subsequent development of the child after birth.

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### **DISEASES OF THE SMALL INTESTINE IN CHILDHOOD**

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### **TOPICS IN PAEDIATRIC GASTROENTEROLOGY**

*J. A. DODGE*

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Edited by ROSS G. MITCHELL

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The book is written by a group of distinguished authors with wide knowledge and practical experience of health, social and educational services for children, both in this country and overseas.

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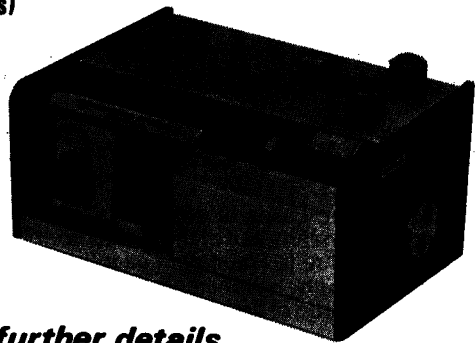
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## PROBLEMS OF CHILDHOOD

While in paediatrics the spotlight has, perhaps, swung recently on to behavioural and psychological aspects of child development, much of the clinician's time is still spent with acute and chronic physical disorders. Both these aspects of medical problems in childhood were reviewed in a series of *BMJ* articles published early in 1976, and these have now been collected together after further revision by their authors. We hope the collection will prove useful to doctors at all stages of their careers: for children occupy a great deal of the time of every general practitioner, and confidence in their care demands both experience and knowledge.

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# Monatsschrift für Kinder- heilkunde

Organ der Deutschen Gesellschaft für Kinderheilkunde

124. Band · Heft 10 · Oktober 1976

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

Mscr.  
Kinderheilk.

Springer-Verlag Berlin Heidelberg New York

JSSN 0026-9298 MOKIAY 124 (10) 679-722 (1976)