

## Editorial Committee

*Editors:* Richard H. Dobbs and Douglas Gairdner

G. Arneil  
B. D. Bower  
I. J. Carré

Barbara Clayton  
W. M. Dennison  
John L. Emery

J. W. Farquhar  
Hugh Jolly  
Paul E. Polani

L. B. Strang  
J. Sutcliffe  
O. Wolff

Appointed by the British Paediatric Association and the British Medical Association.

President of the British Paediatric Association

Editor, *British Medical Journal*

### Notice to Contributors

Papers for publication should be sent to the Editors, *Archives of Disease in Childhood*, B.M.A. House, Tavistock Square, London W.C.1. Submission of a paper will be held to imply that it contains original work which has not been previously published. Permission to republish must be obtained from the Editors.

Papers should in general confirm to one of the following categories.

(1) *Original communications.*

(2) *Review articles.* These will generally be by invitation, but authors wishing to prepare a review article or to suggest a subject for review may communicate with the Editors.

(3) *Shorter papers.* Preliminary communications. Descriptions of new methods or apparatus. Case reports bringing to notice conditions of considerable rarity or interest.

Papers should be typewritten top copies in double spacing; alterations in proof apart from printers' errors are not permissible.

One galley proof will be sent to the author submitting the paper.

*Reprints.* Fifty reprints are supplied free and further reprints may be ordered when the proof is returned.

Authors wishing to indicate that requests for reprints should be addressed to them, should do so immediately before the list of references, if necessary giving their address.

*Illustrations.* Diagrams should be drawn in black on stout white paper; any lettering may be lightly inserted in pencil. Photographs and photomicrographs should be on glossy paper, unmounted, and trimmed to include only the relevant portion: any lettering, etc., to be inserted should be indicated on a separate transparent sheet overlapping the picture, and not on the photograph itself. Figures should be numbered in Arabic numerals. The legends should be typed on a separate sheet.

Coloured illustrations may be considered, but the author will usually be asked to contribute to the cost.

*Tables.* These should be typed on a separate sheet, be numbered in Roman numerals, and be provided with a title.

**Metric System.** The metric system must be used; temperature must be given in

centigrade; haemoglobin in g./100 ml. (other units may be added in parentheses).

*Abbreviations.* These should conform precisely with the conventions adopted in current numbers of this journal, to which authors should refer.

*References.* These should follow exactly the method current in this journal, to which authors should refer.

The list of References in alphabetical order should be typed with treble spacing on a separate sheet and should include the names of all authors, followed by initials; the year of publication in parentheses; the full title of the article or book; the abbreviated title of the journal according to World Medical Periodicals (3rd ed., 1961, W.M.A.); the volume number; and the page. For books, the publisher and the town of publication should also be given.

Failure to observe these directions will lead to delay in publication.

### Notice to Advertisers

Applications for advertising space and rates should be made to the Advertisement Manager, *Archives of Disease in Childhood*, B.M.A. House, Tavistock Square, London W.C.1.

### Notice to Subscribers

The annual subscription rate is £4 4s. 0d. in the United Kingdom and the Republic of Ireland, and £4 15s. 0d. in all countries overseas. Overseas subscriptions should be paid in sterling, i.e. £4 15s. 0d., and sent by Mail Transfer—*Charges Remitter*—through a Bank, payable to the British Medical Association. Orders can also be placed locally through any leading subscription agent or bookseller. (For the convenience of readers in the U.S.A. subscription orders, with or without payment, may also be sent to: BRITISH MEDICAL JOURNAL, 80 Brighton Avenue, Boston, Mass. 02134. All inquiries, however, must be addressed to the Publisher in London.)

COPYRIGHT © 1968 by *Archives of Disease in Childhood*. All rights of reproduction are reserved in respect of all papers, articles, tables, illustrations, etc., published in this Journal in all countries of the world.

functional reserve. There is little correlation between the siderophilin level and the packed cell volume in our series ( $r = 0.508$ ,  $p > 0.05$ ), suggesting that other factors are probably more relevant in the anaemia. More detailed knowledge of the amino acid requirement for production of each individual protein is required before one can speculate on the mechanism of this extreme and highly reversible defect.

