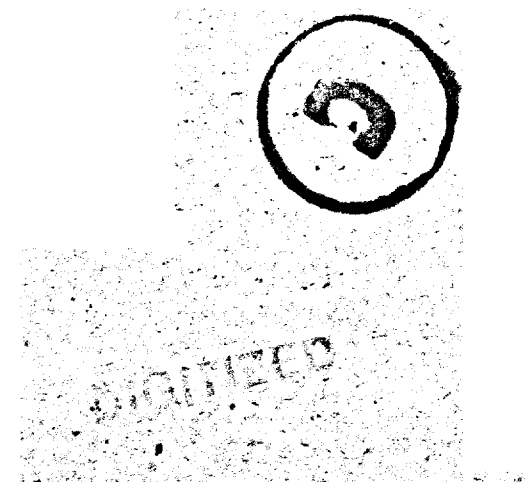


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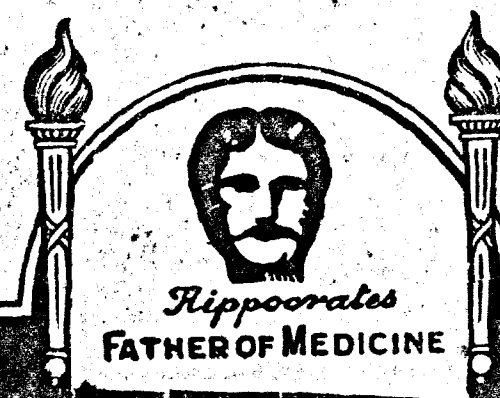
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FOREWORD



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MEDICAL SCIENCE

VOL. 4

JANUARY 1944.

No. 10.

'LIFE-BELTS OF THE AIR'

By Frank W. Lane

The first recorded parachute was made out of two widebrimmed reed hats. These were used to save the life of the Chinese Emperor Shun, who lived four thousand years ago. Finding himself one day trapped on the top of a burning granary he spread out his two hats, which were umbrella-shaped and measured three feet in diameter, and by their aid, floated safely to the ground.

How many other amateur parachute descents were made between the time of this Chinese Emperor and the next record, made about the year 1680, no one can tell. But it is known that Leonardo da Vinci, in the fifteenth century, described and sketched a device which would enable a man "to let himself fall from any great height without danger to himself." Da Vinci himself,

however, is not recorded as putting his invention to the test of experience.

The seventeenth century account of parachuting comes from a most unlikely quarter. It is in a work written by Simon de la Loubere, who was envoy extraordinary from the King of France to the King of Siam in the years 1687 to 1688. Loubere says that at the Siamese Court there was a man who used to leap from a height supporting himself by two umbrellas fixed to his girdle. Evidently this parachutist was a great attraction at the Court for Loubere says, "He so exceedingly diverted the King of Siam that this Prince had made him a great Lord."

France Did Pioneer Work

But it was not until the ballooning craze swept Europe that the really serious work

NOTICE.

Owing to the German occupation of France, our Head Office has been transferred to London.

Through special arrangements by the manufacturers, all French medicines for which we are Agents are now being manufactured by reputable British firms, who have purchased the manufacturing rights for England and the British Empire for the duration of the war.

The Anglo-French Medical Agency (India) Ltd.

WRITE FOR GENERAL CATALOGUE.

on parachutes began. Obviously men who rode the skies in their small baskets suspended beneath a sphere filled with gas had need of a life-belt of the air in case of accident.

Most of the pioneer work on balloonists' parachutes appears to have been done in France. About 1779, Joseph Montgolfier, himself a famous balloonist, constructed a "sort of parasol" which was seven feet in diameter. Suspended from this "fall breaker," as the early parachutes were called, was a basket and in this Montgolfier placed a live sheep and launched the whole apparatus from a tower at Avignon.

A few years later a famous trial with a new type of parachute was made in England. Two men, named Arnold and Appleby, built a parachute which hung from the basket of a balloon. Attached to the parachute was a boat-shaped receptacle for the parachutist.

Don Glassman, in his interesting book, "Jump," gives the following description of what took place when the first trial of this parachute was made.

"The jump was to be made from a height of five thousand feet. Arnold had placed his son in the balloon basket, while Appleby occupied the parachute car. After leaving the ground, the parachute swung against a fence and was held there by the balloon's lift. The parachute was cut away for safety, and Appleby came down at once.

"But the balloon gathered vertical momentum and carried young Arnold away, hanging to the rigging. A large crowd witnessed this ascent, and their distress was acute. Within a few minutes they saw the balloon explode and Arnold fall. The envelope had arched itself into a natural parachute and carried the youth towards the Thames at a safe velocity. He plunged into the water,

followed by the crumpled bag. A passing boat rescued him but he was neither exhausted nor dispirited, since he knocked five men into the river for trying to plunder the damaged balloon."

Unfortunately, not a few of the early pioneers of the parachute died as a result of their determination to put to the test the model "fall breakers" they had made. But it was through their sacrifices that the parachute was gradually improved, although it is only within the past twenty-five years that a descent by parachute has been made reasonably safe.

Cut Loose From A Balloon

The pioneer exponent of free human parachute descents from aircraft was Andre Jacques Garnerin. He was captured during the battle of Marchiennes and imprisoned at Budapest, presumably in a tower or high building, because he planned to escape by parachute. However, before he could put his plan into action he was released. He returned to Paris fired with the idea of descending through the air by means of aerial life-belts.

In 1797, Garnerin made a spectacular descent in a park in Paris. At an altitude of over a mile he cut loose from a balloon, which skyrocketed and burst with a terrific explosion. But Garnerin was quite safe in his home-made parachute, which was umbrella-shaped, twenty-three feet in diameter and made of white canvas or sailcloth.

It was about the time that Garnerin was making his successful exhibition descents, including one over London, that the first man who today would qualify for membership in the Caterpillar Club made his jump. The Caterpillar Club, it will be remembered, consists of those who have saved their lives by jumping with parachutes

from disabled aircraft. Members are presented with a gold caterpillar tie-pin by the Club's founder, Mr. Leslie Irvin.

The man in question was a Pole named Kuparentko. When aloft in his balloon it caught fire and Kuparentko found himself hurtling to earth. Lashing himself to his primitive form of parachute Kuparentko leaped out and managed to land safely.

These early parachutes had one very grave defect. They oscillated so badly that when the parachutists landed they were often violently "sea-sick." It is recorded that a boy remarked to one such parachutist, "Why don't you put a hole in the top?" The advice was followed and it was found that this device considerably reduced the oscillation when the parachute was descending. Even today a small vent is to be found in the top of all parachutes.

Another problem which faced the early experimenters with parachutes was how to get the parachute to open quickly. In some of the early parachutes a pneumatic ring was fitted round the circumference and this could be filled with compressed air at the will of the pilot.

Other parachutes had a series of metal springs and a German parachute was actually reported to be opened by a mild explosive charge.

It is interesting to learn that at one stage in the evolution of the parachute, jumping was an unfailing attraction at circuses, fairs and other public entertainments. Various performers, wearing colourful costumes, made jumps with gaily decorated "fall breakers" and trapeze performances were carried out in which parachutes figured largely.

But for years little serious work was done on improving the practical parachute.

Man was far more eager to get into the air, whether by means of balloons or the first rickety aeroplanes, than he was to have a means of saving his neck should anything go wrong when he was aloft.

Towards the end of the nineteenth century a public-spirited Frenchman, named Col. Lalance, offered a prize of five thousand francs "to the first man who invented a parachute which could be dropped with a dead weight of a hundred kilograms"—about the weight of a heavy man—"from a height not exceeding two hundred metres, and show the slowest rate of descent."

This offer did not bring results, but when Lalance increased his prize offer to ten thousand francs the experimenters became interested and a man named Bonnet made a parachute which descended at the rate of about seven feet per second and deposited its dummy passenger on the ground, right way up, without a scratch.

None In 1914....

But even the outburst of experimental genius occasioned by Lalance's offer did not popularise the parachute to any great extent. In fact it is startling to learn that at the outbreak of the Great War in 1914 none of the belligerent nations equipped their aerial fighters with means of jumping to safety, and not until that war had been going on for a year were parachutes supplied to the occupants of the observation balloons. And it was not until July 1918, that the first authentic record of a parachute jump from an aeroplane by a member of the Allied air forces took place. This jump was made by a French officer, Capt. Serrat, who leaped with a parachute packed into the fuselage of his aeroplane.

After the conclusion of the Great War intensive work was put into making a parachute which was as far as possible fool-proof.

How well this object was achieved may be judged from the fact that whereas in 1924 stunt airmen earned £ 100 per drop, figure later fell to about £ 4. In cold figures the chances against a parachute failing to open are a million to one.

The ordinary "silk umbrella" of today costs about £ 60 and consists of several yards of silken cord and over fifty yards of silk, the latter forming a canopy which has a diameter of over twenty feet. All this can be packed into a container measuring fifteen by three inches. Yet so strong is the modern parachute that it can stand a shock load, composed of the weight of the parachutist's body hurtling from an aeroplane travelling at anything up to four hundred miles an hour, of well over two tons. In practice this load is rarely reached as the jumper is advised to wait until he has slowed down to at least half that speed before pulling the rip-cord.

Parachutes of various sizes are in use today. They range from small 'chutes for dropping messages or food to giant parachutes capable of landing a small aeroplane. In fact this latter feat has been done in America. With a parachute measuring fifty feet a pilot and his aircraft, with a combined weight of eighteen hundred pounds, landed safely in California some years ago.

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 glutted"—

Dr. S. C. Elliott. (Rangoon.)

Everything that contributes to Curative Power is embodied in these Scientific Remedies.

Packed In Containers

Several years after this successful venture two large parachutes were designed to be packed in containers in the upper wing of an aeroplane. An arrangement was fixed in the aircraft by which the pilot could pull a trigger and this shot out a stream of compressed air into two pilot 'chutes which, in turn, pulled out the large parachutes which, at least in theory, were supposed to land the aeroplane safely to earth.

I do not know the size of the largest parachute yet made, but before the present war experiments were being carried out with a parachute having a diameter of eighty-four feet. This 'chute successfully carried a load weighing 1,600 lb. to earth from a height of three thousand feet. When on the ground this parachute was so large that, if the wind caught it, six men were incapable of holding it back.

A number of stunt descents by parachute have taken place in recent years. One man descended by parachute sitting on a horse! Another parachutist shaved himself as he sailed slowly to earth. But the practical value of the parachute may be gauged from the fact that during the years 1920-1940 some three thousand lives were saved by the life-belt of the air.

WHO WAS 'THE MAN IN THE IRON MASK'?

By C. R. Cammell

—:(0):—

No historical figure is more mysterious, nor is there one whose identity has excited more curiosity than that nameless prisoner of the Bastille who has been known for two centuries and a half as the Man in the Iron Mask. The Bastille, the fortress of Paris, was swept away by the furious tide of the French Revolution, and July 14, the day on which, in 1789, its mighty walls were stormed, became thenceforward the national holiday of the French Republic. How many dark secrets were buried in that memorable overthrow! What fearful tales lie entombed beneath the pavements of Paris, where every trace of the vast ruin has been effaced! Of all the secrets interred with the Bastille, that of the Iron Mask has kept a special place in the consciousness of posterity. So strange and baffling a mystery could not be forgotten, and the fate of the veiled unfortunate has never ceased to stir the hearts of men, and to stimulate their inquiries.

