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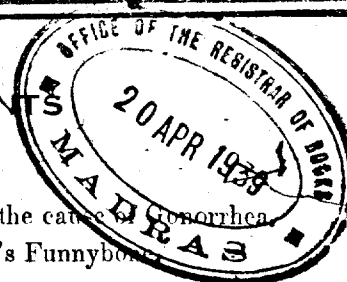
S MEDICAL SCIENCE

VOL. 2

A MONTHLY JOURNAL ON MEDICAL MATTERS

No. 1.

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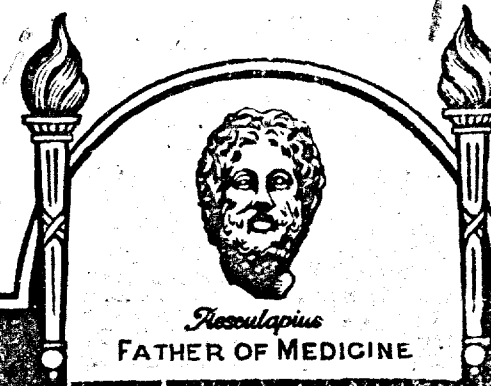
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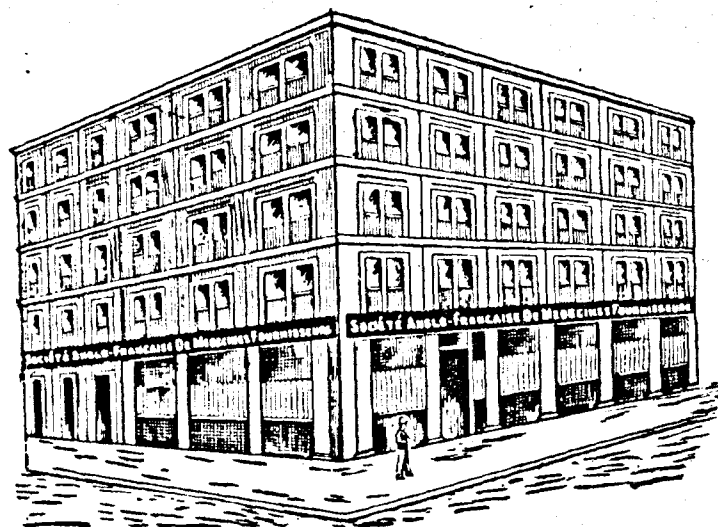
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FOREWORD



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MEDICAL SCIENCE

VOL. 2.

MARCH 1939.

No. 1.

Hope for the Tuberculous India's Key Problem

By Major-General Sir JOHN MEGAW, K.C.I.E., M.B., I.M.S. (Retd.)

Even the dark cloud of tuberculosis has its silver lining. A century ago in England 4,500 persons in every million died every year of tuberculosis: the number has now fallen to 650 per million, or about one-seventh of what it used to be.

Tuberculosis is a disease, or rather a group of diseases, all of which have one thing in common: they are caused by a special kind of microbe discovered by Robert Koch in 1882 and called the bacillus of tuberculosis.

Tuberculosis is a cosmopolitan disease; it attacks people all over the world, except for a few isolated places which have remained free from contact with modern civilized conditions. The bacillus can attack any part of the body, but far more deaths are due to tuberculosis of the lungs than to all the other forms of the disease put together. In the great majority of cases the bacillus finds its way into the body by being inhaled into the air passages or by being swallowed with food or drink.

The general public have been thoroughly enlightened in the danger of spread of the infection by spitting: the penalties prescribed for indulgence in this filthy habit are widely advertised and too seldom imposed. But there is another habit which unfortunately does not cause the same feelings of disgust, although it is really far more dangerous—the habit of coughing in rooms or any kind of enclosed spaces which are occupied by other people.

When a person who has open tuberculosis of the lungs coughs he sends out a regular spray of droplets into the air: these droplets consist of sputum, and most of them are so small that they remain suspended in the air in much the same way as a puff of tobacco smoke. As each droplet may contain a large number of the bacilli you can realize how dangerous it is to breathe the air in the vicinity of an infected person.

The inhalation of disease microbes in this way is called "droplet infection," or more realistically "sputum spray infection." In the open air or even in the air of a well-ventilated room these droplets are so quickly carried away by air currents that there is little risk of infection except by inhaling the air within the actual zone of bombardment by the spray.

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A Key Disease

Many other dangerous diseases are conveyed from man to man by droplet infection—for example, influenza, which in 1918-19 destroyed nearly ten million people in India; in fact, more people died within a few months from influenza than were killed by plague during the preceding twenty years. Pneumonia, bronchitis and diphtheria are examples of the diseases which are conveyed in this way.

The precautions which are effective in preventing the spread of tuberculosis by droplet infection will be equally successful in controlling a large number of deadly maladies, so that in this respect tuberculosis is a key disease.

The other chief method by which the bacillus enters the body is by swallowing infected food and drink. In this country a certain number of cases of tuberculous cattle, but in India people seldom drink unboiled milk, and besides, very few cattle are tuberculous, so that this source of infection is negligible.

Unfortunately the bacilli of human origin have many opportunities for getting into the food and drink in India, so that alimentary infection can by no means be ignored. Other microbic diseases communicated by alimentary infection are cholera, dysentery and typhoid fever, so that measures directed against this method of conveyance of tuberculosis will prove equally effective in controlling these maladies. Here then is another way in which tuberculosis is a key disease. In fact, apart from the group of diseases carried by insects every one of the great killing maladies of India will be completely controlled by the measures which are appropriate for the control of tuberculous infection.

The Seed and the Soil

Although tuberculosis is always caused by a special bacillus, and cannot exist in the absence of this microbe, it would be utterly misleading to confine our attention to the bacillus. The bacillus is the seed of the disease, but from the practical point of view the soil on which the seed falls is equally important.

The soil is the human body, and there is abundant evidence that unless a heavy dose of infection enters a healthy and well-nourished body the seed will not produce a deadly crop of disease. The great majority of the people have been infected with tuberculosis at some time or other. What happens is that when the bacilli enter our bodies they begin to multiply, but, if we are well nourished, our defensive mechanism is stirred to activity and wages successful war against the bacilli. It is only when the dose of infection is excessive or when our powers of resistance are feeble that the microbe gains the upper hand.

There is reason to believe that when we have overcome an invasion by the bacilli of the disease our powers of resistance against further attacks are increased so that these inapparent forms of tuberculosis are often blessings in disguise. There is ample proof that these mild attacks of diseases are of common occurrence. Careful examination of the bodies of adults who have died from accidents reveals the presence of the scars of the diseases in the majority of cases. Even during life it is possible to obtain clear evidence of the previous existence of tuberculosis in many persons who have never shown signs of the disease.

In the course of the defensive reaction against the bacilli substances are produced in the body and these persist for years. Their presence can be detected quite easily by the tuberculin reaction which is positive in the majority of adults in many places. Even when the bacilli have gained the mastery to such an extent as to cause obvious signs of disease, it is usually possible to reinforce the defences of the body so as to bring about a cure. Hence the importance of early diagnosis. The true picture of tuberculosis is far different from that of the popular imagination.

The important point about the inapparent attacks of tuberculosis is that they indicate the impossibility of escaping from infection in existing conditions and the great importance of attention to the soil as well as the seed. The ideal is to eliminate the seed, but this is not practicable in the immediate future; we can, however, take comfort from the knowledge that even with partial control in infection there can still be a great degree of success in controlling the disease.

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For many years it has been a matter of common knowledge that persons who are well nourished and who lead healthy outdoor lives rarely suffer from tuberculosis, but the clearest demonstration of the importance of nutrition was given during and after the Great War. During that period the death-rate from tuberculosis rose sharply in every country in which there was a great shortage of food, and the rise was directly proportional to the degree of shortage.

Recent work on nutrition has shown that not only tuberculosis but also many other diseases are greatly influenced by the state of nutrition of the body. Here again tuberculosis is a key disease.

Inherited Tuberculosis

The pessimistic outlook on tuberculosis has been greatly fostered by the belief that the disease is hereditary. Strictly speaking there is no such thing as inherited tuberculosis: the disease is always acquired.

Although infection may enter the body before birth such an occurrence is so rare as to be negligible and for practical purposes we may regard the newborn babe as entering the world with a clean bill of health even when both parents are suffering from tuberculosis.

The only part played by heredity is that some people inherit a constitution which offers a low degree of resistance to infection but all the evidence goes to show that nobody need be doomed to tuberculosis if the nutritional condition of the body is maintained and heavy doses of infection are avoided.

For concrete evidence that tuberculosis is easily controllable we can look at what has been happening in England. In the past twenty years the death-rate from the disease has fallen by nearly 50 per cent. During the same period the expenditure from public funds on anti-tuberculosis measures has risen enormously.

If one were to claim that the fall in the death-rate was due to the rise in expenditure you might be prepared to agree. But if public health partisanship were to tempt anyone to make such a claim, his public-health conscience ought to step in and insist that the whole truth should be told. The truth is that the death-rate was falling just as rapidly during the pre-war years when little public money was being spent on special anti-tuberculosis schemes.

Tuberculosis experts are the first to admit frankly that the chief cause of the rapid decline of tuberculosis is improvement in the conditions of life of the people. By better housing and better hygienic conditions in general the spread of infection has been greatly diminished, by better food the soil has been rendered less suitable for the development of the seeds of the disease.

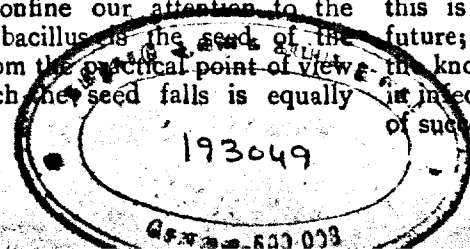
Now let us come to grips with the critics of our modern anti-tuberculosis measures. They argue that modern treatment prolongs the lives of the patients and so enables them to continue to spread infection and also to bring into the world more children with an inherited predisposition to the disease:

We do not hear such arguments from persons who are suffering from tuberculosis or from persons whose relatives and friends are victims of the disease.

If the problem were purely biological, and if the sole consideration were to stamp out the disease in the shortest possible time, the best policy would be to consign every infected person to the lethal chamber. Such is the logical conclusion of the argument that humanitarian measures are a waste of money. On the other hand we can claim that the combination of humanitarian relief measures with scientific prevention is yielding the happiest results.

The important matter is that victory over tuberculosis in this country is in sight, and if the present rate of progress is maintained there are people alive today who will be able to tell their children how the scourge of tuberculosis darkened the lives of the people in the bad old days of the first half of the twentieth century.

Statisticians delight in supplying us with figures which show a close relationship between the prevalence of tuberculosis and such



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things as the average number of rooms occupied by each family, the average food supply, and the average birth-rate. All these factors are important, but the relative influence of each cannot be measured with accuracy. Better housing normally goes hand-in-hand with better food, a low birth-rate usually means smaller families, for which better food and more living space can be provided. An increasing population does not necessarily involve a worsening of hygienic conditions—for example, Sir Evelyn Wrench has recently stated that the French settlers in Quebec have increased from 60,000 in 1759 to nearly 5,000,000 at the present time. On the other hand an increase in population which is not accompanied by a proportionate growth in the production of the necessities of life must mean a lowering of economic standards and a corresponding deterioration in bodily health.

India's Special Features.

The Indian situation can only be understood in the light of experience gained in other countries where reliable evidence is available about the conditions which govern the increase or diminution in tuberculosis. Unfortunately we have very unsatisfactory information about the prevalence of tuberculosis in India, but as the disease is cosmopolitan and is governed by the same basic principles in every part of the world, all that I have said has a definite bearing on the Indian problem.

The causes of the terrible prevalence of the disease in England during the nineteenth century are just the same as those which operate in India today, and the causes which have brought about so rapid an improvement in England will certainly give the same results if applied in India. In a discussion on the tuberculosis situation in England it has been possible to speak in a definite manner, but in dealing with the position in India one has often to fall back on speculation and surmise.

Nobody can tell, even approximately, the death-rate from tuberculosis in India as a whole, nobody can describe the geographical distribution of the disease, and nobody can tell to what extent it is increasing. In the absence of authentic data we must make the best use we can of such evidence as is available. In the cities and large towns of

India the deaths from tuberculosis of the lungs are recorded. In Cawnpore the latest yearly death-rate was 4,600 per million of population, or much the same as it was in England a hundred years ago. In Calcutta it was 2,500, and in Bombay 2,000.

The death-rate from tuberculosis among girls and young women who live in purdah in the large centres of population is appalling; it is several times higher than that of males belonging to the same age group.

An Increasing Menace.

Medical men in India are almost unanimous in declaring that the disease is increasing rapidly and that it is extending to rural areas which were formerly free from infection. They also report that when the disease spreads to new localities it assumes a more virulent form than in places previously affected.

This is what would be expected, for it is well known that Gurkha soldiers and French colonial troops coming from isolated regions are far more liable to rapidly fatal attacks of tuberculosis than soldiers coming from places where the disease is common. In the case of Gurkhas and other people in unaffected localities the defensive mechanism of their bodies has not been stimulated to activity by previous mild attacks and so they are virgin soil on which the bacillus thrives without restraint. It may be noted that when proper care is taken to prevent infection among Gurkhas they remain perfectly healthy, so that we are not compelled to fall back on the unsatisfactory policy of controlling the disease by permitting mild attacks to occur.

A few years ago I attempted to make a rough-and-ready survey of the number of cases of tuberculosis and other diseases in the rural areas of India. The method adopted was to issue a questionnaire to a large number of doctors in charge of dispensaries in typical agricultural villages throughout India. The doctors were asked to state how many persons were suffering from tuberculosis in their own village. An estimate based on their replies suggested that there were 1½ to 2

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millions of cases in India. Not even a moderate degree of accuracy is claimed for this estimate; nothing short of a careful personal survey by trained men will give a convincing reply to the question—how many people are suffering from tuberculosis in India?

I have also tried to obtain some evidence on the subject by examining the statistics published every year in the Public Health Commissioner's Report on the health of the prisoners and troops in India. From these it appears that admission-rate for tuberculosis of the lung in prisons was 5.5 *per mille* in 1895, that it rose rapidly during the next ten years to the high figure of over 9 *per mille*, and there-after declined steadily to 5 *per mille* by 1935, or somewhat less than the figure of forty years previously.

We cannot derive much comfort from these figures, for the reports of the earlier years state that most of the cases resulted from infection contracted in the jails, and recognition of this fact was followed by the introduction of special measures for the isolation and special treatment of tuberculosis prisoners.

