

Madras
Medical College
Magazine



Vol. VIII No. 2

OCTOBER 1928

Telegrams: "Injectule"

Established 1919.

BENGAL IMMUNITY CO., LTD.

ESTABLISHED 1919

*The Premier Establishment for the Manufacture of Sera,
Vaccines, Injectules and other Organo-therapeutic Products.*

AWARDED GOLD MEDALS AT THE ALL-INDIA MEDICAL EXHIBITIONS

BOARD OF DIRECTORS:

Hon'ble Sir Nitraton Sircar, K.L., M.A., M.D.

Dr. Harinath Ghose, M.D., Rai Bahadur.

Hari Sankar Palu, Esq., of Messrs B. K. Paul & Co.

Dr. Pramatha Nath Nandy, M.D., Prof. of Pharmacology, Carmichael
Medical College, Calcutta.

Dr. Bamandas Mukherjee.

Captain N. N. Dutta, M.B., Managing Director.

THE WORKING COMMITTEE:

Dr. Bidhan Chandra Ray, M.D., M.R.C.P. (Lond.) F. R. C. S. (Eng.)

Dr. Harinath Ghose, M.D., Rai Bahadur.

Dr. Pramatha Nath Nandy, M.D.

Dr. Charu Chandra Bose, M.B.

Dr. Amulya Ratan Chakravarty, B. Sc., M.B.

Dr. Hemendra Nath Ghose, M.B.

Dr. Bimal Chandra Das, B. Sc., M.B.

Captain N. N. Dutta, M.B., Managing Director.

Laboratory fitted up with most up-to-date apparatus. Works
carried on under the direct supervision of medical experts
and hence products absolutely genuine and reliable.

Vaccines prepared from virulent strains.

OUR SERA

A SPECIALITY

The only fresh and genuine Sera in the Market.

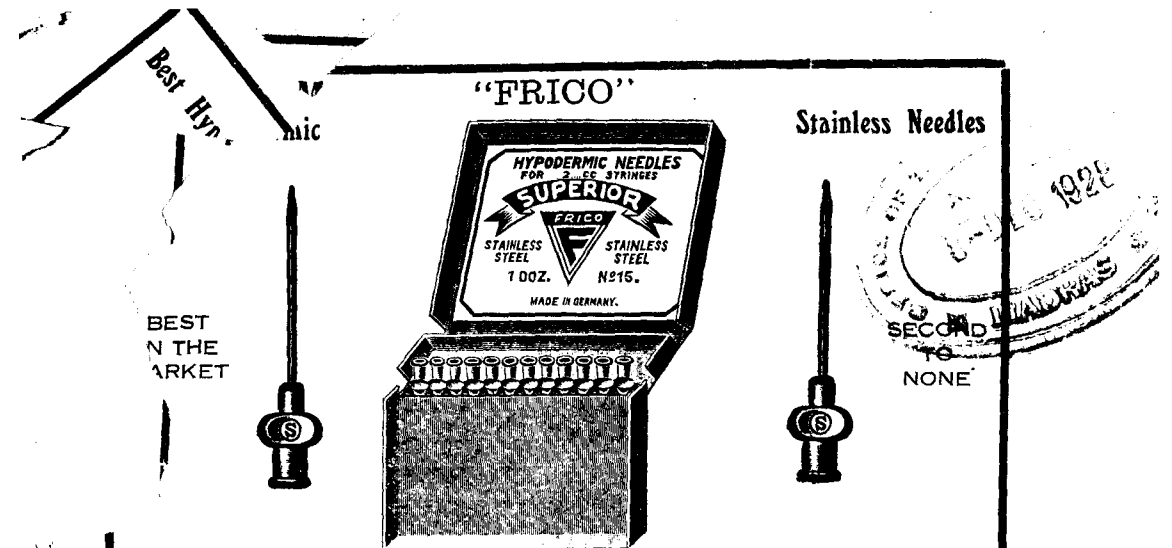
Sera titrated according to Ehrlich's methods and the methods prevailing
in the State Institute of Vienna.

Antidysenteric, Antistreptococcal (Polyvalent Erysipelas and Puerperal), Diphtheria Antitoxic and Normal Horse Sera

Liberal Commission allowed to Hospitals, Chemists,
Druggists and profession.

*For Terms, Lists and Literatures please write to the
Managing Director,*

153. DHARMTOLLA STREET, CALCUTTA



THE IDEAL HYPODERMIC NEEDLES.

MADE OF RUSTLESS STEEL.

All Hypodermic Needles used hitherto could not give entire satisfaction to the medical profession. Medical men require a needle, which has a sharp and durable point, and which is spring tempered and does not easily become rusty. All used so far have some disadvantages.

