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i



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President New York

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#### January 1961

Editor Charles D. May 667 Madison Ave. New York 21, N.Y.	CONTENTS Commentary	
Editorial Board	Pyuria in Infancy often Indicates a Malignant Process	1
William L. Bradford Rochester, N.Y.	Articles	
Randolph K. Byers Boston	The Presenting Manifestations of Obstructive Urinary Anomalies in Children-John H. McGovern, M.D	3
<b>John Caffey</b> New York	A Comparative Study of Bacterial Cultures and Colony	
Barton Childs Baltimore	Counts in Paired Specimens of Urine Obtained by Catheter Versus Voiding from Normal Infants and	
<b>J. Harry Ebbs</b> Toronto	Infants with Urinary Tract Infection–Charles V. Pryles, M.D., Dieter Lüders, M.D., and Mustafa K. Alkan, M.D	17
Lytt I. Gardner Syracuse, N.Y.		11
Harry H. Gordon Baltimore	Neonatal Ascites and Obstructive Uropathy. A Case Report with Four-year Follow-up-Kurt Marx, M.D., and W. Andrew Dale, M.D	29
Horace L. Hodes New York	Value of Hyposensitization Therapy for Perennial	
Norman Kretchmer San Francisco	Bronchial Asthma in Children-Douglas E. John- stone, M.D., and Lee Crump, Ph.D.	39
<b>R. J. McKay, Jr.</b> Burlington, Vt.	Evidence for Familial Allergy. A Study of 50 Children	
<b>Nelson K. Ordway</b> New Haven	and Their Parents-George T. Critz, M.D	45
Julius B. Richmond Syracuse, N.Y.	Contact-type Delayed Hypersensitivity in Infants and Children: Induction of Rhus Sensitivity-William L.	
<b>Irving Schulman</b> Chicago	Epstein, M.D.	51
Edward B. Shaw San Francisco	Childhood Tuberculosis: Clinical Value of the Electro- phoretic Pattern of the Serum Proteins-Rosa Lee	
Willam McL. Wallace Cleveland	Nemir, M.D., Charlotte Marker Zitrin, M.D., Paras- kevi Tsouros, M.D., and Enriqueta Melly, M.D	54
Myron E. Wegman Ann Arbor, Mich.	(Continued on page iv)	
Samuel M. Wichik		

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Spring Session30th AnnualApril 10-12, 1961October 2-5, 1961Sheraton-Park, WashingtonPalmer House, Chicago

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REFERENCES: 1.) Council on Dental Therapeutics: Prescribing Supplements of Dietary Fluorides. J. Am. Dental Assoc. 56:589 (April) 1958. 2.) Trieger, N.: Fluoride Administration: Role of the Pediatrician. Delivered at New England Pediatrics Society Meeting, Boston, March 16, 1960. 3.) Council on Foods and Nutrition: Vitamin Preparations as Dietary Supplements and as Therapeutic Agents. J.A.M.A. 169:110 (Jan. 3) 1959. 4.) May, C. D.: Editorial. Pediatrics 23:833 (May) 1959. 5.) Sebrell, Jr., W. H.: Vitamins in Medical Practice. Seminar Report. 3:2. (Fall) 1958. 6.) Smith, D. W., Blizzard, R. M. and Harrison, H. E.: Idiopathic Hypercalcemia. Pediatrics 24:268 (August) 1959).



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The "exquisite sensitivity"<sup>2</sup> of the medulla to infection (as compared with the cortex), highlights the importance of obstruction to the urine flow in the pathogenesis of pyelonephritis. "There is good cause to support the belief that many, perhaps most, cases of human pyelonephritis are the result of infection which reaches the kidney from the lower urinary tract."<sup>3</sup>



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References: 1. Schreiner, G. E.: A.M.A. Arch. Int. M. 102:32, 1958. 2. Freedman, L. R., and Beeson, P. B.: Yale J. Biol. & Med. 30:406, 1958. 3. Rocha, H., et al.: Yale J. Biol. & Med. 30:341, 1958.



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most bacterial infections seen in everyday practice

(7)

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ORAL SUSPENSION

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Reliable oral antibiotic for the treatment of infections caused by most gram-positive organisms, including many staphylococci resistant to other antibiotics. The bacterial spectrum of CYCLAMYCIN reduces risk of diarrhea and gastrointestinal superinfections.

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quickly returned him to his job...



for an added measure of assurance



#### Reliable Absorption Promises Consistent Effectiveness

Numerous investigators have shown that the absorption of ora antibiotics varies not only from subject to subject, but also in the same subject at different times. To provide a high degree of thera peutic assurance, therefore, requires an antibiotic that is on the average well absorbed. High absorption, of course, implies high serum concentrations which, in turn, means an increased likelihood that tissues will be supplied with adequate antibiotic.

The absorption of phenethicillin potassium (DARCIL) has been investigated both by studies of serum concentrations and urinary excretion rates.

Maximum Absorption Indicated by Prompt, High Peak Serum Levels. Blood level studies demonstrate the reliable absorption of phenethicillin potassium. In studies employing single oral doses of 250 mg. of phenethicillin potassium, Morigi and associates<sup>1</sup> determined that peak serum levels of the antibiotic were attained within an hour after ingestion; assayable levels were maintained for 4 to 6 hours. Knudsen and Rolinson,<sup>2</sup> among others have also demonstrated that phenethicillin potassium produces unusually high blood levels.

Serum Levels Directly Reflect Dose Levels. Cronk and associates<sup>3</sup> performed an interesting experiment that emphasizes the absorption of phenethicillin potassium. Phenethicillin potassium was given to healthy adults in progressively increasing doses. The resultant serum levels were directly proportional to the doses given

Average Serum Concentration 1/2 Hr. after Administration			
Dose (Mg.)	Mcg./Ml.	Units/Ml.	
134	2.72	4.35	
268	4.28	6.85	
536	8.15	13.0	
804	12.3	19.7	
1072	19.1	30.6	
2144	39.6	63.4	

Therefore, when treating a patient with a severe infection, the physician may, by adequately increasing the dose, produce serum concentrations that should be sufficiently great to affect less susceptible pathogens.

**Excellent Absorption Indicated by Urinary Excretion Studies.** Knudsen and Rolinson,<sup>2</sup> in a study of 9 fasting subjects reported that a mean of 60% of the dose of phenethicillin potassium was excreted in the urine within 6 hours after ingestion of the drug Cronk and associates<sup>3</sup> found a lower, although still high, rate: 24 to 35% of a given dose of phenethicillin potassium was excreted in the first 6 hours; almost three-quarters of this percentage was excreted in the first 2 hours alone. Morigi and associates<sup>4</sup> collected urines of 10 healthy subjects at 6-hour intervals following a dose given one hour before meals. As can be seen, the excretory rate of phenethicillin potassium reflects prompt absorption and utilization.

Average Urine	<b>Concentrations Following a Sing</b>	gle
Oral Dose of	250 mg. Phenethicillin Potassium	n

	0-6 Hrs.	6-12 Hrs.	12-24 Hrs.
phenethicillin potassium	30.9%	0.4%	0%

References: 1 Morigi, E.M.E., Wheatley, W.B., and Albright, H.: Antibiotics Ann., 1959-60, pp. 127-132. 2. Knudsen, E.T., and Rolinson, G.N.: Lancet 2:1105 (Dec. 19) 1959. 3. Cronk, G.A., Naumann, D.E., Albright, H., and Wheatley, W.B.: Antibiotics Ann., 1959-1960, pp. 133-145.

**SUPPLIED:** DARCIL Tablets (peach colored, scored)-250 mg. (400,000 units), 125 mg. (200,000 units) phenethicillin potassium, bottles of 36 and 100. DARCIL for Oral Solution-125 mg. (200,000 units) phenethicillin potassium per 5 cc. teaspoonful, bottle of powder to be reconstituted to 60 cc.

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consistently high peak serum levels

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- 8. other essential B complex factors and vitamin C.
- 9. delicious fruity flavor.
- 10. no burps . . . no fish oil taste or odor . . . allergens removed.

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In some patients it may be desirable to adjust dosage to meet individual requirements. For complete details on indications, dosage, administration, and clinical background, see the brochure on Tacaryl, available on request from Mead Johnson & Company, Evansville 21, Indiana.

supplied: Syrup, 4 mg. per 5 cc. teaspoonful, 16 oz. bottles. Scored tablets, 8 mg., bottles of 100.

\*Howell, C. M., Jr.: North Carolina M. J. 21:194-195 (May) 1960.



