



*In Bronchial Asthma  
Acute and Chronic Bronchitis  
Bronchiectasis and Atelectasis*

## **Tryptar Aerosol**

The value of TRYPTAR AEROSOL in these conditions has been emphasised in recent clinical evidence (1, 2), where optimal tracheobronchial cleansing without irritation is required.

## **Pure Crystalline Trypsin**

TRYPTAR AEROSOL is non-antigenic and no sensitization phenomena have been reported in over 250 cases of intermittent and repeated treatments.

*Presentation :* Carton containing 1 vial 125,000 Armour Units Pure Crystalline Trypsin and 3 ml. ampoule Tryptar diluent. Also available for local and intrapleural use, in vials of 50,000 and 250,000 Armour Units Pure Crystalline Trypsin.

*Samples and literature  
will be supplied on request.*

### *References*

- (1) *Lancet* 1957, ii, 820.  
(2) *Lancet* 1957, ii, 1005.



**THE ARMOUR LABORATORIES**  
(Armour & Company Ltd.)

Hampden Park, Eastbourne, England

Telephone :  
Hampden Park 740

Telegrams :  
Armolab ' Eastbourne



MONOFILAMENT WIRE  
MULTIFILAMENT WIRE  
GAUZE

## The Chemotherapy of Tuberculosis

Each year many new substances are comprehensively screened for tuberculostatic activity in the Smith & Nephew Research Laboratories. In addition, world literature is carefully scanned so that information on all aspects of the control of tuberculosis is constantly available to ourselves and to interested consultants and research workers. In keeping with our policy of being fully abreast of all developments in this particular field, we screen not only compounds synthesised in our own laboratories, but also compounds which may have been reported in world literature.

### 5-Bromsalicylhydroxamic Acid

Recent publications\* on a new chemotherapeutic agent, 5-Bromsalicylhydroxamic Acid, suggest that it may be of value as a replacement for PAS in combined chemotherapy of tuberculosis. A comprehensive survey of the literature, mostly published in Poland, led us to believe that investigation of the Polish claims was merited, and first-hand information was obtained from discussions with the authors of the Polish papers.