### Summary

Serum siderophilin levels were profoundly depressed in a series of 21 patients with kwashiorkor.

The level correlates with independent grading of the severity of the disease.

Siderophilin level was far more profoundly depressed than the total serum protein level. It correlated poorly with the packed cell volume.

The defect was rapidly reversible by high protein diet.

The possible usefulness of this simple test in

diagnosis, in grading the severity of the disease, and in research on means of treatment is discussed.

We are grateful to Professor R. G. Hendrickse for advice and help in this study, to Dr. H. C. Goodman of the World Health Organization Immunology Division for support to one of us (J.F.S.) as Temporary Consultant during the period of this study, and to Mr. A. O. Bameke, A.M.I.L.T. of the Department of Chemical Pathology for technical assistance.

### REFERENCES

- Edozien, J. C. (1960). The serum proteins in kwashiorkor. *J. Pediat.*, **57**, 594.
- , and Udeozo, I. O. K. (1960). Serum copper, iron and iron binding capacity in kwashiorkor. *J. trop. Pediat.*, **6**, 60.
- Gornall, A. G., Bardawill, C. J., and David, M. M. (1949). Determination of serum proteins by means of the biuret reaction. *J. biol. Chem.*, **177**, 751.
- McFarlane, H., and Udeozo, I. O. K. (1968). Immunochemical estimation of some proteins in Nigerian paired maternal and fetal blood. *Arch. Dis. Childh.*, **43**, 42.
- Neale, F. C., and Soothill, J. F. (1958). Unpublished data. Quoted by Soothill, J. F. (1967). Quantitative disturbances of plasma proteins in disease. *Sci. Basis Med. ann. Rev.*, **276**.
- Soothill, J. F. (1962). Estimation of 8 serum proteins by a gel diffusion precipitin technique. *J. Lab. clin. Med.*, **59**, 859.

---

*The following articles will appear in future issues of this Journal:*

- Review Article:* Disorders of the Serum Lipoproteins. II: Hyperlipoproteinaemic States. By June K. Lloyd.
- Effect on Height of Corticosteroid Therapy in Asthmatic Children. By K. F. Kerrebijn and J. P. M. de Kroon.
- Long-term Dwarfing Effects of Corticosteroid Treatment for Childhood Nephrosis. By C. N. Lam and G. C. Arnel.
- Malaria Prophylaxis and Immunosuppressant Therapy in Management of Nephrotic Syndrome Associated with Quartan Malaria. By J. W. Kibukamusoke.
- Diagnosis and Treatment of Tyrosinosis in a Girl. By A. Fairney, D. Francis, R. S. Ersser, J. W. T. Seakins, and D. Cottom.
- Hypertension and Excretion of 1-oxygenated Steroids. By R. W. H. Edwards, D. R. Harvey, and E. Knight-Jones.
- Growth Hormone Secretion in Subjects with Ovarian Dysgenesis and Turner's Syndrome. By S. R. Meadow, B. J. Boucher, K. Mashiter, M. N. R. King, and L. Stimmler.
- Familial Haemophagocytic Reticulosis. By R. J. M. Bell, A. J. E. Brafield, N. D. Barnes, and N. E. France.
- Primary Congenital Hydrocephalus. Long-term Results of Controlled Therapeutic Trial. By J. Lorber and R. B. Zachary.
- Extensive Vascular Calcification in Association with Juvenile Rheumatoid Arthritis and Amyloidosis. By M. McC. Reid and T. F. Fannin.
- Glycogen Storage Disease Type IV, Amylopectinosis. By B. Levin, E. A. Burgess, and P. E. Mortimer.
- Clinico-pathological Study of Thymic Dysplasia. By C. L. Berry and E. N. Thompson.
- Simple Tests of Ventilatory Capacity in Children with Cystic Fibrosis. Part I: Clinical and Radiological Findings in 85 Cases. Part II: Three-year Follow-up on 50 Patients. By M. B. Mearns.
- A Working Population Model for Haemolytic Disease of the Newborn. By E. G. Knox and W. Walker.
- Internal Anal Sphincter. Observations on the Development and Mechanism of Inhibitory Responses in Premature Infants and Children with Hirschsprung's Disease. By E. R. Howard and H. H. Nixon.