Many theories have been advanced in favour of the identification of this or that historic personage with the Man in the Iron Mask, but, though much ingenuity has been exhausted to prove them, they have been found, one and all, to be false, and until recent years no confident verdict as to the masked captive's identity could be reached.

Name Remains A Mystery

Let us examine the principal documents relative to this sinister affair. The diary of an officer named Dujunca, who was at that time the King's Lieutenant at the Bastille, has been preserved. From it we learn that "On Thursday, 18th September, 1698, at three o'clock in the afternoon, M. Saint-Mars, the governor, arrived at the Bastille....from the islands of Sainte-Marguerite and Sainte-Honnat." He brought with him in his own litter a man who had long been a prisoner under his care at Pignerol, and whose name remains a mystery. "This prisoner was always kept masked, and was at first lodged in the Basiniere tower....I conducted him afterwards to the Bertandiere tower, and put him in a room, which, by order of M. de Saint-Mars, I had furnished before his arrival." Later, Dujunca's diary contains an entry regarding the death of the prisoner, who was registered at the Bastille under the name of "M. de Marchiel":—"On Monday, 19th Nov. 1703, the unknown prisoner, who had continually worn a black velvet mask, and whom M. de Saint-Mars had brought with him from the island of Sainte Marguerite, died today at about ten o'clock in the evening, having been yesterday taken slightly ill. He had been a long time in M. de Saint-Mars's

hands, and his illness was exceedingly trifling." He was buried in the parish of St. Paul.

Further information is contained in a letter written by M. de Formanoir, grand-nephew of Saint-Mars:—"In 1698 M. de Saint-Mars exchanged the governorship of the islands for that of the Bastille. When he set off to enter on his new office he stayed with his prisoner for a short time at Palteau, his estate. The Mask arrived in a litter which preceded that of M. de Saint-Mars; they were accompanied by several men on horseback. The peasants went out to meet their seigneur. M. de Saint-Mars took his meals with his prisoner, who sat with his back towards the windows of the room, which looked into the courtyard. The peasants of whom I made enquiry could not see if he had his mask on when eating; but they observed that M. de Saint-Mars, who sat opposite to him at table, had a pair of pistols beside his plate. They were attended by a single valet only, Antoine Ru, who took away the dishes set before him into an antechamber, having first carefully shut the door of the dining-room. When the prisoner crossed the courtyard a black mask was always on his face."

Voltaire, in "Le Siècle de Louis XIV," published in 1751, corroborates these statements and adds further particulars. The prisoner was young, of a stature above the ordinary, and of a noble figure. On the journey from Pignerol to Sainte-Marguerite he wore a mask of iron, the beaver of which had

steel springs, so that the wearer might eat without removing it. The order was to kill him if he should uncover his face. Voltaire dwells on the respect always observed towards the captive. "The Marquis de Louvois went to see him in the island before he was taken thence, and spoke to him standing."

Taste For Fine Linen

He was lodged in the Bastille with all the comforts which the castle afforded, was provided with delicate food, and was refused nothing for which he asked. The governor rarely seated himself in his presence. The prisoner played the guitar, and "his greatest pleasure was his taste for linen of extraordinary fineness and for laces."

An old physician of the Bastille who had attended him in times of illness, declared that, though he had examined his tongue and the rest of his body, he had never seen his face; he was admirably well made, his skin rather dark, the tone of his voice interesting. "He never complained of his condition nor gave any indication of whom he might be."

The following incident occurred while he was at Sainte-Marguerite: Having written with a knife on a silver plate, he threw it from the window towards a boat which was by the shore at the foot of the tower in which he was lodged. The fisherman to whom the boat belonged picked up the plate and took it to the governor who asked him in astonishment: "Have you read what is written on this plate, and has anyone seen it since it was in your hands?" "I

cannot read," replied the fisherman. "I have just found it; no one has seen it." This man was kept in custody until the governor had assured himself that he had never been able to read, and that the plate had been seen by no one else. "Go," said he to the fisherman, "you are very lucky not to be able to read." Voltaire concludes: "There yet remain many of my contemporaries who bear solemn witness to the truth of what I advance, and I know of no fact which is either more extraordinary or better proved."

This story gave rise to fantastic speculations. According to one theory the Mask was none other than a natural son, born in 1626, of the beautiful Anne of Austria, wife of Louis XIII, and of that magnificent Englishman, George Villiers, Duke of Buckingham, who was ambassador to Paris in 1625. This is certainly false. So is the assertion in the 1790 edition of the "Memoirs of Cardinal Richelieu" that the captive was a legitimate twin brother of Louis XIV, "put out of the way by the great Cardinal to avoid the ills of a disputed succession," a story adopted by the elder Alexandre Dumas, and which, through the popularity of his romance "Le Vicomte de Bragelonne" (a sequel to "The Three Musketeers") became the generally accepted solution of the mystery.

More fantastic still are the theories that the prisoner was the English Duke of Monmouth who was beheaded after the battle of Sedgemoor, in 1685; that he was the Armenian Patriarch, Avedick, whose imprisonment dated only from 1706; that he was the Comte de Vermandois, a natural son of Louis XIV; or the famous Duc de Beaufort; or a son of Oliver Cromwell. Yet all these theories have been seriously advanced! Voltaire's suggestion that he was the

fallen minister Fouquet is equally impossible, and Andrew Lang's suggestion that he was of humble origin, but possessed of dangerous information, may be dismissed in view of the deference always paid to the captive.

Mystery Has Been Solved

One theory remains; and a publication of recent date supports it in such a way as to leave little doubt that the mystery has at last been solved.

In 1770 it was first asserted that the Man in the Iron Mask was in fact a diplomatic agent of the Duke of Mantua, an Italian potentate of great wealth and influence. This theory was supported by several distinguished scholars. The evidence was, however, incomplete.

About 1935, a slender volume was published by Sequana, Ltd., London, entitled "Intercepted Correspondence," a book which, although of great historical importance, attracted little attention. It is a translation by Leonora Countess of Tankerville of an extremely rare French book, "Correspondence Interceptée," printed in Paris in 1788.

The volume contains a series of letters exchanged, from 1782-8, between the Chevalier de B... and the Marquis de L... The Chevalier is travelling abroad—in Italy, Switzerland, Austria and he communicates his adventures to the Marquis in Paris, who in turn keeps his friend informed of what is passing in the Capital. Lady Tankerville succeeded in discovering the identity of the correspondents. The "Chevalier de B." is a very distinguished person, the Chevalier de Boufflers, poet, novelist, soldier, explorer, politician, which explains his easy entree into foreign courts. It is a curious

(Contd. on page 9)

18th CENTURY PROPHECY



The time will come, when thou shalt lift
thine eyes
To watch a long-drawn battle in the skies,
While aged peasants, too amazed for words,
Stare at the flying fleets of wond'rous birds.
England, so long the mistress of the sea,
Where winds and waves confess her
sovereignty,
Her ancient triumphs yet on high shall
bear,
And reign, the sovereign of the conquered
air.

(Translated from Gray's 'Luna Habitabilis',
Cambridge 1737)

Make it come true! Over two hundred years ago this remarkable vision of the war in the air was written down in Latin verse by the great English poet who composed the famous 'Elegy'. To make Great Britain 'Sovereign of the conquered air' is now our task. There is no time to 'stare at the flying fleets,' we must exert all our energies to increase them. Everyone must help. You can help with money.

Send a donation now to the Governor's War Fund for the purchase of Planes for the R.A.F. Every anna counts!

BRITISH EMPIRE—Immense influence for good.

Cured By Machinery! And a man who breathed artificially for two years!

Hundreds of apparently drowned people have been brought back to life by the first-aid methods taught to all ambulance pupils. Administering this kind of aid is, however, decidedly hard work, as anyone knows who has tried it for even ten minutes on end. Now a machine has been devised which does the work.

The patient is put to bed inside an airtight metal tank, his head projecting at one end through a closely fitting rubber collar. An electrically controlled pump attached to the tank works rhythmically, expanding and contracting the chest as in ordinary breathing.

A tank of very much the same kind is employed to save the lives of newly born babies suffering from asphyxia. In one case an infant did not begin to breathe naturally until it had been in the tank for a whole hour.

A man has actually been kept alive for more than two years by an artificial breathing machine. He suffered from a curious weakening of the chest muscles, so that breathing became more and more difficult until it began to cease altogether. The great chemist, Sir William Bragg, suggested a mechanical device, and a small hydraulic machine was devised which pumped air into a rubber bag fixed on the man's chest.

In 1933 Dr. Frank Eve, consulting physician to the Hull Royal Infirmary, rocked back to life a three-year-old child whose heart had almost ceased beating. He and others rocked her continually for two days and two nights, until her heart-beats became normal. Now Dr. Eve has produced a mechanical rocking machine.

The latest invention of the kind is a "fever machine" invented by a French doctor. The patient is wrapped in blankets on either side and a powerful high-frequency current is passed through his body. The result is to cause tremendous perspiration, but without any of the discomfort of ordinary methods.

fact that the "Correspondence Interceptee" was unknown to any of his biographers! The "Marquis de L." is the Chevalier's first-cousin, the Marquis de Levis-Mirepoix.

The Chevalier, whose account of his researches into the mystery of the Mask was sent to his cousin from Pisa, March 15, 1783, affirms that the Duc de Choiseul told him repeatedly that Louis XV had himself informed him that 'he (the King) was in possession of the truth concerning the story of the Man in the Iron Mask.' The Duke had "pressed the subject as far as he dared, even begging his Majesty to reveal it to him; but the King would never say anything more, except that of all the conjectures hitherto made thereon not one was true." Shortly afterwards, Mme. de Pompadour, having pressed the King on the subject, was told that the Man was the Minister of an Italian Prince.

Greatly Dreaded Person

Pursuing investigations from this point, the Chevalier discovered that in 1685, the Duke of Mantua sent his Prime Minister, a man of great subtlety, to the various Italian Potentates, inviting them to form a league against France. After persuading all the other powers to his views, he went last to the Duke of Savoy. The projected league must have constituted a very serious threat to France, and the Mantuan minister have been a person greatly dreaded by that country for his skill in negotiations; for the Cabinet of Versailles, being informed of his activities, sent instructions to the French Ambassador at Turin, the Marquis d'Arcy, who entered into friendly relations with him, sending him numerous invitations, "among others one to a hunting party which took them towards Pignerol, a town then belonging to France." Once on French territory, the minister of

Mantua was ambushed and kidnapped. He was taken from Pignerol to the Isle of Sainte-Marguerite where he remained in the custody of M. de Saint-Mars, until that officer removed him to the Bastille. Vehement complaints made by the Duke of Mantua on account of his envoy's disappearance were met by "a positive denial, so as not to set against the Cabinet of Versailles all the sovereigns whose prerogatives and dignity were, so to speak, assailed by so flagrant a violation of the rights of man." The Chevalier also learned from the Marquis de Castellane, then Governor of Sainte-Marguerite, that the gaolers there had been led to believe that the Masked Man had died at Sainte-Marguerite at the time when Saint-Mars had actually taken him to the Bastille.