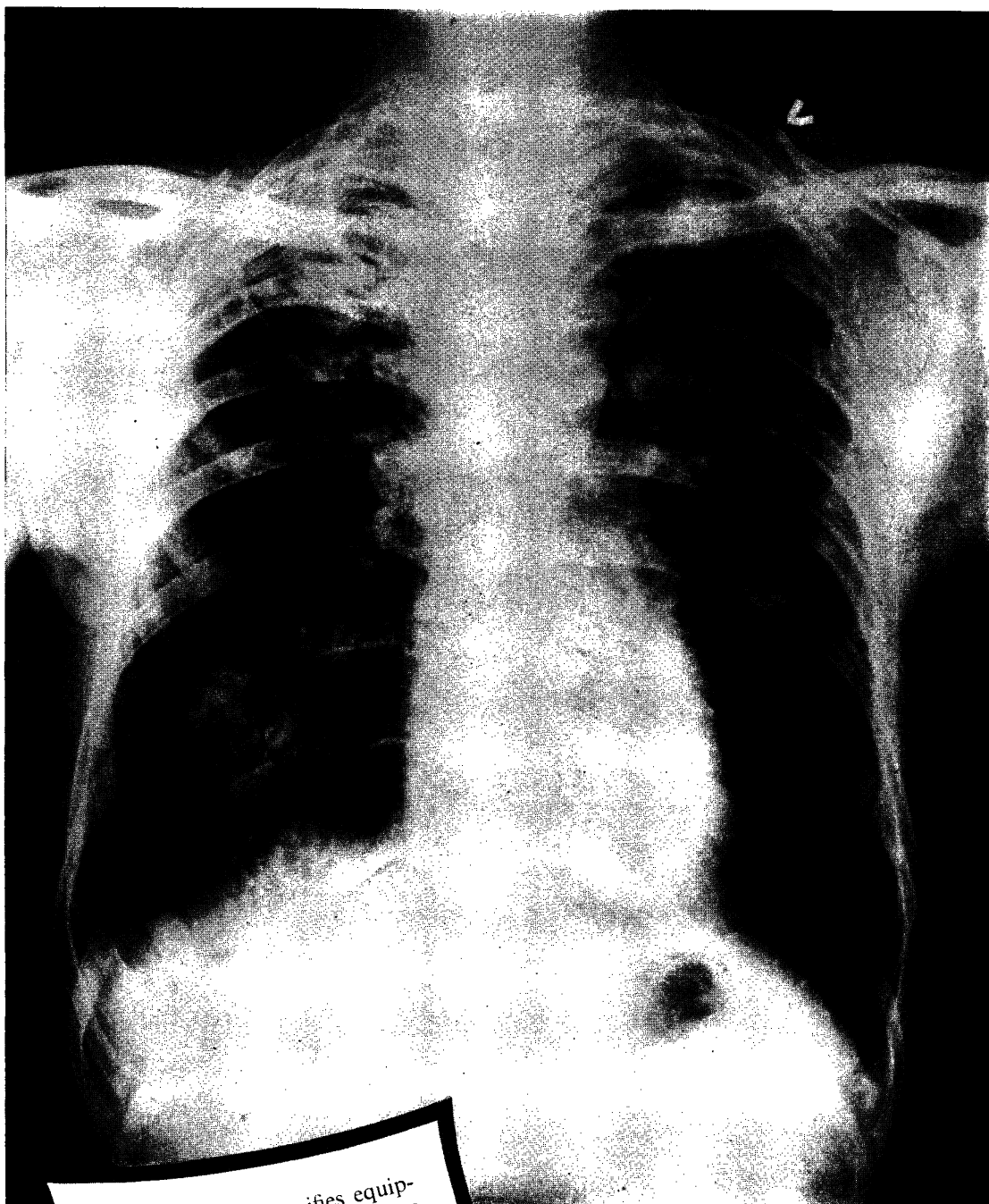
It is our considered opinion, after assessing all the available data that, whilst 5-Bromsalicylhydroxamic Acid may have a place in the chemotherapy of tuberculosis, further work, both experimental and clinical, must be undertaken with it before its use can be recommended. Therefore, extensive clinical trials in this country have been arranged and until the results of these trials are known, we cannot recommend its general use. Supplies of 5-Bromsalicylhydroxamic Acid have been made available for selected clinical investigation under controlled conditions, and a comprehensive dossier containing all available data has been compiled.

\* *Brit. J. Tuberc.* 1958, 52, 19.  
*Lancet*, 1958, 1, 746.



"Specialists in tuberculostatic drugs"

**SMITH & NEPHEW PHARMACEUTICALS LIMITED**  
**WELWYN GARDEN CITY · HERTS**



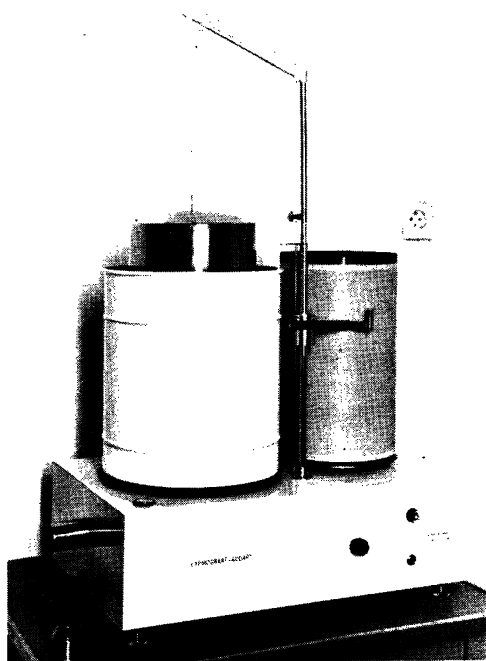
The radiologist specifies equipment and materials he knows and trusts. It's not by chance that he chooses 'Kodak' Blue Brand X-ray Film and 'Kodak' X-ray Liquid Chemicals.