STEEL NEEDLES. Although well tempered are subject to getting rusty too easily.

PLATINUM NEEDLES. Although absolutely rustproof are soft and besides for general use too expensive.

COMPOSITION NEEDLES.—So called Rustproof,—are still too soft.

Quite a revolution has taken place after the invention of the rustless or stainless steel. The new steel alloy is known as being rust resisting, and of all the stainless Steel Hypodermic Needles on the market the

SUPERIOR STAINLESS NEEDLES "FRICO"

claim for themselves of being the best make, so far produced.

FRICO NEEDLES ARE { guaranteed spring tempered
absolutely rust resisting
therefore the cheapest in use.

ASK ALWAYS FOR THE

STAINLESS "FRICO" NEEDLES

THEY ARE THE BEST!

*Sole Agents for Madras Presidency including
Native States and Ceylon:—*

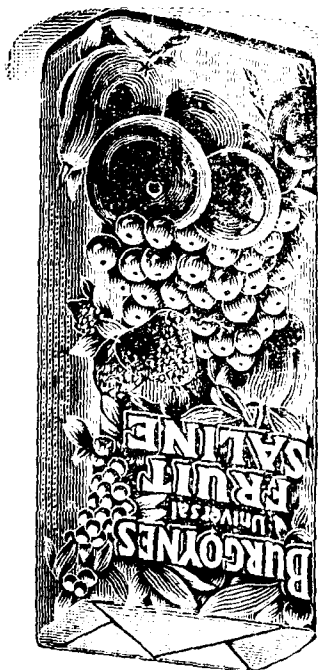
THE SOUTH INDIAN MERCANTILE CO.,

12, Mannaru Street, Park Town, Madras.

When writing to advertisers, please mention this Magazine.

BURGOYNE'S

UNIVERSAL FRUIT SALINE FOR PURITY



Overcome errors of diet which choke up the system, lead to constipation, fermentation in the stomach, and an impure state of the blood by the regular use of BURGOYNE'S FRUIT SALINE. Get that feeling of fitness and vigour which is characteristic of the clean and healthy system. Burgoyne's Fruit Saline keeps you fit and well.

Look for the Trade Mark.



It represents 180 years' reputation for purity and reliability. Sold by all Chemists throughout India.

BURGOYNE'S IODISED SARSAPARILLA

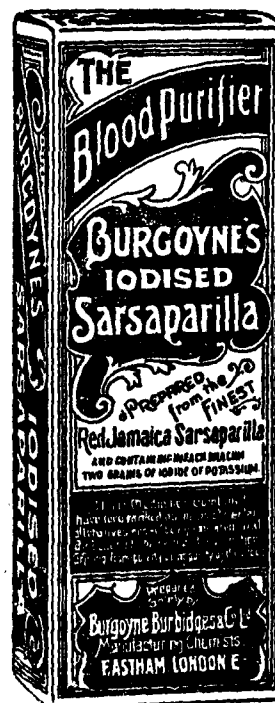
Pure Blood means good health. A host of ills and diseases arise from an impure condition of the blood, resulting in a feeling of lassitude, disinclination for wit or pleasure, and lack of interest in life generally. Pimples, sores, blotches, ulcers, rashes, ulcerated surfaces, eczema, glandular swellings, abscesses, and scurvy are all manifestations of blood impurity.

Avoid or correct these disorders of the blood by taking Burgoyne's iodised Sarsaparilla. Thousands testify to its remarkable healing properties, cleanses the blood of all impurities and restores a healthy condition to the skin. You want the best, so be sure you ask for Burgoyne's and get it.

BURGOYNE BURBIDGES & CO., Limited,
EAST HAM, LONDON.

Agents for Madras Presidency:—

THE SOUTH INDIAN MERCANTILE CO.,
Post Box No. 505, P. T., Madras



When writing to advertisers, please mention this Magazine.

AMERICAN APOTHECARIES COMPANY

299 ELY AVENUE

LONG ISLAND CITY, NEW YORK

VESICAL AND URETHRAL DISORDERS.

The diuretic and alkalinizing action of Salvitae induces a distinct and liberal flushing of the urinary tract by means of an increased flow of kidney secretion of diminished acidity. As the various ingredients of Salvitae are largely excreted through the urinary organs, their soothing, emollient and antiseptic action is exerted upon the inflamed or congested mucosa. The selective antiseptic activity of the formalde-hyde derivatives positively tends to prevent the decomposition of urine in the bladder which would otherwise create considerable irritation and vesical distress.