Discrepancy In Names

There is only one discrepancy: the earlier incomplete account of the Mantuan envoy gave his name as Ercole Mattioli; Boufflers "heard by letter from Mantua that the name of the Secretary of State of the Duke of Mantua in 1685 was Count Girolamo Magni"; but whatever his name, a comparison of the narratives leaves little doubt of the truth of the Chevalier's assertion that "there never has been, and never could be, an historical event established with more evidence than this:—that the 'Iron Mask' was the Minister of the Duke of Mantua, kidnapped at the Court of Turin in the manner that I have just described."

The sanctity of an ambassador's person explains the extraordinary precautions employed to disguise the prisoner's identity, and the respect with which he was treated; also the reason for his not being killed and thus finally disposed of; for the enormity of the French Government's crime in laying hands on a foreign plenipotentiary was already sufficient, even for the conscience of Louis XIV. We would appear to have reached an elucidation of one of History's darkest secrets.

ROAD MAKERS OF SCIENCE



Lord Lister.
Discovery of the anti-septic system of surgery.



Dr. William Harvey.
Discovery of the circulation of the blood.



Dr. Edward Jenner.
Discovery of the vaccination method of combating small-pox.



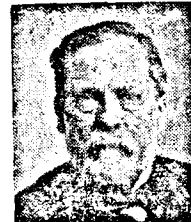
Sir James Simpson.
Discovery of Chloroform. Thus made possible painless operations.



Dr. Semmelweis.
Discovery of the cause and prevention of Puerperal Fever in pregnant women and thereby saved millions of lives.



Dr. Eijkman.
Discovery of the cause and cure of Beri-Beri.



Dr. Louis Pasteur.
Discovery of preventive treatment for Rabies, Anthrax, etc.

With an Idea and Determination... HE REVOLUTIONISED MEDICINE!



Prof. BROWN-SEQUARD, making his great discovery.

In 1889 Professor Charles Edouard Brown-Sequard, the famous scientist, made his epoch-making discovery, when he administered to himself glandular extract in his laboratory in Paris. To the amazement of himself and other physicians, the experiment proved a great success and a new chapter was opened in the modern book of therapeutics.

His life was a great one....most of it spent in a littered laboratory conducting ceaseless experiments. Never did a man work so hard—and succeed so brilliantly!

Professor Brown-Sequard's discovery is mentioned in authoritative medical books on the subject.

The harnessing of physical and chemical forces, which has produced our modern rapidity of travel and communication; steam, electric power, telegraphy, and the conquest of the air, affect our lives profoundly. And yet it may well be that biological knowledge and its many applications to the control and cure of disease and, above all, its elimination and prevention, have done far more to lighten the burden under which mankind struggles and to raise the level of civilization.

The great progress of medical science and the rapid strides it has made in the last hundred years have saved countless lives, prolonged and alleviated many others, and given us all a better chance of expanding what personal talents we have and of making the best of our time.

Humanity is beginning to see how to live.

All this is due to those men—Road Makers of Science—who have elucidated for us the immutable laws which underlie our functions. By no means the least of these was the immortal discoverer of Gland Therapy—Prof. Brown-Sequard, the famous French Scientist, for it is not difficult to see how he provided a sure basis on which modern science could build with confidence and success.

Although many lives have passed in the contemplation of Nature, attempting with infinite patience to solve the problems which she presents in such profusion, few philosophers have succeeded in making such a fundamental and far-reaching discovery as that of the function of the human glands.

It is not too much to say that enunciation of this principle revolutionised medicine and set it firmly upon a rational footing. So much was made clear and so many vistas were opened that it would seem that this conception was a lever powerful enough to set in motion those trains of scientific experiment and research which have brought us to our present state of knowledge and, still gathering speed and power, lead us confidently to hope for yet wider and deeper understanding of natural laws, in particular those which govern the great mystery of Life itself.

Gland Therapy is no myth. Some of the highest medical authorities in Europe and America believe in the curative efficacy of gland treatment for sexual weakness and other ailments.

* *Life in Lapland—by one who has just returned from there.*

Jonas the Wolf-Hunter

By Frank Illingworth

It had been a long journey—thirty-six hours by boat, nearly a day and a half by express train up the spine of Sweden, seven hours by bus. And now I stood in Karasundo, roughly two hundred miles north of the Circle in Arctic Lapland, awaiting the arrival of Jonas-the-wolf-hunter with his two reindeer sleighs. It was cold, and despite the early hour almost dark.

Jonas was a typical Karasundo Lapp... a thick-set little man of about five feet four inches with the high cheek bones, broad forehead, and slanting eyes of the Mongol. A wide belt, from which hung a wooden cup and spoon and a knife, gathered in his coat at the waist; his trousers tapered to the ankles and disappeared within grass-lined boots; and as he greeted me with a bow, the crimson pom-pom atop his cap flopped over the other ear. He was to be my host, and I took an instant liking to him. I was welcome, but to be a social success I must know a little of Lappish etiquette.

I had learnt in southern Lapland that the Lapp's tent is his castle. By all means the traveller may enter uninvited, for to lack shelter in the Arctic winter is to risk frostbite and death itself; but he must not step across the two logs placed at an angle to each other just inside the entrance, for they mark the extent of the Lapp's "hall."

After a very long drive the pulkas (sledges) drew up amid a shower of snow by Jonas's conically shaped tent. Jonas's wife was busy. As I entered, she pushed aside a pile of boot-grass drying by the fire; stretched towards the crib hanging from the side of the tent her head. Within lay the youngest Jonas child, bound up like a mummy. No wonder, I thought, so many Lapp infants suffocate in their cribs. Mrs. Jonas breast-fed the child without removing it from the crib (by the simple expedient of holding

the crib against herself!) before placing the baby, satisfied and warm, over her head. Then she turned to other wifely duties; there was the fire to be fed, coffee to be brewed, a huge pile of priceless furs to be tidied, dogs to be kicked out of the way.

Life in Lapland revolves round the care of the reindeer. The animals provide the Lapps with clothing, bedding, thread; with a method of transport across a wicked tundra practically bare of roads; with bone from which to make implements; with a means of purchasing a wife; and, above all, with food and milk... though it is in comparatively recent times that the Lapp learnt to milk his reindeer. Without his reindeer the Lapp would assuredly perish. So it is that as the herds move from the mountains in the summer to the frozen marshes and forests in the winter, the Lapp must root up his tent and follow them. Day in day out the Lapp tends his reindeer; his wife cures the reindeer meat and pelts; his dogs protect them from the ravages of the wolf. It is not surprising, therefore, that, as the guardian of his herds, the Lapp should love his dogs.

In all seriousness I was told that centuries ago, in the days before animals lost the power to converse freely with Man, a Lapp dog watched a Lapp trying to round up his herd. Being hungry, the animal offered his help.

"Would you but make me three promises," said the dog, "I and my friends will serve you faithfully for ever, protecting your herds from the cruel wolf,"

"What, dog," queried the Lapp, "are those three promises?"

"That you feed us once a day, that you never beat us when we are tired, that you hang us when too old to work."

(Contd. on page 11)

REMEDIES OF PROVED RELIABILITY.

Eugene Sargisson's Corn Solvent.
A positive Cure.
Per vial Rs. 2-8-0.

Shaw's Worm Lozenges
Effective for dislodging round and thread worms from the intestines.
1 box Rs. 2-8-0. 3 boxes Rs. 7-0-0.

Dr. Macdonald's Permanent Leucoderma Cure.
This Ointment is guaranteed to cure Leucoderma completely and permanently. Rs. 3-8-0 per pot. Three pots Rs. 9-8-0.

Dr. Scott's AGUE KILLER.
This remedy is very effective in all cases of Ague.
Rs. 3-8-0 per bot. Three bots. Rs. 9-8-0. S x bots. Rs. 18-0-0.

QUININE SULPHATE Compound.
Invaluable for the prevention and cure of all fevers. 5 gr. Sugar-coated tablets. 50 in each bottle. Made by A. H. Cox & Co., Ltd., Brighton England. 1 bot. Rs. 3-8-0.

Pure Saccharine Powder.
Boots or Monsanto. 1 lb tin nett. Price on application, due to market fluctuation. Saccharine Tablets. 1/2 gr. 100 each bot. Price Rs. 3-8-0 per bot.

Note.—Any products can be supplied from our large stock. WRITE TO US for anything medical.

GOLDEN Eye Ointment.
Per pot. Rs. 2-8-0.

TOUCH and GO Toothache Solution.
Per vial Re. 1-0-0.

BRONCHIAL LOZENGES (Extra Strong.)
For coughs, colds, inflamed throat, and to relieve all lung troubles. 40 in each tin. Per tin Rs. 2-8-0. 3 tins Rs. 7-0-0.

Bayonne No. 1 and 2. for all Uterine disorders, i. e. Leucorrhœa (Whites) pains in the womb, painful, profuse, scanty or suppressed menstruation, etc. Comprises Bayonne No. 1. (Elixer for internal use) and Bayonne No. 2. (Injection).
Prices: 1 bot. Bayonne No. 1. (Elixer) Rs. 5-8-0.
1 bot. Bayonne No. 2. (Injection) Rs. 5-8-0.
3 bots. of each Rs. 28-0-0.
6 bots. of each Rs. 55-0-0.

SALONA Haemoglobin Compound.
The best remedy for all forms of Anaemia. Made in England. Approved by London Board of Health. Used by St. Mary's, Queen Charlotte's and Guy's Hospitals. (Capsule form) 24 capsules per bot. Per bot. Rs. 4-8. 3 bots. Rs. 12.

Marienbad Anti-Obesity Tablets.
Guaranteed to remove superfluous fat quickly and safely. Does not weaken the heart. Sold in tins containing 60 tablets. Per tin Rs. 3-8. 3 tins Rs. 10.

"Uranol" Backache, Kidney and Bladder Pills.
Cures Kidney affections and bladder weakness. Removes stone in the bladder, etc. Per bot. Rs. 3-8. 3 bots. Rs. 10.

Chapelles Liver Tablets.
Cures all liver affections, enlarged liver, etc. Try a bottle and note the results. Per bot. Rs. 3-8. 3 bots. Rs. 10.

Chaulmoogra Oil Capsules 10 minims. Made by A. H. Cox & Co; Ltd, England. Rs. 3-14-0 per 100.

Mr. ——— ".....I find your remedies much better than the others....."

Mr. ——— ".....I tried almost every remedy without any permanent benefit. It was in rather a sceptical frame of mind that I decided to give your preparation **ENDOPHON** a trial. I am glad to say that it has cured me permanently. The Whooping Cough Remedy that I bought last month for my youngest child has also proved effective. His cough has entirely disappeared. You have my permission to publish this testimonial in a confidential way....."

REEVE'S HAIR RESTORER
Safe and 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 bottle Rs. 4-8. 3 bottles Rs. 12. 6 bottles Rs. 22.

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. 3-8. 3 bottles Rs. 9. 6 bottles Rs. 17.

Sole Agents:—THE ANGLO-FRENCH MEDICAL AGENCY, (INDIA) LTD.,
Post Box No. 148, Broadway, Madras.