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#### helps remove the cause of cough'

Glyceryl guaiacolate (Robitussin) exerts "the most intense and prolonged"<sup>2</sup> expectorant action "of practically all drugs presently used clinically as expectorants."<sup>2</sup>

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Thus Robitussin increases the probability that a cough will achieve its natural purpose—i.e., to remove irritants such as exudates and mucus from the respiratory tract.<sup>1,4,5</sup>

**Teferences:** 1. Blanchard, K., and Ford, R. A., J.-Lancet, 74:433, 1954. 2. Cass, L. J., and Frederik, W. S., Am. Pract. Dig. Treat., 2:844, 1951. 3. Hayes, E. W., and Jacobs, L. S., Dis. Chest, 30:441, 1956. 4. Blanchard, K., and Ford, R. A., Clin. Med., 3:961, 1956. 5. Blanchard, K., and Ford, R. A., Rocky Mt. M. J., 52:278, 1955. 6. Boyd, E. M., et al., Can. M. Assoc. J., 54:216, 1946.

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#### NONSTAINING GREASELESS WASHABLE

Available in 1½ oz. tubes and 3 oz. economy-size tubes.

1. Susca, L. A., and Geuting, B. G.: Treatment of diaper rash, New York J. Med. 60:2858, 1960. 2. Levine, A. J., et al.: Influence of amino acid therapy in chronic idiopathic pruritus ani, Gastroenterology 35:409, 1958. 3. Review: Requirements for sulfur amino acids, Nutrition Rev. 17:74, 1959. 4. Christian, J. R., and Gonzalez, F. A.: The topical treatment of acute and chronic diaper rash with an amino acid cream, Clin. Med., in press. 5. Editorial: Diaper rash, J. A. M. A. 165:254, 1957.

\*TRADEMARK OF THE BORDEN COMPANY



Pharmaceutical Division, 350 Madison Avenue, New York 17, N. Y.





satisfied

## with seldom a hungry cry

"Personal experience with the hunger of infants fed even 3.5 Gm. [of protein] per kilogram makes us unwilling to recommend intakes of cow's milk which would give less protein. Although the determinants of food intake are complex, the possibility exists that unmet nutritional needs may make the intake of 3.5 Gm. and more of cow's milk protein necessary..."\*

LACTUM (liquid and 'instant' powder) supplies the high protein level of modified milk formulas that has been used so successfully in the feeding of infants. In Lactum 16% of total calories is derived from protein.

\*Gordon, H. H., and Ganzon, A. F.: J. Pediat. 54: 503 (April) 1959.

for those who prefer higher protein levels



Modified milk formula



Mead Johnson Symbol of service in medicine

## CLINICAL REPORT

#### SUBJECT: On a Specific Benefit of Meat in the Infant Diet

Sector Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contractor Contra

"Weight gain in the meat-fed group was significantly increased, with the greatest increment occurring in those fed meat under 2 months of age. There was likewise a slightly greater average increase in height in the same group."

> Excerpt from "Evaluation of Meat in the Infant Diet," H. M. Jacobs & G. S. George, Pediatrics, Vol. 10, Pg. 470. Available on request.



Physicians in leading universities, hospitals and research organizations have carried on a series of clinical studies, feeding Swift's Meats for Babies to young infants. Reports of these studies have led to a greater appreciation of the benefits of meat in the infant diet.



In answering advertisements please mention PEDIATRICS xxiv MILK PROTEIN ALLERGY or just SENSITIVITY/ INTOLERANCE to butterfat or added carbohydrate?

The close similarity of many symptoms of milk protein allergy to those of an intolerance to the butterfat and added carbohydrate of cow's milk formulas creates an annoying problem.

A recent survey by Fries on the incidence of milk allergy has shown that only about 3 infants per thousand are actually allergic to cow's milk protein.<sup>1</sup>

In a study of 90 fussy, irritable babies, Breslow found that in 11% the symptoms were relieved by replacing the butterfat. An additional 30% showed an intolerance to added carbohydrate, while only 10% exhibited a milk protein allergy.<sup>2</sup>

This suggests that a trial feeding period with a milk formula containing a replaced fat and no added carbohydrate could differentiate between digestive disturbances caused by a true milk protein allergy, and those resulting from an intolerance to butterfat or added carbohydrate.

Such a trial would often eliminate the necessity of placing the infant on a milk substitute and allay the mother's natural concern for her supposed milk-allergic baby.

Varamel, with a replaced fat and no added carbohydrate, is an ideal formula for this diagnostic procedure.

Varamel is the flexible formula made from Grade A milk in which the butterfat has been replaced by vegetable fats, and to which no carbohydrate has been added. *IT IS UNIQUE*.



The flexible formula made by

THE BAKER LABORATORIES, INC.

Cleveland 15, Ohio

1. Fries, J. H.: J. A. M. A. <u>165</u>: 1542 (1957)

2. Breslow, Lawrence: J. Ped. 50: 196 (1957)

OPTIMUM NUTRITION Providing all the normal dietary requirements plus a reserve for stress situations.



#### IF YOU'VE EVER HAD A YOUNGSTER SQUIRM AT MEDICINE-TIME, YOU'LL APPRECIATE

## Erythronycin, Abbott) Oral Suspension

Maybe taste isn't the most important thing when you're giving an antibiotic. But where children are involved...when a dosage schedule is jeopardized because the patient will have none of you, the medicine **or** the persuasion ... having an elegant suspension like Erythrocin Ethyl Succinate may make a decisive difference in the course of treatment.

The flavor is sweet citrus. **Gone completely is that familiar antibiotic "bitterness"**—a distinct achievement, because erythromycin is inherently a very bitter substance.

At the therapeutic level, effective serum antibacterial activity occurs within 30 minutes, peak concentrations within one hour. And in a high percentage of cases, this bactericidal activity continues to be effective against many staphylococci that resist penicillin and certain other antibiotics.

Dosage for infants and little children is 30 mg./Kg./day. For older children and adults, 1 to 2 Gm. daily, depending on severity of infection. Each tasty teaspoonful represents 200 mg. of erythromycin activity. Won't you try Erythrocin—soon?



## Medically Accepted in so many restricted fat diets



The page here reproduced appears in the Diet Manual of the hospitals associated with Northwestern University Medical School, a distinguished teaching center.



In diet manuals of medical teaching centers throughout the United States eggs are included in restricted fat diets.

This suggestion is based on the high overall nutritional value of eggs. The quality of egg protein is a standard against which other food protein is measured. The ratio of saturated to unsaturated fatty acids in egg yolk is in keeping with present-day thinking on this subject. The vitamin-mineral content supplies essentials for daily needs.

Eggs, one of the best sources of needed nutrients, fit into virtually every diet, including restricted fat, low sodium, low fiber, many other restricted diets, and of course the normal diet for all ages.

The nutritional statements made in this advertisement have been reviewed by the Council on Foods and Nutrition of the American Medical Association and found consistent with current authoritative medical opinion.



Poultry and Egg National Board 8 South Michigan Avenue, Chicage 3, Illinois

In answering advertisements please mention PEDIATRICS xxviii Mead Johnson is pleased to announce new, improved VI-SOL' vitamins, carefully reformulated to provide rational, practical, safe levels of C, D and A, to fit the needs of today's pediatric practice.



Symbol of service in medicine

## Mead Johnson is pleased to announce new revised formulations for the VI-SOL<sup>®</sup> vitamins

The new Vi-Sol vitamin formulations are authoritatively based, but practically modified to meet the needs of everyday practice.

In light of current concern over vitamin levels, to determine practical, realistic formulations of vitamins needed for good nutrition, practicing physicians were extensively questioned about their patterns of usage of many types of nutritional products. In addition, scientific studies in nutrition were analyzed; progress in food technology was evaluated, and changing dietary patterns, particularly those of the infant, beginning with the critical newborn period, were reviewed.

The new Vi-Sol formulations are both practical and authoritative. They were formulated after careful consideration was given to the recommendations of the National Research Council, and the Council on Foods and Nutrition of the American Medical Association. They have been reformulated with meticulous care to provide practical, rational, safe levels of vitamins C, D and A.

## Here is how the VI-SOL® vitamins have been reformulated to fit the needs of today's pediatric practice

The requirements for vitamin C increase as the child grows older

New Vi-Sol drops provide more generous vitamin C levels

Vitamin C established at 60 mg./day in Vi-Sol drops



This level provides more generous vitamin C for the premature infant, assured protection for the full-term infant, and provides full protection even throughout the preschool years.

#### The requirement for vitamin D never varies

Levels established for the infant of one month are exactly the same as for the child of six years.

#### New Vi-Sol drops provide the exact amount recommended

Vitamin D established at 400 units/day in new Vi-Sol drops



A safe level of vitamin D for the babies who also receive D in their homogenized milk formulas; assured protection for those infants *not* receiving D in their formulas. The requirement for vitamin A increases as the infant grows older

New Vi-Sol drops have been adjusted to the baby's practical needs because of fluctuating levels received from foods

Vitamin A established at 3,000 units/day in new Vi-Sol drops



A safe and adequate level of vitamin A is provided for all infants whatever the level of vitamin A from other food sources.