These reforms must have caused the great fall which is shown in the admission-rate during the latter part of the forty years' period with which we are dealing. The slight reduction in the admission-rate—namely, from 5½ to 5 *per mille*—during the whole period of forty years is not encouraging, seeing that during the same period the general health of the prisoners improved in a striking manner, as is shown by the fall in the total death-rate from 27.6 to 11 *per mille*. If the present admission-rate for tuberculosis of the lung in Indian prisoners be regarded as a fair index of what is happening in the country as a whole, it would appear that close on 2,000,000 of the people of India and Burma are suffering from tuberculosis of the lungs. This figure corresponds closely with the estimate arrived at in the village survey, but here again it is unsafe to pin great confidence on the figures.

During the same period of forty years the number of cases of tuberculosis of the lung in Indian soldiers fell from 2.8 *per mille* to 1.9, but this small reduction contrasts sharply with a fall in the death-rate from all diseases in Indian troops from 11.6 to 2.15.

Another significant fact is that the cases of tuberculosis of the lung in British soldiers in India fell during the same period from 4.8 *per mille* to 1 *per mille*, although the present death-rate in British troops from all diseases is appreciably higher than that of the Indian troops.

This reduction in the tuberculosis rate among British troops is what would be expected from the combination of two factors: one being the improved hygienic conditions in which the soldiers are living, and the other the fall in the tuberculosis rate of the population from which the soldiers are recruited.

In the case of the prisoners and Indian troops similar improvements in hygienic conditions have brought about very satisfactory results in the case of all other diseases, but have had little effect on tuberculosis. The suggestion, therefore, is that the incidence of tuberculosis in the places from which the prisoners and soldiers come must be rising.

The number of patients under treatment for tuberculosis in the hospitals in India has greatly increased during the past few years, but here again we cannot be sure that the figures give a true index of the prevalence of the disease. Making the fullest allowances for the fallacies which are inherent in the preceding estimates, all the evidence points so strongly to a serious increase in the disease that an accurate survey of the situation is urgently needed.

Need for Surveys

The medical research workers of India at a recent conference expressed their regret that so little work had been done in India on tuberculosis research, and recommended that provincial authorities be urged to carry out accurate tuberculosis surveys in their areas. If we are to conduct a successful campaign we must at the outset find out the numbers and disposition of the opposing forces.

Does this mean that we ought to do nothing till we have completed the survey? Emphatically no!

Even though our knowledge of the situation in India is admittedly imperfect, it is quite enough to show not only the crying need for immediate action but also the lines on which action should be taken.

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India is fortunate in having at her disposal the accumulated experience of other countries in which the tuberculosis problem has already been closely studied with the result that it is being successfully solved.

Anti-tuberculosis measures are of two main types, preventive and remedial. Preventive measures must deal with both the seed and the soil, they must aim at controlling the spread of infection and at raising the bodily resistance of the community. The ideal means of preventing the spread of infection would be to isolate under proper control everyone who is infectious. This measure would involve the construction of sanatoria, with accommodation for at least two million patients and the maintenance of a large and costly army of skilled doctors and attendants. Even the most prosperous Western countries are far from having attained the ideal of providing one bed for every person suffering from infectious tuberculosis, so that any suggestion of this kind must be ruled out as being utterly impracticable in India.

There is no need to be unduly discouraged because of the obvious impossibility of doing for the people all that is necessary. In the case of tuberculosis and all other public health problems a far better way is to teach and persuade the people to do things for themselves.

The control of tuberculosis in England has been brought about, not by the Government, but by the people.

Things done for the people must necessarily be expensive and of temporary benefit, whereas things done by the people themselves are both economical and durable.

The spread of infection in India can only be prevented by a process of educative persuasion. The people must be taught how droplet and alimentary infections are conveyed and how they can be avoided. To carry out the educative campaign we have at our disposal the schools, the printing press, public lectures, the cinema and above all wireless broadcasting.

A world of warning must be said against laying undue emphasis on the horrific aspects of the disease. The fear of tuberculosis already exists; in some places it amounts to a state of unwarranted panic. It is a case of a little learning being a dangerous thing. Stress must always be laid on the maintenance of health and the means of avoiding infection rather than on the horrors of disease.

There is much to be said for directing propaganda against all infectious diseases of the respiratory and alimentary systems rather than against tuberculosis alone.

If it came to be understood that everyone who has a cough ought to be kept in the open air or isolated in a well-ventilated room tuberculosis would lose much of its power to terrorize and demoralize its victims.

Fatal delay in seeking treatment is often due to the dread of hearing the diagnosis, which is regarded by many people as a sentence of death.

Suitable accommodation in a verandah or open "lean-to" can be provided for the patient at a trifling cost, at any rate in rural areas: a member of the patient's family can be trained to look after the patient.

From ten to twenty patients can be treated in their own homes for the cost of a single patient in a modern sanatorium. A useful piece of research would consist in devising models of suitable shelters made of materials available in the various localities.

Preventive measures which aim at building up bodily resistance against the bacillus are essential parts of the programme; these constitute a complex problem in themselves. The Governments of India would find it just as impossible to provide proper food and housing for everyone as to build and maintain modern sanatoria for all the patients who need treatment. Here again they must fall back on the plan of persuading the people to do things for themselves.

Education In Life Planning

The key unit in every State is the family, and the only prosperous States are those in which each family lives a well-planned life.

The heads of every family must, therefore, be taught how to plan a satisfactory existence for those who are dependent on them. Here is where the responsibility of Government comes in; it is their duty to provide sound education in life planning and to persuade the people to adopt the plans which have been prepared.

The most difficult part of the task is to bring about the change in the out-look of the people without which better conditions of life are unattainable. Inefficient methods of agriculture, wasteful customs, early and improvident marriages, are some of the chief handicaps which the people of India have imposed on themselves. Unless these can be thrown off, Nature will continue to maintain the balance between population and food supply by tuberculosis and other cruel methods.

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In fact, all the world over people must choose between planning their lives as they would have them to be or having them planned for them by the blind and brutal forces of Nature.

Can the outlook on life of 350 millions of people be changed?

A few years ago such a question would have been received with derision, but after the recent demonstrations given by Russia, Germany, and Italy everyone must admit that incredible changes in the mentality of great nations can be wrought by persistent propaganda.

Far be it from me to suggest that we ought to copy any of the political systems of these countries, but we might well adopt their methods of mass suggestion in the good cause of promoting the welfare of the people. In doing this we need not interfere with religion or curtail liberty in the slightest degree.

There is good reason for believing that if one quarter of the money which is now spent on education in India were allotted to a scheme of instruction in life planning, the problem of tuberculosis and most of the other great problems could be solved.

The first essential is to have a sound plan, and the preparation of such a plan demands the co-operation of men with practical knowledge of agriculture, industry, economics, hygiene, education, and, above all, of men with a sympathetic understanding of the psychology of the Indian peasant.

Technical advisers are needed, but the knowledge of the various kinds of experts must be co-ordinated and translated into simple language which will bring home to the people the causes of the ills from which they suffer and the means by which these can be cured.

This sounds quite simple, but in reality the scheme will call for a lot of hard thinking by the best brains of India, helped by the best brains of the countries which have already solved most of the problems which India has to face. When once a plan has been prepared the rest will be easy; it will only be necessary to carry out a system of mass propaganda on the lines that have always proved successful.

Encouraging Signs

There are encouraging signs that those who are responsible for the welfare of India realise the nature and gravity of the problem and the responsibility of Government for initiating action. Let me first quote the following statement from the Report of the Royal Commission

on Agriculture in India. This may fairly be assumed to have emanated from Lord Linlithgow:

The demand for a better life can in our opinion be stimulated only by deliberate and concerted action to improve the condition of the countryside, and we have no hesitation in affirming that the responsibility for initiating the steps necessary to effect this improvement rests with Government."

Everyone will agree that His Excellency is doing everything in his power to discharge a responsibility which ten years ago he little dreamt he was imposing on himself.

Again, we have the statement by the President of the party which has become responsible for the welfare of more than half of the people of British India, that he is greatly concerned at the economic and population situation, and that something will have to be done.

It now only remains for public opinion to demand the action which Government will be only too glad to initiate.

Medical Relief

The campaign against tuberculosis must include humanitarian effort for the relief of the sick.

Prevention and cure are going hand-in-hand in England with the happiest results: in India there are special reasons for supplying medical aid to the victims of the disease; the chief of these is that before any preventive action can have a hope of success the goodwill of the people must always be enlisted by the cure of disease. Apart from this, sanatoria and dispensaries have great educational value and serve as centres for propaganda work.

There is little need to stress the importance of medical relief in dealing with tuberculosis; the public will insist on having treatment, and it is the business of Government to see that they get it.

I have tried to show you that tuberculosis is a key problem of India and that its solution will mean far more than the conquest of one terrible disease.

Let me close by appealing to you for your sympathy and help in the splendid effort which is being made by Lady Linlithgow.

Her chief aim is doubtless the relief of suffering, but the work cannot fail to give a great stimulus to the campaign for the eradication of the disease.

THE GREAT SCIENTIFIC DISCOVERY OF THE BERGERET LABORATORIES.

—(o)—

Progress in clinical medicine is dependent on progress in the ancillary sciences, physiology, pharmacology, etc., new discoveries in pure science are the stuff on which clinical progress feeds. But between the discovery in pure science and its application to medicine, there must be an investigator. He may be a physician, a chemist, a bacteriologist; but, whoever or whatever he is, he must see the necessity of applying scientifically-established facts to human needs.

When a clinical application has been found for a scientific discovery, the work has just begun. A method must be worked out by which a chemical process or a biological technique employed in the experimental laboratory can be applied in production operations. And a practical method of clinical administration must be worked out, for an effective remedy cannot be reserved for a few selected patients—it must be made

available to thousands. Moreover, the first crude product, perhaps eagerly sought because of the imperative need for it, must be improved and refined so that its efficacy may be increased and its field of usefulness broadened.

The Discovery of Endophon.

The year 1931 saw the discovery of **ENDOPHON**. It was made possible only by preceding research. Dr. Gustave LeClerc, a chemist on the consulting staff was the first to discover the activity of certain glands. Dr. Louis Perrancourt, also on the consulting staff, was likewise working on the problem. He completed his work shortly after Le Clerc's discovery, and assigned to the preparation its correct formula.

The discovery of **ENDOPHON** marked a new era in Glandular Therapy. Recently, a new Gland Extract has been discovered and embodied in **ENDOPHON**, greatly increasing its curative efficacy.

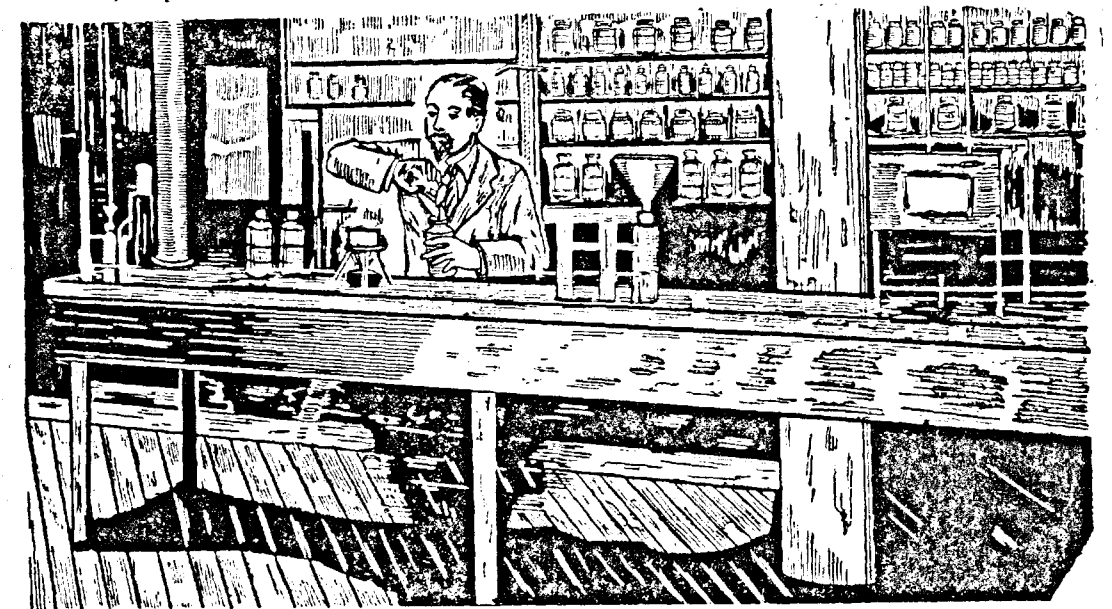
Reported in Eighteen Medical Papers.

A striking example of the achievements of the Bergeret Laboratories is illustrated in the work which led to the discovery of **ENDOPHON**. The course of this work was reported in eighteen medical papers.

Policy of the Bergeret Laboratories.

It has always been the policy of the Bergeret Laboratories never to offer a

product to the world until it has been first subjected to the most exhaustive tests. Therefore; you may be sure that not only has a Bergeret Product been standardised, and made to conform to the highest degree of purity, and that the utmost demands of science have been utilized in its manufacture, but also that its therapeutic value has been demonstrated beyond any question of doubt.



Chemist at work at the Bergeret Laboratories.

The Great Criterion.

ENDOPHON is made in Capsule form—the great criterion in curative power, as the freshness and potency of the vital gland substances is preserved. There is no deterioration. Available in two kinds, No. 1 for Partial Impotence and No. 2 for Complete Impotence and Sterility.

Sole Agents:—THE ANGLO—FRENCH MEDICAL AGENCY.

ALBERT NEISSER

Discoverer of the cause of Gonorrhoea

BY ADOLPH BEILIN

—o—

The name of Albert Neisser will be perpetuated for his discovery of the causal agent of gonorrhoea. However, gonorrhoea is still one of the most prevalent infections. This disease and other sexual diseases have existed since the dawn of civilization.

Health authorities have estimated that one out of ten persons in the United States suffers from some form of venereal disease. Despite all the modern prophylactic measures and the knowledge of effective prevention of gonorrheal infections after exposure, nevertheless indifference, ignorance and false prudery are still largely responsible for the undue prevalence of this disease. Gonorrhea is entirely a human affliction. In adults it is almost invariably transmitted through sex contact, but in some instances the gonococcus may remain alive on towels, clothing or bedding for short periods of time and thus infrequently prove infective. The disease has been known to spread rapidly through schools and orphan asylums in which infected attendants have been employed. Sterility in women and blindness in new-born babies are frequently produced by the gonococcus; but in recent years the prevention and treatment of gonorrheal infections have undergone considerable progress. A 2 percent solution of silver nitrate in the eyes of a new-born infant is a positive preventive of blindness from this disease. This preventive measure is now used throughout the civilized world.