"SIROLIN" syrup for coughs, chest and lungs.
Price Rs. 4-8-0 for 8 oz. bot.

Anti-Malarial Tablets.
Guaranteed to cure Malaria safely and permanently. Better than ordinary Quinine.
Per bot. Rs. 3-8. 3 bots. Rs. 10.

"DONALIN" The Tonic-Food Specific.
For Debility, Faintness, Hysteria Weakness, Exhaustion, Worry, Loss of Appetite, Brain-Fag, etc. Made in England to the formula of Dr. A. L. De Ravignac. Approved by Doctors.
Prices: 1 bot. Rs. 7-8.
3 bots. Rs. 21. 6 bots. Rs. 40.

Pure Halibut Liver Oil Capsules with Calcium Phosphates.
Each capsule contains 2½ minims of Pure Halibut Liver Oil with 2 grains of Calcium Phosphate. Equal to 32,000 units Vitamin A and 2,000 units Vitamin D per gramme. Invaluable for children. T. B., excessive thinness, malnutrition, etc. Made in England. Tins of 24 capsules.
Per tin Rs. 3-8. 3 tins Rs. 10.

Extracts from some of the hundreds of letters of appreciation received.
Mr. ——— ".....The La Roche treatment is very good. I used only seven bottles and it cured me perfectly. I tried other preparations without success. They are not a patch on your preparations. I shall gladly recommend your splendid Agency and genuine remedies to my friends....."

THE CHOICE OF THE EXPERT



PANCRE-VITE

THE ORAL INSULIN COMPOUND
FOR DIABETES

MANY IMITATIONS - BUT NO EQUAL

Diabetes, a dread disease, was formerly considered to be incurable. But it can now be cured with Pancre-Vite, the New Scientific Oral Insulin Remedy.

Pancre-Vite is a powerful remedy for Diabetes. It is a combination of all the active derivatives of the pancreas which control carbohydrate metabolism together with the specific proteins necessary for regeneration of the pancreatic tissues.

Chronic cases have been successfully treated by the oral administration of Pancre-Vite. It lowers sugar to normal. Aids digestion—increases weight and strength—positively makes the patient fit and healthy, as no other remedy can.

Pancre-Vite is the rational and most effective remedy for Diabetes, as it is prepared to the formula of Dr. Armand Grimard the eminent Diabetes Specialist.



Dr. Armand Grimard
Diabetes Specialist.

Try Pancre-Vite NOW and rid yourself of Diabetes forever!

MANY IMITATIONS but NONE EQUAL to PANCRE-VITE!

Insulin is not curative, but only has transient effects, besides the necessity for daily injections are extremely inconvenient and tend to become tiresome.



Pancre-Vite is the best Oral Insulin Remedy, convenient to use and very effective. Its powerful curative action strengthens and develops the pancreas which control the several phases of diabetic pathology.

Pancre-Vite easily supersedes Insulin as a specific for diabetes, as it contains the active derivatives of the pancreas with other substances necessary for the complete regeneration of the pancreatic tissues. Furthermore, it is prepared in Capsule form—specially hardened—to insure the passage through the stomach for immediate absorption in the intestine, with maximum curative efficacy.

This effective action cannot be obtained with preparations made in tablet or liquid form.

Prices: 1 bot. Rs. 7-8-0 3 bots. Rs. 21-0-0 6 bots. Rs. 40-0-0

Tel. Code. 3 bots. "Pan" 6 bots. "Panning"

AFMA products are 100% GENUINE—and recognised by the Medical Profession.

THE CHOICE OF THE EXPERT

READ WHAT CURED PATIENTS SAY.

These are a few of the many hundreds of testimonials Received during the past five years; which are genuine and unsolicited.

WONDERFUL CHANGE

Mr. A. F. Webb. "Palm Court" Ground Floor. Churchgate Reclamation. Bombay. ".....I was tired of having Insulin injections daily. My doctor advised me to take by mouth Pancre-Vite. I followed his advice and am glad to say that the course of treatment effected a wonderful change in my condition. I have never felt so fit as I do now, since I got diabetes. There is no sign whatever of the disease....."

Completely Cured.

Mrs. S. T. Davis. 8, St. George's Gate Rd. Hastings. Calcutta. ".....I suffered for over five years with diabetes. It robbed me of energy and vitality. The digestive organs were also impaired, so my food seemed tasteless and like lead in my stomach. I passed a dreary existence. Pancre-Vite was the only remedy that helped me. I began taking it in January and when the warm weather came I was completely cured, felt like a new woman, full of life and hope.

Words cannot tell how pleased I am to have my health back. I have a keen appetite and enjoy my meals; digestion is perfect. All symptoms of diabetes have left me. I have gained twenty-six pounds in weight and feel in harmony with all the world because I am now perfectly well....."

Cured Thoroughly.

Mr. V. Thompson. 151, Keighley St. Rangoon. Burma. ".....I cannot fully express the thanks I owe for your Pancre-Vite. I have suffered from diabetes for so long that I did not think there was any cure for it as I had tried everything that was recommended to me. Finally, I gave Pancre-Vite a trial and to my delight it cured me thoroughly. There is no trace of sugar, and my weight and strength is much increased....."

Extracts from Commendatory Letters received from the Medical Profession. Most Valuable Remedy.

Dr. A. F. De. Ravnac. (Paris). writes:—".....Pancre-Vite was first called to my attention by a patient of mine. The man in question, Monsieur Gabriel Coulondre, told me that no other medicine did him so much good as Pancre-Vite, and after studying his case, I advised him to keep on taking it. He was suffering from chronic diabetes and told me that the disease was of twelve years standing. Monsieur Coulondre was perfectly cured after five months treatment.



Dr. De. Ravnac

I became fully convinced of the great value of Pancre-Vite after observing its beneficial results in a number of other cases. From the experience of a practice stretching over twenty years, I have no hesitation in stating that Pancre-Vite is a most valuable remedy for diabetes. I prescribe it myself now and shall be glad to add my endorsement to that of my brother physicians who are commending it....."

Positive and Permanent Cure.

Dr. R. C. Duhamel. (Paris). writes:—".....I treated a diabetic patient last year with Pancre-Vite. The first six bottles did not give any perceptible improvement and my patient became disheartened and wanted to stop the treatment. I advised him to complete the course, pointing out that even the best medicines are slow to give improvement in certain cases, and he followed my advice with excellent results. After twelve bottles had been taken, the sugar began to diminish and weight had increased by 5 lbs. At the end of the course no sugar could be detected, even by analysis, and his weight is now 10 st. 8 lbs. perfectly normal for his height.



Dr. Duhamel

To make sure that there would be no recurrence of the disease, I advised my patient to take the treatment for a month longer than the prescribed course. At the time of writing this letter, it is six months since the treatment was stopped and there is no trace whatever of sugar or any other symptom.

Unhesitatingly I endorse Pancre-Vite as a positive and permanent cure for Diabetes....."

AFMA products are the Choice of our Expert, Dr. J. F. De Vaux, and are the BEST in the World.

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.

"Britannia Rules . . ."

While the captured German fleet lay in Scapa Flow, an English quartermaster was posted on each vessel. To one of these, leaning over the taffrail came a German quartermaster.

"I sinks nosing of your ships," quoth he. The Englishman did not reply. "And I sinks nosing of your officers, your Jellicoes, your Beattys . . ." Overcome by his feelings, the German spat over the rail. Whereupon the Englishman turned and said calmly:

"Now! Look'ere. I dont care wot you thinks about our ships, our sailors, and our officers. But don't you go spittin' into our sea!"

- The English sailor has a preference for rum
- The American tar likes rye
- But the Italians stick to port.

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

Twelve Thousand Miles of Blood Vessels!

Your body contains, according to latest scientific computation, twelve thousand miles of blood vessels. Think of that, 12,000 miles! *Sufficient to stretch half-way round the world.* This wonderful pipeline of the blood consists of arteries, capillaries and veins communicating with that marvellous pumping station, the heart. By means of this vital pipe-line, the blood is carried to every one of the millions upon millions of the cells of the body, to nourish; to cleanse; and to renew. In all diseased conditions, no matter what the ailment may be, the blood stream is at fault, and no treatment can give lasting results if this all-important fact is overlooked. Keep the blood free-running, like a deep, fast-flowing river, enrich it with the necessary elements for cell building, and remove all toxic and acid waste materials, and health MUST result. This is precisely what **Galaxin the Great Blood Cleanser** is designed to do; it is actually what **Galaxin** does, surely and effectively. **Galaxin** Cures through the blood, unhampered, irresistibly!

SYPHILIS—PUBLIC ENEMY NO. 1.

Its origin, symptoms, tests, consequences and cure.

By a Doctor.

The pretty picture below is a microscopic portrait of a little creature whose name is *Spirochaeta Pallida* . . . or *Spirochete*, or *Syphilis* . . .



The Spirochete is a destructive medium with power beyond the wildest dreams of the most visionary munitions magnate. It has a kick like an express train; if it connects with your grandfather, your little daughter's teeth may drop out from the vibrations; it can cause anything from bright's disease to insanity in its victim; and today there are millions of cases all over the world.

Just in case the above seems vague, let me point out the relation of syphilis to other disease on a comparative basis as to prevalence—there is annually twice as much Syphilis as Scarlet Fever; 13 times as much as Typhoid Fever; and 1½ times

as much as Tuberculosis . . . There is no disease on earth, except Leprosy, so transmittable, so dreadful, so loathsome as Syphilis. This terrible disease, unless scientifically treated, rapidly effects its dire ravages, permeating the very brain, nerves and muscles, even the marrow of the bones, and exhausting the vitality of the most robust constitution.

Although, many barriers have broken down, Syphilis is still an unmentionable in most homes. This, in spite of the

1492	Columbus and his men contract Syphilis in the West Indies	1496	The French Legislate against Syphilis
1494	Spanish army goes to defend Naples against the French	1496	Mandate of Maximilian Syphilis called "Evil Pocks" (Thought to be punishment for sin)
1495	French enter Naples, celebrate victory and contract Syphilis	1497	Aberdeen, Scotland legislates against Syphilis
1496	French army, homeward bound carries Syphilis up through Europe	1767	John Hunter believes Syphilis and Gonorrhea to be the same thing
1496	Syphilis breaks out in Germany	1837	Ricord proves Hunter to be wrong
1496	Syphilis spreads to Switzerland	1879	Neisser discovers specific vegetable organism causing Gonorrhea
1497	Paris rife with Syphilis	1903	Metchnikoff and Roux inoculate apes with Syphilis
1498	Vasco da Gama sails around the Cape of Good Hope and Syphilis spreads to India	1905	Hoffmann and Schaudinn discover germ which they call <i>Spirochaeta Pallida</i> (Spirochete)
1501	Epidemic of Syphilis in the Orient	1907	Wassermann inaugurates Blood Test for Syphilis
1940	Millions of known cases of Syphilis all over the world	1910	Ehrlich discovers Salvarsan
		1936	Sadalan discovers oral treatment which he called after his name
		1940	NEO SADALAN The new & improved formula of Dr. Pierre De Sadalan that clinches the fight even in longstanding cases. Syphilis Can be Cured!