# Kodak

Kodak Limited, Medical Sales Division  
Kodak House, Kingsway, London, W.C.2

'Kodak' is a registered trade-mark

# **GODART-MIJNHARDT LTD. present a survey of instruments covering the whole field of Pulmonary Function**



★ *WHY NOT SEND FOR OUR SYNOPSIS  
LEAFLET TODAY?*

## **THE GODART EXPIROGRAPH**

—apparatus for the measurement of the  
Vital Capacity, Maximum Breathing Capacity  
and Forced Expiratory Volume.

★ *WRITE FOR DETAILS OF:—*

For Lung Function  
and Volume Measurement

The Pulmotest  
Expirograph  
Pulmometer  
Pneumotachograph  
Compliance Test

For the Recorded Analysis  
of all Respiratory Gases

The Pulmo-Analysor  
Capnograph  
Katapherometer  
Nitrograph  
Magnos  
Micro Scholander

For Blood Gases and  
Pressures

The Oxymeter  
Haemoxytensimeter  
Van Slyke  
Warburg  
Intracardiometer

See our equipment at the NAPT Commonwealth Conference, 1st-4th July.

Also offered are details of a complete range of recorders and electrocardiographs.



## **GODART-MIJNHARDT LTD.**

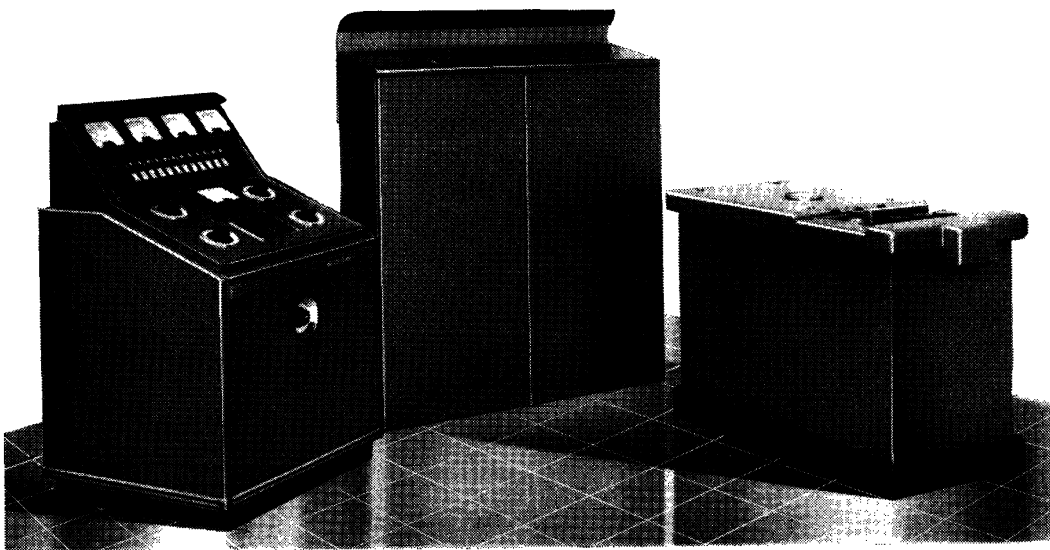
37, Central Park Gardens, Chatham, Kent

Tel. Chatham 44384

# THE DEAN D66

SIX-VALVE      THREE-PHASE  
DIAGNOSTIC GENERATOR

- ★ Electronic timing and switching
- ★ Exposure times down to 0.0033 secs.
- ★ 1000 mA and 130 kVp
- ★ Pre-reading mAs meter and tube load meter
- ★ Electronic Monitor tube protection
- ★ 12 exposures per second on two tubes at high loadings
- ★ Simple precise controls giving safe but free use of tubes



*Write for Publication No. 109 T.P.*



PROGRESS WAY · CROYDON · ENGLAND

Telephone: CROYdon 0188,9

Telegrams: Frequency, Croydon

Midland Agents: Watson & Glover, 2 Easy Row, Birmingham

Scottish Agent: H. A. West, 41 Watson Crescent, Edinburgh 11

SERVICE FACILITIES AT MANCHESTER, LEEDS AND BOURNEMOUTH

HIGHEST TOLERATION

PRACTICAL  
DOSAGE COMBINATIONS

SATISFACTORY  
CLINICAL RESPONSE

*These are the advantages of*

**Calcium B-PAS WANDER**

*and*

**B-Pasinah WANDER**

(calcium B-PAS Wander plus isoniazid)

*in the*

**Chemotherapy of Tuberculosis**

**B-PAS (Wander)**, 4-benzoylamino-2-hydroxybenzoic acid, first introduced by our Research Laboratories in 1948, is the drug of choice in regimens comprising PAS in concurrent therapy.