The cause of gonorrhea remained unknown until 1879. In that year Albert Neisser, following the bacteriologic methods of Koch, poured a watery solution of methyl violet over a bit of gonorrheal pus and then examined it under high power magnification through a microscope. In this manner he was first to discover the gonococcus.

Neisser was born at Breslau, Germany, January, 22, 1855, and he lived until 1916. For many years prior to the discovery which brought him into world prominence, he was successively professor of skin and venereal diseases and occupant of the chair in dermatology at the University of Breslau. His studies embraced almost the entire field of dermatology and syphilology, and he was first to observe the tuberculous. An indefatigable research worker and writer, he was particularly active in studying the prophylaxis of venereal diseases in general and the prostitution problem from the sociologic, national economic and ethical points of view. Like his father, who was a practising physician at Breslau before him, Neisser was held in high esteem by all who knew him. For his isolation of the gonococcus, numerous researches on various pathogenic microbes and incessant warfare against infectious disease, he rose to immortal leadership in the cause of medical progress and human welfare.

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Complications of Gonorrhoea

The causative organism of gonorrhoea, micro-coccus gonorrhoea was first described by Neisser in 1877. It is an acute infection with a primary lesion which is usually urethritis. It is usually followed by numerous secondary and systemic manifestations of which the most common are epididymitis, salpingitis, arthritis, synovitis and endocarditis.

It is not a killing disease in itself, but looking to its far-reaching consequences, it does not fall very far short of syphilis. It should never be neglected.

Its organism is biscuit-shaped which occurs in pairs, usually within the leucocytes. It occurs in adults due to impure sexual intercourse, in the new born child due to vaginal contamination and in older children due to accidental infection.

Regarding the systemic gonococcal infection, the most important is gonococcal septicæmia and pyemia. Thayer and Blumer were the first to cultivate gonococci from the blood of a patient. The death rate though not very high, is of considerable high ratio.

Next in importance comes, Gonorrheal arthritis, which in many respects is the most damaging and disabling of all the complications of gonorrhoea. It occurs in 2 to 5 percent of cases. It

occurs more frequently in males than females. As a rule it is found when gonorrhea is in an acute stage but, it can also be seen when the attack is subacute or even chronic. A gonorrheal arthritis of great intensity may be found in a woman newly married, being infected by the old gleet in her husband. As a rule, many joints are affected together. Clinically the variability and obstinacy are two main features.

In certain cases wandering pains are detected near the joints, without redness or swelling. In others hydrarthrosis spondylitis and painful heel are found.

Iritis is another complication which is not infrequently found and which has a tendency to recur with every attack subsequently. Sometimes meningitis, myelitis and true neuritis occur.

The search for the primary lesion and a thought of the possibility of gonorrheal infection are the best safeguards. The most common blunder that one can commit is to mistake gonococcus arthritis for rheumatic fever. The persistence of trouble in one or two joints should put one on guard. In gonorrhoea the swelling often extends more above and below joints than in other forms of arthritis. The complement fixation test is sometimes of value.

The best treatment for Gonorrhoea and its complications is "505" Mixture and Injection. This scientific treatment has been tested on thousands of cases and proved a thorough and permanent cure.

MEDICAL

Harmony of Body And Mind

Quite Essential For Health

Health means harmony and unless there is harmony between the body and the mind, health is impossible of attainment, writes *Health* editorially.

While it is possible to diagnose bodily diseases and cure them by timely medical aid, it is very hard to probe into the mind and treat its malady.

It may be said without fear of contradiction, that most bodily ailments are due to mental causes. Irregular habits in thinking, losing of temper, lack of self-control, fears and prejudices lead to mental ill-health and disorder.

For example, worry and depression of spirits may cause loss of appetite and dyspepsia. Rage may bring on heart failure or apoplexy.

Our ancients have laid great stress on the proper cultivation of the mind. Their methods were self-control, right thought and calmness. Self-control confers strength, right thought mastery and calmness power.

NOTICE.

The remedies listed herein have been carefully chosen from different manufacturers in France and England by our **Pharmaceutical Expert, Dr. J. F. De Vaux. (Paris)** prior to our acceptance of the Agency, and represent in their perfection the accumulated experience of many years of Scientific Research and Experiment.

Considerable care and attention has been devoted by our Expert in the testing and selection of them. Thus, all remedies for which we are the Agents can be relied upon as Absolutely Genuine. Our Slogan "**The Choice of the Expert**" was earned by this careful selection of remedies.

Furthermore, their remarkable curative excellence is in a great measure due to **FRESHNESS**, as fresh stocks are received every month from our Head Office. The majority of pharmaceutical preparations sold in this country are **Old Stock**, and consequently, of no curative value.

If other remedies have been disappointing; do not condemn these as worthless. A trial order is only needed to prove our claim.

Our aim is to give satisfaction to our customers—realising that our product and our service form our best advertisement, and to this end, we spare no efforts to provide Genuine Remedies.

The Anglo-French Medical Agency.

EVERYTHING THAT CONTRIBUTES TO CURATIVE POWER IS EMBODIED IN THESE SCIENTIFIC REMEDIES.

SCIENCE

"THE CHOICE OF THE EXPERT" REMEDIES OF PROVED RELIABILITY.

Are you Suffering from Corns?



Get rid of them by using **Eugene Sargisson's Corn Solvent**. A few applications, and the pain and tenderness disappears, then the Corn dries up, and can be pulled out painlessly. Sold in phials. Three are sufficient to cure. Per phial Rs. 1-8. Three Rs. 4.

Du Huit's Obesity Tablets.

This remedy gradually and safely removes superfluous fat. No exercises necessary. No dieting. Does not weaken the heart. Guaranteed to remove pounds of fat a week, without harmful results.

1 bot. Rs. 2-8 3 Bots. Rs. 7.

Lepelletier's Ointment.

For Ringworm, Scrofula, Psoriasis, Dhobies Itch, and all other Skin diseases.

1 lb. Jars. Rs. 3-8, per Jar

REEVE'S HAIR RESTORER

Not a Dye.

Safe & Sure

Not a Dye.

A few applications and greyness vanishes.....your hair becomes its natural colour, with a glossy softness to be admired. It cleanses the scalp and invigorates the roots. It prevents Dandruff and stops the hair from falling out. It cures partial baldness permanently.

Reeve's Hair Restorer is absolutely safe to use and is unequalled for imparting a healthy and natural colour to the hair. **A British Product—Made by Henri J. Reeve. London.** Get a bottle and look years younger!

1 bot. Rs. 2-8-0.

3 bots. Rs. 7-0-0.

3 bottles Rs. 12-0-0.

REXOL

Anti-Sensitive Solution.

Recommended for use with **Endophon No. 1**. Prevents Premature ejaculation by removing excessive sensitiveness. It is not drastic, so harmful to this delicate part, but gentle and sure in its action.

A BRITISH PRODUCT

1 bottle Rs. 2-8-0

3 bottles Rs. 7-0-0

6 bottles Rs. 12-0-0

Special Quotations to Doctors & Chemists.

We are Agents for the products of

DE GROOT'S LABORATORIES

Grenoble. France.

Also Oils, Essences, and Colours, Manufactured by

OEHME & BAIER.

Leipzig. (Germany).

Price List forwarded on application

We stock Organotherapeutic, Biological and Chemico-Pharmaceutical preparations, also all kinds of Drugs and Surgical Goods. Special quotations on application.

Our Vast Organisation has been built-up through
Service — Satisfaction — and the Goodwill of our Customers.

MEDICAL

"THE CHOICE OF THE EXPERT"

GALAXIN

THE GENUINE BLOOD CLEANSER

BEFORE
TREATMENT



PIMPLES



FRECKLES
COPPER PATCHES



ECZEMA



SORES

Have you Pimples? Sores? Ulcers?

Let GALAXIN rid you of them for ever! It will do this for you, no matter how chronic your case. Its powerful, searching action **CANNOT** be resisted.

GALAXIN is not a mere Blood Cleanser, but a scientific combination of Tonic Properties. (which your body must have to be perfectly healthy) in conjunction with powerful germ-killing medicaments, to clear away the waste matter that clogs your system, and poisons your blood, causing Pimples, Eczema, Sores, etc.,

Relieved of all waste matter, your system is soon restored to a healthy condition; Clean fresh blood courses through your veins; and Pimples Sores: etc; disappear, giving place to a fresh clear complexion and the radiant glow of perfect health.

Try three bottles to-day. You'll be astonished at the results. Remember, it's a genuine remedy.

The Ultra-Penetrating Cleansing Properties of GALAXIN are especially good for those symptoms of "Hereditary Impurities" in the blood.

Galaxin
BLOOD
CLEANSER

POWERFUL PENETRATING PERSISTENT

GUARANTEED TO CURE:—Pimples, Freckles, Copper Patches, Blotches, Sores, Boils, Ulcers, Dhobies Itch, Psoriasis, Eczema, Lepa, Herpes Progenitalis, Glandular Swellings, Ulcerated throat, nose or ears, Syphilitic Eruptions, Acne, Abscesses, Rashes, Scrofulous Affections, Elephantitis, Lumbago, Gout, and all diseases, due to an impure state of the blood.

Prices: 1 bot. Rs. 3-8. 3 bots.—Rs. 9. 6 bots. Rs. 17.

DEAL WITH A FIRM OF REPUTATION and get value for every rupee spent.

AFTER
TREATMENT



ALL REMOVED



CLEAR, HEALTHY
SKIN



CURED



BANISHED

SCIENCE

"THE CHOICE OF THE EXPERT"

READ THESE TESTIMONIALS.

(They are genuine and unsolicited; and are only a few of the many hundreds received during the past five years.)

Mr. E. Gibson. 3, Bath Island Road, Karachi. (writes) "My face, neck and ears was covered with Pimples. I had tried ointments, balms, lotions, and other remedies too numerous to mention, without more than temporary benefit. A friend advised me to try **Galaxin** and I am glad I followed his advice. My pimples have all disappeared now."

Arthur Humphreys, Esq. 28, Anderson St. Calcutta. (writes) "I suffered for many years from Chronic Eczema and had almost given up hope of being cured when I came across your catalogue. I have altogether taken 15 bottles of your famous remedy "**Galaxin**" and take pleasure to inform you that I am now completely cured. You may use this letter as you like, for I would like others to get the benefit of this excellent preparation as I have....."

By Permission.

AN OPEN LETTER TO THE PUBLIC

Dear Sir / Madam,

What can be more disappointing than a worthless product—apart from the monetary loss?

The products for which we are Sole Agents are **GENUINE**—selected from different manufacturers—and represent the **BEST** that Medical Science have produced. This, we feel confident in stating, as before accepting each Agency, we have obtained from the manufacturers authentic evidence of the curative efficacy of each product—numerous testimonials and published opinions by Doctors. Moreover, we have used each product on many cases with convincing success.

The reputation and good-will of a firm is based on the goods it sells. We have complete confidence in the goods we advertise, as our business maxim is **not** to stock anything that is unsatisfactory in the slightest degree. We reject agencies for products that do not come up to our high standard of efficacy.

If you should require anything Medical, obtain it from us—it's **GUARANTEED**—and will give you the satisfaction you naturally expect.

Sincerely yours,
The Anglo-French Medical Agency.

PERSONAL EUROPEAN ATTENTION—BEST SERVICE—SATISFACTION
AND BRITISH FAIR PLAY IS ALWAYS OBTAINED.

MEDICAL

"THE CHOICE OF THE EXPERT"

ENDOPHON

Glandular Extract



DEALS
5
HAMMER BLOWS
AT
IMPOTENCE

TWO KINDS (Capsule form.)

ENDOPHON No. 1.
For Partial Impotence
(Premature Ejaculation)
(Feeble Erection.)

ENDOPHON No. 2.
For Complete Impotence
& Sterility

1 bot. Rs. 6-8-0
3 bots. Rs. 18-0-0
6 bots. Rs. 34-0-0

Tele. Codes:

3 bots. No. 1 'Entrax'
3 bots. No. 2 'Enjex'
6 bots. No. 1 'Entron'
6 bots. No. 2 'Enjexor'

1. IT RENEWS
WASTED TISSUES.

2. IT PROMOTES
DEVELOPMENT.

3. IT INCREASES
VIRILITY.

4. IT IMPROVES
RETENTIVE POWER.

5. IT RESTORES
NORMAL GLAND
ACTIVITY.

ENDOPHON is a true physiological restorative in lowered virility of functional organ, being prepared from fresh Glandular Substances, obtained from the glands of healthy bulls. It supplies the enfeebled, worn-out glands of the sexual organ with those essential restorative Substances, with the result that Impotence is soon replaced with **Perfect Virility.**

ENDOPHON changes a Weak Impotent man, lacking Manly Power and Competence, into a Virile Man, with full sexual Vigour and ability.

Those men who are **sexually weak** and cannot have a proper union, should take **ENDOPHON**. It is 'different' to other preparations for Impotence, as it does not give mere temporary benefit, but **cures permanently**, by its direct restorative action on the sexual organ. **PREMATURE EJACULATION** gives place to perfect *normal* union with ejaculation occurring *after-not before* full indulgence. **FEEBLE PARTIAL ERECTION** is replaced with erection, full and regular and **COMPLETE IMPOTENCE** is replaced with natural "feeling" and full ability. **ENDOPHON** creates a healthy, sexual system.

Conclusive EVIDENCE.

- (1) The Faculty of Medicine of Paris, after clinical trials has pronounced **ENDOPHON** to be the only efficacious Glandular preparation.
- (2) Numerous letters have been received from the Medical Profession, testifying to its marvellous curative efficacy.
- (3) It is regularly used by many Doctors, and in the Curtius Clinic for Private Diseases. (Hamburgh)
- (4) It has obtained three Gold Medals for Purity and Curative Excellence. Paris (1922) Brussels (1924) and Rome (1926).

These are your assurances that **ENDOPHON** is a genuine remedy. A trial three bottles will afford convincing proof of its efficacy, by the benefit received.

WE STOCK ONLY GENUINE REMEDIES

SCIENCE

"THE CHOICE OF THE EXPERT" READ WHAT CURED PATIENTS SAY.

Lt. ——— (Karachi). writes:—"Sincere thanks for your glandular treatment. It has proved entirely successful."

Mr. ——— (Rangoon) writes:—"The **Endophon** treatment has cured me completely of Partial Impotence that I was suffering from for the last three years."

Mr. ——— (Allahabad). writes:—"Nine bottles of **Endophon No. 1.** cured me of Partial Impotence."

Endophon is not similar to Dr. M. Stopes Prescriptions for Impotence, but entirely different, and now recognised by

- (1). *Gazette Medical of France.*
- (2). *Institute of Scientific Research and Development. (Berlin).*
- (3). *Journal of Medicine. Paris.*

as the most efficacious remedy for the cure of Impotence, of functional origin. Moreover, it is now manufactured in **CAPSULE FORM**—the best method to preserve full curative efficacy.