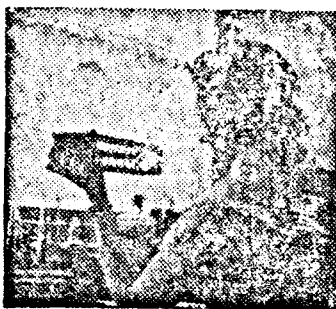
In the Wassermann test the blood is placed in a test tube instead of being prepared on a slide. After it is in the test tube an antigen is added to the blood. The test tube is then placed into a refrigerator, where it is left overnight.



In the morning another reagent is added.



And the test tube is then immersed in a warm water bath.



It is only after these steps that the colour change (dark & clear is negative... light & cloudy shows infection) may be observed.

fact that on an average every family of seven contains at least one infected person. And what's more shocking is the fact that in a survey of a representative group of men and women it was discovered that four out of five of them could be infected and, so far as a knowledge of the symptoms goes, they wouldn't know it! There in a nutshell you have the purpose of this article.

Syphilis has a past; it has a present; and it has a future which is being built up at the rate of hundreds of thousands of cases yearly. All this when there is a cure! 86 % of primary cases can be cured, and in secondary cases the rate of cures with the chemical oral treatment,—Neo Sadalan, is 81 %. This is the best treatment for all cases of Syphilis and absolutely safe to use. It is guaranteed to effect a thorough and permanent cure.

The safety of society demands that every patient suffering with syphilis should be required to continue the treatment until the disease is arrested or cured. Without energetic treatment with Neo Sadalan, the patient with Syphilis may expect to become progressively worse until he is utterly incapacitated and fatally affected. He should not think of stopping the treatment until repeated blood tests indicate that the disease is probably cured or at least definitely arrested. Even after such a supposed cure, he should take blood tests at intervals and should be on the alert for the first signs of recurrence. He should not consider marriage unless he is advised by competent medical authorities that it is probably safe. In the event of pregnancy supposedly cured women should take another course of treatment in order that she may with certainty protect the child.

Symptoms And Stages.

From ten to forty-six but generally twenty four days from the entry of the germs into the body, there appears on the affected part a small red pimple. It goes on increasing slowly and within a week becomes watery vesicle with inflamed base. The vesicle bursts and leaves a sore with a hard margin elevated edges, and depressed centre. The sore is painless and there is a very small amount of watery discharge from it. This sore is called a hard chancre and it indicates the locality where the virus was first introduced. Generally the sores are situated on the genitals but they have been observed on every part of the body. In the males, if the infection takes place at the genital region, the sores appear on the glans penis or under the foreskin or just on the opening of the urinary passage. A week after the appearance of the sore on the penis the lymphatic glands swell up. They are hard with no pus or pain. This is the *primary stage* of syphilis.

SECONDARY SYPHILIS:—On average, secondary symptoms appear in about six weeks, but they may appear months later. The patient feels restless, dispirited, and weak in body. More often than not, he suffers from rheumatic pains, particularly in the skin bones and the region of ankles. Scaly eruptions of a light red colour appear on the body and there is acute sore throat with ulcers on the tongue or mouth. The mucous membrane of the nasal passages also gets affected and there is foul discharge from the nose. Eye troubles, too, are not uncommon. The above symptoms are all due to the dissemination of the organism in the blood.

TERTIARY SYPHILIS is a disease of the bones and general diffusion of the poison through the system. It manifests itself in the inflammation of different glands of the body with severe pains in the bones.

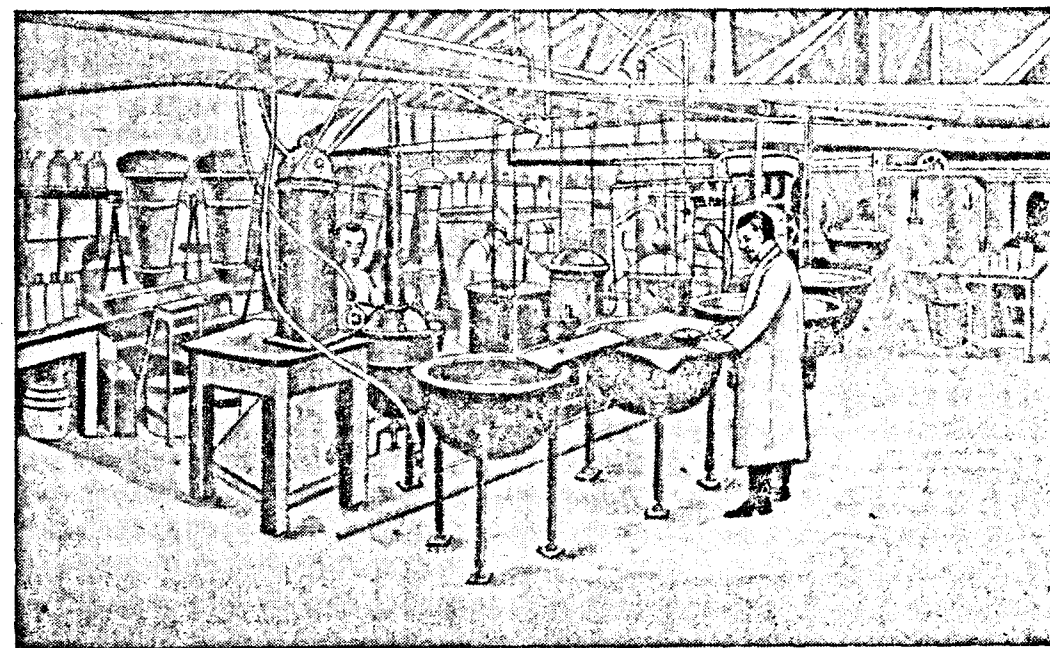
The reason for this article is to show that there is hope; that there is a cure; that Syphilis is no longer an unknown assailant. It is a marauder whose habits and weaknesses are known to the extent that where he is found, he can be stamped out...annihilated...by Neo Sadalan

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

gist; but, whoever or whatever he is, he must see the necessity of applying scientifically-established facts to human needs.



Chemists at work at the Bergeret Laboratories.

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 bacteriolo-

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 Leclerc'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.

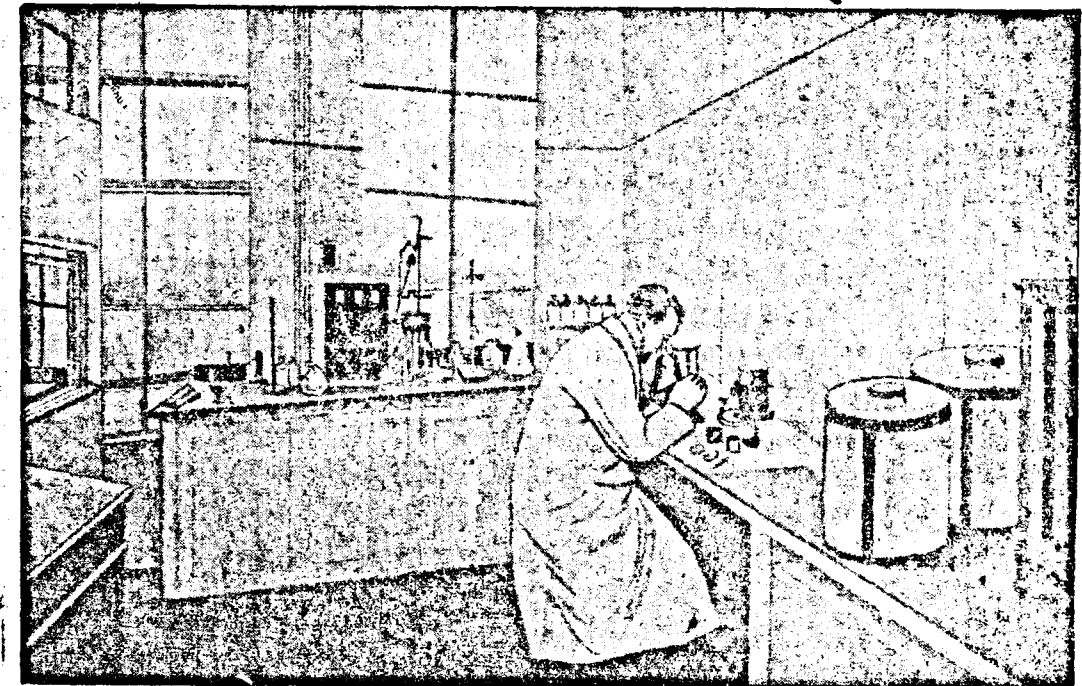
It has always been the policy of the Bergeret Laboratories never to offer a product to the world until it has been first subjected to the most exhaustive tests. Therefore; you may be sure that not only has a Bergeret Product been standardised, and made to conform to the highest degree of purity, and 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.

INTERNATIONAL HONOURS OBTAINED.



Paris 1922.
Brussels
1924.
Rome 1926.
Diploma of
Honour
Rome 1930.
Vienna
1933.

The illustration depicts the Gold Medals won by **ENDOPHON** and the Gold Medal awarded to the Bergeret Laboratories at International Exhibitions Highest Awards for Purity and Curative Efficacy.



Research Laboratory

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 fully preserved. There is no deterioration. Now manufactured by **Howard Lloyd & Co; Ltd., Leicester, England**, in kinds, No. 1 for Partial Impotence. (Premature Ejaculation) No. 2 for Partial Impotence (Feeble Erection) & Complete Impotence & Sterility, and No. 3 & 4 for Female Impotence, ie, No. 3 for Premature Orgasm and No. 4 for Frigidity, Complete loss of sexual feeling, barrenness, etc.

SATISFACTION

The corner-stone of our business is the determination to satisfy our customers with the best products manufactured.

We wish to make you a regular customer and to deserve your recommendation, therefore we stock only remedies of proved curative efficacy—the best in the world and sold under our bona-fide guarantee.

Personal European attention—Best Service and British Fair Play is always obtained in dealing with us.

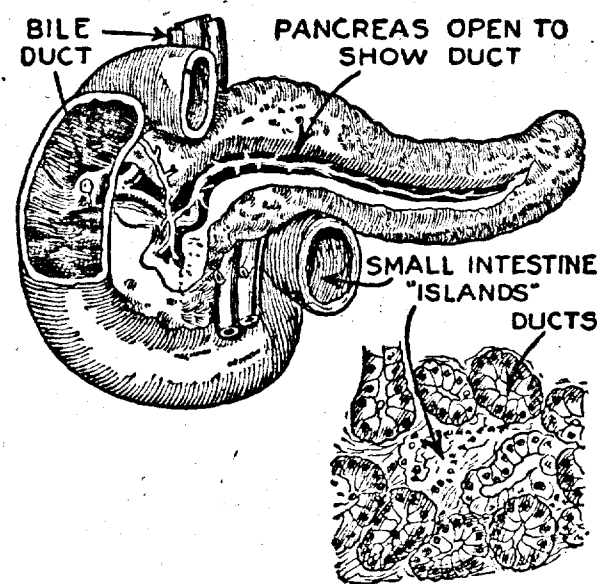
You will help and oblige us if you make known to us any complaints of our products or service so that we may put the matter right.