B vitamins in Poly-Vi-Sol<sup>\*</sup> and Deca-Vi-Sol<sup>\*</sup> remain as before.

(1) Recommended Daily Dietary Allowances established by the National Research Council, and endorsed by the Council on Foods and Nutrition of the American Medical Association, "Vitamin Preparations As Dietary Supplements and As Therapeutic Agents," J.A.M.A. 109:41-45 (Jan. 3) 1959.

## **VI-SOL**<sup>®</sup> vitamins– with new rational, practical, safe levels of vitamins C, D and A

Beginning with the critical newborn period and continuing through the preschool years, Vi-Sol drops supplement and complement the differing dietary patterns of the infant and growing child. Vi-Sol drops are designed to provide conservative yet assured protection as the baby progresses from formula feeding to solid food, on into the preschool years.

Comparable improvements have also been made in levels of C, D and A now offered in Vi-Sol chewable vitamin tablets.

	Tri-Vi-Sol <sup>e</sup>		Poly-Vi-Sol*		Deca-Vi-Sol*	
	Drops	Chewable Vitamins	Drops	Chewable Vitamins	Drops	Chewable Vitamins
Vitamin C (mg.)	60	75	60	75	60	75
Vitamin D (units)	400	400	400	400	400	400
Vitamin A (units)	3,000	4,000	3,000	4,000	3,000	4,000
Thiamine (mg.)			1	1.2	1	1.2
Riboflavin (mg.)			1.2	1.5	1.2	1.5
Niacinamide (mg.)			8	15	8	15
Pyridoxine (mg.)					1	1.2
Panthenol (mg.)					3	5
B12 (mcg.)					1	3
Biotin (mcg.)					30	40

#### **NEW IMPROVED VI-SOL<sup>®</sup> VITAMINS**

\*Also available in teaspoon dosage





### WOOD is WONDERFUL ...for woodpeckers

but certainly not as a toilet wipe when anal areas are sensitive. Unlike harsh, dry wood pulp toilet papers, Tucks are soft cotton flannel pads mildly medicated with witch hazel (50%) and glycerin (10%). Tucks are ideal for routine toilet care when treating pruritus ani et vulvae, diaper rash, hemorrhoids, following episiotomy or hemorrhoidectomy, and in other anorectal conditions. Tucks cleansing, mildly astringent action hastens healing and helps assure patient comfort. Tucks are available at busy prescription pharmacies everywhere in jars of 40 and 100.





In answering advertisements please mention PEDIATRICS

# a major improvement i POILIONIYIEILIIIIE VACCINE POLIONIYIEILIIIIE

#### MORE HIGHLY PURIFIED

PURIVAX Poliomyelitis Vaccine contains less monkey kidney protein than does commercial Salk vaccine. Consequently, the possibility of allergic sensitization is minimized.

Standardization is achieved by precise physical (rather than biological) methods so as to produce a uniform quantity of inactivated antigen in each dose.

#### MORE RAPID PROTECTION

PURIVAX Poliomyelitis Vaccine provides immunity in a higher percentage of patients who complete only *two* of the recommended three-dose series; this results in an earlier establishment of immunity in a significant proportion of patients.

Immunity in all patients who received *three* doses of PURIVAX Poliomyelitis Vaccine has been reported.\*

#### **GREATER SAFETY**

PURIVAX Poliomyelitis Vaccine induces high antibody titers against all three types of poliomyelitis virus. Moreover, the highly virulent Mahoney strain of type 1 has been replaced by the less virulent Parker strain for even greater safety.


Dosage and Administration: It is recommended that three injections (intramuscular or subcutaneous) of 0.5 cc. each be given, with an interval of 4 to 6 weeks between the first and second injection. The third injection should be administered 7 months or more after the second injection.

The preferred procedure is to complete immunization before the season when poliomyelitis characteristically increases. However, the vaccine may be administered throughout the summer season. Special circumstances such as exposure to the disease, tonsillectomy, or trauma are not considered contraindications. *Supplied*: 2-cc. vials.

\*Hilleman, M. R., Charney, J., Tytell, A. A., Weihl, C., Cornfeld, D., Ichter, J. T., Riley, H. D., Jr. and Huang, N.: Investigation into the development and clinical testing of a poliomyelitis vaccine containing standardized amounts of purified poliomyelitis virus antigens, 1960 Symposium on Polio Vaccines, Newark, New Jersey, April 20, 1960. Academy of Medicine of New Jersey Bulletin, July 1960. For additional information, write Professional Services, Merck Sharp & Dohme, West Point, Pa.

MERCK SHARP & DOHME, DIVISION OF MERCK & CO., INC., WEST POINT, PA.

PURIVAX is a trademark of Merck & Co., Inc.



Oatmeal breakfasts are naturally nutritious help speed recovery after "flu"

or colds

Quaker Oats and Mother's Oats are the same fine product.



When you recommend hot Oatmeal, mother will remember that it is a *naturally* nutritious food, rich in protein, thiamine and minerals. She knows it makes a breakfast the patient will enjoy. And she knows this is precious extra care which only mother can provide.

Each ounce of Quaker Oats provides 110 calories, 16.7% protein, 6.9% fat, 62.4% carbohydrates, and 1.5% roughage (crude fiber).Quaker Oats with milk contributes substantially to the dietary allowances recommended for thiamine, riboflavin, niacin and iron. Rich in phosphorus, low in sodium, Oatmeal has a high degree of dietary usefulness.

For additional information write: Medical Service Dept.

The Quaker Oats Company CHICAGO 54, ILLINOIS

In answering advertisements please mention Pediatrics xxxviii



# 

### For over a quarter century physicians have prescribed Baker's Modified Milk to help prevent Iron Deficiency Anemia

Milk is an excellent vehicle for administration of iron -absorption is high<sup>1</sup>, and digestive disturbances are minimized.<sup>2</sup> Baker's Modified Milk provides 7.5 mg. of iron per quart of formula-a prophylactic level, safely in excess of the Recommended Daily Allowance.<sup>3</sup>

Baker's Modified Milk, made only from Grade A milk, contains ample protein and the RDA of vitamins. The butterfat has been completely replaced with well-tolerated vegetable fats. It is simple to prepare, economical to use, and is scientifically formulated to duplicate the nutritional results of breast milk. Powder and Liquid.

### Bakers MODIFIED MILK The prepared formula made by THE BAKER LABORATORIES, INC. Cleveland 15, Ohio

In answering advertisements please mention PEDIATRICS xxxix



OPTIMUM NUTRITION Providing all the normal dietary requirements plus a reserve for stress situations.

 Schulz, Jeanette and Smith, N.J.: A.M.A. J. Dis.Child.<u>95</u>:109(1958)
 Josephs, H.W.: Medicine <u>32</u>: 125 (1953)

3. Recommended Dietary Allowances, NAS-NRC Publication 589 (1958)



to soothe... Taloin's highly refined animal tallow helps replace lost skin oils, softens ... its silicones form a protective barrier between skin and wet diaper

to promote healing ... mildly astringent zinc oxide and calamine comfort while they aid healing ... and Taloin is buffered for normal skin pH

to prevent... methylbenzethonium chloride kills rash-causing bacteria, which produce ammonia that is harmful to natural skin oils.

and, unlike liquids, powders, creams, Taloin won't rub off easily, affords lasting protection

#### THE WARREN-TEED PRODUCTS COMPANY

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specialized for the skin-economized for the patient for dermatoses responsive to topical steroid therapy

TERMINATES ITCHING
CURBS INFLAMMATION
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VERY LOW STRENGTH
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IN ACTION
NEOMYCIN
PROTECTS AGAINST
INFECTION

# skin deep is

deep

enol

available with or without neomycin as -

Foam Aerosol, 10 Gm. dispenser, 18.75 mg. dichlorisone acetate or 18.75 dichlorisone acetate with 37.5 mg. neomycin sulfate (equivalent to 26.25 mg. neomycin base);

Aerosol, 50 Gm. container, 8.33 mg. dichlorisone acetate or 8.33 mg. dichlorisone acetate with 16.6 mg. neomycin sulfate;

**Cream**, 5 Gm. tube, 2.5 mg./Gm. dichlorisone acetate or 2.5 mg./Gm. dichlorisone acetate with 5 mg./Gm. neomycin sulfate (equivalent to 3.5 mg./Gm. neomycin base).

## NOW...high natural vitamin C in a wide variety of flavors

# BiB<sup>®</sup> juices

#### Acerola-Exclusive BiB Feature:

All BiB juices – Orange, Apple. White Grape, Pineapple, Prune-Orange, Orange-Apricot, and Tomato – are standardized to protective vitamin C levels with Acerola, the richest known *natural* source of vitamin  $C.^{1,2}$  Each ounce of all BiB juices – citrus or non-citrus – provides more than the minimum daily requirement of vitamin C for infants.