Salvitae is thus of positive service in the treatment of.—

Cystitis and Urethritis, whether or not purely congestive in character or due primarily to gonorrheal or other venereal infection, Pyuria, Prostatic Enlargement, etc.

Gonorrhea is promptly benefited by the administration of Salvitae. It reduces the hyperacidity of the urine, renders it antiseptic and thus allays the local pain and irritation incident to micturition, and, at the same time, tends to inhibit the development of gonococci.

Sole Agents for India:—Muller Maclean & Co.,

Bombay, 118, Gunbow St., Fort.

Calcutta 8, Old Court House Corner.

Factories:—SIALKOT.

CODES USED
A. B. C. & Bentley's

Specialists in :—
Tennis
Cricket
Hockey
Foot Ball etc.,
etc.

SHARMAN & Co.

MECHANICAL
RESTRINGING
OF RACKETS,
& REPAIRS
A SPECIALITY.

Sporting Goods Manufacturers & Outfitters,
MOUNT ROAD, MADRAS. (India.)



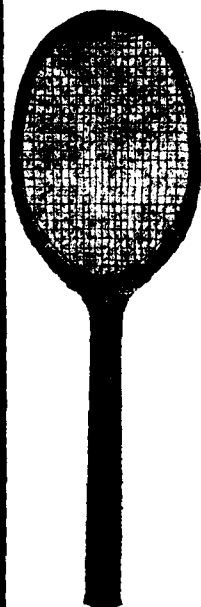
TIME WILL TELL YOU OF MANY
TENNIS PLAYERS THAT HAVE
THEIR "FAVORITE" LEE RACKET
STILL IN USE, PURCHASED
WHEN IN SCHOOL OR COLLEGE.
IN THE RUSH OF BUSINESS THESE MEN DO NOT
PLAY AS OFTEN AS THEY USED TO, BUT WHEN
THEY DO THE OLD RELIABLE STILL WINS FOR
THEM.

*AN INVITATION TO
SPORTING PUBLIC*

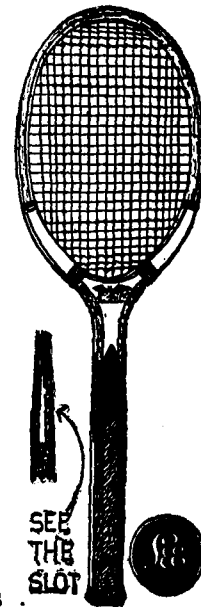
*We are the specialists in all kinds
of sporting goods and
our goods defy criticism.*

*Sole Agents for the 'BAT' racket
FAVOURITE OF CHAMPIONS*

WIDE SELECTIONS IN ENGLISH & INDIAN RACKETS
IMPORTED RACKETS. INDIAN RACKETS.



	Rs.		S. A.
The 'Bat' De Lux	55	The 'Triumph'	30
" Regular	50	" Pegasus	30
The Waverly	40	" H. R. Special	30
Prosser's Super Model	60	" Burna	25
" Rolls Royce	55	" Taurus	22
" Phenomenon	52	" Tournament	20
Spalding's Tournament	32	" Electric	15
" Arrow Streak	35	" Murthi	12
H. J. Gray's Light Blue	55	" Ferrum	11
" Maxwoosnam'	52	" Uranus	10
" Cambridge'	40	" Favourite	8
" Shamrock	30	" Yellow Tint	5 8



Consult our new list for other goods:—

SHARMAN & Co.,

The 'Madras Sports Works'

Mount Road, MADRAS.

TELEPHONE No. 3544.

When writing to advertisers, please mention this Magazine.



**When rheumatism grips, the retained
heat of Antiphlogistine soothes**

As far as is known to Medical
Science there is no real cure for
Rheumatism. Ocular says "hot
applications are soothing"—

PHONE 3011

Deas Bros

Proprietors of

St. Joseph's Confectionery

The Leading Confectioners

73, Poonamalee High Road, Madras.

Will Supply fresh things everyday
Suppliers of fresh and wholesome Breads,
Buns, Biscuits and Cakes of all species

WEDDING CAKES A SPECIALITY.

MOST STUDENTS, CLERKS, LAWYERS & JUDGES

Recognise our House as the Cheapest

IN THE TRADE FOR

Stationary of every description, Fountain Pens,
Note Books, Exercise Books, Soaps, Perfumery,
Dentifrices, Brushes, Collars, Ties, Handker-
chiefs, Socks and almost every other articles for
daily use at Home or Office,

**ASK FOR WHAT MAY NOT
CATCH YOUR EYES**

ANGEL & CO.,

297
ESPLANADE
OPPOSITE
LAW COLLEGE
PUMPING STATION
MADRAS.

When writing to advertisers, please mention this Magazine

All Organotherapeutical Preparations

REQUIRED IN MODERN THERAPY!