Address complaints to Manager.

C. W. Heath. (British.)

Sole Agents:—**THE ANGLO-FRENCH MEDICAL AGENCY (INDIA) LTD.**
POST BOX No. 148. BROADWAY, MADRAS.

Diabetes Mellitus and the Best Treatment.



The disease is as old as the Sphinx. Ancient Egyptian treatises on medicine speak of a disease called Polyuria, which is none other than diabetes.

The Cause of Diabetes.

The cause of diabetes is due to a disturbance in the chemical process of digestion, with the result that the sugar passes with urine, instead of undergoing the normal transformation into other substances before it leaves the organism. Defective Pancreas gland is the chief cause of diabetes. Other causative factors are defective

Liver, defective Kidneys, pathological changes in the nervous system and worry.

Symptoms.

The Symptoms are Boils, Eczema and other skin affections. Excessive thirst, loss of weight and nervous prostration. Diabetes often leads to Impotence.

The Toll of Diabetes.

A rough estimate indicates that about 40,00,000 people in India, Burma and Ceylon suffer from this dreadful disease.

Types of Diabetes.

There are two types of diabetes, viz., (1) Diabetes Mellitus, where presence of sugar in the urine is indicated. This is the most common type. (2) Diabetes Insipidus—a condition where no sugar is present in the urine. This type is very rare. (Urine is passed in large quantities in both the conditions).

Diabetes Mellitus is one of the most dangerous, stubborn and treacherous of all diseases, if neglected. Any delay in treatment not only aggravates it, but leads to serious complications.

The Treatment.

The treatment at first was only a diet prescription. A revolution in the treatment was made by Banting of Canada, by the isolation of INSULIN. Insulin was hailed as a miracle, consummating the work started by Lancereaux in 1877. A new era was thus opened and was followed by intense research in the clinical field, the results of which have been published in many newspapers.

But Insulin, unfortunately, is not in any sense a "cure" of diabetes mellitus. Spectacular as is its news, the diabetic who started to use it in 1922, is still using it and in virtually the same dosage. The death rate for diabetes has not altered much in 20 years. In short, the causative factors of the disease are controlled, not eradicated or changed.

The transient effects of Insulin and the necessity for its repeated injections have led some Continental workers to search for an oral Insulin compound, which would obviate these two great drawbacks of Insulin therapy in Diabetes.

The Solution of the Problem.

Early in 1937, Grimard of Paris announced his oral Insulin preparation, which he named Pancre-Vite, a combination of Pancreas gland extract (Insulin in solid form) with enzymes, Steapsin, Myrtillin, Amylopsin, Suprarenal Substance, Hepatic Juice and Hormones.

The administration of Pancreatic gland extracts with other substances by the mouth has scores of clinical and laboratory reports in its favour. One of these reports are given below:

"In a long series of blood-sugar tests on patients, Pancreas extract was found to cause a profound blood-sugar fall in 82% of the cases observed within two hours after administration by mouth. Controls of about an equal number of patients under the same clinical conditions, as far as this was possible, showed a fall in less than 40%."—W. N. Berkeley, "Principles and Practice of Endocrine Medicine," Page 261.

Grimard's oral insulin preparation is a true, well-balanced remedy for diabetes, so definitely capable of restoring the lost functions to the defective pancreas.

Pancre-Vite is prepared in the form of capsules and when acting, they produce a progressive decrease in the urinary sugar, and a gradual disappearance of the morbid phenomena found in a person suffering from diabetes. This preparation is quite harmless to take.

A Grave Warning.

Hundreds of thousands of people die every year from diabetes mellitus in India. Most of them could have been saved if only rational treatment had been taken. If you feel run down and if there is loss of appetite, sleeplessness, frequent urination and excessive thirst, then it is nature's warning and you should have your urine examined at once. If it is proved that you are suffering from diabetes, do not neglect yourself, but take treatment promptly.

THE CHOICE OF THE EXPERT

**Root out Syphilis Permanently
with the Infallible Oral Remedy—NEO SADALAN!**



No by-effects.)

Cures thoroughly
and permanently.

Neo Sadalan is a genuine specific for all forms of Syphilis and other chronic blood diseases, such as Leprosy, etc.

The active principles of Neo Sadalan are absorbed into the blood stream in small proportions and gradually destroys the spirochaete (Syphilis virus in the blood).

Neo Sadalan is very powerful and penetrates the minutest capillaries in the blood, eradicating every trace of the disease.

Neo Sadalan is the new oral preparation for Syphilis and other chronic blood diseases. Clinical tests have established its therapeutic efficacy.

**The Most Energetic Treatment for Syphilis
and other chronic blood diseases.**

Powerful—Penetrating—Permanent

Prices:—1 bot. Rs. 8-12-0. 3 bots. Rs. 25. 6 bots. Rs. 48.

Tel. Code. 3 bots. "Sadan" 6 bots. "Sadaf"

Neo Sadalan is scientifically and scrupulously prepared to the new and improved formula of Dr. Pierre De Sadalan, of Paris, the eminent French Scientist.

It is the result of many years of careful research and experiment and contains the essential elements that is a killer to the spirochaete (Syphilis virus) in the blood.

In all cases of Syphilis, including hereditary Syphilis in children, Wassermann's test turns negative after treatment with Neo Sadalan.

NEO SADALAN No. 2.

A very effective remedy for all cases of Leprosy, made to Dr. Pierre De Sadalan's formula. It contains the vital ingredients scientifically proved to be deadly to the Leprosy germ in the blood. In Capsule form.

Prices:—1 bot. Rs. 8-12-0. 3 bots. Rs. 25-0-0.
6 bots. Rs. 48-0-0.

Tel. Code. 3 bots. 'Sadex' 6 bots. 'Sadol'

EVERYTHING THAT CONTRIBUTES TO CURATIVE POWER

is embodied in these Scientific Remedies.

**Extracts from a few of the large number
of commendatory letters received from
the Medical Profession**

Dr. Alphonse Des Ames. (Paris) "....I endorse Neo Sadalan as the finest preparation for all forms of Syphilis...."

Dr. Bertrand De Canoples. (Grenoble) "....No other remedy has been so effective as Neo Sadalan...."

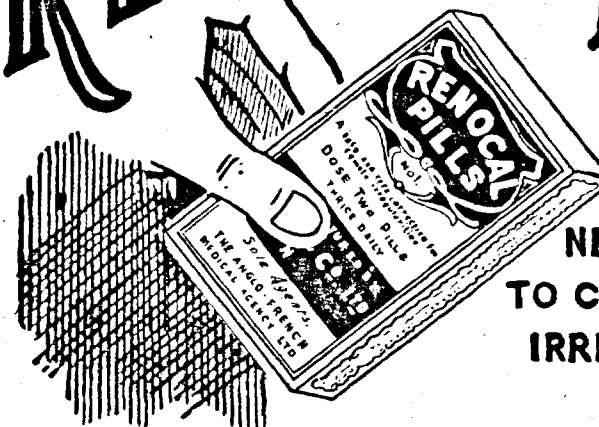
Dr. Andre Trefouel. (Nice) "..... In my opinion oral treatment with Neo Sadalan is much better than injections. I have successfully treated many Syphilis cases with it....."

Dr. René Peyral. (Paris) "....Neo Sadalan is composed of the essential therapeutic agents and I endorse it as a most efficacious preparation for all syphilitic affections....."

"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....."

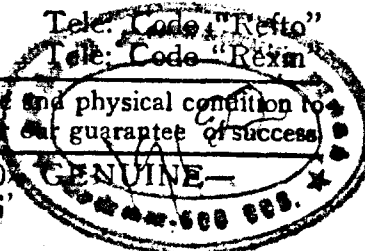
RENOCAL PILLS. (Two Strengths.)

No. 1. For early cases. Price Rs. 10-0 per bottle.
No. 2. For obstinate cases. Price Rs. 15-0 per bottle.

Tel. Code "Reto"
Tel. 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 guarantee of success.

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



CAMILLE

PREVENTATIVES.

[Snow White]

[Snow White]

Beautifully Soft and Skin-Like—Unnoticed in use.

Preventatives
DeLuxe



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.

"Camille" is made by an exclusive process and reaches a degree of fineness hitherto unattainable. They cling like softest silk and are absolutely flawless.

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

Finer Than Gossamer—Softer Than Thistledown

Prices:—1 doz. Rs. 25. ½ doz. Rs. 13. ¼ doz. Rs. 7.

Tele Code. 1 doz. "Exel", ½ doz. "Excelled"

TESTIMONIALS.

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

Mr. ——— (writes:—"I like Camille immensely. It is so soft and thin,.....")

Thinnest
Quality

AMERICAN TIPS.

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.



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. 20.

½ doz Rs. 11. ¼ doz Rs. 6.

Tele: Code. 1 doz. "Tip" ½ doz Tipper

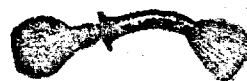
FRENCH TICKLERS

Superior Quality-Satin Finish-New Design.

These Preventatives are greatly appreciated for the 'feeling' they give during use, caused by the rubber 'feelers' 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. 25. ½ doz. Rs. 13. ¼ doz. Rs. 7.

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. 12-8 Each.

UNIQUE DESIGN PASSIONETTE MUTUAL EFFECT

These Preventatives have small, round disc-like protusions 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. 25. ½ doz. Rs. 13. ¼ doz. Rs. 7.

The "CROCODILE" (WASHABLE) Preventatives.

These Preventatives are made with slight corrugated protusions and ridges, resembling crocodile skin, which give that unique effect during use, for which they are famous. We supply the best quality, extra-stout, and strong, and highly elastic. They are Washable, and can be used for months. Recommended to remove frigidity and for mutual satisfaction.

Prices:—1 doz. Rs. 25. ½ doz. Rs. 13.

¼ doz. Rs. 7. Sample Rs. 3.

We believe that a Satisfied Customer is the best Advertisement.

Most Natural in Use
Non-Ripping Quality
Warranted Reliable.

TRANSPARENT VESTA SKINS

(Washable.)

"PRO-RACE"
Rubber Pessary
Size 1, 2 & 3.
Price Rs. 8. each.
Three Rs. 23.

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. 20. ½ doz. Rs. 11. ¼ doz. Rs. 6. Tele. Code. 1 doz. "Vest" ½ doz. "Vestal"

Soft Texture

The New Silk "NINON"

Pure White

Highest Quality

THE NEW LIQUID LATEX PREVENTATIVES.

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.

Preserves the Vital Forces.

Prices: 1 doz. Rs. 25. ½ doz. Rs. 13. ¼ doz. Rs. 7.

Tele. Code: 1 doz. "Fine" ½ 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. 7-8. Three Rs. 21. Three sizes. Small, Medium & Large.

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. 25. ½ doz. Rs. 13. ¼ doz. Rs. 7.

For
Ladies /

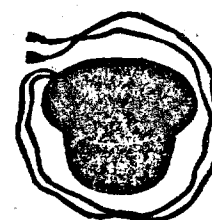
"YVONNE"

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. 6 only. Three Rs. 17.

Special Quality Preventatives for TROOPS.