#### BiB Orange Juice-Hypoallergenic

Hypoallergenicity and improved tolerance are achieved through special processing which reduces the seed protein and peel oil content to negligible quantities. In a clinical study with Acerola, "No reactions occurred from ingestion or from skin and intradermal tests with Acerola juice."<sup>2</sup>

STRAINED FOR BABIES

JUICES

ACEROLA JU

#### A Wide Variety at an Early Age

BiB juices permit early introduction of a wide variety of flavors – valuable in taste-training the infant. Special process assures free flow through bottle nipple; ideal for spoon or cup feeding, too. BiB juices require no reconstitution, no heating, no defrosting. All mother does is open the can of BiB juice and it's ready for feeding.

References: (1) Asenjo, C. F., and Freire de Guzman, A. R.: Science 103:219 (Feb. 22) 1946, (2) Clein, N. W.: J. Pediat, 48:140-145 (Feb.) 1956.



# because

...in pediatrics particularly... there is a record of risk



## prescribe

the unusually safe oral iron CHEL-IRON® Brand of Ferrocholinate\* the unusually safe antiemetic ENETROL® Phosphorated Carbohydrate Solution

# because

there is a record of risk in iron therapy... "In recent years the serious pathologic effects of an overload of iron on structure and function of organs have received much attention."

Schulman, I.: Pediatrics 18:299, Aug., 1956.

"Ingestion of large doses of ferrous sulfate, especially by children and infants, has repeatedly given rise to severe and fatal poisoning."

Von Oettingen, W. F.: Poisoning, ed. 2, Philadelphia, Saunders, 1958, p. 391.

"In a three year period in New York City, over 40 cases of acute iron poisoning in children were reported to the Poison Control Center... The death rate from this form of intoxication is far higher than from acetylsalicylic acid."

Sisson, T. R. C.: Quart. Rev. Pediat. 15:47, Jan.-Mar., 1960.



# because

there is a record of risk in antiemetic therapy... "Functional vomiting should be carefully distinguished from organic vomiting. Grave consequences may follow if evidences of organic derangement, such as tumors or acute conditions requiring surgical therapy, are masked by treatment designed to control vomiting alone."

Bradley, J. E.: Mod. Med. 20:71, Oct. 15, 1952.

"Phenothiazine tranquilizers should therefore not be prescribed indiscriminately for the symptomatic treatment of nausea and vomiting in childhood."

Cohlan, S. Q.: GP 21:136, Feb., 1960.

# prescribe CHEL-IRON®

for effectiveness with safety because of chelation Clinically confirmed as an effective hematinic<sup>1</sup>... yet *chelation* provides a built-in molecular barrier against g.i. intolerance and systemic toxicity,<sup>1,2</sup>

For pediatric patients ... CHĒL-IRON Pediatric Drops and CHĒL-IRON Liquid taste good (no astringency) ... won't stain teeth ... can be mixed in formula, milk, or juice without precipitation ... or taken on an empty stomach without intolerance.

And equally important, since accidental iron poisoning in children is a growing problem<sup>8</sup>—CHĒL-IRON Tablets prescribed for adults are safe to have around the house because of *chelation*.

## prescribe

EMETROL<sup>\*</sup>for

Effective in most cases of *functional* vomiting, often with the first dose<sup>4</sup>... yet because its action is *entirely physiologic*, EMETROL will not mask organic pathology<sup>5</sup> or expose the patient to hazardous drug side effects. Always a wise first choice for children... especially useful in the "g.i. virus" season. effectiveness with safety because of physiologic action

<sup>1.</sup> Franklin, M., et al.: J.A.M.A. 166:1685, Apr. 5, 1958. 2. A.M.A. Council on Drugs: J.A.M.A. 171:891, Oct. 17, 1959. 3. A.M.A. Committee on Toxicology: J.A.M.A. 170:676, June 6, 1959. 4. Bradley, J. E., et al.: J. Pediat. 38:41, Jan., 1951. 5. Tebrock, H. E., and Fisher, M. M.: M. Times 82:271, Apr., 1954.

#### KINNEY<sup>®</sup> PHARMACEUTICAL PRODUCTS...

"the safety-pin principle" in practice

 $\mathbf{R}$ \_ \_ \_ \_ Brand of Ferrocholinate

> chelated iron for safe oral control of iron deficiency anemia

CHEL-IRON Pediatric Drops: Equiv. 25 mg. elemental iron per cc. Bottles of 60 cc. with calibrated dropper.

CHEL-IRON Liquid: For children past the "drop-dose" stage-equiv. 50 mg. elemental iron per teaspoonful. Bottles of 8 fl. oz.

CHEL-IRON Tablets: For older children and adults-each tablet equiv. 40 mg. elemental iron. Bottles of 100.

Also available: CHEL-IRON PLUS Tablets: Chelated iron plus B<sub>12</sub>, other B vitamins and C. Bottles of 100.

#### ROĽ <u>1 E'T'</u> Phosphorated Carbohydrate Solution

physiologic antiemetic for safe, specific control of functional nausea and vomiting

Dosage: 1 or 2 teaspoonfuls for children, 1 or 2 tablespoonfuls for adults, repeated at 15-minute intervals as required. Do NOT DILUTE or drink fluids immediately before or after each dose.

Supplied: Bottles of 3 and 16 fl. oz.



#### are you receiving **TOXIC EPISODES** IN CHILDREN

If not, write to Kinney & Company for your free copy of this new quarterly publication for the medical profession ... comprising abstracts from worldwide medical literature on toxic episodes and drug reactions in infants and children. Prepared by EXCERPTA MEDICA FOUNDATION, The International Medical Abstracting Service, and sponsored by Kinney as a further contribution to the welfare of children.

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when diarrhea adds to distress, debilitation, and discomfort

you can provide prompt relief with POLYMAGMA

# to control bacterial diarrhea promptly, conveniently, and with comfort

POLYMAGMA®

Polymyxin B Sulfate, Dihydrostreptomycin Sulfate, and Pectin with CLAYSORB\* (Activated Attapulgite, Wyeth) in Alumina, Wyeth

# tablets suspension

and when diarrhea accompanies colds, grippe, influenza and other seasonal illnesses

### **POLYMAGMA** claysorb, superior adsorbent, plus 2 antibiotics

Claysorb adsorptive capacity is 5x greater than kaolin<sup>1</sup>

2 gm. Claysorb = 10 gm. kaolin

- POLYMAGMA stops diarrhea promptly, conveniently, comfortably
- helps restore normal intestinal function
- promotes physiologic stools
- soothes irritated intestinal mucosa
- 98-99% of human enteric viruses were adsorbed by CLAYSORB in recent *in vitro* study<sup>2</sup>



### **POLYMAGMA** provides bactericidal action against pathogens

- polymyxin and dihydrostreptomycin provide synergistic bactericidal action against most enteric pathogens
- POLYMAGMA destroys pathogens, controls diarrhea, and makes patients comfortable

to control uncomplicated diarrhea



### contains claysorb for superior adsorbent action

1. Barr, M., and Arnista, E.S.: J. Am. Pharm. A. (Scient. Ed.) *46*:493 (Aug.) 1957. 2. Bartell, P., Pierzchala, W., and Tint, H.: J. Am. Pharm. A. (Scient. Ed.) *49*:1 (Jan.) 1960.

For further information on limitations, administration, and prescribing of POLYMAGMA or DIAMAGMA, see descriptive literature or current Direction Circular.

Wyeth Laboratories

Philadelphia 1, Pa.



### when you prescribe steam therapy... prescribe **DEVILBISS**

**DEVILBISS** is the Vaporizer line that incorporates all features recommended by the medical profession. In the complete line, there is a vaporizer ideally suited for each patient's specific requirements.

Prescribe DeVilbiss when you prescribe steam therapy - your patients will be satisfied and so will you. **DEVILBISS VAPORIZERS...** Shut off automatically ... Steam all night ... Are available with non-breakable or glass containers . . . Have Steam-Dial or conventional controls.

**DEVILBISS** Since 1888 suppliers to the medical profession.

stainless steel

• complete with cord

#### NEW DEVILBISS NO. 144

- high steam output
- non-breakable container
- electrodes • steams all night • needs no tray or stand

RETAIL \$6.95

- shuts off automatically
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- large volume
- steams all night

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#### DEVILBISS STEAM-DIAL® NO. 142

- Steam-Dial regulates steam volume precisely to patient's need and room size
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- stainless steel electrodes
- complete with cord and tray

RETAIL \$9.95

THE DEVILBISS COMPANY BARRIE, ONTARIO, CANADA SOMERSET, PA.