TABLETS EXTRACTS FOR INJECTION SUBSTANCES

RICHTER'S	Corpus luteum
ADRENALIN.	Orchitic
natural, made from	Ovary
Suprarenals	Parathyroid
	Thyroid

Most efficacious remedies for the treatment of
SEXUAL NEURASTHENIA (impotence)

New Antisymphilitics!

BISMOSALVAN	NEOBISMOSALVAN
Painless!	Sure Effect!

Reliable quality!

Advantageous Prices!

Apply for samples and special offer to:

Chemical Works of Gedeon Richter, Ltd., Budapest X., Hungary

Sole Agents for Madras Presidency:—

Messrs. ASVIN & Co., 174, Broadway Madras.

When writing to advertisers, please mention this Magazine

Telegrams:—"ASVIN"

Established 1902

Telephone No. 2697



Asvin & Co.

Dispensing Chemists, Wholesale Druggists and Agents, Suppliers to the State, Mission and Government Hospitals.

Sole Agents:—

THE ABBOTT ALKALOID CO., Chicago, U. S. A.

THE BACTRO-CLINICAL LABORATORY LTD., Calcutta.

THE CHEMICAL WORKS OF GEDEON RICHTER, Budapest.
(Glandular Products).

DASTOOR SPECIFIC CO., Bombay.

THE FRENCH REMEDIES CO., Canada.

Representatives:—

J. & H. LIEBERG, Kassel

H. A. SIERAU & CO., Hamburg

T. J. SMITH & NEPHEW LTD., Hull

STAFFORD ALLEN & SONS., LTD., LONDON

PAEEL

An indispensable remedy for Wounds, Cuts, Burns, Ringworm and Diabetic Carbuncles.

174, BROADWAY MADRAS.

When writing to advertisers, please mention this Magazine.

The Madras Medical College Magazine

EDITOR

Dr. M. R. Guruswami Mudaliar, B.A., M.D. C.M.



Vol. VIII No. 2.

October, 1928.

142-896.

Indian Science Congress, MADRAS 1929.

DEAR SIR,

In connection with the Indian Science Congress which meets in Madras on the 2nd January 1929, the Local Committee is making an appeal for public support in their efforts to make the Madras Session one of the most successful ever held in India. Towards this end your active co-operation is requested and you can help by

1. generous contributions towards the expenses of the Local Committee.
2. by contributing scientific papers in one of the nine sections into which the Congress is now divided.
3. by becoming a member and
4. by accommodating a delegate in your residence during congress week.

Contributions will be gratefully received and acknowledged by the Secretaries.

The membership fees are Rs. 10/- a Full member, Rs. 5/- Associate member and Rs. 2/- Student member. In order to read a paper before the Congress it is necessary to be a Full member.

Members can be enrolled and tickets obtained by communicating with the office of the Local Committee now located at No. 44, Poonamallee High Road, Kilpauk, Madras.

Cheque may be drawn in favour of the Local Secretary, Indian Science Congress.

Yours truly,
Major K. G. PANDALAI, I. M. S.,
A. F. MACCULLOCH, M. A., B. SC.,
Local Secretaries.

THE MADRAS MEDICAL COLLEGE MAGAZINE

Vol. VIII

October 1928

No. 2

CONTENTS

	PAGE
1. AVERTIN NARKOSE By Capt. A. R. Poduval, M.B., M.R.C.S.	72
2. CLINICAL BIO-CHEMISTRY By Dr. S. Mannadi Nair, M.B., Ph. D.	77
3. DIVERTICULA OF THE SMALL INTESTINE By Mr. C. P. Viswanatha Menon, M.S.	82
4. BLOOD TESTS IN PURPURA AND HÆMOPHILIA By M. V. Parameswaran, M.B., B.S.	87
5. EDITORIAL	93
6. OBITUARY Rao Bahadur Dr. K. Madhava Menon, L.M. & S., V.H.A.S....	97
7. THE DUTIES AND RESPONSIBILITIES OF THE MEDICAL PROFESSION By Rao Bahadur M. KESAVA PAI, M.D.	99
8. LETTER TO THE EDITOR	105
9. EXTRACTS AND CASE REPORTS	107
0. OUR COLLEGE ACTIVITIES	128
1. IN LIGHTER VEIN	136
2. REVIEW	138

The Madras Medical College Magazine

Published under the auspices of
The Madras Medical College Association

MAGAZINE COMMITTEE

President : Dr. S. Mannadi Nair M.B., B.S., Ph.D.