Heat-resisting. Superior quality. British make. Two qualities:—Price Rs. 42/- and Rs. 54/- per gross. 5% discount allowed on orders for five gross and over. Expert English packing and supervision. Minimum order 1 gross.

Note. We are suppliers to many British regiments in India.

SAMPLE PACKET No. 1.

10 CONTAINING DIFFERENT TYPES OF PREVENTATIVES FOR 10

Rs. 15/- Only.

AS FOLLOWS:—

1 Camille	1 Vesta Skin
1 Neverrip	1 Thais
1 American Tip (Washable)	1 Crocodile
1 French Tickler	1 Passionette
1 Ninon	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. 7-8 PER PACKET

Packed in Cellophane to Ensure Freshness on Receipt

SAMPLE PACKET No. 3.

CONTAINING FIVE SUPERFINE PREVENTATIVES

AS FOLLOWS:—

1 Camille	1 Neverrip
1 Ninon	1 American Tip. (Washable)
1 Vesta Skin	

RS. 7-8 PER PACKET

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

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

GIVES EXCESSIVE POWER FULL ACTION LASTS FOR ONE HOUR

INCREASES - - - ERECTION

PROLONGA

PROLONGS - - -

- - - UNION

EFFECTS DOUBLY PRESERVED UNTIL CLIMAX.

A GENUINE PRODUCT

Special. 1 bot. Rs. 12-8. Tele Code "Pro"
Super special. 1 bot. Rs. 17-8. Do. "Prolong"

This wonderful remedy prolongs the period considerably.

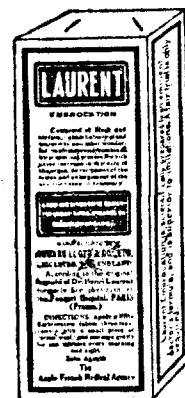
A dose is sufficient to increase feeble erection to full and complete powerful erection, after satisfaction is obtained a second erection is easily procured in a few minutes.

CALOMEL OINTMENT.
For prevention of venereal disease. Recommended for use with rubber preventatives.
1 bot. Rs. 3-8. 3 bots. Rs. 9.

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.
Price per bottle of 4 ozs. Rs. 17-8-0 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 Howard Lloyd & Co, Ltd. Leicester, England, according to the original formula of Dr. Henri Laurent, formerly first physician of the Fouquet Hospital. Paris. (France).

1 bot. (4 oz) Rs. 4-8. 3 bots. Rs. 12. 6 bots. Rs. 22

TASTELESS ENDURET TABLETS

For women only
A Genuine Product

These tablets can be safely taken in tea, coffee or wine etc, without the fear of detection as it is absolutely tasteless.

The action of a dose is sufficient to remove Coldness, Frigidity, etc., as it increases response immensely.

Furthermore these tablets can be taken by the most delicate person, as they are not harmful and do not cause bad after effects.

SPECIAL (Double Strength) 1 bot. Rs. 12-8 Tele Code "End"
EXTRA SPECIAL (Treble Strength) 1 bot. Rs. 17-8 Tele Code "Endur"

"RENNARD'S" Double Strength
Chinosol Soluble Pessaries.
An Excellent method of Birth Control.
Price per box (12 Pessaries) Rs. 3-8. 3 boxes. Rs. 10.

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. 10-0 per bottle.
(Extra Strong). Rs. 12-8 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.

A British Product.
Made by Robert Ferber, Ltd. (London).
Sold in phials. Rs. 15-0 a phial.

OUR CONSTANT AIM IS YOUR COMPLETE SATISFACTION.

PATIENTS "FROZEN" FOR FIVE DAYS

Suspension of Life Amazes Medical World

Experiments in "freezing" sick patients into a virtually suspended state of life—which may prove to be of the utmost importance in the world of medicine—have been made by to Philadelphia doctors, Dr. Temple S. Fay and Dr. Lawrence W. Smith.

They have been experimenting with cancer victims and they want to try their "freezing" process on heart disease, insanity, tuberculosis and many other diseases.

The process, as outlined by them at the annual meeting of the American Medical Association, is as follows:

The patients are stripped and covered with cracked ice. An electric fan is turned on. In three hours their internal temperatures are forced down below 90 degrees,

The patients literally go into a sleep similar to that drowsiness experienced normally by a freezing person, except that in this case the patients feel no pain.

Their room is kept cold so that when the ice is removed they remain cold. They stay like that for five days.

Then they are roused with hot coffee and warm applications. They awake smiling, with no memory of what has happened.

Cancer Cells Killed

In the meantime, it is claimed, the cold has killed at least the young cancer cells which form from 10 to 90 per cent. of growing cancer according to indications from these experiments.

But it is not this that has amazed the medical world.

It is the suspension of life—of which admittedly no one seems to know quite how to take advantage—that has awakened doctors to the possibilities of this freezing process.

For in their "frozen sleep," the patients' pulse beat disappears. Only the electrocardiograph shows that their hearts are still beating and that surprisingly, the rhythm is perfect, although very light.

Their kidneys and apparently all their digestive organs cease to work. But this, ordinarily a sign of approaching death, seems of no danger because at the same time analysis of the blood shows it has ceased to fill up with waste products. There is nothing to eliminate.

Metabolism—the process whereby nutritive materials is built up into living matter—is reduced to 10 per cent. from 20.

Prolonging Life

No frozen patient has ever caught pneumonia or a cold; the germs in their bodies apparently slow down along with the entire organism.

Previously, when a patient's temperature dropped even close to 90 degrees death was considered inevitable. But in these new experiments one woman's temperature was brought down to 82 for a short period with no ill effects.

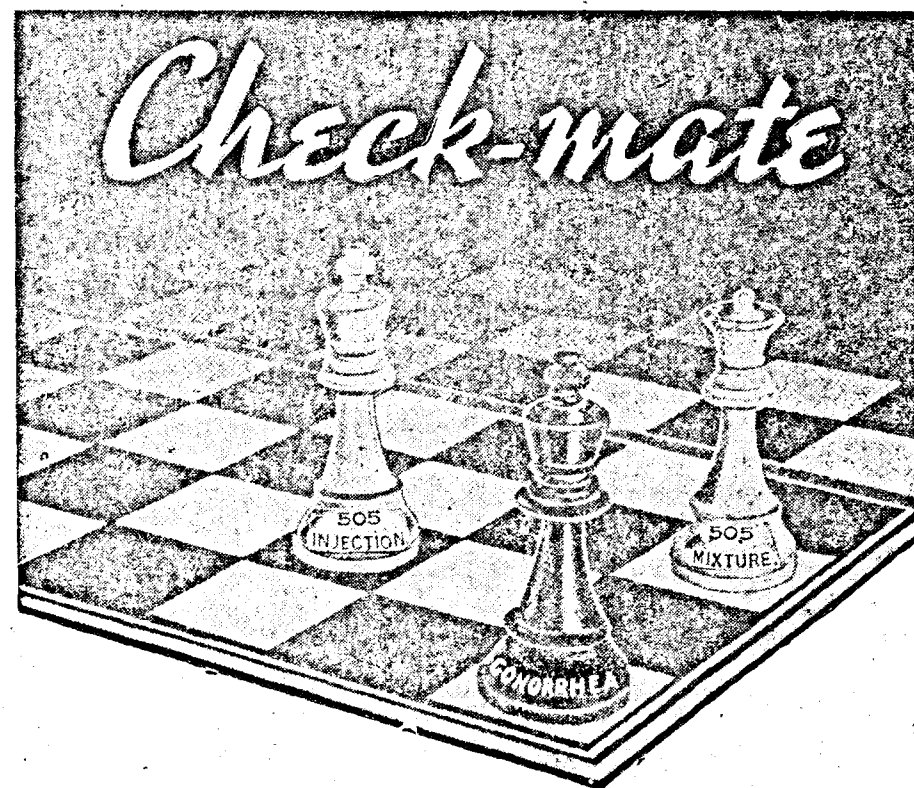
What the experiments portend, doctors cannot forecast.

Some consider that they may provide a new weapon for Science. By freezing patients in this manner, they think, it should be possible to give the heart a complete rest, as nothing else can, and so, perhaps prolong life. Germ diseases too, may be susceptible to this treatment.

Human "hibernation" is in its infancy but its possibilities are being viewed with grave attention by the medical profession.

WE STOCK ONLY GENUINE REMEDIES.

"THE CHOICE OF THE EXPERT"



"505" FOR THE PERMANENT CURE OF GONORRHEA

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. Gon. 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.

Male or Female Syringe
(For Injection) Rs. 3-8-0.

"505" INJECTION.

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

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

Gonorrhea—The Best Treatment

BY A DOCTOR.

Gonorrhea is on the increase. In fact, the latest world statistics suggest that one out of five persons in capitals, like London and New York are stricken with the disease.

The common fallacy that it is no worse than a bad cold is exploded. It is now recognised by clinical and pathological evidence as a dangerous disease with serious complications. Therefore, it should never be neglected.

Gonorrhea is an infective process due to the action of a specific micro-organism known as Gonococcus. It is characterized by a discharge of pus through the urethra. The primary lesion is an acute catarrhal inflammation of the anterior portion of the urethra. It quickly runs to suppuration, and if neglected, it attacks the bladder and weakens it, causing bladder trouble, then the prostate gland, and passing through the sub-acute and acute stages, penetrates the circulation and organic parenchymata, producing complications like stricture, epididymitis, gonorrhoeal rheumatism, vesiculitis, prostatitis, orchitis (swollen testicles) pyelitis, etc. and sometimes causes Impotence.

The symptoms of the disease usually start within 5 to 10 days after infection.

The patient may get some slight itching of the meatus and a burning sensation while passing urine. The lips of the meatus are congested and swollen. Gradually a serious discharge appears which though thin and mucoid in the beginning, soon becomes thick and yellow. There is sometimes a dragging pain in the back and some slight constitutional disturbances such as fever.

Occasionally the swelling inside the urethra is so great, that there is an hindrance in the flow of urine and on exertion haemorrhage occurs. The first attack is always more troublesome than the subsequent ones, though it responds easier to treatment. When this disease reaches the chronic stage it needs prolonged treatment.

The best treatment is a mixture and an Injection. Abortive treatment will aggravate the urethra and bring about complications.

The Mixture taken internally controls such distressing symptoms as pain, burning on urination, strangury and frequency. It does not upset the stomach. The Injection heals the ulcerations of the urethral mucosa or inflammation of the glandular structures and membranes in or about the urethra.

"THE CHOICE OF THE EXPERT"

GALAXIN

THE GENUINE BLOOD CLEANSER

BEFORE
TREATMENT



POWERFUL

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

PENETRATING

AFTER
TREATMENT



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. 5-8. 3 bots. Rs. 15. 6 bots. Rs. 28.

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

SCIENCE

"THE CHOICE OF THE EXPERT"

55

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."

Miss Diana Wade. "The Nest" Harrington Street, Calcutta. (Writes). I had a most terrible complexion. My skin was full of freckles and copper patches. Three bottles of **Galaxin** removed them entirely."

P. C. Singh. Great Indian Hotel, Forbes Street, Bombay. (writes). "Your **Galaxin** is truly miraculous. Nine bottles cured me of the malady I was suffering from. A doctor said it was **Lepa**. I had tried previously ayurvedic and herbal remedies, without result."