CAUTION.

Because of the success of **Endophon**, many imitations are now been advertised, under various trade names.

Avoid them all. **Endophon** has stood the *test of time*, and is guaranteed to cure permanently.

Manufactured by **THE BERGERET LABORATORIES, FRANCE**, by special methods, and correctly balanced, **Endophon** is of inestimable value in Sexual Weakness. Only 100 % fresh Gland Extracts are used, which directly after manufacture, are sealed in tasteless gelatine capsules.

These capsules are the only effective means for preserving the efficacy of the Gland Extracts. There is no deterioration.

We have such faith in the Curative Efficacy of **Endophon**, that we guarantee it to cure you permanently.

A complete course of **Endophon No. 1.** for Partial Impotence, ie, (Premature Ejaculation-Feeble Erection) is four months, comprising 20 bottles, and the cost, if ordered at a time is Rs. 100/-only. A reduction of Rs. 14/-is obtained.

A complete course of **Endophon No. 2.** (for Complete Impotence and Sterility) is six months, comprising 30 bottles, and the cost is Rs 150/-only.

If, after taking treatment for the complete course, a cure is not effected, we will refund your money in full. This guarantee is bona-fide.

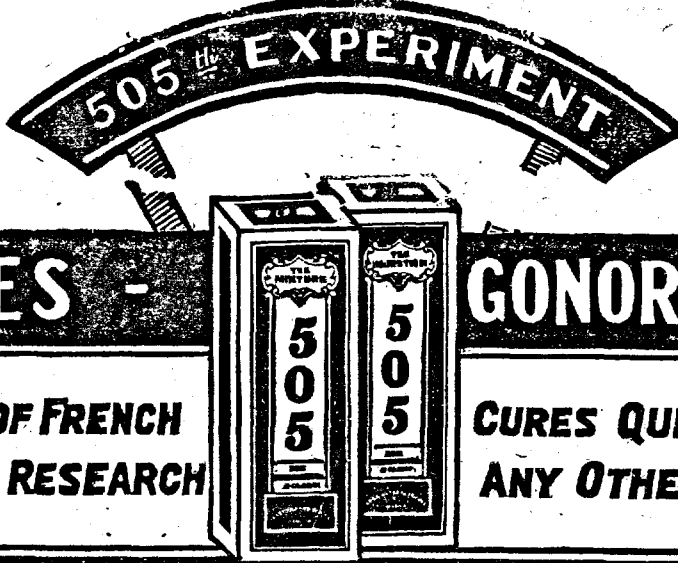
ORDER TO-DAY A COMPLETE COURSE

— — AND OBTAIN A PERMANENT CURE. — —

NOT WORTHLESS! QUACKS!

MEDICAL

THE CHOICE OF THE EXPERT



CURES - GONORRHOEA

A TRIUMPH OF FRENCH SCIENTIFIC RESEARCH

CURES QUICKER THAN ANY OTHER REMEDY

QUICKLY & PERMANENTLY

THE SEARCHLIGHT OF SCIENCE HAS DISPERSED THE MIST OF UNCERTAINTY COVERING A RADICAL CURE FOR "G" BY CAREFUL SCIENTIFIC RESEARCH AND NUMEROUS EXPERIMENTS.

"505"—the renowned treatment for 'G' is the ultimate result of *five hundred and five experiments* on patients suffering from the disease, hence its name.

"505" is a perfect, highly-efficacious treatment for 'G' and **never fails to cure the most chronic case.** It is used by many doctors, and in Government Hospitals in France, Belgium and Austria, a proof of its remarkable curative efficacy.

Don't be persuaded to try other inferior, abortive remedies, which instead of effecting a cure, only aggravate the disease, leaving a troublesome 'Gleet' behind,—but start treatment with "505" (Mixture & Injection) to-day. This **time-tried** remedy will quickly stop the discharge, remove all pain and irritation and totally eradicate the disease from the system.

"505" annihilates the demon *Gonococcus* permanently, leaving you clean and healthy, and after marriage or at any time, the disease will not re-appear. This, no other treatment can do. They only temporarily suppress the disease.

THE TREATMENT COMPRISES.

"505" MIXTURE.	Male or female Syringe	"505" INJECTION
1 bottle Rs. 4 8 0.	(For Injection) Rs. 1 8 0	1 bottle Rs. 4 8 0.
3 bottles of each "505" Mixture and Injection.....Rs. 24 0 0		
6 bottles of each "505" Mixture and Injection.....Rs. 45 0 0		

Tel. Code "Zabin"

BUY A 'HAND PICKED' REMEDY—THE CHOICE OF OUR EXPERT.

SCIENCE

THE CHOICE OF THE EXPERT

Your Deadly Enemy
is
Gonorrhea

Destroy it with the
finest treatment evolved
by Science — "505"
Mixture and Injection.

Medical Science is truly marvellous, but in no way is it more evident than in "505" Mixture and Injection. Its phenomenal success has astonished members of the Medical Profession when tried on many cases that were considered practically incurable.



Dr. Henri St Just.

A LETTER FROM A FRENCH DOCTOR.

Dr. Henri St Just. St. Just Nursing Home. 143, Rue Bonnard, Paris. (France.)

"I used "505" remedy on those of my patients suffering from Gonorrhea, and am glad to inform you that the result was more than satisfactory, so much so, that about 20 patients have been discharged as cured, and the remainder are progressing very well. I strongly recommend the use of "505" as a permanent cure for Gonorrhea."

READ WHAT CURED PATIENTS SAY.

(The names and addresses are not given for obvious reasons.)

Mr. ——— (writes). "Shortly after writing my last letter, the pain in the—stopped and everything assumed normal conditions. I thank you once again for your very kind attention and advice and service....."

Mr. ——— (writes). "Six bottles of "505" Mixture and Injection cured me of 'G' I am sorry that I did not get your treatment earlier, as then I would have saved a lot of money, that I wasted on other so-called remedies which did me more harm than good....."

Mr. ——— (writes). "I had an attack of 'G' and swallowed a wagon load of medicines, but without success. I may as well try your "505" as I have tried so many others, so please send me the full course....."

AFTER THREE MONTHS.

"Your "505" has proved successful. My sincere thanks....."

(Gon. Cure No. 1098).

EXTRACT FROM A LETTER OF PRAISE RECEIVED FROM A DOCTOR.

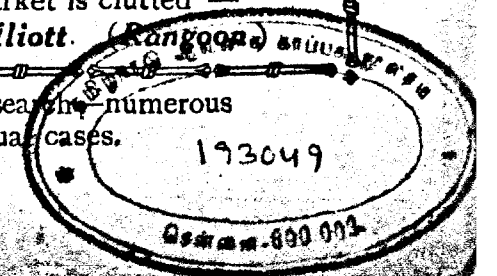
THE ANGLO-FRENCH MEDICAL AGENCY;

GENTLEMEN: It is with great pleasure that I take this opportunity to express my appreciation of the fine products you stock. I have used many of them with remarkable success. In these days, it is indeed hard to choose a good product from the numbers with which the market is cluttered"

Dr. S. C. Elliott. (Rangoon)

These remedies represent careful scientific research, numerous experiments and practical tests on actual cases.

LM211, N32MS
N2912



MEDICAL

"THE CHOICE OF THE EXPERT"
CONQUER THAT DISEASE PERMANENTLY!

"G"

"505"

(CONCENTRATED)



Mixture and Injection.

THE WORLD FAMOUS REMEDY FOR 'G'
WILL CURE YOU.

No matter how chronic your case may be.

To conquer permanently the relentless hold of "G" there is nothing better than "505" (Mixture and Injection). This treatment does not give mere temporary relief, but cures perfectly and permanently, removing every trace of the disease, by thoroughly disinfecting and healing the diseased internal tissues and destroying all the Gonococci germs.

Start treatment with "505" (Mixture and Injection) to-day. They will almost instantly soothe and relieve all pain and irritation; easily stop further discharges; immediately arrest the progress of the disease; and finally heal the diseased internal tissues and promote a thorough cure. Moreover, they cause no vomiting or purging, but are pleasant and simple to use.

'505' Mixture and Injection is recognised the world over as the finest and most effective remedy for "G"

In numerous instances "505" has succeeded where others had failed. These results clearly proved its remarkable excellence and wonderful Soothing, Healing and Antiseptic power.

There is, by far, considerably more REAL curative potency in one bottle of '505' than in a score of any 'make believe' remedy.

"505" is a remarkable genito-urinary remedy, having a disinfectant and antiseptic action upon the diseased tissues, hence it is the most rational and effective treatment for "G"

Therefore, if you are determined to be cured permanently, try "505" (Mixture and Injection). There is nothing else that will cure you so easily, smoothly and permanently—a fact that is corroborated by thousands who have been cured perfectly.

HOW THE TREATMENT CURES.

"505" Mixture. (Taken internally). Is excreted through the kidneys, flows from the healthy tissue downward over the infected portions, cleansing the organism from the inflamed anterior portion of the genito-urinary tract.

"505" Injection. (Self — injected). Through the meatus (mouth of the penis) into the urethra and heals the discharging sore and diseased membranes.

(Testimonial. Con. Cure No. 2054.)

Sgt. C. R. writes:—"Your treatment for 'G' is wonderful. The discharge has stopped completely and the Doctor here says I'm cured"

THE TREATMENT COMPRISES.

"505" MIXTURE.

1 bottle Rs. 4-8-0
3 bottles of each "505" Mixture and Injection. Rs. 24-0-0
6 bottles of each "505" Mixture and Injection. Rs. 45-0-0

Male or Female Syringe
(For Injection) Rs. 1-8-0.

"505" INJECTION.

1 bottle Rs. 4-8-0
Tele. Code. "Zabin"
Tela. Code. "Zabif"

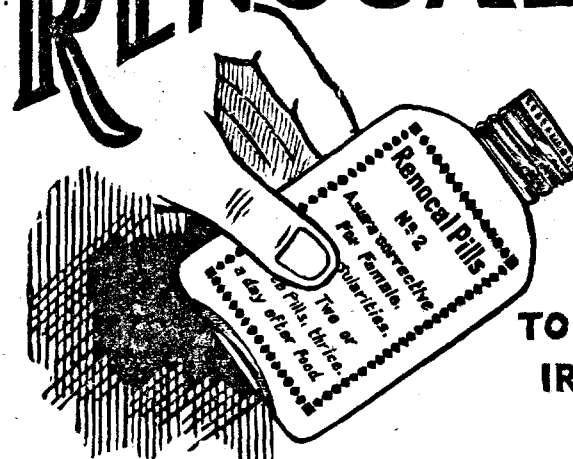
They are in no sense 'doubtful remedies' but 100% effective.

SCIENCE

"THE CHOICE OF THE EXPERT"

RENOCAL PILLS

THE WISE WOMAN'S
FRIEND-IN-NEED



NEVER FAILS
TO CORRECT ALL
IRREGULARITIES



GUARANTEES SUCCESS NOT FAILURE

Renocal Pills is the ideal corrective for female irregularities. Their wonderful smooth action assures that quick "relief" so much desired. No other pills or tablets are just as good.

Wise women always prefer Renocal Pills to others, be they ever so cheap. WHY? because they know that Renocal Pills unlike others, never fails—but does the needful in that marvellous smooth easy way, for which they are justly famous.

Be confident of the result by always taking Renocal Pills—and avoid Monetary Loss, and Days of Worry. Renocal Pills has stood the test of time and can be relied upon with full confidence.

TESTIMONIALS

Mrs. ——— writes:—

"Thanks for the bottle of Pills sent. It has done the needful....."

Mrs. ——— writes:—"Your Renocal Pills are wonderful. I am alright, though I have only finished half bottle....."

Mr. ——— writes:—"I am glad to say the Pills have done the necessary, so kindly cancel my order for the Mixture. Thanking you very much for your kind attention and the efficacious Pills sent....."

RENOCAL PILLS. (Two Strengths.)

No. 1. For early cases. Price Rs. 7-8 per bottle. Tele: Code "Refto"
No. 2. For obstinate cases. Price Rs. 12-8 per bottle. Tele: Code "Rexin"

Note:—It is advisable to give particulars, time over-due, age and physical condition to ensure receiving the right treatment, which will be supplied under our guarantee of success.

EVERY REMEDY STOCKED BY US IS 100% GENUINE—
NOT WORTHLESS 'QUACKS'

STRICTLY PRIVATE.

MEDICAL

FRESH STOCKS
RECEIVED

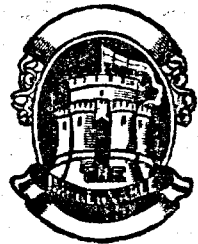
WEEKLY BY
AIR MAIL

FINEST
HIGH - CLASS

RUBBER
PREVENTATIVES

PROVED BY TEST

TO BE THE BEST



BRAND

WE STAND ALONE

As stockists of the finest quality Rubber Goods manufactured, and supply them perfectly fresh from stock **not more than one week old.**

Reasons Why you Should Deal with Us.

1. Your letters are treated as Strictly Private and Confidential.
2. All goods, before despatch, are carefully tested by our 'Never-Fail' Testing Machine' and microscopically examined.
3. Old Stock or punctured goods are never supplied.
4. We replace free any goods lost or damaged during transit.
5. We guarantee Complete Satisfaction, or will refund your money in full.

Some Opinions of those who have Dealt with us.

Mr. W. F. C. writes:—"The goods supplied have given me entire satisfaction. It is indeed a great relief to know where to purchase really reliable preventatives"

Mr. R. J. writes:—"The rubber goods sent are very fine. I have not bought such quality before."

CAUTION.

Many firms allow rubber goods to be handled by dirty Indian packers. These goods are filthy and full of dangerous germs.

ENSURE SAFETY by dealing with us. Goods are tested and examined by an European, wearing surgical gloves. They are supplied **fresh and clean**, and absolutely free from germs.



Genuine Italian "NEVERRIPS" NATURAL COLOUR

"HATU BRAND"

Finest Quality—Skin-Like Texture—Silk Finished—Seamless
These Preventatives are famous for their fine texture, elasticity and strength. They are specially noted for their wonderful keeping qualities in any weather. A trial order will convince you of their perfect quality.

Prices:—1 doz. Rs. 10. ½ doz. Rs. 5-8. ¼ doz. Rs. 3.

Tele: Code. 1 doz. 'Nefto' ½ doz. 'Nefin'

OUR CONSTANT AIM IS YOUR COMPLETE SATISFACTION.

Impregnable'
Brand Goods
Ensure
YOUR Safety



SCIENCE

CAMILLE

PREVENTATIVES.