In the form of its calcium salt, it provides extended bacteriostatic levels, induces only minimal side-effects as compared with sodium PAS, and because of its high acceptability guarantees as far as possible that patients, particularly on domiciliary treatment, do take their medication.

**Available** in 3.5 g. envelopes and in 1 g. cachets; and as bulk powder.

**'B-PASINAH'** is available in two convenient forms :

**Powders** each containing  
3.5 g. calcium B-PAS (Wander)  
and 87.5 mg. isoniazid.

**Cachets** each containing  
1 g. calcium B-PAS (Wander)  
and 25 mg. isoniazid.

Full abstracts from literature, also details of  
institutional packs and prices from the Medical Department

**A. WANDER LIMITED**

**42 Upper Grosvenor Street, Grosvenor Square, London W.1**



M.400



**"We are getting  
our most consistent  
results with these  
3 Ilford X-ray films"**

**STANDARD.** Renowned for its versatile performance, this widely used screen-type film affords ample speed together with good definition, very low fog and excellent contrast at all densities. Its balanced characteristics combine to make it an ideal general-purpose film, capable of producing radiographs of superb quality in the most varied exposure conditions.

**RED SEAL.** The extra sensitivity of this extremely fast screen-type film can be utilised in many different ways. Of particular advantage when dealing with heavy subjects, in rapid serial radiography and wherever very brief exposures are necessary, it is of special significance as a means of reducing radiation exposure to a minimum, thereby limiting the hazards encountered by subject and operator alike.

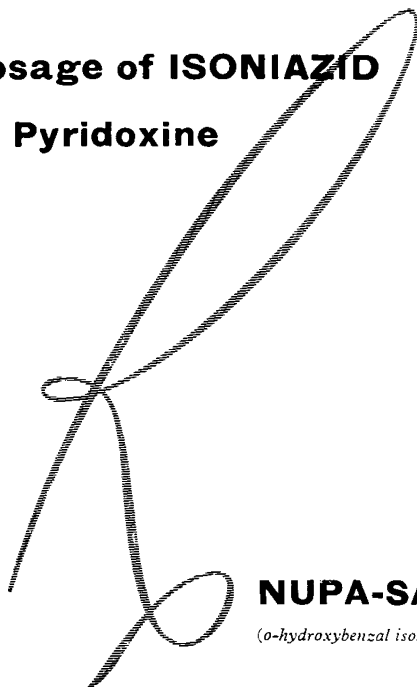
**ILFEX.** Specifically intended for use without intensifying screens, this very fast, high-contrast film is particularly recommended for radiography of the limbs and for the special investigation of bone detail. It may be used to advantage, however, for any subject where the increased exposure required by the non-screen technique can be tolerated in the interest of improved definition, brilliance and clarity.



**X-RAY FILMS**



## High dosage of ISONIAZID without Pyridoxine



### NUPA-SAL tablets

(*o*-hydroxybenzal isonicotinyl hydrazone)

This new derivative of isoniazid can be given in high dosage (up to 3 G. daily) without incurring the risk of neurotoxicity.

*Available as 100 mg. and 250 mg. tablets:*



'Specialists in tuberculostatic drugs'

*Literature from*

SMITH & NEPHEW  
PHARMACEUTICALS LTD.  
WELWYN GARDEN CITY • HERTS.