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### **Polio and Diphtheria Antibody Levels Rise Higher**

An <u>Important</u> Reason to Vaccinate With

# COMPLICEN® 4-in-1 vaccine



Here is confirming evidence from a JAMA report<sup>1</sup>: Use of COMPLIGEN—the combined vaccine that provides diphtheria toxoid, tetanus toxoid, pertussis vaccine and poliomyelitis vaccine—was compared with use of poliomyelitis vaccine alone and a diphtheria-tetanus-pertussis vaccine alone. 192 children, from 1 month to 6 years, took part in the controlled clinical study. Overall results of this study showed:



#### Poliomyelitis Antibody Levels Rose Higher With COMPLIGEN

"The poliomyelitis antibody responses were significantly greater with combined vaccine than with poliomyelitis vaccine alone . . . "1 Diphtheria Antibody Levels Rose Higher With COMPLIGEN

"The diphtheria antibody response to combined vaccine was significantly higher than that to DTP vaccine, while the tetanus and pertussis responses were essentially the same in either case."<sup>1</sup>

Multiple-antigen vaccines are more convenient for doctors and patients. And, the above report gives an additional reason to vaccinate with Compligen.

1. Bordt, D. E.; Whalen, J. W.; Boyer, P. A.; Pursell, A. R., and Staffieri, F. P.: J.A.M.A. 174:1166 (Oct. 29) 1960.

#### for greater antibody response vaccinate with COMPLIGEN 4-in-1 vaccine



PITMAN-MOORE COMPANY division of allied Laboratories, Inc., Indianapolis 6, Indiana

In answering advertisements please mention PEDIATRICS



Mixed bacterial infection of wound following closure of dehisced laparotomy incision. Infection persisted despite intensive local and systemic therapy.

Infection eradicated after 10 days of topical antibacterial therapy with FURACIN Soluble Powder. Subsequent healing was complete and uneventful.

#### Postoperative wounds: fight infection, facilitate healing

In clinical use for more than 13 years and today the most widely prescribed single topical antibacterial, FURACIN retains undiminished potency against pathogens such as staphylococci that no longer respond adequately to other antimicrobials. FURACIN is gentle, nontoxic to regenerating tissue, speeds healing through efficient prophylaxis or prompt control of infection. Unique water-soluble bases provide thorough penetration, lasting activity in wound exudates, without "sealing" the lesion or macerating surrounding tissue.



the broad-spectrum bactericide exclusively for topical use





in dosage forms for every topical need

Soluble Dressing / Soluble Powder Solution / Cream / HC Cream (with hydrocortisone) / Vaginal Suppositories / Inserts / FURESTROL® Suppositories (with diethylstilbestrol) Special Formulations for Eye, Ear, Nose

EATON LABORATORIES Division of The Norwich Pharmacal Company NORWICH, NEW YORK

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# for excellent utilization of protein and calories

### MODILAG a new prepared milk formula with nutritional & flavor advantages

Modilac provides excellent protein and calorie utilization. A recent clinical study\* demonstrated that infants receiving Modilac, in general, performed more efficiently than those of the control groups; weight increment from 2 to 16 weeks was highest; weight gain *per unit* of protein or *per calorie* was greatest.

Looks like milk...tastes like milk. Modilac is prepared by a special "flash-sterilization" process. Caramelization and browning, the results of prolonged high temperatures and amino-sugar bonding, are markedly reduced. It also reduces the destruction of heat-labile amino acids and vitamins to a new minimum.

The carbohydrate modifier in Modilac combines dextrins (76%) maltose and dextrose in proper proportion for "spaced CHO assimilation." This results in more uniform blood sugar levels and minimizes fermentation in the gastrointestinal tract.

**Corn oil, which replaces butterfat,** reduces intake of saturated fatty acids. Added vitamins A, C, D,  $B_6$  and thiamine appropriately supplement the natural vitamin content. See back of insert for analysis.

\*Luis L. Mosovich, M. D., Vivian Pessin, M. A. and Charles U. Lowe, M. D. (University of Buffalo and the Buffalo Children's Hospital), "Effects of Milk Composition on Baby Composition," American Journal of the Diseases of Children, Vol. 100-No. 5, Pages 791-792, Nov., 1960.





### Gerber baby



specially prepared to provide extra nutritional advantages

Gerber Cereals are prepared from an exclusive cereal formulation which includes a selected form of iron (sodium iron pyrophosphate) which is as easily absorbed and to the same degree as the iron found in natural sources.<sup>1</sup> One-half ounce (6 tablespoons) of any Gerber Cereal supplies 7 mg. iron...100% of the Recommended Daily Dietary Allowance for infants.<sup>2</sup>

Additional nutritional benefits: added thiamine, riboflavin and niacin supplement the vitamin content of the cereal and that of the infant's formula. See next page for analysis.

**Easy assimilation** is assured because Gerber Cereals are thoroughly pre-cooked to insure ready digestibility. This digestibility makes it possible to start cereal as soon as extra nourishment is indicated. Especially recommended as starting cereals: Rice Cereal and Barley—one grain and hypo-allergenic.

A.M.A. Journal of Diseases of Children, 95: 109-119, 1958.
 Publication 589, National Academy of Sciences—National Research Council, Washington, D.C.—1958.



## Gerber MODIL/AC

Formula Preparation

The Modilac Standard Formula is based on 2½ fluid ounces (50 calories) of the 1:1 normal dilution per pound of body weight per day. Isocaloric with breast milk, it provides ample fluid and good nutrition for the rapidly growing infant. A newborn formula for the first week providing 13 calories per fluid ounce may be prepared by diluting Modilac with 2 parts of water. It should be fed according to the infant's caloric requirements.

\*\*\*\*\*\*\*\*\*\*

4 one oz. pkgs.)

#### MODILAC ANALYSIS

	GM./fl. oz. Normal Dilution	Caloric Distribution
Protein	0.65	13%
Fat*	0.83	37%
Carbohydrate	2.47	50%
*53	1% Linoleic acid.	

0.55 mg. 1.00 mg. 800.00 mg. 605.00 mg.

#### Vitamins and Minerals

Per Quart of Normal Dilution (1:1) for Infants

Vitamin A	3000 U.S.P. Units	Thiamine
Vitamin D	600 U.S.P. Units	Riboflavin
Vitamin C	45.00 mg.	Calcium
Vitamin B <sub>6</sub>	0.70 mg.	Phosphorus



#### For Young Children For Infants 160% 67% 80% 320 % 100 % Thiamine Riboflavin Niacin 4 mg." \*Minimum daily requirement for this nutrient has not been established for the ages indicated. **Rice Cereal** Gerber Barley Cereal Gerber BARLEY CEREAL **High Protein Cereal RICE CEREAL** Oatmeal Mixed Cereal Cereal Quads (Assortment of

VITAMIN ANALYSIS

Gerber Gereals

One ounce supplies the proportions of the minimum daily requirements of nutrients as indicated at left.

..................

Babies are our business ... our only business !"



FREMONT. MICHIGAN







#### because its dry powder form makes it easy to measure accurately

You avoid the inaccuracy of hard-to-measure, sticky, messy syrups when you specify Dextri-Maltose. You are assured with Dextri-Maltose that the infant gets exactly the caloric distribution you specify... day after day... week after week.

Dextri-Maltose is • nonsweet-helps prevent a craving for sweets later on • economical-costs only pennies a day

Add 1 tablespoon of Dextri-Maltose for each 5 oz. of formula.



Mead Johnson Symbol of service in medicine



The discomfort following my tonsillectomy was almost nonexistent. I could eat and swallow without feeling pain because my doctor gave me Xylocaine... whatever that is !

Xylocaine Viscous topical anesthetic for oral administration For almost immediate relief of pain and easier swallowing after T & A, Xylocaine Viscous spreads evenly and adheres to the membranes. Cherry flavored Xylocaine Viscous contains 2% Xylocaine hydrochloride; water miscible and of viscous consistency. Dose: 1 teaspoonful, swished around in the mouth, and then swallowed slowly. Astra Pharmaceutical Products, Inc., Worcester 6, Mass. 1. Sandler, H. C.: Oral Surg B: 260 (March 11955, 2: Stetson, J. B.: Am. Pract. & Digest Treat. 7:581 (April) 1956, 3. Gibt, R. C.: A. M. A. Arch. Dermat. B1:609 (April) 1960, 4. Rider, J. A., and Puletti, E. J.: Am. J. Digest. Dis. 4:822 (orb) 1959. U.S. Patent No. 2,441,496



the **physiologic** infant skin conditioner



Desitin Baby Lotion helps nature keep baby's skin clean, supple, healthy. It cleanses gently and thoroughly, soothes, lubricates, combats ammonia-producing bacteria and infection.

Only Desitin Baby Lotion combines Lano-Des\*, a rich liquid lanolin, hexachlorophene, vitamins A and E, and special emulsifiers. Non-greasy, stainless, pleasantly scented. Effective too in helping lubricate and condition adults' skin.



Free from mineral oil, to which many babies are sensitive.

write for **samples** and literature **DESITIN CHEMICAL COMPANY** 812 Branch Avenue, Providence, 4, R. I.