[Snow White]

[Snow White!]

Beautifully Soft and Skin-Like—Unnoticed in use.

Preventatives
De Luxe



As Thin as Tissue
Yet Strong as Silk

"CAMILLE" Silk Finish Preventatives are of the highest standard of quality. They are famous for their wonderful skin-like texture, extraordinary strength, and fine elasticity. They are practically transparent, and so marvellously thin that they are **not felt** when used.

We guarantee, once "Camille" Preventatives are used, no other kind will be wanted, for no other make could give that complete satisfaction found in "Camille" Preventatives. (with teat-end or plain).

Prices:—1 doz. Rs. 16. ½ doz. Rs. 8-8. ¼ doz. Rs. 4-8.
Tele Code. 1 doz. "Exel". ½ doz. "Excelled"

TESTIMONIALS.

Mr.—(Pcona). writes:—"Camille" Preventatives are marvellous. I did not know I had one on....."

Mr.—(Karachi). writes:—"I like Camille immensely. It is so soft and cobwebby and thin as gossamer, I find it most delightful to use....."

AMERICAN TIPS.

Thinnest
Quality

Skin-Like
Texture

The American Tip has been specially made to suit the requirements of those who desire natural union, with full protection. It is quite different to the ordinary preventative, as it covers only the G. P. (tip of the private)

These American Tips are much superior to any other kind, as being *very thin and smaller in size*, they fit the G. P. like a **Glove**, and make sexual relationship perfectly natural. (Also obtainable, milk-white, extra thin, non-washable).



Four Points Worth Your Consideration.

- (1) They are **WASHABLE** and can be used again and again.
- (2) They will not split in use nor slip off during the withdrawal.
- (3) They do not perish quickly, and can be kept for months.
- (4) Fits with comfort and security, as they are made to normal size.

A Sure Method of Birth Control.

PRICES:—1 doz Rs. 18.

½ doz Rs. 9-8. ¼ doz Rs. 5.

Tele: Code. 1 doz. 'Tip' ½ doz Tipper

FRENCH TICKLERS

Superior Quality-Satin Finish-New Design.

These Preventatives are greatly appreciated for the 'feeling' they give during use, caused by the rubber 'ticklers' or 'ticklers' attached at the closed end. They induce passion in Frigidity and effect a proper adjustment in unequal sex relations. Warranted not hurtful.

* Prices:—1 doz Rs. 18. ½ doz Rs. 9-8. ¼ doz Rs. 5.

UNIQUE DESIGN PASSIONETTE MUTUAL EFFECT Preventatives

These Preventatives have small, round disc-like protrusions near the closed end, and should be used after the application of vaseline over the closed end. Recommended to remove frigidity and for mutual satisfaction. Promotes a proper adjustment.

* Prices:—1 doz Rs. 18. ½ doz Rs. 9-8. ¼ doz Rs. 5.

The "CROCODILE" (WASHABLE) Preventatives.



Prices:— 1 doz. Rs. 18.

½ doz. Rs. 9-8.

¼ doz. Rs. 5.

We believe that a Satisfied Customer is the best Advertisement.

MEDICAL

Most Natural in Use
Non-Ripping Quality
Warranted Reliable.

TRANSPARENT VESTA SKINS SKIN COLOUR. (Washable.)

These Preventatives are just like human skin in appearance and texture. They are consequently, most natural in use, and give that 'feel' that is so much desired. They are made of the purest para rubber solution by a special new process and are Seamless and Silk-finished throughout. (Teat end or plain.)
Price:—1 doz. Rs. 14. 1/2 doz. Rs. 7-8. 1/4 doz. Rs. 4. Tele. Code. 1 doz. "Vest" 1/2 doz. "Vestal"

Skin-Like Texture The Silk "NINON" Ivory White THE NEW LIQUID LATEX PREVENTATIVES. Highest Quality 5 Times as Strong as Ordinary Rubber

Liquid Latex of which "NINON" Preventatives are made, represent a great improvement upon ordinary, seamless goods as no chemicals are used in its manufacture and the natural strength and resiliency is left unimpaired. Being very light and exceptionally strong, they are a boon to persons suffering from nervous disorders, as sexual relationship is rendered quite natural. Prices: 1 doz. Rs. 15. 1/2 doz. Rs. 8. 1/4 doz. Rs. 4-8.
Tele. Code: 1 doz. "Fine" 1/2 doz. "Finest"

PREMIER
QUALITY

"ENDURANCE" (Washable) SHEATH.

To use the "Endurance" Sheath is to use the finest Sheath, for it gives absolute satisfaction on all points being made from pure para rubber by a special process which gives it that extraordinary elasticity, and quality for which it is noted.

The "Endurance" Sheath will not burst in use, like other cheap makes. It is four times thicker than an ordinary preventative, and is guaranteed to last for one year. The best Sheath obtainable.
Price: 1 sheath Rs. 5. Three Rs. 12. Three sizes. 1, 2, 3.

The "FRIVOLA" Preventative.

Resembles a Glove at the closed end. Very Unique.
Absolutely different to all others.

Recommended for frigidity and for effecting a proper adjustment in unequal sex relations. Satisfaction guaranteed.

1 doz. Rs. 18. 1/2 doz. Rs. 9-8. 1/4 doz. Rs. 5.

For Ladies / "YVONNE" For Ladies / RUBBER PESSARY. THE SAFEST METHOD OF BIRTH CONTROL.

This is the latest and most improved Pessary. Its unique design gives full comfort and eliminates all risk of leakage.

The best Rubber pessary manufactured.

Made of fine soft para rubber. Three sizes 1, 2, 3. Air or Solid rim.
Prevention is made

certain if used with Rennard's Soluble Pessaries. Price Rs. 5 only. Three Rs. 12.

LA FLORETTE. (PINK)

Specially selected quality. Very thin and silk finished. (Teat end only).
1 doz. Rs. 14. 1/2 doz. Rs. 7-8. 1/4 doz. Rs. 4.

THAIS. Excellent quality. Exquisite silk finish. A thoroughly dependable preventative.
Prices:—1 doz. Rs. 14. 1/2 doz. Rs. 7-8. 1/4 doz. Rs. 4.

Excellent Goods—Best Service—and British Fair Play is always obtained by dealing with us.

SAMPLE PACKET No. 1.

12 CONTAINING DIFFERENT TYPES OF PREVENTATIVES FOR 12
Rs. 10/- Only.

AS FOLLOWS:—

1 Camille	1 Ninon
1 La Florette	1 Vesta Skin
1 Neverrip	1 Thais
1 American Tip (Washable)	1 Crocodile
1 American Tip (Milk-white)	1 Passionette
1 French Tickler	1 Frivola

FREE:—1 Packet Preservative Powder.

SAMPLE PACKET No. 2.

CONTAINING FOUR SUPERFINE PREVENTATIVES
AS FOLLOWS:—

1 Passionette	1 French Tickler
1 Crocodile	1 Frivola

RS. 5 PER PACKET

Packed in Cellophane to Ensure Freshness on Receipt

SAMPLE PACKET No. 3.

CONTAINING SIX SUPERFINE PREVENTATIVES
AS FOLLOWS:—

1 Camille	1 Vesta Skin
1 La Florette	1 Neverrip (Hatu Brand)
1 Ninon	1 American Tip (Washable)

RS. 5 PER PACKET

A Packet of Preservative Powder is supplied free with each packet.

SCIENCE

"THE CHOICE OF THE EXPERT"

WHIRLING SPRAYS.



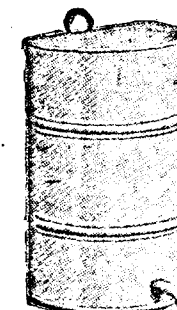
(British Make).

An excellent vaginal flushing-out apparatus for Ladies with forward and reverse current. Simple to use. Guaranteed to last for two years. Price Rs. 6 Each.

CALOMEL OINTMENT.

For prevention of venereal disease. Recommended for use with rubber preventatives.

1 bot. Rs. 2. 3 bots. Rs. 5.



DOUCHE SETS.

Best quality. All metal. 3 pints. Complete with rubber tubing, stop cock, rectum and vagina pipe to plug on.

Price Rs. 6-8. each.
(Postage Extra)

The Wife's Friend "RENNARD'S" Double Strength Chinosol Soluble Pessaries.

An Excellent method of Birth Control.
Price per box (12 Pessaries) Rs. 2-8. 3 boxes. Rs.

LA PAREE OIL.

A Powerful Aphrodisiac.

Can be used safely as a temporary measure.

Applied on the 'part', it immediately produces strong 'feeling' and desire. It gives intense power to the 'part'. Warranted harmless. Made to a special formula by E. Rollet et Cie, Marseilles, France.
Price per bottle of 4 ozs. Rs. 15—0—0 only.

LAURENT EMBROCATION.

Develops and Strengthens Under-sized, weak or strained 'Parts'

This remedy should be used when that 'part' has become weak, strained or is undeveloped. It tones the cells and nerves, and increases the size, removing strain and causes development of the testes and also enlargement of the erectile tissue, if necessary.

Laurent Embrocation owes its remarkable efficacy to its original formula. It contains special 'absorbable' gland secretions and other wonderful medicaments, especially good for under-sized, shrunken or weak 'parts' Three to six months use is guaranteed to produce full results in every case. Avoid worthless imitations!

Manufactured by W. Abbott & Sons, Ltd. London, according to the original formula of Dr. Henri Laurent, formerly first physician of the Fouquet Hospital. Paris. (France).

1 bot. Rs. 3-8 3 bots. Rs. 9-0 6 bots. Rs. 17-0

Testimonial.

Mr. — writes:—"Your Laurent Embrocation is very good. The 'part' is now normal in size. I used only eight bottles."

De Vecin Capsules.

A Powerful, Safe Aphrodisiac Acts in a few hours.

Those who require a safe Aphrodisiac, as a temporary measure, will find these Capsules highly satisfactory. They act in a few hours, and create desire and full ability. Can be taken by either sex.

(Strong). Rs. 5-8 per bottle,
(Extra Strong). Rs. 9-8 per bottle.

This is thrice as strong as the ordinary strength and is recommended for use where immediate effect is desired.

OBRACON—Aphrodisiac Tablets. (Special Strength).

These tablets are very powerful, and have an almost instantaneous effect. They enable a completely impotent man to have satisfactory union. Warranted perfectly safe, as a temporary measure. More powerful than De Vecin Capsules.

A British Product.

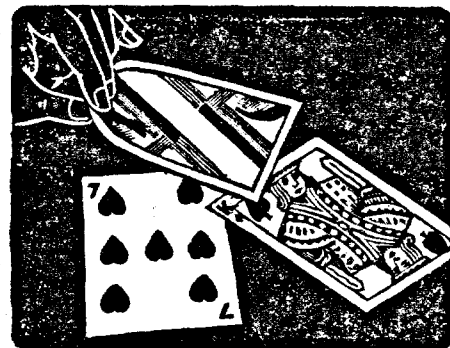
Made by Robert Ferber, Ltd. (London).

Sold in phials. Rs. 12-8 a phial.

WE STOCK ONLY GENUINE REMEDIES.

MEDICAL

"THE CHOICE OF THE EXPERT"



CHANCE PLAYS NO PART IN THE ACTION OF RENNARD'S MIXTURE

Scientifically prepared to the formula of **Dr. Emile Rennard**, it assures quick relief always, without injurious effects.

Let your choice be **Rennard's Mixture**. It is **MORE** effective than others, and will do the needful in a few days.

There is nothing else to equal **Rennard's Mixture**. Many imitations are now sold, but there are important differences.

Rennard's Mixture is **QUITE SAFE** to take. Furthermore, it is Non-Purgative. Nor does it cause Nausea or impair appetite.

NOTE:—The latest time that **Rennard's Mixture** can be taken with Success is two months over-due. After this time, it should not be taken as success is doubtful. If taken in time, it **CANNOT FAIL**.

THE NEW FRENCH PREPARATION FOR IRREGULARITIES.

Price
Per Bottle
Rs. 30.

Tel: Code.
"ROYAL"

The price of **Rennard's Mixture** is due to the high Customs Duty on French medicines, besides the very costly drugs used in its manufacture. However, it is infallible, if taken in time.

READ THIS CAREFULLY.

The treatment is fully guaranteed and if ineffective, the full cost will be refunded.

Mr.——— writes:—Please send immediately a bottle of **Rennard's Female Mixture**.....
Later.....

"All's well. But send me another bottle as a standby....."

Mr.——— writes:—Kindly supply a bottle of **Dr. Rennard's Female Mixture** and I trust it will be as you claim....."

"Everything O. K.

Later.....
My sincere thanks....."

DEAL WITH A FIRM OF REPUTATION

SCIENCE

"THE CHOICE OF THE EXPERT"

Since the introduction and sale of **Rennard's Female Mixture** in this country, hundreds of testimonials have been received from grateful customers. We publish below a few of them. The names and addresses are not given for obvious reasons.

Gave Relief After Four Days.

Mrs.——— (Delhi). "Your famous Mixture gave me relief after only four days treatment. You may rely on my orders in future"

Had Desired Effect Within a Week.

Mrs.——— (Simla). "Rennard's Mixture had the desired effect within a week"

Acted Marvellously.

Mrs.——— (Darjeeling). "Rennard's Female Mixture acted marvellously"

Wonderfully Efficacious.

Mr.——— (Ceylon). writes:—"The Mixture was wonderfully efficacious and I obtained the desired effect"

Doubt Turned Into Joy and Relief

Mrs.——— (Ambala). writes:—"It was with little faith that I decided to try a bottle of **Rennard's Mixture**. I thought it was one of those doubtful preparations which more often than not are ineffective, that I know to my cost. It was with joy and relief that I noticed its action this morning. I am now quite all right, and you may rest assured that I will place all future orders with you"

BEWARE OF IMITATIONS.

The advent of **Rennard's Female Mixture** and its immediate and amazing success have made it vulnerable to the onslaughts of imitators and substitute makers whose sole object is to steal the merit of an original, efficacious product.

Proved Best BY Every Test

URGENT, FAR-ADVANCED CASES.

The following treatment should be taken for Far-advanced cases:—
One bottle of **Rennard's Female Mixture** in conjunction with two bottles of **Renocal Pills No. 2**, as directed. This is the Combined Treatment and is infallible. The telegraphic code word is "Combined".

AND GET VALUE FOR EVERY RUPEE SPENT.



MEDICAL HUMOUR

OR

The Doctor's
Funnybone

PASSED BY THE MEDICAL BOARD OF NON-SENSERS.

"Laughter is a most healthful exertion: it is one of the greatest helps to digestion and the custom prevalent among our forefathers, of exciting it at table by jesters and buffoons, was founded on true medical principles."