# ***Deltacortril***

BRAND OF PREDNISOLONE

in the treatment of

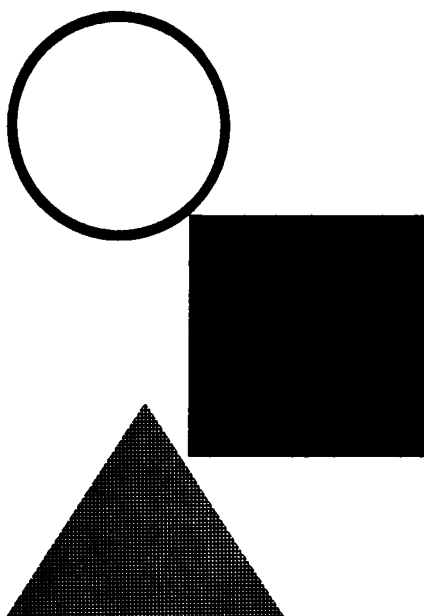
## **PULMONARY TUBERCULOSIS**

In 1956 the Research Committee of the Tuberculosis Society of Scotland embarked on a trial involving 200 cases in an attempt to evaluate the use of steroids in the treatment of tuberculosis.

*The summarised conclusions expressed in their preliminary report are quoted hereunder :*

- 1** "Preliminary results of treatment in a controlled trial are reported in which 46 patients were treated with chemotherapy alone and 44 with identical chemotherapy plus prednisolone."
- 2** "Clinical improvement was more rapid, especially in those acutely ill, in those treated by prednisolone, and there was a more rapid fall in the erythrocyte sedimentation rate in this group."
- 3** "Radiological improvement was significantly hastened by prednisolone over a six-months period, most of the significant difference occurring in the first two months. Cavity closure and sputum conversion were slightly hastened by prednisolone, but not to a significant degree."
- 4** "No patients receiving prednisolone showed any significant evidence of deterioration, though a temporary 'rebound' phenomenon was observed radiologically in one-sixth of cases. No serious side-effects were recorded."

*A booklet presenting a review of the subject to date is available on request from the Medical Service Department.*



Deltacortril is available  
as 5 mg. tablets in bottles  
of 10, 20, 100, 500 and 1,000  
and as 1 mg. tablets (for a fine  
adjustment of dosage) in  
bottles of 100 and 500.

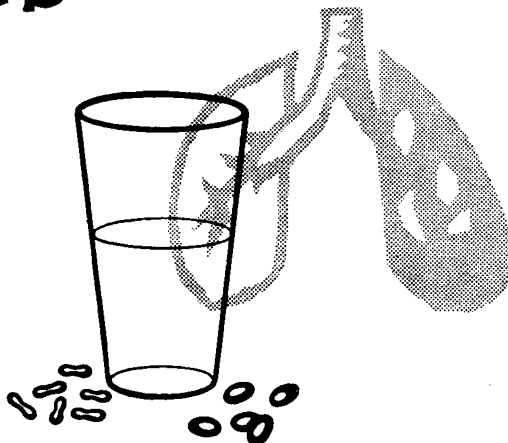


\*Trade Mark

**PFIZER PHARMACEUTICALS**

Manufactured at Sandwich and processed at Folkestone, Kent

**PAS** *in its most agreeable form...*



# Bactylan

**ENTERIC COATED GRANULES AND DRAGEES**

## REDUCE INTOLERANCE TO A MINIMUM

**TASTELESS** Bactylan enteric coating avoids entirely the unpleasant taste of PAS

**NO GASTRITIS** Enteric coating completely avoids contact of PAS with the gastric mucosa

**EASY TO TAKE**

- Granules are specially intended for patients who have difficulty in swallowing
- Dragees are ideal for patients at work



**LONDON N.W.10  
LADbroke 6611**

*GRANULES containing half their weight of PAS. Tins of 350G.  
DRAGEES each containing 0.69G. of PAS. Tins of 250 dragees.*



High tensile strength



**Davis & Geck**

**SURGILAR**

**HEAT STERILIZED GUT IN PLASTIC ENVELOPES**

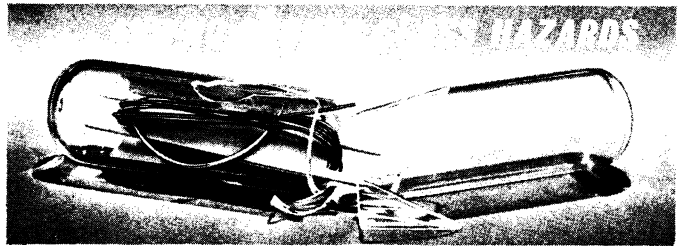
Gives surgeons improved gut

Loose coil packaging delivers a stronger, more flexible strand

Keeps broken glass out of the theatre

Saves 1/3rd nurses' handling time

Saves 50% storage space



SURGILAR envelopes are packed in wide-necked jars for easy and quick removal. Jar solution ensures complete safety. A full range of plain and chromic gut is now available.