General Editor : Dr. M. R. Guruswami Mudaliar B.A.,
M. D.

Associate Editor : Dr. T. Bhaskara Menon M.B.,
M.R.C.P.

Secretary : R. Lakshmanan.

Contributions are invited from Members of the
Medical Profession. All communications should be
addressed to :

The Secretary, Medical College Association, Madras.

RATES OF SUBSCRIPTION.

<i>Students (Including postage)</i>	...	Rs. 2 per annum
<i>All others</i>	„	... Rs. 4 per annum

AN EXCELLENT MEDIUM FOR

ADVERTISEMENT

For full particulars apply to the Secretary.

When writing to advertisers please mention this Magazine

Our New Patron



Col. MEGAW, C.I.E., M.B., I.M.S., V.H.S.

We offer our hearty greetings to Surgeon General J. W. D. Megaw, C.I.E., M.B., I.M.S., who has been posted to this presidency in place of Surgeon General F. H. G. Hutchinson.

Ever since 1907 when he came to the Calcutta Medical College as professor of Biology, he has been a career of extraordinary usefulness. He is even now remembered by his former Students with gratitude. Later on as professor of Pathology, he made himself renowned. His scientific temperament and aptitude for research were so well recognized that when the new School of Tropical Medicine was started he was chosen unhesitatingly as the Director of that institute. He was President of the Science Congress held at Calcutta in 1921. Students of Tropical medicine will be familiar with his work on "Seven day fever" of Calcutta, Dengue, Kala-azar and Dysentery. Not a little of the popularity and usefulness of *The Indian Medical Gazette* and *The Journal of Indian Medical Research* was due to his presence on their Editorial Committee.

That an officer and scientist of such experience and repute should have been posted to Madras at this time is really very opportune, when his advice is likely to be of immense service to the Government in the starting of a Pathological Department here, which we are told is under contemplation.

THE MADRAS Medical College Magazine

Vol. VIII.

OCTOBER

1928

Avertin Narkose*

BY CAPT. A. R. PODUVAL M.B., M.R.C.S.

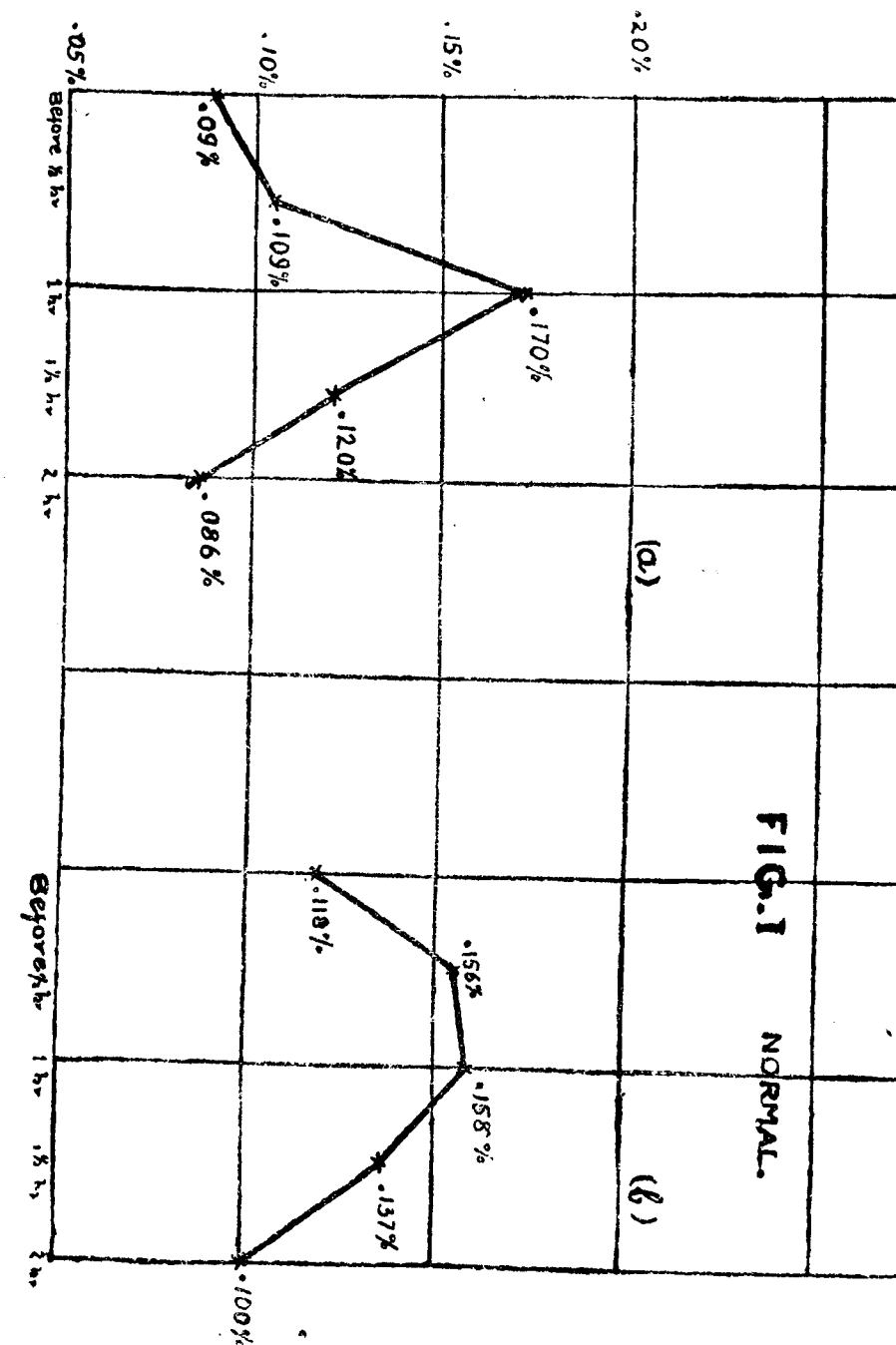
(Specially contributed.)