Motto of a brassiere store: "WE FIX FLATS."

Anatomically speaking, if nations would use their heads and get rid of their arms, they could soon get back on their feet.

A surgeon is the legal agent of a patient during an operation, and the period of the patient's unconsciousness, a New Jersey court rules, and afterward he is merely a person trying to collect a bill.

Doctor (after knocking over a butcher's boy): "I'm sorry, my boy; are you all right?"

Boy (picking up contents of his basket): "Dunno. Here's my liver and me ribs, but where's me kidney?"

Mrs. Owens: "I wonder if the doctor's wife meant anything personal just now."

Owens: "What did she say?"

Mrs. Owens: "She said we might at least pay them a visit."

According to Dr. N. C. Nelson of the American Museum of Natural History, human beings have been hanging around this planet for two million years. And they still haven't the faintest idea of how to run the thing.

She belonged to the Save the Animals League and meeting the doctor on the street barely touched his kid covered hand as she shuddered and snapped out, "Skin of a beast! Skin of a beast!" "Why, what do you wear?" asked the doctor. "Silk" was the reply.

The doctor gave a comic shudder and came back with "Entrails of a worm," then passed on.

Men still die with their boots on but usually one boot is on the accelerator. It is well to remember that a foot on the brake is worth two in the grave.

A farmer ran in to tell a neighbor that his wife had suddenly gone insane. "I don't know where she could have caught that insanity germ," he added. "She ain't been outside our kitchen for 25 years."

Husband (at wife's bedside in maternity ward): Well, it looks as though I have another mouth to feed.

Wife (busily engaged): What do you mean, you have?

The witty young wife of a university professor remarked during her first pregnancy, "I'm quite modern, you know - heir-conditioned so to speak."

Fan Dancer: Doctor, I want you to vaccinate me where the scar won't show:

Doctor: Okay. Stick out your tongue.

An Accurate Diagnostician.

Father was giving the fair young daughter a lecture about her beau. He exclaimed, "Does he know who pays the light bills? Doesn't he know enough to go home at the right time?"

The daughter replied, "Yes, he knows enough to go, but he was sick last night."

With that the father started in again. "Don't tell me that a big husky fellow like him was sick. What on earth was the matter with him?"

As the fair young daughter started for the door, she sang back, "He has heart trouble."—*Indianapolis News.*

Smith: "My wife went to see the doctor, and he ordered her to take plenty of exercise."

Jones: And is she doing it?"

Smith: "Well, if jumping at conclusions and running up bills can be called exercise, she is."

THE VIRILITY OF MANKIND

What Medical Science has accomplished.

By a Doctor.

How to maintain the virility of mankind? This knotty problem has engaged the attention of many famous scientists.

The chief causes of sexual weakness is the vicious habit of masturbation, sexual excesses, prolonged and frequent sexual excitement, which have been proved detrimental in the extreme. The sexual system is deprived of sufficient rest and recuperation and gradually loses its wonted energy. Other causes are excessive exercise, sedentary life, and excessive drinking.

Several attempts have been made to arrive at a formula which would bring about successful results. Commencing from the experiments of Brown Sequard in 1889 down to the recent findings of Dr. Serge Voronoff, the famous Russian Surgeon, it is a long history of laborious investigations by men of outstanding ability who dedicated their lives to the cause of medical progress and the alleviation of human misery.

The outcome of these extensive experiments and research established Gland treatment by the mouth, as best and most rational in the cure of Sexual weakness.

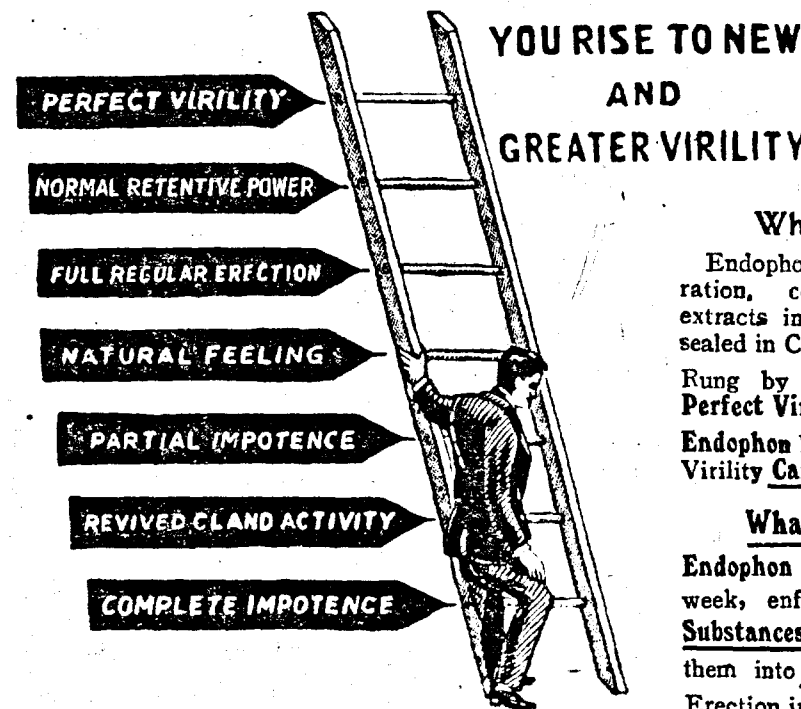
A very important factor in successful gland treatment is **FRESHNESS** of the vital Gland Substances. It is necessary that they are prepared in gelatine capsule form, to ensure freshness and maximum curative efficacy. Gland Substances in tablet or liquid form quickly deteriorate and become inert and worthless.

ENDOPHON—a product of the great Bergeret Laboratories, France, is the finest Gland preparation on the market. It is made in **CAPSULE FORM** and sold in two different kinds. No. 1 for Partial Impotence, and No. 2 for Complete Impotence and Sterility.

MEDICAL

"THE CHOICE OF THE EXPERT"

RUNG BY RUNG



Where do YOU stand on the Ladder?

Whether you stand half way up or right at the bottom, Endophon will cure you completely and permanently.

What Endophon IS

Endophon is a genuine gland preparation, containing the vital gland extracts in a fresh, fully active form, sealed in Capsules.

Rung by rung, slowly but surely Perfect Virility is obtained.

Endophon has proved conclusively, that Virility Can be permanently regained.

What ENDOPHON Does.

Endophon will gradually impart to your weak, enfeebled glands those Very Substances that they lack, and revive them into New Activity giving Partial Erection in two weeks.

Your Weakened glands now functioning, gradually strengthen the whole sexual system, increase the Erectile Strength of the "Organ" ultimately producing Full Regular Erection and Normal Retentive Power.

Thus, **Rung by Rung**, permanent and perfect virility is the final result.

Sold in two kinds.

NOW MANUFACTURED IN CAPSULE FORM.

Endophon No. 1. For Partial Impotence. (Premature Ejaculation-Feeble Erection)

Endophon No. 2. For Complete Impotence and Sterility.

Prices: 1 bottle Rs. 6-8-0 3 bottles Rs. 18 6 bottles Rs. 34.

Telegraphic	3 bots Endophon No. 1.	'Entrax'	6 bots. Endophon No. 1.	'Entron'
code	3 bots. Endophon No. 1.	'Enjex'	6 bots. Endophon No. 2.	'Enjexor'

WE STOCK ONLY GENUINE REMEDIES

SCIENCE

"THE CHOICE OF THE EXPERT"

ENDOPHON is recommended for under-sexed men (deficient virility). It gives increased virility with greater retentive power.

It is also recommended as a wise safeguard against sexual weakness. If a few doses is taken each time, before or after sexual intercourse, the well-being of the organ will be maintained. This precautionary measure is especially advised to those men whose sexual ability is not quite normal.

ENDOPHON is non-injurious, and can be taken any time. Its action is beneficial and restorative,—not stimulating. It tones, strengthens, and maintains the healthy condition of the organ.

READ WHAT CURED PATENTS SAY.

Mr. _____ (writes):—"The **Endophon No. 1** which you sent me is doing me a lot of good, and I will gladly recommend to anyone who needs such a valuable medicine for Sexual Weakness."

Mr. _____ (writes):—"Acting on a friend's advice, I tried **Endophon No. 1**. and am very pleased to inform you that it has fulfilled its claims."

*
YOU'VE
TRIED
THE
REST
*

ENDOPHON GLANDULAR EXTRACT

is **NOT** a mere Aphrodisiac or stimulant. It is scientifically prepared from fresh Gland Extracts containing those internal secretions, which are provided by the Organism itself for maintaining the normal functional capacity of the Sexual System. Therefore, it is the most suitable remedy for Impotence.

*
NOW
TRY
THE
BEST
*

NOTE:—It has been conclusively proved that the only rational cure for Impotence is Glandular Treatment. This is strongly recommended by Dr. Marie Stopes in her book "Enduring Passion"

Treatment, in order to be successful, should be carried out regularly. Efficacy of the Gland Substances depends on **FRESHNESS**. It is important that they are, when taken, perfectly fresh. This difficulty has been overcome, as **ENDOPHON** is now made by the manufacturers in **CAPSULE FORM**, which fully preserves the freshness and potency of the vital Gland Substances.

Glandular Substances in tablet or liquid form lose freshness in a short time, and become stale and ineffective as a treatment for Impotence.

Latest Testimonial.

Mr. _____ (writes). ".....I have read about Endophon and would like to give it a trial. Please, therefore, send me six bottles of Endophon No 1. If it does me good, I shall complete the course. I've had this trouble for five years for being such a fool when I was young, which I bitterly regret....."

Later.....

".....Endophon has made me a new man. I feel twenty years younger....."

NOT WORTHLESS 'QUACKS'

COPY OF
CERTIFICATE OF MERIT.

Awarded for ENDOPHON by the Institute of Science. Paris. France.

THE
INSTITUTE OF SCIENCE.

This is to Certify
That Endophon Glandular Extract
- a product of Bergeret Laboratories,
has been carefully tested and found
to possess remarkable curative efficacy
in the treatment of
IMPOTENCE

We strongly recommend it from a firm
conviction that it is the best remedy
and

from a sense of duty to the
Profession and Public.

Paris.

3rd April 1937.

Pierre De Sartines.

Director.

LATEST
TESTIMONIALS

Mr. ——— writes:—

"It was with a lot of doubt that I decided to take a course of Endophon No. 2. having tried so many remedies, without benefit. I have just completed the course and I am now quite all right. I can hardly realise it. My only regret is not knowing of this excellent product earlier....."

Mr. ——— writes:—

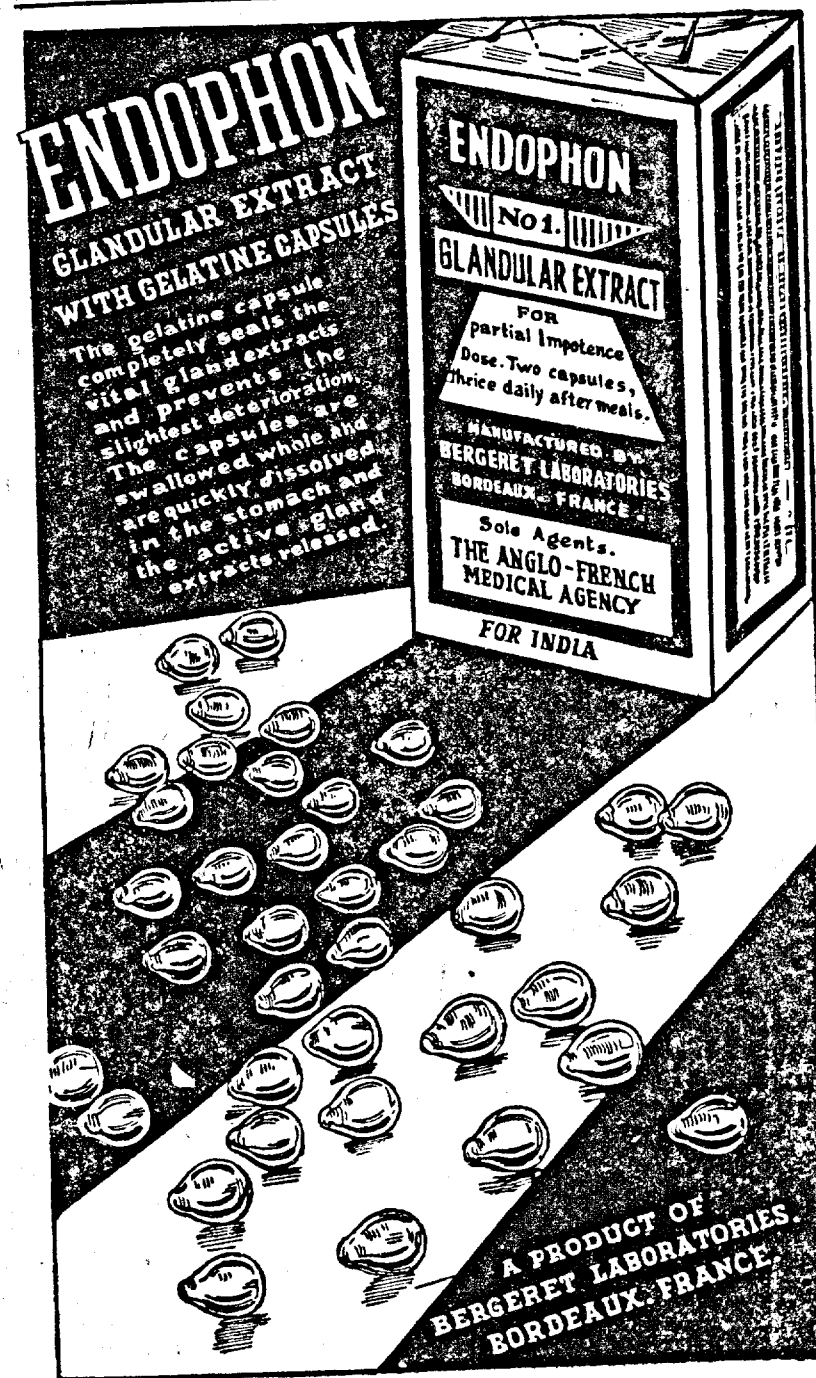
"Your Endophon No. 1. is a great remedy. I am now perfectly normal. I must confess that I never expected this result and in three months, after experiencing so much disappointment in the past....."

Mr. ——— writes:—

"I deeply regret that for many years I have committed — with the result that I am now suffering from Partial Impotence. A friend advises your Endophon No. 1. and I would like to give it a trial. Please send....."

After Four Months.

'Endophon No. 1. is very good. It has cured me completely. Thanks.'



SOLD IN TWO KINDS.

Endophon No. 1. For Partial Impotence. (Premature Ejaculation—Feeble Erection.)
Endophon No. 2. For Complete Impotence and Sterility.

