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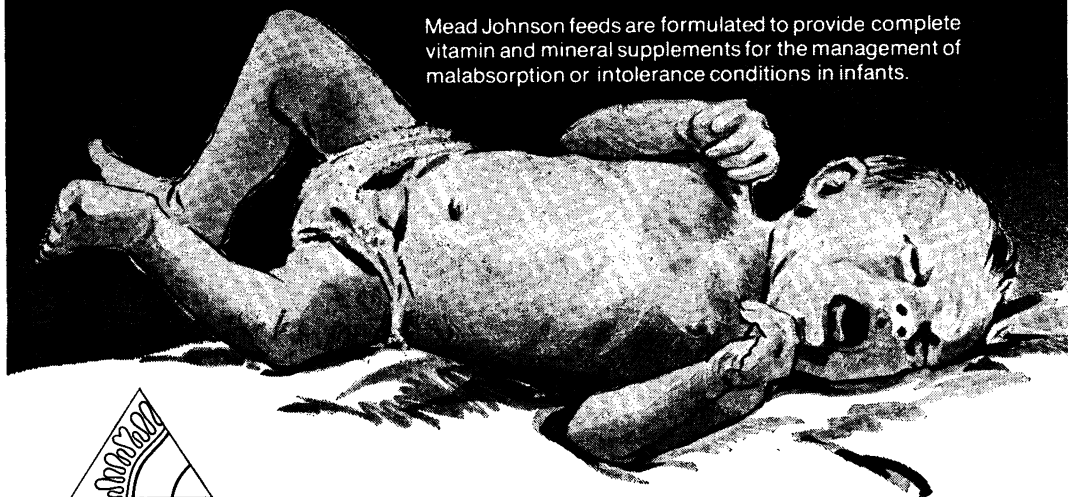
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## PEDIATRIC RESEARCH

Volume 9, No. 12

December 1975

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## Some Biochemical Effects of Chloral Hydrate in an Infant with a Tyrosinemia-like Syndrome

R. W. E. WATTS, R. A. CHALMERS, M. M. LIBERMAN, and A. M. LAWSON (Harrow, Middlesex, England)

A patient with features resembling hereditary tyrosinemia is reported with indirect biochemical evidence of reduced 4-hydroxyphenyl pyruvate dioxygenase activity.

Somatic-Respiratory Reflex and Onset of Regular Breathing Movements in the Lamb Fetus *in Utero*

S. CONDORELLI and E. M. SCARPELLI (Bronx, New York)

This report describes the existence of a peripheral nerve-respiratory reflex and the generation of sustained spontaneous regular breathing movements in the fetus before birth.

## Serum Glutathione Reductase and Cystic Fibrosis

B. L. SHAPIRO, Q. T. SMITH, and W. J. WARWICK (Minneapolis, Minnesota)

The elevated serum glutathione reductase (GR) activities detected in cystic fibrosis subjects are interpreted to suggest that GR may be involved in the pathogenesis of cystic fibrosis.

## Enzymatic Adaptations by Cultured Adipocytes of Human Infants and Children: Effect of Obese Serum on the Activities of Lactate-, Malate-, and Glucose-6-phosphate Dehydrogenases

F. O. ABEONOJO (Philadelphia, Pennsylvania)

The maturation of intracellular enzymes was compared in cultured adipocytes and fibroblasts of human infants and children and the effect of serum from obese children measured.

## Assessment of Left Ventricular Function in Secundum Atrial Septal Defect: Evaluation by Determination of Volume, Pressure, and External Systolic Time Indices

A. R. LEVIN, P. R. LIEBSON, K. H. EHLERS, and B. DIAMANT (New York, New York)

Children with secundum atrial septal defects were studied to determine whether subtle left ventricular dysfunction could occur in the absence of overt right or left ventricular failure.

## Determination of Phenylalanine Hydroxylase Activity in Patients with Phenylketonuria and Hyperphenylalaninemia

K. BARTHOLOMÉ, P. LUTZ, and H. BICKEL (Heidelberg, Germany)

Phenylalanine hydroxylase activities are described in a group of children with phenylketonuria and hyperphenylalaninemia.

Ligandin Reverses Bilirubin Inhibition of Liver Mitochondrial Respiration *in Vitro*

K. KAMISAKA, Z. GATMAITAN, C. L. MOORE, and I. M. ARIAS (Bronx, New York)

The role of ligandin in protecting rat liver mitochondria against the deleterious effects of bilirubin on respiration and oxidative phosphorylation was investigated.