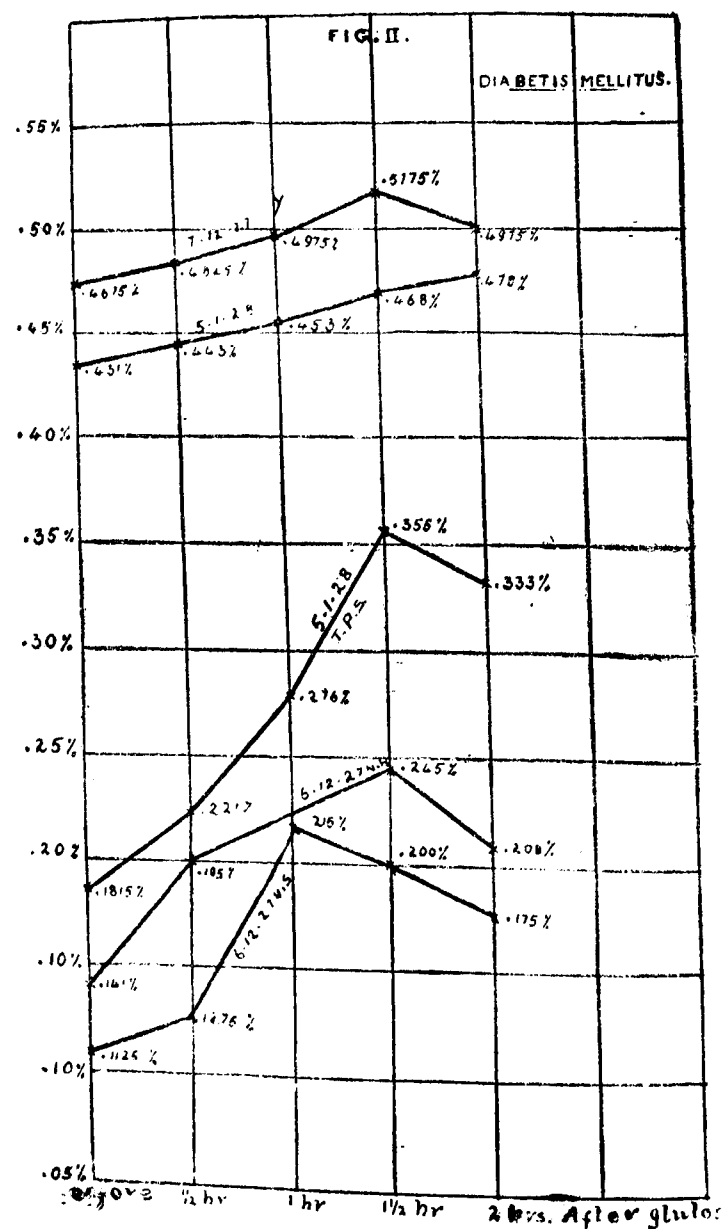
Of the various drugs that have been tried to produce Surgical anæsthesia, Chloroform in India and Ether in the West, still hold the most prominent position. Chloroform is never the anæsthetic of choice either in Europe or in America. Occasionally, it may be used as an adjuvant to other anæsthetic and less dangerous drugs; and sometimes in Midwifery practice. In India, however, Chloroform is extensively used even to-day, and gives another proof of the prevalent notion about the "unchanging East." In many institutions, there is absolutely no selection possible in the choice of anæsthetics nor of anæsthetist either. Those who have made scientific investigations into Chloroform narcosis, cannot be unaware of its dangers—particularly the steady fall of Blood-pressure and the troubles connected with cellular metabolism. Ether, a much less dangerous drug has its own disadvantages in the form of extreme salivation, lung complications, and other by-effects of aggravated glandular secretion. The ideal anæsthetic is yet to be dis-

* All rights reserved.