Prices:	1 bottle Rs. 7-8-0.	3 bottles Rs. 21.	6 bottles Rs. 40.
Telegraphic Code.	3 bots. Endophon No. 1. 'Entrax'	6 bots. Endophon No. 1 'Entron'	
	3 bots. Endophon No. 2. 'Enjex'	6 bots. Endophon No. 2 'Enjexor'	

Health and Hygiene

The Air You Breathe

Human beings can, if they must, exist for many days without food. This has been demonstrated over and over again, especially in Natural Cure practice, under which some patients, in order to be made well, have existed for weeks, with nothing except water. Even water may be cut off for a decidedly long period without causing death, as shipwrecked sailors have proved. Cut off the supply of air, however, and human beings perish in a few minutes.

This fact is so well known that it seems almost absurd to mention it. Even children know it. Yet, with extremely few exceptions, the public has not been led by the knowledge of this fact to realise the immense importance of air to health. People shut themselves away from air with glazed windows and draughtproof doors. They keep it from their bodies with tight head coverings, with leather shoes, with corsets, with closely-fitting underwear, with collars, and with closely-woven fabrics of all kinds.

The Contempt Bred by Familiarity

If, through some revolutionary natural convulsion, mankind became suddenly immersed in water and had to exist thereafter in such a surrounding medium, laymen, scientists and governments would labour instantly to learn all about its qualities and effects; but of man's natural medium—air—very little notice is taken.

Mankind is immersed in air, as fish is in water. Whatever environment man may be in, or whatever he may do, he can never get away from the environment of air; yet he does not attempt to use it as it should be used.

It is obvious that no human being can hope to attain, or maintain, perfect health without using the unescapable environment of air to the fullest degree. Humanity is still suffering from the delusion that, for

some unknown reason, day-air is good while night-air is deadly.

That superstition is being slowly driven out by science, but it still exists in many minds and communities. The number of civilised people who shut themselves up, hermetically, at night is still appallingly large, and much more education will be required before the night-air superstition is completely banished.

Another Superstition

Following the night-air superstition, there is another which remains fixed firmly in the human mind. It is the belief that the value of air lies in certain properties that can be obtained only if the air is full of oxygen and, particularly, ozone. That error, while not harmful like the one about nightair, has the effect of stopping people from taking the fullest and most correct advantage of air. It has been proved, within recent times, that the body does not depend entirely on the oxygen or ozone that is brought into the lungs, but that fresh air concerns the skin even more than the lungs.

It has been established that the value of deepbreathing lies more in its mechanical effect on the circulation than in the conveying of more oxygen to the lungs. Flugge, Leonard Hill and Krotkoff have demonstrated that, while re-breathed air is without apparent ill effects on animals or men, heated, humid, motionless air that surrounds the human body will produce all the characteristic effects of vitiated air. It is not ozone nor even oxygen, then, that represents the value provided by fresh air. It is Motion and Change.

Avoid Motionless Air

Motion in air not only purifies what we breathe, but it regulates the fundamentally important matter of temperature. Even outdoor air, as everyone knows, becomes oppressive when it becomes still. If people could live out of doors constantly, they would not need to worry lack of motion in the air, for outdoor air is rarely still, and when it does become motionless it does so for only a short period. Civilisation has forced people

to spend most of their lives indoors, and so they suffer from the result of "Caged motionless air—bad health.

What does this mean to you? It means that motionless air is the air to avoid. Moving air is what the body, inside and outside, needs for perfect health. It means that draughts should not be feared. It means that, whatever your living or working conditions may be, you should give yourself the daily air-bath that your body needs. You should keep the air moving by any device: by open windows, open doors, or fans. You will then be obtaining the first essential value from the air by which you are surrounded.

Malaria Research

Malaria is one of the most important factors to be considered in the development and economics of all tropical and subtropical countries. Until half a century ago the cause and mode of transmission were entirely unknown. Hippocrates considered that it had some connection with bile and he divided the disease into quotidian, tertian and quartan fevers. Celsus recognized two types of tertian fever, one benign and the other more malignant. Even in Cæsar's time, Vatro associated the disease with swamp air. A specific was first recognized in 1638 when the Countess of Chinchon was cured of an intermittent fever by the bark of certain trees obtained from Peru: hence the origin of the name Cinchona. Morton and Sydenham confirmed its use as a specific in certain fevers in 1666, but not until Torti made his research in 1753 was it definitely established which clinical forms of fever yielded to the bark and which were unaffected. Many famous names are connected with the history of malaria; Andouard, who recognized the malarial spleen; Meckel who noted malarial pigmentation; Virchow who demonstrated

the pigment in the cells; and Kelsch who further concluded that this pigmentation was diagnostic of malaria.

In 1880, the most important date in the history of malaria research, Laveran, the French military surgeon at Constantine in Algiers, first saw the parasites of malaria. He noted both: spherical pigmented bodies and crescents and realized that these were living bodies because he saw the flagellation of the male gamete taking place. It was however not until 1855 that the world in general was finally convinced that these were the causal organisms when Marchiafava using preparations stained with methylene blue was able to observe the whole process of ring formation, increase in size, etc; up to the sporulating cyst. Golgi further elaborated this work and succeeded in demonstrating that fever remissions exactly coincided with the maturity of the merocytes (sporulating forms) and he worked out the definite quartan fever cycle.

Celli and Koch are also particularly connected with the differentiation of the various types of malaria. Romanowsk's stain was a great factor in the further elucidation. In 1894 the mosquito transmission theory was formulated by Manson. Pfeiffer suggested that there was both an endogenous and an exogenous cycle and Ross proved this in bird malaria, working with sparrows. Later Grassi and Bignanni demonstrated the cycle of human malaria. Sambon and Low's experiment in a mosquito screened hut in the Roman campagna, and the transmission of typical malaria to Dr. P. T. Manson and Mr. G. Warren through infected mosquitoes sent from Italy to London, were strong links, in the chain of research. Koch definitely established the fact that human and animal malaria-like infections are distinct entities.

Meanwhile, to return to the therapy of the disease, the alkaloid quinine was isolated from Cinchona by Pelletier and Caventou and

MEDICAL

at the same time attempts were made to synthesize the alkaloid. All such attempts have hitherto proved unsuccessful and it was not until Schulemann, Wingler and Schonhofer succeeded in synthesizing a quinoline derivative, now known as 'Plasmoquine', that a very definite step forward was made. This substance was tested by Roehl on bird malaria and after having proved thoroughly satisfactory was sent out for clinical trials. Sioli, Muhlen and Roehl all obtained good results with it in human malaria and the trials were extended to other parts of the globe by numerous workers. As was only natural, in the first few years of its trial the most effective and least toxic dosage was difficult to establish. It was recognized very early that its specific action on the gametes of subtertian malaria was a valuable economic factor but it was not until it was combined with quinine, which had a better effect on the schizonts, that full use of this asset could be made. Now, after many diligent researches by thoroughly reliable authorities, a definite dosage has been established which in the majority of cases meets all requirements. The drug is now universally accepted as one of the most valuable advances that has been made in the prevention of malaria. Through a combination of quinine and 'Plasmoquine' (issued under the name of Quino-'Plasmoquine') it is now possible to sterilize populations so that even although other economic factors prevent complete eradication of mosquitoes, nevertheless malaria incidence can be diminished since the mosquitoes no longer feed on infected blood.

Treatment of Psoriasis

Richard Sutton, in the *U. S. Naval Medical Bulletin*, says that during the past twenty-five years the remedies that he has employed in the treatment of psoriasis are legion. In the end, he has sifted them down to four. He no longer dreads to see an extensive case of psoriasis brought into his office. Internally he has learned

to depend upon foreign proteins and, to a lesser degree, arsenic; externally, on chrysarobin and ammoniated mercury. Chrysarobin is the most valuable of all.

It is prescribed in a vaseline mixture, in the proportion of one to five. At first glance, 20 per cent may appear rather strong, but in an experience covering several hundreds of cases he has never seen any ill effects following its use. Of course it cannot be applied to the scalp and face because of its staining qualities and its liability to cause conjunctivitis, but when employed on the trunk and limbs, best with a small, stiff bristle brush, night and morning, the result is little short of marvelous. One week of hospitalization generally is sufficient. The mercurial, in a mixture consisting of salicylic acid (10 parts), ammoniated mercury (5 parts), and vaseline (85 parts), is used on the face and scalp, and later, if need be, on the trunk and limbs. As a rule, at the end of a week it is best carefully to cleanse the skin with soap and water, and if much inflamed apply zinc oxide ointment for a few days. Any persistent lesions can then be treated with the ammoniated mercury ointment after the patient leaves the hospital. Care must be taken to bandage the patient's eyes at night to protect them from the chrysarobin.

Of the various foreign proteins, he has found colon vaccine best (in doses from 100,000,000 upwards, always subcutaneously, never intravenously), although some of the milk preparations are reliable and dependable.

Protein shock appears to lessen the resistance of the cutaneous lesions, and render them more susceptible to the action of chrysarobin and similar remedies.

Not until the patient is rid of the eruption is arsenic prescribed, and even then its action is carefully watched. It is best given by mouth, in the form of Liquor potassii arsenitis, and doses of not more than five or six drops, well diluted, and on a full stomach. Care must be exercised to prevent the patient from continuing the arsenic over long periods of time. Arsenical keratoses are easily acquired and hard to get rid of.—*Urolog & Cutaneous Rev.*

SCIENCE



**Drop by drop
Will wear away a stone
Not by force
But by constancy alone**

Spermatorrhea (Seminal Emissions) gradually saps the life from the sufferer and kills him inch by inch.

Don't abandon hope of being cured, if other remedies have been useless—but try **SALIX PILLS**.

SALIX PILLS is scientifically and scrupulously prepared to cure this devastating disease. There is no remedy under the sun that cures so easily,

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Extracts from Commendatory Letters Received from the Medical Profession.



Dr. F. C. Perrier.

Dr. F. C. Perrier. 24, Rue Canabiere. Marseilles. France.

"Salix Pills is a perfect remedy for Spermatorrhea. I have treated many cases, and have not known it to fail in a single instance."



Dr. J. Hilton Brown.

Dr. J. Hilton Brown. 59, Maberley Road, Upper Norwood. London. England.

"I endorse Salix Pills as a most efficacious remedy".

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Mr. ——— writes:—"For eight months I suffered from Spermatorrhea. Emissions took place four to six times a day. I lost weight, became thin and weak, and was unable to do much work. In fact, I was a perfect wreck. Six bottles of Salix Pills cured me. No emissions have occurred for three weeks, and I have gained 20 lbs. in weight." (Spermatorrhea Cure No. 392.)

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MEDICAL

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Made by Bergeret Laboratories

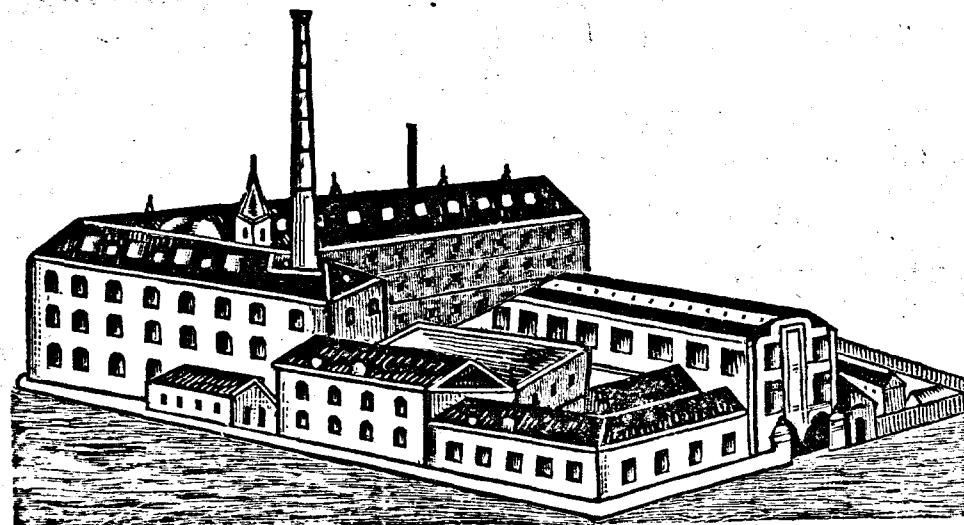
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SCIENCE

Extract from commendatory article by Dr. Louis De Rochefort, published in the Journal of the French Medical Association.

Jan. 1938.

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Dr. J. S. Vaucolles. 51, Rue Aristide-Briand, Levallois, Seine. Paris. France. "....I take pleasure in certifying that Endophon is the finest remedy for Impotence and Sterility....."

Dr. J. S. Vaucolles.



Dr. E. P. Maurillard. 24, Rue des Fosses St Jacques. Bordeaux. France. "....As a remedy for sexual weakness Endophon has no equal....."

Dr. E. P. Maurillard.



Prof: W. Curtius. Curtius Clinic. 38, Boulevard Haussmann. Hamburg. Germany. "....I have used Endophon on patients in my Clinic with great success. I further add, that it is immensely superior to similar preparations, having the vital gland substances in a concentrated form....."

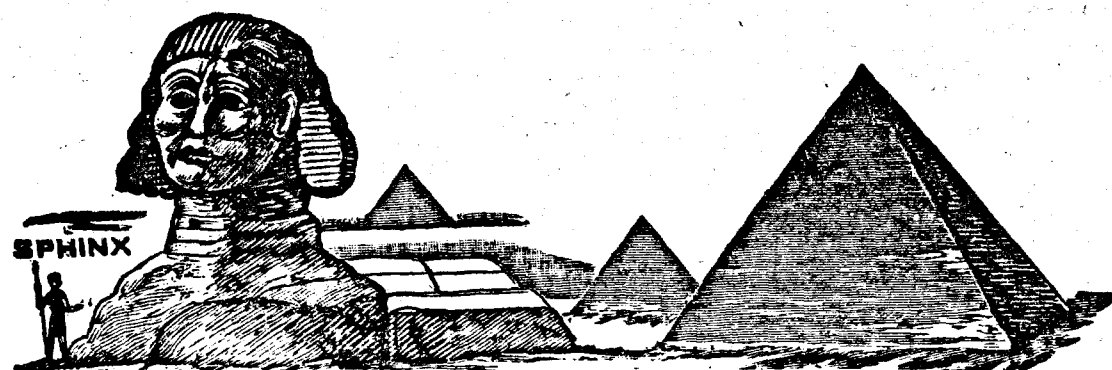
Prof. W. Curtius.



Dr. G. Beaupre. 4, Rue Marechal Foch. Brussels. Belgium. "....Science has taken a step forward in the discovery of Endophon....."