In answering advertisements please mention PEDIATRICS

### **CONSISTENT RESPONSE IN SKIN INFECTIONS**

Effective, gentle agent for pediatric skin infections Triburon, the distinctive antimicrobial, prevails over primary and secondary invaders promptly, safely, without producing significant bacterial resistance. Now available in three forms: <u>New</u> Triburon Hydrocortisone Cream for pruritic, inflamed, oozing or weeping infections, Triburon Ointment for skin and wound infections, Triburon-HC Ointment to counter itching and inflammation as well as infection.

Effective therapy for impetigo, folliculitis, furunculosis, ecthyma, eczema, acne, atopic dermatitis, neurodermatitis, contact dermatitis, stasis ulcers, hydradenitis, seborrheic dermatitis, infectious eczematous dermatitis, wounds, lacerations and burns.

Selected bibliography: 1. R. J. Schnitzer, E. Grunberg, W. F. DeLorenzo and R. E. Bagdon, <u>Antibiotics & Chemother.</u>, 9: 267, 1959. 2. R. C. V. Robinson, <u>Ann. New York Acad. Sc.</u>, <u>82</u>:(Art. 1), 144, 1959. 3. E. Edelson, E. Grunberg, A. D. Calabrese and T. V. Morton, <u>ibid.</u>, p. 124. 4. P. L. Williams, <u>ibid.</u>, p. 135. 5. F. T. Becker and J. L. Tuura, <u>ibid.</u>, p. 131. 6. S. M. Bluefarb, <u>ibid.</u>, p. 119.

Triburon has an impressive clinical record:

◆ Highly effective ◆ Dramatic responses in chronic conditions ◆ Microbicidal even against resistant strains of Staph. and Strep., including four strains of Staph. phage group 80/81 ◆ Virtually nonsensitizing and nonirritating ◆ Stainless, odorless, highly acceptable

Triburon Hydrocortisone Cream (0.1% Triburon Chloride plus 1.0% hydrocortisone in a vanishing-cream base) 5-Gm and 15-Gm tubes. Triburon-HC Ointment (0.1% Triburon Chloride plus 0.5% hydrocortisone in a water-soluble base) 5-Gm and 20-Gm tubes. Triburon Ointment (0.1% Triburon Chloride in a water-soluble base) 1-oz tubes and 1-lb jars.

TOPICAL MICROBICIDE . NOT AN ANTIBIOTIC

#### NOT A NITROFURAN

Triburon® Chloride – N,N'-bis[1-methyl-3-(2,2,6-trimethylcyclo hexyl)propyl]-N,N'-dimethyl-1,6-hexanediamine bis (methochloride)

Consult literature for dosage requirements, available on request, before prescribing.





# "bacterial problems are trouble enough..."

and the second second

atric

Where irritability, anorexia and fever in infants and children make anti-infective medication difficult, the necessary convenience is now provided by one-dose-a-day Madribon Pediatric Drops... affording all the advantages of the parent compound, Madribon, in an easy-to-give, easy-to-take dosage form.

Diagnostic Groups	No. of	Results		<u></u>
	Patients	Success	Failure	Comment
Upper respiratory				
infections	58	52	6	No side effects
URI + G.I. disorders	8	6	2	No side effects
Acute bronchitis	4	4	0	No side effects
Gastroenteritis	3	3	0	No side effects
	$\frac{3}{73}$	65	8	
		(89%)	(11%)	

\*S. Guss and A. J. Spiro, Pediatric Conferences, 2:14, Mar. 1959.

#### This winter when you need

change to

an antimicrobial with outstanding effectiveness . . . an antimicrobial with a remarkable safety record . . . an antimicrobial that is kind to the purse . . .

with the same tasty custard flavor that has made Madribon Suspension a favorite with children

Consult literature and dosage information, available on request, before prescribing.

MADRIBON®-2,4-dimethoxy-6-sulfanilamido-1,3-diazine





### reduces postnasal drainage—lessens pharyngeal irritation depresses the cough reflex—eases expulsion of mucus

\*The addition of the decongestant to the antitussive provides more complete cough control than regular "cough syrups." The central antitussive action of Dormethan<sup>1</sup> and the expectorant action of ammonium chloride are complemented by the decongestant action of Triaminic,<sup>2,3,4</sup> which reduces swelling and controls irritating postnasal drip, a common cough stimulus.

Each tsp. (5 ml.) of fruit-flavored, non-alcoholic TRIAMINICOL provides:
Triaminic <sup>®</sup>
Dormethan (brand of dextromethorphan HBr)15 mg.
Ammonium chloride

Dosage (to be administered every 3 or 4 hrs.): Children 6 to 12 - 1 tsp.; 1 to  $6 - \frac{1}{2}$  tsp.; under  $1 - \frac{1}{4}$  tsp.; Patients over 12 - 2 tsp. One dose at bedtime is usually sufficient to control the cough cycle initiated by postural drainage of paranasal sinuses.

References: 1. Bickerman, H. A.: in Drugs of Choice, Mosby, St. Louis, 1958, p. 557. 2. Lhotka, F. M.: Illinois M. J. 1/2:259 (Dec.) 1957. 3. Fabricant, N. D.: E.E.N.T. Monthly 37:460 (July) 1958. 4. Farmer, D. F.: Clin. Med. 5:1183 (Sept.) 1958.



DORSEY LABORATORIES • a division of The Wander Company • Lincoln, Nebraska

In answering advertisements please mention PEDIATRICS



#### 

#### Corporate Objectives

#### of

#### Mead Johnson & Company

- 1. To earn an adequate return on invested capital through service in medicine.
- 2. To seek growth in the fields of specialty nutritional and pharmaceutical products.
- 3. To achieve growth through fundamental research and sound product development of the kind and quality designed to contribute to the advancement of medicine and the public welfare.
- 4. To provide adequate and trained management talent at all levels as required by the continuous needs of the business.
- 5. To provide formal training for all employees to promote individual growth and development.
- 6. To maintain a high level of employee morale through continuous sound leadership and administration.
- To discharge the obligation of corporate citizenship by effective participation in and contribution to industry, national, state and local affairs.

A Report to the Friends of Mead Johnson & Company

We are pleased to announce a new pattern of corporate organization, effective immediately. In order to enhance the Company's capability for service in medicine and to take advantage of the opportunities for growth in increasingly diversified fields of interest, the following autonomous divisions have been created.



#### Symbol of service in medicine

This Division will carry on the traditional business of Mead Johnson & Company under the following charter:

Mead Johnson Laboratories shall create and market medically validated nutritional and pharmaceutical products, including infant formulas and vitamins, for human use.

Mead Johnson Laboratories shall rely on fundamental research, applied research, and product development designed to contribute to the advancement of human health.

Mead Johnson Laboratories shall be guided by the following principles in support of its slogan, "Symbol of Service in Medicine":

- (a) To advance the practice of medicine as a science, by the dissemination of technical knowledge in specific fields of interest.
- (b) To contribute to formal medical education.
- (c) To contribute to essential research in medical institutions.
- (d) To provide a systematic program of medical practice aids.
- (e) To engage in programs designed to broaden public understanding of the proper role and function of the physician.

Mead Johnson Laboratories shall engage in a continuing program of clinical research to provide a rich background of clinical validation and support of its products.

Mead Johnson Laboratories shall promote its prescription products exclusively to the medical profession and pharmacists.

Mead Johnson Laboratories may, for specified non-prescription products, engage in medically approved point-of-sale promotion.

Mead Johnson Laboratories shall distribute its products exclusively through drug channels.



Quality products from nutritional research

A new Division, the Edward Dalton Company, is named in honor of Mead Johnson & Company's founder, Edward Mead Johnson, and his wife, Helena Dalton, who contributed significantly to the early success of the Company.

This new Division will operate according to the following charter:

The Edward Dalton Company shall create and market medically validated, special purpose nutritional products—other than infant formulas and vitamins.

The Edward Dalton Company shall rely on research and product development to achieve leadership through innovation.

The Edward Dalton Company shall be guided by these principles:

- (a) Clinical validation of all product claims.
- (b) Advertising and promotion that meet a high standard of integrity.
- (c) The creation of products of the type and kind which can be promoted for their assistance to and acceptance by physicians in their practice.

The Edward Dalton Company shall market its products:

- (a) By advertising and promoting both to physicians and the laity.
- (b) By the effective use of all necessary distribution channels.

(Metrecal<sup>T.M.</sup>dietary for weight control has been assigned to this division.)



Symbol of service in medicine

This Division now functions in 85 countries throughout the world. Its charter is as follows:

Mead Johnson International shall develop, direct and expand the international operations of the corporation.

Mead Johnson International shall project world-wide the character, the principles and ethical posture of Mead Johnson & Company.

> Mead Johnson & Company initiates this pattern of organization with confidence; with the conviction that the new structure will make it possible for the Company substantially to increase the scope of its contribution to the medical and allied professions and to the public.