Test." This test is generally performed after a fast of ten to twelve hours. After his usual supper at 7 or 8 P.M. on the previous night the patient comes to the laboratory at about 9-30 or 10 A.M. with no food except water if required. Immediately on arrival about $\frac{1}{2}$ c. c. of blood under aseptic precautions, is taken from the median basilic vein or from a vein on the dorsum of the hand and also a sample of urine is collected. After this the patient is given by mouth 50 gms of glucose dissolved in 100 c. c. of water and half-hour samples of blood and urine are taken for two hours subsequent to the administration of glucose. Generally only three samples of urine are collected one previous to and the others one hour and two hours subsequent to the administration of glucose. But it is better to collect half hour samples of urine as this process gives a more precise idea of the renal threshold for glucose. Glucose content is estimated in each of the five samples of the blood taken by a F: Trimetric method and the presence of glucose is tested qualitatively in each of the samples of the urine.

In normal adults. (Fig i) the blood sugar concentration begins to rise immediately after the administration of the glucose, in about 5-10 minutes, reaches the maximum value in about sixty minutes and then falls till it reaches in two hours the initial level or a little below. The initial fasting blood sugar normally varies between .08% and .12% with a mean value of .1%. The peak value or the maximum value reached is between .15% and .17%, i.e., below .18% the normal renal threshold value. The rate of absorption of glucose does not interfere with the tolerance curve. Of course the absolute quantity of glucose needed to give a rise of .1% is only 4 gms assuming 4000 c.c to be the blood volume. Intravenous administration of glucose produces





the same form of tolerance curve but oral administration of glucose is preferred as it is the natural method.

The rise of the tolerance curve is due to the rise of peripheral blood sugar. Glucose absorbed passes at first through the liver to the peripheral circulation till the concentration reaches about '16%—17% when the internal secretion of the pancreas is stimulated. This internal secretion helps the liver and muscles to hold back the glucose from the circulation and storage in the form of glycogen and oxidation of glucose in the tissues are started, with the result the peripheral blood sugar falls. When the fall in the blood sugar reaches the Hypo-glycæmic stage '06—1 % the suprarenal glands are stimulated and adrenation is poured into the circulation which causes glycogenolysis and a rise of peripheral blood sugar to the normal initial level.

This is the picture we see in normal individuals. In Diabetes Mellitus the internal secretion of the pancreas is diminished and both the storage mechanism and oxidation of glucose in the tissues are defective; consequently the initial blood sugar is far above the normal. The ascent in the curve continues even after one hour, *i.e.*, the ascent is prolonged, and the maximum value is much above the normal peak value as the internal secretion of the pancreas in Diabetes is stimulated by a much higher concentration of blood sugar. The quantity of the secretion being also defective the storage and oxidation are much slower and consequently the descent of the curve is delayed and drawn out. These degrees of abnormality will depend on the severity of the cases. The earliest symptom to notice in a mild case is the delayed descent. The peak value in this may not be much above the normal but the descent will be decidedly delayed. (Fig ii Diabetic curves.)

(To be continued.)

The Duties and Responsibilities of the Medical Profession.

BY RAO BAHADUR M. KESAVA PAI, M.D.

Superintendent, Tuberculosis Hospital, Madras.

It may at first sight appear strange that one like me working in a special subject should try to dabble in what is really a general aspect of Medical life, but my plea is that what I am going to say will be of some real value to the medical man of the near future. With the experience of a quarter of a century in the profession in its various aspects, I am in a position to impart to the medical student, a knowledge of what medical life is and ought to be so that the benefit I have reaped by my fairly long medical activities may be at the disposal of the coming generation of medical men who will go through this article.