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THE GREAT PYRAMID

Stands at the foot of the Libyan Mountains, a great limestone rock, converted in ages past into a man headed lion, termed by the Greeks, Sphinx.

Situated near Gizeh on the west bank of the Nile, and erected as the tomb of Khufu, fourth dynasty, the Cheops of Herodotus, dated by Brugsch, 3733-3666 B. C. The height is 481 ft. and its base, 774 ft. square.

The Scientific Remedies listed herein like the 'SPHINX' and 'GREAT PYRAMID' have stood the *test of time*. They have been in steady demand for over 50 years, and are to-day in greater demand than ever, a proof of their remarkable curative efficiency.

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SCIENCE

New Uses of Blood from the Dead

The blood of the dead may soon be used to restore the living to health.

Experiments in Russia are stated to have disclosed these startling facts:—

Blood from corpses gives better results than that from live donors.

Red cell increase is higher after transfusion from a dead person than after transfusion from live donors.

Professor W. N. Shamor, outlining his remarkable experiments on animals and man in *The Lancet* declares that the transfusion of cadaver (corpse) blood has other definite advantage—notably the rarer and less conspicuous reactions on patients.

"PREJUDICE"

"In spite of the fact that there is a large body of supporting evidence for its value and that full sanction has been obtained for taking blood from cases of sudden death, medical men at the courts of justice were unwilling to allow the blood of bodies that are at their disposal to be drawn for clinical needs," writes the professor.

He speaks of the strong prejudice in the majority of people at the bare thought of transfusing into a live person the blood from a corpse and the "holy awe" at the thought of "disturbing the repose of the dead."

From experiments on animals the professor "confirmed our fundamental thesis that the blood in the dead body

preserves its vitality for about ten hours after death."

The efforts of two Berlin doctors named Wencklebach and Kunert have led to the isolation of the virus of measles; according to the *German Medical Weekly*, writes a medical correspondent.

It is stated that the virus has been discovered in an embryonic membrane of a hen's leg.

If this virus has been successfully isolated and cultured it may become possible to prepare an effective vaccine of specific preventive value.

CONSERVATIVE ENGLISH DOCTORS

A London hospital doctor declared

"The use of corpses' blood in the treatment of illness has been in vogue for some years in Russia.

"I saw it done at a big accident hospital in Moscow. Precautions are taken to ensure that the dead did not die from any disease.

"It is claimed that very good results have been obtained.

"I have been trying to advocate this method in this country in order to relieve the strain on blood donors, but there seems to be very little enthusiasm for it among British medical men,

Dr. EIJKMAN and BERIBERI

Beriberi is a disease of the Orient. As long ago as 1880, a young Japanese physician, Dr. Takaki, educated at St. Thomas Hospital, London, realized that the disease was caused by a deficiency in the diet. But he went no further than to add fresh meat and other foods to the unbalanced rice diet of the Japanese Navy.

Dr. Christian Eijkman, a Hollander by birth, was sent to the Dutch East Indies with the Colonial Army in 1883. He was amazed at the numerous cases of beriberi among the prisoners who were in his charge. The disease manifested itself in a polyneuritis and muscular atrophy of the arms and legs with extreme swelling.

Unfortunately Dr. Eijkman was invalidated after two years of service in the tropics. He returned to Holland and began work as a bacteriologist. He could not forget the suffering of the victims of beriberi that he had left behind, and in 1886 he returned to the East Indies as a member of a Commission to study this disease. The Commission concluded that it was caused by an infection. They thereupon returned home. Dr. Eijkman remained in Batavia. He was not satisfied. An admirer of Dr. Koch, he wanted to isolate the germ. He applied all known laboratory methods to secretions and blood of patients with no results.

One day he noticed something peculiar about the chickens in the hospital yard; a limpness of the neck and wings, and paralysis of the legs. Suddenly he identified their condition with beriberi of humans.

At last Dr. Eijkman had an experimental animal to work with. These chickens were fed with scraps from the hospital food, mainly polished rice. The young doctor thought that the germ causing beriberi entered the chicken's body through the waste food of the patients. He watched them, but a newly appointed hospital superintendent refused to let Dr. Eijkman feed the scraps to the chickens.

He protested in vain, little realizing that here was a stroke of good fortune. The fowl were then fed unhusked rice and recovered! Amazed, he began experiments on two sets of fowl, feeding one polished rice alone, and the other unpolished rice. The latter remained healthy, the former developed polyneuritis. Here was the answer to his question. The experiment was continued on prisoners, with identical results. Some years later the beriberi hospital was closed for want of inmates.

Dr. Eijkman's work for which he later received the Nobel Prize, was done from 1889 to 1897. In 1911 the crystalline anti-beriberi element was extracted from rice husks by Casimir Funk. He named it "Vitamin."

SCIENCE

Compound Solution of Tannic Acid in the Treatment of Burns

According to Bernard Fantus and H. A. Dyniewicz (J. A. M. A., July 17, 1937) the following solution is now being used with success in the Cook County Hospital in the treatment of extensive burns. It is comparatively stable and is kept on hand for use in emergencies. It produces a denser coagulum. It is superior to plain tannic acid solutions because it has bacteriostatic action.

R Potassium chloride.....	0.42 Gm.
Calcium chloride.....	0.84 Gm.
Salicylic acid.....	1.00 Gm.
Sodium chloride.....	10.50 Gm.
Tannic acid.....	100.00 Gm.
Distilled water to make.	1000, c.c.

Mix and permit to stand with occasional agitation until dissolved and filter, if required to dispense a clear solution.

They also recommend that a ten per cent silver nitrate solution be applied to the tannic acid crust.

Tannic acid acts by controlling "white bleeding," i. e., the depletion of the serum from the circulation into the inflammatory edema and exudate. It is also believed that the crust renders insoluble and unabsorbable the hypothetical "burn toxins."

Heart Pain Traced to Overweight in Many Cases

Severe chest pain resembling that of the dread heart malady, angina pectoris, is often due to overweight, William J. Kerr, professor of medicine in the University of California Medical School, has found.

The huge "bay window" of very fat men forces them to adopt an abnormal posture which cramps the chest, causes flaring of the lower ribs, fixes the diaphragm at a low position, thus producing breathlessness and preventing the heart from getting a normal supply of oxygen. Severe pain and low blood pressure in the standing position which is contrary to the usual experience in heart failure.

The pain and other features clear up when the weight is reduced and the posture brought back to normal, Dr. Kerr discovered. Diet, properly fitted abdominal belts, and later postural exercises are used in the treatment.—*Science News-Letter*.

Bed Sores

When bed sores threaten, the skin may be hardened with a five per cent solution of silver nitrate in distilled water, or by equal parts of tincture of catechu and solution lead subacetate. When bed sores have already formed spray with a five per cent solution of tannic acid at hourly intervals and dry by an electric drier or exposure to dry heat from electric lights. A tough coagulum forms after about 20 applications at intervals of one hour.—J. M. Love, *Practitioner*, London.

Genuine Products

The pharmaceutical products mentioned in this Journal are Genuine, Reliable and are the best in the world

They have been popular remedies in France, Belgium, Austria, England and other English speaking countries for more than fifty years.

Animal Disease Virus

One of the outstanding events in the progress of medical science reported in the year just past and one of far reaching promise, states the *Science News-Letter*, is that the virus of at least two animal diseases, in addition to those of certain plant diseases, are non-living protein molecules. News and more successful methods of treating and preventing the largely unconquered group of virus caused ailments, to which belong infantile paralysis and encephalitis, may result from the new knowledge of the nature of the causes of these diseases. It has even been suggested that this discovery may give a clue to the secret of life itself, since it gives scientists a chance to study the phenomenon by which non-living matter appears to become endowed with characteristics of living matter.

Pericarditis as an Early Sign of Rheumatic Infection in Children

According to J. B. Wolffe and Victor A. Digilio (J. A. M. A.) childhood rheumatism is associated with a multiplicity of symptoms (e. g., muscle and joint pains, paroxysmal abdominal pains, sore throat, stiff neck, involuntary muscular twitchings resembling tics, pallor, fixation of weight and a persistent lowgrade elevation of temperature).

There is, however, a new physical sign: a murmur over the base of the heart due to basal pericarditis. A plastic exudate occurs at the base of the heart especially in the region of the origin of the great vessels and the groove between the aorta and the pulmonary artery. It is an early sign which portends the development of childhood rheumatism. This murmur or pericardial friction fremitus has the following characteristics.

1. Time. Either systolic or diastolic. It may vary even during a single examination.
2. Character. Friction-like but variable from beat to beat. Often transitory playing hide and seek. It usually persists for years after the arrest of the rheumatic phase.
3. Where heard. Heard best in the region of the second and third intercostal junction on the left side.
4. Transmission. Not transmitted.

Fever and Rash After Sulfanilamide

P. O. Hageman and F. G. Blake (J. A. M. A.) state that in 15 per cent of their cases, fever occurred after the administration of sulfanilamide. It occurred most commonly between the 7th and 10th days but may occur earlier or later (4th to 13th days). Drug fever usually appeared abruptly. Fever may be associated with malaise, itching and tinnitus. Fever usually lasts from 2 to 3 days.

In a few cases the fever was associated with a rash. It usually was a maculo-papular erythema. Other lesions were: hemorrhagic and urticarial-like wheals. The lesions varied in size from 0.3 to 4 cm. The usual locations were: face, trunk and extremities. It is most marked over the buttocks, knees and back where the rash tends to become confluent.

Don't Fight That Tired Feeling; Rest and Relax

Fatigue is something most persons in this strenuous, struggling world resent and fight against. Fatigue should, however, be welcomed as a friend giving a first-class safety warning. The person who feels tired all the time should find out why he is tired and take steps to dispel the cause.

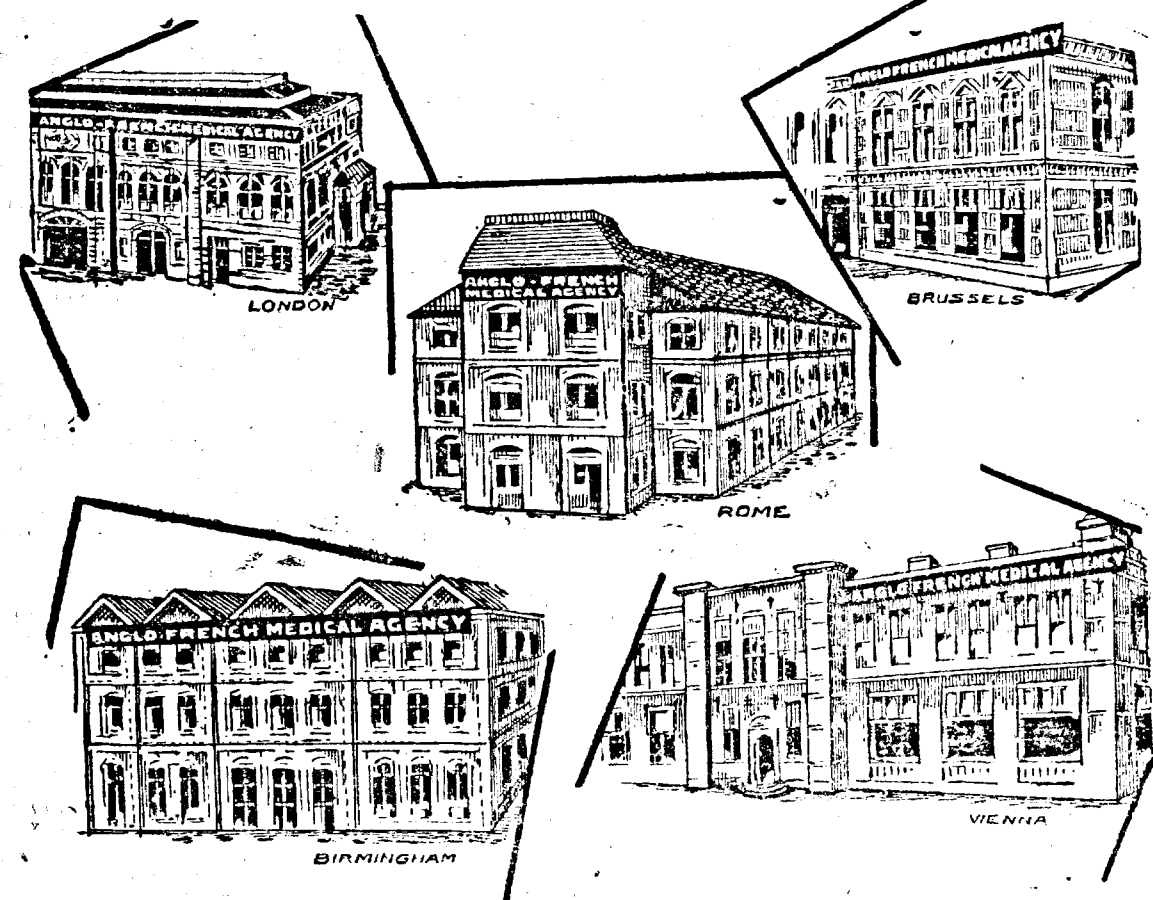
Rest and relaxation are probably called for. Dr. Conrad S. Sommer, medical director of the Illinois Society for Mental Hygiene, says that most of us need to reorganize our lives. Fatigue comes to many people simply because they are trying to do too much—and often for not very good reasons. A yearly vacation, an occasional week-end of relaxation and at least one evening a week of really relaxing recreation are prescribed by Dr. Sommer as antidotes for that tired feeling.

Besides overexertion, either mental or physical, there are a number of other causes of fatigue. The weather may make anyone feel tired. This may range from the not unpleasant lassitude of spring fever to the utter exhaustion experienced on a hot humid day in midsummer.

Not much can be done about the weather, but eyestrain, strain from exposure to continuous noise, weakened arches, poor posture, hernia, and strain or relaxation of muscles, tendons and ligaments that support important body organs are important causes of fatigue that can be remedied. A physician's aid is indicated in these cases.

More subtle reasons for feeling tired are to be found in the field of personal relations. The complex, competitive manner of modern life makes it doubly hard to get along with people. To this strain is often added the stress of internal conflict, than which nothing is more wearing. It is less tiring and better for mental health to recognize the causes of such inner conflict than to try to bury or ignore them.—*Science News-Letter*.

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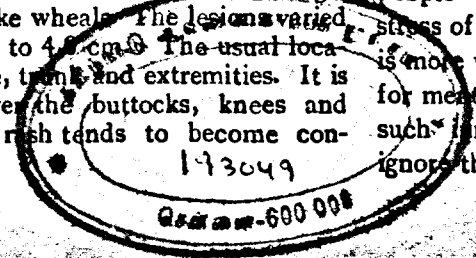
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