**STANDARD LENGTHS (Sterilized)**

Type	Length	Sizes
PLAIN	5 ft.	4-0 to 3
Non-boilable		
MEDIUM	5 ft.	4-0 to 3
CHROMIC		
Non-boilable		

**Package**

Jars of 1 doz.  
and 3 doz. envelopes  
Jars of 1 doz. and 3 doz. envelopes



★ **WRITE FOR FULLY  
DESCRIPTIVE BOOKLET**

Sole Distributors in United Kingdom



Head Office: **THE OLD MEDICAL SCHOOL, PARK STREET, LEEDS 1**

Tel. 20085 (5 lines). Cables: "Aseptic, Leeds 1."

London Office: 38 Welbeck Street, London W.1. Tel. WELbeck 8152/3.

Also at Johannesburg and Cape Town.

**THE POST-OPERATIVE CHEST**

By H. T. LANGSTON *et al.* 244 pages,  
378 illustrations. 60s.

**ROENTGENOLOGY OF THE CHEST**

By C. B. RABIN *et al.* 504 pages, 247  
illustrations. £7 7s.

**CIRCULATION: Proceedings of the Harvey Tercentenary Congress, 1957**

*Edited by* JOHN McMICHAEL. 380 pages,  
224 illustrations. About 45s.

**THE TREATMENT OF BRONCHIAL NEOPLASMS**

*Edited by* R. R. SHAW. *In preparation.*  
Price indefinite

**NEW AND STANDARD WORKS****NON-TUBERCULOUS DISEASES OF THE CHEST**

*Edited by* A. L. BANYAL. 1152 pages,  
280 illustrations. £6 15s.

**LUNG ABSCESS**

By SIR RUSSELL BROCK. 200 pages,  
60 illustrations. 35s.

**SUBPHRENIC ABSCESS**

By H. R. S. HARLEY. 224 pages, 76  
illustrations. 35s.

**TUBERCULOSIS—EVERY PHYSICIAN'S PROBLEM**

By J. ARTHUR MYERS. 304 pages,  
35 illustrations. 57s. 6d.

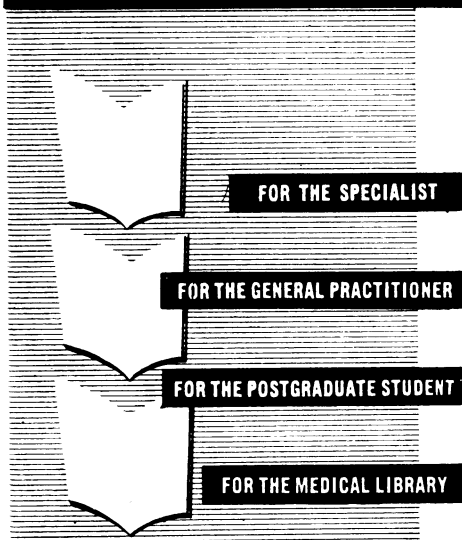
**THE LUNG AS A MIRROR OF SYSTEMIC DISEASE**

By E. H. RUBIN. 312 pages, 207 illustrations. 95s.

**THE SURGICAL MANAGEMENT OF PULMONARY TUBERCULOSIS**

*Edited by* J. STEELE. 248 pages, 175 illustrations. 72s.