India is passing through a critical time in its history in its political and other aspects of activity. Though of a more scientific nature than other activities, medicine has undergone rapid changes during the last few decades and with it the duties and responsibilities of the medical man. Time was when medicine was very little beyond a healing art, and the famous physicians of ancient times were known more for their skill in the art of diagnosis and treatment than for their general scientific and other activities. We are now in the 20th century when curative medicine is going more or less into the background and preventive medicine is assuming a greater and more important and conspicuous place. The reputed Chinese custom of paying the family doctor well when there is no

The Madras
Medical College
Magazine

The
Best Medium
for Advertisement

Apply to:—

SECRETARY.

APPAH & CO.,

WHOLESALE AND RETAIL DRUGGISTS AND
DISPENSING CHEMISTS

APPAH BUILDINGS

286, China Bazaar Road, MADRAS.

Direct importers of all patent medicines,
drugs, chemicals, Hospital requisites etc.

Prescriptions accurately and carefully dis-
pensed.

Prices extremely moderate. Orders and
enquiries executed promptly.

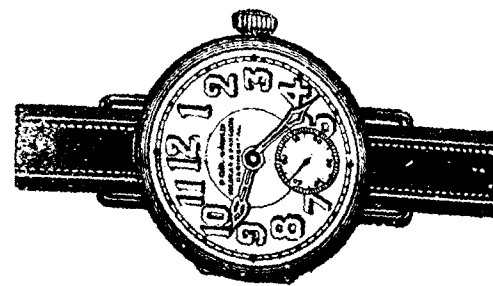
TRIAL SOLICITED

Phone to 3455

APPAH & CO.,

When writing to advertisers, please mention this Magazine

WITH ORR'S YOU ARE SURE
THE STUDENTS FRIENDS.



D. 4435

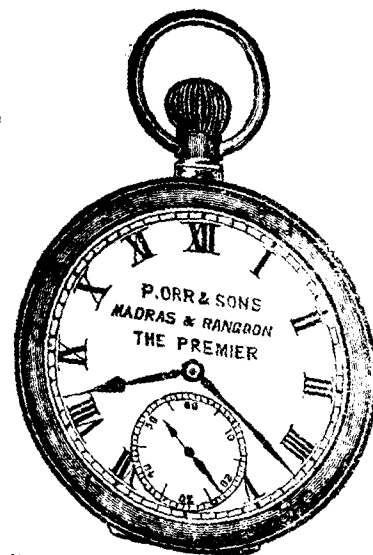
THE "REGIMENTAL" STRONGLY MADE
WRIST WATCH LEVER MOVEMENT JEWELLED IN 15 HOLES
NICKEL (JOINT OR SCREW CASE) Rs. 22.
SILVER (JOINT OR SCREW CASE) Rs. 27.
RADIUM DIAL Rs 5 EXTRA.

10 % DISCOUNT

FOR CASH

OR

V. P. P.



D. 4452

GUARANTEED

FOR

TWO

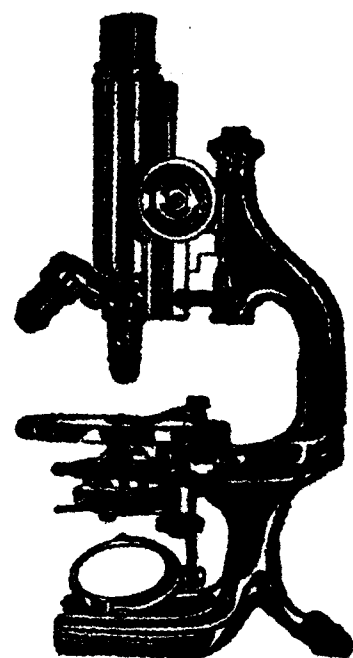
YEARS

THE "PREMIER" THE MOST DEPENDABLE
OF ALL LOW PRICED WATCHES
ACCURATE LEVER MOVEMENT JEWELLED
IN 7 HOLES STOUT NICKEL CASE Rs. 16.

P. ORR & SONS LTD.,
MADRAS, RANGOON, PENANG & LONDON.

When writing to advertisers, please mention this Magazine

142896



LATEST MODEL MICROSCOPES FOR
ALL SCIENTIFIC RESEARCHES.

Metallographic outfits.

Polariscopes.

Epidiascopes.

Sphygmomanometers.

Centrifugal Machines.

Chemical Balances.

We keep on hand a large and varied stock of Microscopes, Microtomes and all relative accessories. Write to us for full particulars of the latest model Leitz Micro Camera attachment.

*Lawrence
& Mayo, Ltd.*

(Incorporated in England)

OPHTHALMIC OPTICIANS

17. Mount Road,—MADRAS

Head Office for India: 16, Old Court House St., CALCUTTA.

Head Office: 19, New Oxford St., London, W. C. I.

Branches: Bombay, Delhi, Karachi, Lucknow, Madras,
Rangoon and Simla.