> > Respectfully,

Mead Januar President


Tetrex Syrup will be taken and liked by most arbitrary judges of flavored medications: small children and finicky adults.

Tetrex Syrup provides broad-spectrum antibiotic action against tetracycline-sensitive pathogens in a great variety of common infections. It is easily swallowed, readily absorbed, and the dosage can be accurately adjusted to meet individual requirements.

Tetrex Syrup is formulated in an *aqueous* vehicle, and has no objectionable oily taste. A further advantage: Tetrex Syrup remains safely stable without refrigeration.

Dosage : Children-Average daily dose is about 12 mg. per pound of body weight, equivalent to one teaspoonful (5 ml.) per 10 pounds of body weight. This should be given in divided doses at 6-hour intervals. Supply : Tetrex Syrup-tetracycline (ammonium polyphosphate buffered) syrup-equivalent to 125 mg. tetracycline HCl activity per 5 ml. teaspoonful. Bottles of 2 fl. oz. and 1 pint. Other Tetrex dosage forms : Tetrex Pediatric Drops-tetracycline (ammonium polyphosphate buffered) syrup - equivalent to 100 mg. tetracycline HCl activity per ml. Bottles of 10 ml. with calibrated dropper to assure accurate dosage. Tetrex  $\overline{c}T/S$ -Tetracycline (ammonium polyphosphate buffered) syrup-equivalent to 125 mg. tetracycline HCl activity per 5 ml. teaspoonful; plus 167 mg. each of sulfadiazine, sulfamerazine and sulfamethazine. Bottles of 2 fl. oz. (60 ml.). Tetrex AP Syrup-combines tetracycline (ammonium polyphosphate buffered) equivalent to 125 mg, tetracycline HCl activity per 5 ml, teaspoonful; plus 120 mg, APAP (acetyl-p-aminophenol) and 12.5 mg. Bristamin® (phenyltoloxamine citrate). Bottles of 2 fl. oz. (60 ml.). BRISTO BRISTOL LABORATORIES, SYRACUSE, NEW YORK Div. of Bristol-Myers Co.



TWINKIE SHOE COMPANY • P. O. BOX 111 • CARLYLE 1, ILLINOIS Twinkie shoes are made in Clinton County, Illinois, famous for the production of quality infants' shoes for three generations

> In answering advertisements please mention PEDIATRICS lxxiv



### **INSPIRED RELIEF IN SECONDS**

## VAPONEFRIN<sup>®</sup> A TEXTBOOK THERAPY FOR ASTHMA

A TEATBOOK THERAT I FOR ASTHMA

Just 3 to 6 inhalations of Vaponefrin relieve bronchospasm and restore breathing comfort

> ...the greatest improvement (in vital capacity-time relationship) occurs during the first second."<sup>1</sup>

Unsurpassed record of efficacy and safety Vaponefrin Solution (racemic epinephrine)...

• "The preparation we have found most effective is called 'Vaponefrin'."<sup>3</sup>

• "The deposition of a fine bronchodilator mist [such as Vaponefrin] on the mucosa of the bronchi and bronchioles of the respiratory tract presents many significant advantages over the parenteral use of epinephrine."<sup>4</sup>

• May be used by hypertensive and cardiac patients; no appreciable effects on blood pressure, peripheral resistance, C.N.S., with ordinary doses.<sup>2</sup>

#### **Produces particles of critical micrometric** accuracy, for maximum efficacy Vaponefrin Nebulizer...

• Its exclusive baffle produces a voluminous mist of

particles with average radii of 1 micron.1

• Only particles in this range can penetrate smaller bronchioles and alveoli for almost instantaneous effect.<sup>1</sup>

Professional literature and a complimentary office demonstration set available on request.

Supplied: Solution (2.25%) racemic epinephrine hydrochloride, bottles of 7.5, 15 or 30 cc.; Nebulizers, Standard size and conveniently-carried Pocket size. Also Vaponefrin Aerosol Unit (Nebulizer and Solution).

#### References:

 Segal, M. S., and Dulfano, M. J.: Chronic Pulmonary Emphysema, New York, Grune & Stratton, 1953, p. 99. 2. Farber, S. M., and Wilson, R. H. L.: Ann. Int. Med. 50:1241, 1959. 3. Barach, A. L., and Cromwell, H. A.: Med. Clin. No. America, May 1940, p. 621. 4. Bickerman, H. A., and Barach, A. L.: Drugs of Choice, 1960-1961 (W. Modell, ed.), St. Louis, The C. V. Mosby Co., 1960, p. 524.

The VAPONEFRIN Company 666 Fifth Avenue • New York 19, N.Y.

Documented by 163 published clinical evaluations and standard textboc references.



In answering advertisements please mention PEDIATRICS lxxvi

### for pediatric patients when respiratory congestion is complicated by secondary bacterial invaders...



TRIAMINIC WITH TRIPLE SULFAS TRANSPORTED IN TRIBUTED SUSPENSION / tablets

**Provides Triaminic for decongestion** and to promote drainage of nasal and st

paranasal passages

Provides sulfonamides to control streptococcal, pneumococcal and staphylococcal invaders

DORSEY LABORATORIES • a division of The Wander Company • Lincoln, Nebraska

In answering advertisements please mention PEDIATRICS

## When is his hemoglobin normal? the case of infant #1854<sup>1</sup>



Male, healthy, one of a group fed an evaporated milk formula until four and one-half months of age. At this time, his serum iron had dropped below the acceptable 50 mcg/100 ml level to a low point of 10. Hemoglobin readings, while going down, followed the 'nonanemic pattern for this age and never went below 10 gm/100 ml.

This infant's feeding was then changed to Similac With Iron, which gives 12 mg of ferrous iron at spaced intervals with each quart of feeding. Within two weeks, serum iron was well above the pre-Similac With Iron level. Hemoglobin (and hematocrit) rose concomitantly and consistently.

Hemoglobin is usually the last of the blood indices to reflect iron status. "Previous investigations have indicated that [iron stores] must be depleted before iron deficiency becomes manifest in the circulating red cell mass. The depletion of iron stores associated with normal hematological measurements may therefore be regarded as the 'preclinical' phase of iron deficiency.''<sup>2</sup> And a strictly "normal" hemoglobin might be said to be that which is supported by optimal levels of serum iron.

Serum iron, hemoglobin and hematocrit all remain higher for infants on Similac With Iron and iron deficiency does not develop.<sup>1</sup>



In answering advertisements please mention PEDIATRICS

lxxviii

from AIR-SHIELDS | leader in cool-vapor therapy



Compact, portable Croupaire delivers a penetrating "fog stream" of cool, healing vapor directly to the patient ... without need for mask or canopy.



Your patient recuperates in comfort while the compact **Croupaire** delivers a directional "fog stream" of cool, micronized vapor for deep hydration of the respiratory tract.

By hydrating the respiratory mucosa, soothing moisture relieves thirst and dryness so annoying to post-tonsillectomy and other post-surgical patients.

In croup and other acute respiratory disorders, **Croupaire** moistens the sticky exudate which accumulates in the lumen of the bronchioles so it may be loosened and coughed up. A comfortable environment of cool humidity promptly eases breathing.

**Croupaire** operates quietly from any A.C. outlet, and provides continuous cool-vapor therapy for about 10 hours without refilling.

Prescribe **Croupaire** therapy in your hospital to help speed recovery after anesthesia, tracheotomy, tonsillectomy and other surgical procedures; and in croup, bronchitis, pneumonia, bronchial asthma and other respiratory disorders.

Used as a room humidifier, the **Croupaire** also helps prevent coughs and colds resulting from dried out air in winter-heated hospitals or homes.

Available at leading surgical and hospital suppliers. For additional information write



Hatboro, Pa. OSborne 5-5200 Electronic research and engineering to serve medicine

In answering advertisements please mention PEDIATRICS Ixxix



## AN ADDITION TO THE CALDESENE® FAMILY FOR DIAPER RASH / MINOR SKIN IRRITATIONS



NF

Caldesene Medicated Ointment and Powder are equally effective for the relief of itching, soreness, and burning of **Diaper Rash**, **Minor Skin Irritations** and **Prickly Heat**. Both contain 15 per cent calcium undecylenate for sustained antibacterial and antifungal action. The protective coating formed by Caldesene Ointment and Powder keeps moisture and irritants from coming in contact with the baby's tender skin.

Supplied: Caldesene Powder – 2 oz. shaker containers. Caldesene Ointment –  $1\frac{1}{2}$  oz. collapsible tubes in a water-washable base.

Maltbie Laboratories Division Wallace & Tiernan Incorporated Belleville 9, New Jersey, U.S.A.