—BLACKWELL SCIENTIFIC PUBLICATIONS • OXFORD—

**ABSTRACTS OF WORLD MEDICINE**

*A monthly journal of informative abstracts — covering every important article published in over 1,600 medical periodicals throughout the world — dealing in each issue with a comprehensive range of subjects.*

Allergy  
Anaesthetics  
Bacteriology  
Cardiovascular Diseases  
Chemotherapy  
Dermatology  
Endocrinology  
Forensic Medicine  
Gastroenterology  
Haematology  
History of Medicine  
Industrial Medicine  
Infectious Diseases  
Medical Genetics  
Neurology and Neurosurgery

Nutrition and Metabolism  
Otorhinolaryngology  
Paediatrics  
Pathology  
Pharmacology  
Physical Medicine  
Psychiatry  
Public Health  
Radiology  
Respiratory Diseases  
Rheumatic Diseases  
Tropical Medicine  
Tuberculosis  
Urogenital Diseases  
Venereal Diseases

A specimen copy may be obtained free from the Publishing Manager

**BRITISH MEDICAL ASSOCIATION**

B.M.A. House, Tavistock Square, London, W.C.1

ANNUAL SUBSCRIPTION  
(12 issues) 14 4s.  
U.S.A. AND CANADA  
\$13.50

## EMERGENCIES IN GENERAL PRACTICE

This book comprises 57 specially commissioned articles on medical emergencies which appeared originally in the *British Medical Journal*.

Contents include haemorrhage and thrombosis, cardio-respiratory crises, anaesthesia and hazards of therapy, acute abdominal cases, obstetrics, fits and coma, electrocution, burns and gassing, poisoning, acute psychiatric states, and special and minor surgery.

Invaluable to all doctors everywhere.

470 pages, cloth bound with full index. 25s. net (by post 26s. 9d.).

## CLINICAL PATHOLOGY IN GENERAL PRACTICE

This handbook on clinical pathology meets the needs of the general practitioner, the houseman, and the senior student. It contains thirty-nine articles comprising a series specially written for the *British Medical Journal*. Each article has been revised and brought up-to-date by its author. The book gives authoritative information on available laboratory facilities; reliable tests and which to use; techniques for collecting and preserving specimens; interpretation of results and significance of abnormal findings.

321 pages. Price 21s. (by post 22s. 3d.).

## REFRESHER COURSE FOR GENERAL PRACTITIONERS

*Second Collection*

*Third Collection—with  
Classified Contents List  
to volumes 1, 2 and 3*

Each book contains a collection of sixty Refresher Course articles from the *British Medical Journal*. Each article, written by an acknowledged expert, has been revised by its author. The articles cover a wide range. Their object is to refresh the reader's memory of what is old and well-established and to tell him about new developments.

They are invaluable to general practitioners and residents as practical reference books, to specialists as a means of keeping in touch with developments outside their own field, and to final-year students as up-to-date and reliable textbooks.

25s. each (by post 26s. 9d.).

## "ANY QUESTIONS?"

*Second Series*

*Third Series—with  
Cumulative Index*

These pocket-size volumes each contain some 200 questions and expert answers from the "Any Questions?" pages of the *British Medical Journal*. Each answer has been chosen for its practical value to doctors in their day-to-day work. Many deal with subjects not covered in the standard textbooks.

The Third volume has a cumulative index to all the answers appearing in the three books in the series.

7s. 6d. each (by post 8s. 3d.).

Obtainable from booksellers or by post from

**BRITISH MEDICAL ASSOCIATION**

B.M.A. HOUSE, TAVISTOCK SQUARE, LONDON, W.C.1

# **CYCLOSERINE**

-----**LILLY**-----

***A new antibiotic for the treatment of  
SEVERE PULMONARY TUBERCULOSIS***

Clinical reports indicate that Cycloserine has a definite place in the treatment of severe pulmonary tuberculosis resistant to the action of other drugs. Symptomatic improvement has included sputum conversion, weight gain, reduction of fever and a feeling of well-being. Radiological improvement has been observed in some cases. Owing to the possibility of severe reactions in some patients Cycloserine will be restricted initially to hospitals only.

*Cycloserine Lilly is now available as 'Pulvules' of 250 mg., in bottles of 40 and 500.*

*Lilly*

*Detailed literature is available on request.*

**ELI LILLY & COMPANY LIMITED • BASINGSTOKE • ENGLAND**