## Effect of 2-Methylcitrate on Citrate Metabolism: Implications for the Management of Patients with Propionic acidemia and Methylmalonic aciduria

S. CHEEMA-DHADLI, C. C. LEZNOFF, and M. L. HALPERIN (Toronto and Downsview, Ontario, Canada)

The inhibitory effects of 2-methylcitrate on enzymes of the citric acid cycle and the mitochondrial citrate transporter were investigated.

## Sphingomyelinases in Human Tissues. II. Absence of a Specific Enzyme from Liver and Brain of Niemann-Pick Disease, Type C

J. W. CALLAHAN, M. KHALIL, and M. PHILIPPART (Toronto, Ontario, Canada, and Los Angeles, California)

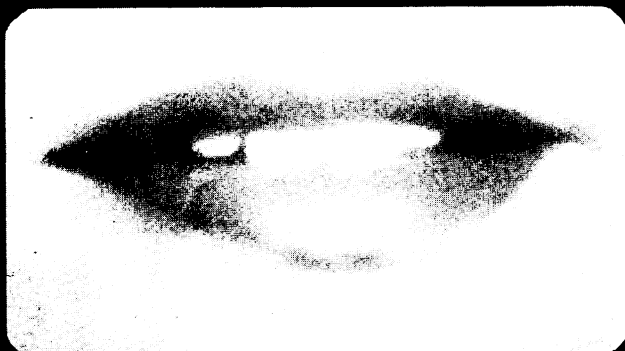
Additional data on the liver enzymes are presented, and observations are extended to the brain of two additional cases of type C Niemann-Pick disease.



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illustrations. About £20.00

### **Neonatology**

#### **Pathophysiology and Management of the Newborn**

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pages, 420 illustrations. Lippincott, £40.25

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**PEDIATRIC SCREENING TEST** edited by William K. Frankenburg and Bonnie W. Camp, *Univ. of Colorado Medical Center, Denver*. (71 Contributors) Criteria for selecting diseases and screening tests are reviewed in this text and specific information about diseases and screening in areas of pathophysiology, special sensory defects and psychopathology is provided. The basic list of diseases recommended for screening was developed from conditions for which the American Academy of Pediatrics recommends routine evaluation in healthy children. Certain diseases such as lead poisoning were added due to current widespread interest. '75, 564 pp. (6 3/4 x 9 3/4), 14 il., 32 tables, \$24.75

**A PEDIATRIC PLAY PROGRAM: Developing a Therapeutic Play Program for Children in Medical Settings** by Pat Azarnoff and Sharon Flegel, *both of the Univ. of California, Los Angeles*. Foreword by T. Berry Brazelton. This book tells how to set up a therapeutic play program for children in hospitals and clinics. It gives practical suggestions and advice on how to treat the child, respecting his individual abilities and needs. '75, 112 pp., 6 il., \$7.50, paper

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2. Acta neurol.scand.,1973,49(Suppl.53),26

3. Develop.Med.Child Neurol.,1972,14,3

4. Epilepsia(Amst.),1971,12,197

5. Acta neurol.scand.,1973,49(Suppl.53),91

6. S.Afr.med.J.,1973,47,1683



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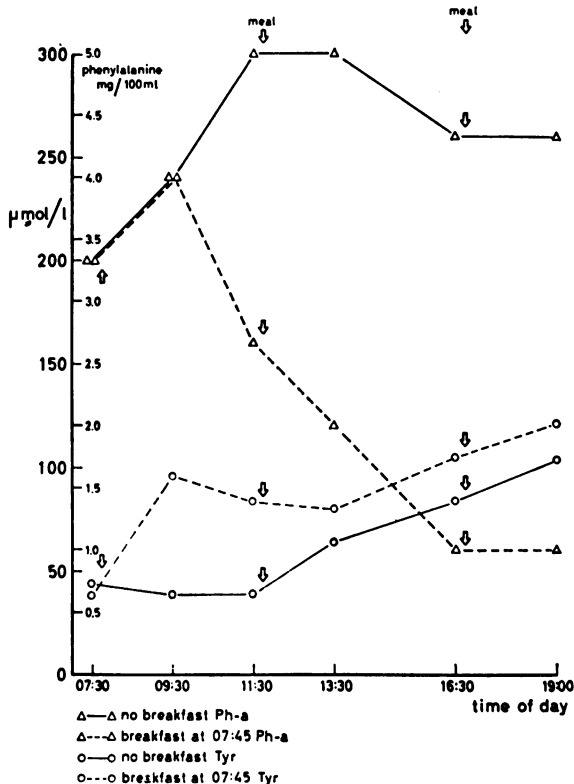
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