PCD-03

In answering advertisements please mention PEDIATRICS

a reservoir of dependable performance **Terpamycin**<sup>®</sup> therapy

l know it is effective dependable blend of effectiveness, toleration, and acceptability for pediatric antibiotic therapy

## Cosa-Terrabon®

ORAL SUSPENSION / PEDIATRIC DROPS

today's pediatric forms of Terramycin



The continuing effectiveness of Terramycin therapy in pediatric infections derives as always from the rapid absorption; notably wide distribution in body tissues and fluids; high, active urinary concentrations; and broad anti-infective spectrum characteristic of oxytetracycline. Equally important in pediatrics, Terramycin therapy offers a 10-year record of exceptional toleration plus easy, palatable administration in deliciously fruitflavored, preconstituted liquid form.

### IN BRIEF

Cosa-Terrabon provides oxytetracycline (Terramycin®) with glucosamine for enhanced absorption. Because Cosa-Terrabon is preconstituted, stable, and unusually well accepted by children, waste of medication is largely avoided.

**INDICATIONS:** Because oxytetracycline is effective against both gram-positive and gram-negative bacteria, rickettsiae, spirochetes, large viruses, and certain parasites (e.g., amebae, pinworms), Cosa-Terrabon is indicated in a great variety of pediatric infections due to susceptible organisms, e.g., infections of the respiratory, gastrointestinal and genitourinary tracts, surgical and soft-tissue infections, ophthalmic and otic infections and many others.

**ADMINISTRATION AND DOSAGE:** For infants and children, 10 to 20 mg. of Terramycin per pound of body weight daily, in divided doses, is usually effective.

wt. lbs.	daily dosage (10 mg./lb.)	practical daily dosage	
		Oral Suspension 125 mg./tsp.	Pediatric Drops 5 mg./drop
10	100 mg.	—	5 gtt. q.i.d.
20	200 mg.	<sup>1</sup> ∕2 tsp. q.i.d.	10 gtt. q.i.d.
30	300 mg.	<sup>1</sup> / <sub>2</sub> tsp. t.i.d. and 1 tsp. h.s.	15 gtt. q.i.d.
40-50	400-500 mg.	1 tsp. q.i.d.	_
60	600 mg.	1 tsp. t.i.d. and 2 tsp. h.s.	_

**SIDE EFFECTS AND PRECAUTIONS:** Antibiotics may allow overgrowth of non-susceptible organisms—particularly monilia and resistant staphylococci. If this occurs, discontinue medication and institute indicated supportive therapy and treatment with other appropriate antibiotics. Aluminum hydroxide gel has been shown to decrease antibiotic absorption and is therefore contraindicated. Glossitis and allergic reactions are rare. There are no known contraindications to glucosamine.

**SUPPLIED:** Cosa-Terrabon Oral Suspension—125 mg. per 5 cc. teaspoonful, bottles of 2 oz. and 1 pint; and Cosa-Terrabon Pediatric Drops—5 mg. per drop (100 mg. per cc.), 10 cc. bottle with calibrated plastic dropper. Terramycin is also available as Cosa-Terramycin® Capsules, 250 mg. and 125 mg.; and as Terramycin Intramuscular Solution, conveniently preconstituted, in the new 10 cc. multi-dose vial, 50 mg. per cc., and in 2 cc. prescored glass ampules, containing 100 mg. or 250 mg, packages of 5 and 100. In addition, a variety of other systemic and local dosage forms are available to meet specific therapeutic requirements.

More detailed professional information available on request





### Save yourself a phone callprescribe Diaparene® anti-bacterial baby lotion

You can avoid anxious calls from mothers worried about the sudden appearance of diaper rash. Recommend anti-bacterial Diaparene Rinse, Baby Powder, and Baby Lotion *before* diaper rash appears.

Diaparene's anti-bacterial ingredient attacks the major *cause* of diaper rash without irritating baby's skin. It destroys the urea-splitting bacteria that release excoriating ammonia.

For full around-the-clock protection have the mother follow this Diaparene prophylactic regimen . . . from the start . . .

First, tell her to use Diaparene-rinsed diapers. She can rinse the diapers with Diaparene Tablets, precrushed for easy home use, or she can get Diaparene-impregnated diapers from a Diaparene franchised diaper service. Even the night diaper stays free of ammonia when it's been Diaparene treated. Second, tell her to use <u>Diaparene Baby Lotion</u>.

This gentle anti-bacterial lotion gives added protection against rash...helps keep the baby's skin smooth and soft.

baby powder

Third, tell her to sprinkle the baby with Diaparene Baby Powder. This anti-bacterial powder gives extra protection against rash formation by attacking ammonia-producing bacteria on the skin. Reduces ammonia odor, too. Its purified cornstarch base absorbs more moisture than talc does...helps prevent chafing and prickly heat.

And for therapy... When you do see a baby who has not been protected and does have a rash, prescribe water-miscible, anti-bacterial, Diaparene Ointment to clear up the rash. At the same time, recommend that the mother start the prophylactic regimen.

HOMEMAKERS PRODUCTS DIVISION · GEORGE A. BREON & CO., NEW YORK 18. N.Y.

In answering advertisements please mention PEDIATRICS Ixxxiii



Vitamin-time is treat-time with tasty VIACETS Candispheres. Five delicious flavors — raspberry, cherry, orange, lemon and lime — in five pretty colors make VIACETS fun to take. Children *really* like them. And you will, too, for the complete pediatric vitamin support that VIACETS provide. Special layered construction assures potency, permits better chewing. Try VIACETS. Today.

### delicious · chewable · multivitamin candispheres\*

Each VIACETS Candisphere contains: Vitamin A...5,000 U.S.P. Units; Vitamin D...1,000 U.S.P. Units; Vitamin E...10 I.U. Units; ascorbic acid ...50 mg.; thiamine mononitrate...1.0 mg.; riboflavin...1.0 mg.; pyridoxine...1.0 mg.; calcium pantothenate...1.0 mg.; niacinamide...5.0 mg.; Vitamin B<sub>12</sub>...2.0 mcg.; folic acid...0.1 mg. *Dosage*: One or two VIACETS daily, or as indicated. Supplied: Bottles of 120 multicolored candispheres. WALKER LABORATORIES, INC., Mount Vernon, N.Y.



And for those patients needing just Vitamins A, D and C: delicious, orange-flavored, chewable ADCETS® Candispheres.

In answering advertisements please mention PEDIATRICS

lxxxiv



## PHENERGAN<sup>®</sup> EXPECTORANT

Promethazine Expectorant, Wyeth With codeine Plain (without codeine)

Provides four distinct beneficial actions . . . expectorant antihistaminic sedative

non-narcotic pediatric formula with dextromethorphan for antitussive action equivalent to that of codeine without its side-effects

Pediatric **PHENERGAN** EXPECTORANT Promethazine Expectorant with Dextromethorphan, Wyeth

For further information on prescribing and administering PHENERGAN Expectorant see descriptive literature, available on request.

Wyeth Laboratories Philadelphia 1, Pa.

topical anesthetic





MERCK SHARP & DOHME, DIVISION OF MERCK & CO., INC., PHILADELPHIA 1, PA. REDISOL IS A TRADEMARK OF MERCK & CO., INC.

> In answering advertisements please mention PEDIATRICS lxxxvi

16)C

## his first cereal...

like his first formula...needs your guidance



#### mother looks to you

Baby's first cereal can be his introduction to adult eating—an experience which can help set good eating habits for the rest of his life. Mother looks to you for help in making the right diet choices for her infant. Your advice is as important as it was when you prescribed his first formula.

#### meets baby's needs at this critical point

PABLUM brand cereals are formulated especially to fill the infant's needs for important minerals—especially iron—and for proteins, vitamins, carbohydrate, and calories. Available in five varieties—Rice, Mixed, Oatmeal, Barley, and High Protein—PABLUM cereals are highly useful in taste training.

#### your assurance of nutritional excellence

Mead Johnson applies the same rigorous controls to the manufacture of PABLUM cereals as it does to its other nutritional products and its pharmaceuticals. Your specification of PABLUM is assurance of sound nutrition in cereals for your patients' first few years.

Specified by physicians for nearly 30 years.



33460

### With an Introduction by Linus Pauling, Ph.D.

### MOLECULAR GENETICS AND HUMAN DISEASE

Edited by LYTT I. GARDNER, M.D.

Professor of Pediatrics State University of New York College of Medicine Syracuse, New York

Fourteen authorities outline salient areas in the rapidly advancing field of genetics and its vital relation to human disease states. No attempt is made to cover completely the entire field of human genetics but growing points of research are selected for attention.

This timely book bridges the existing gap between the discipline of genetics and other disciplines of the health sciences for . . .

- CLINICAL INVESTIGATORS, especially PEDI-ATRICIANS and INTERNISTS, who work with familial disease states
- TEACHERS OF HUMAN GENETICS who require a source book for students in health sciences
- PHYSICIANS, BIOCHEMISTS and other BIOLO-GISTS interested in broadening their understanding of recent advances in the field of human and experimental genetics

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