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.

'Testimonial from an Indian Gentleman

".....I have pleasure to inform you that I have been thoroughly cured by using your **GALAXIN**. Before using this I have been suffering from boils, pimples, etc. I used other medicines but with no result, so I say that it is the perfect blood purifier I ever used. God bless your everlasting prosperity....."

MEDICAL OPINIONS.

Dr. J. A. Halliday, M.D. 31, Duke-St London, E.C. 4. (England) writes:—"Galaxin is undoubtedly a potent blood cleanser. I have found it invaluable in blood and skin diseases....."

The Medical Review. (London). writes:—"...Chemical analysis has revealed **Galaxin** as a genuine blood cleansing remedy....."

GALAXIN BLOOD CLEANSER

Quickly Heals All Skin Eruptions

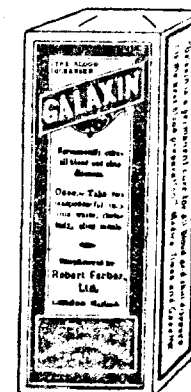
Galaxin Blood Cleanser is now manufactured by Robert Ferber Ltd. London, England, to the formula of Dr. E. F. Macdonald, M.D L.R.C.P; the famous Blood & Skin Specialist, who has cured thousands with his infallible treatment—discovered after extensive research and experiment.

THERE'S HEALING IN EVERY DROP!

If you suffer from
Eczema
Psoriasis
Leg Trouble
Nettlerash
Barber's Rash
Dhobies Itch
Impetigo
Dermatitis
Acne
Pimples
Ulcers, etc:

Take

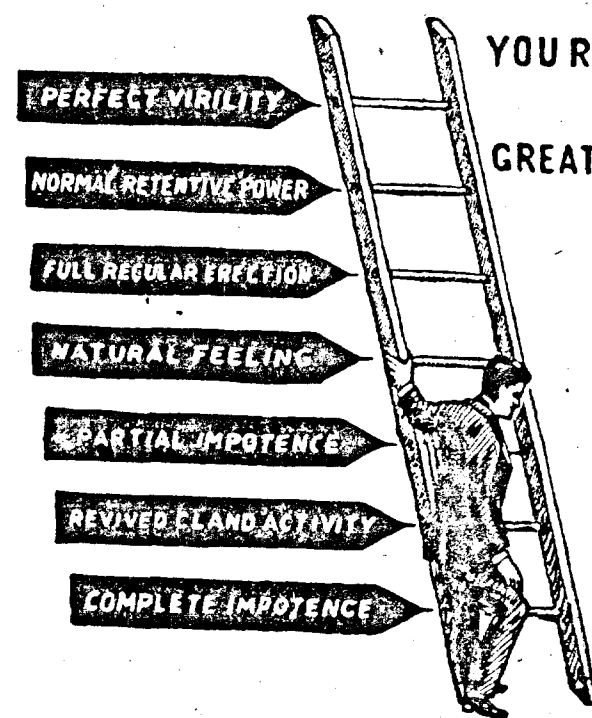
GALAXIN



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

“THE CHOICE OF THE EXPERT”

STEP by STEP



**YOU RISE TO NEW
AND
GREATER VIRILITY**

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.

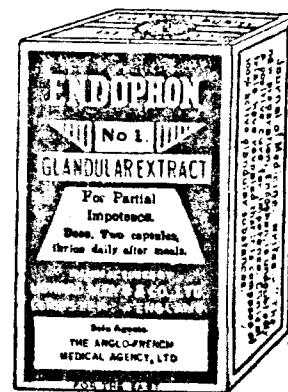
What ENDOPHON Does

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.

STEP by STEP, slowly but surely **Perfect Virility** is obtained.

ENDOPHON gradually strengthens the whole sexual system and restores Perfect Sex Health and increases Virility. Premature Ejaculation and Feeble Partial Erection is replaced with Normal Retentive Power and Full, Regular Erection, and Complete Impotence is replaced with Natural "Feeling" and Full Ability.

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



SOLD IN FOUR KINDS

Endophon No. 1 for Partial Impotence (Premature Ejaculation).

Endophon No. 2 for Partial Impotence (Feeble Erection) and for Complete Impotence and Sterility.

Endophon No. 3 & 4 for Female Impotence, ie, **No. 3** for Premature Orgasm and **No. 4** for Frigidity, Complete Loss of Sexual Feeling, Barrenness, etc.

Price: 1 bot, Rs. 8-12. 3 bots. Rs. 25-0. 6 bots. Rs. 48-0.

Tele. Codes: 3 bots. No. 1 'Entrax' 3 bots. No. 3 'Enfal'
" 6 bots. No. 1 'Entron' 6 bots. No. 3 'Enfalex'
" 3 bots. No. 2 'Enjex' 3 bots. No. 4 'Enfem'
" 6 bots. No. 2 'Enjexor' 6 bots. No. 4 'Enfemex'

WE STOCK ONLY GENUINE REMEDIES.

“THE CHOICE OF THE EXPERT” READ WHAT CURED PATIENTS SAY.

Mr. (Nagpur) ".....Endophon is all that you claim it to be. I have taken the full course and am now O. K. You have my permission to print this in a confidential manner, as I would like those who are in the same predicament as I was to benefit by using a really fine remedy....."

Mr. (Assam) "....I have finished the course of Endophon No 2 and with much gratitude I inform you that it has cured me completely....."

Mr. (Calcutta) "....When I first started taking Endophon No 2, it did not do me any good. I had taken it for two weeks and was disheartened. I thought of the old adage: 'A fool is born every minute' but my friend who recommended Endophon to me said that Rome was not built in a day, and I decided to complete the course.

I am now happy to tell you that it has cured me thoroughly. I am a wise man, indeed, to have taken your genuine remedy, Endophon....."

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 invitations are now been advertised, under various trade names.

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

Endophon is warranted free from all substances against the Hindu or Muslim religion.

Now manufactured by **Howard Lloyd & Co; Ltd. Leicester, England**, 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.

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....."

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 (Premature Ejaculation) and **Endophon No. 2** for Partial Impotence (Feeble Erection) is four months, comprising 20 bottles, and the cost, if ordered in one lot is Rs. 150/- only. A reduction of Rs. 10/- 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. 225/- only.

The complete course of **Endophon No. 3** and **No. 4** for Female Impotence is four and six months, costing Rs. 150/- and Rs. 225/- respectively.

Order to-day a complete course and obtain a permanent cure.

—NOT WORTHLESS 'QUACKS'—

* There is enough petrol in a small part of the Antarctic, according to Admiral Byrd, to supply the United States for a century.

Riches under the Polar Ice

By Luc A.-Gravier

—o—

We know practically all there is to know about the north Pole. The South Pole, on the other hand, remains a land of mystery, whose soil hides fantastic riches.

It is only about forty years since explorers began to investigate this desert country. Even now its shape is not completely known, but its area is estimated at roughly six million square miles.

The first man to spend any considerable part of the winter in the Antarctic was the Belgian explorer, Baron A. de Gerlache, in 1198. Since 1900 many expeditions have explored the region and annexed parts of it for the benefit of one country or another. England, Germany, France, Norway, Sweden, and Australia all sent expeditions before the Great War. In 1922 Shackleton left on the expedition from which he never returned.

Last on the scene were the Americans. In 1926 Admiral Byrd undertook the first aeroplane flight over the Antarc-

tic. He renewed his attempt in 1928 with the explorer Wilkins, and between 1933 and 1935 established his quarters for a whole winter—that is, for nearly five months—at the north-eastern end of Roosevelt Island. He came back convinced that the Antarctic was and of the richest territories in the world.

He knew that Shackleton had found coal there, and that others had found iron copper. After his 1935 expedition he himself announced confidently that there was petrol there as well. A periodical devoted to polar exploration, the *Polar Record*, announced simultaneously that petrol was known to exist in large quantities in Spitzbergen and Arctic Russia, and that there were geological reasons for supposing that similar deposits would be found in the Antarctic.

A commission was appointed by Congress to consider plans for a large-scale expedition, estimated to cost more than a million pounds, compared with the mere £15,000 spent by Gerlache's expedition in 1898. Admiral Byrd told this commission that one group of mine-

ral depositists, situated at the northern edge of the Antarctic, less than six hundred nautical miles from Cape Horn, would alone provide the United States with enough liquid and solid fuel to last a century.

It is expected that five countries will claim a share in the division of the Antarctic continent. The United States is claiming a million square miles at the north end of the ice-cap, south-west of Cape Horn, and about 5,000 miles from Tahiti. It also hopes to get the mountainous mass known as the American Highlands, on the other side of the ice-cap.

Germany, too, is in the field. Last summer she was preparing an expedition designed to get there at the same time as Admiral Byrd's. She claims territory already occupied by Norway and France, and disputes the possession of another area with Australia. And Great Britain may well contest the pretensions of the United States, since the mineral-bearing

areas which Admiral Byrd plans to exploit are situated in an area over which she has a general claim. Even Spain and Portugal could, if they wished, find a pretext for intervention in a papal bull of the fifteenth century which divided the pagan world between them for the better propagation of the Christian doctrine!

Petrol provides the world with two-thirds of its transport, and remains the most convenient of all liquid fuels. The territorial ambitions of the totalitarian Powers disguise a single desire: the need for petrol. Already the United States controls more than 59 per cent. of the world's petrol production. As compared with its 123 million tons, the British Empire produces 3,000,000 tons annually, Germany 300,000 tons, and France 78,000 tons. It is easy to see what tremendous power will be in their hands if they succeeded in adding to their existing resources the vast deposits at the South Pole: that is, if these deposits really do exist.

Horseplay

Aberdeen, Washington: Having shot an elk, Harry Long hiked several miles to camp and got a horse on which to carry the meat. While he was carving up his kill, preparatory to loading it, another hunter—this one slightly near-sighted—crept and ~~hot~~ the horse.

Automatic Postman

The "mailomat," a sort of automatic letter-box, has appeared in New York.

To post a letter the user drops coins into a slot, twists a dial to select the postage value, and puts the letter in.

The machine stamps and postmarks the letter.



MEDICAL HUMOUR

OR The Doctor's Funnybone

PASSED BY THE MEDICAL BOARD OF NON-SENSERS.

Ducking the Stork

John, aged six, was told that he had to go the hospital to have his tonsils removed and his mother was bolstering up his moral. "I'll be brave and do just what you tell me, mother," he promised. "but I betcha one thing, they don't palm off no crying baby on me, like they did on you when you were in the hospital. I want a pup."

All Lit Up

Having been told that it was electricity that made his mother's hair snap when she combed it, Johnny bragged to a visitor: "We're a wonderful family, mother has electricity on her hair and grandma has gas on her stomach."

All Explained

Man (searching through house for his wife,—to the maid)—"Bridget, do you know anything concerning my wife's whereabouts?"

Bridget—"Yes, sir, I put them in the wash."

Easily Recognized

What kind of a store is that fellow over at Tick Ridge running?" asked a motorist.

"Well, he has Ford Parts for sale," replied the attendant in the filling station at Ten Degrees. "buys butter, eggs and poultry, deals in real estate, paints houses, marries folks in his capacity as justice of the peace, runs the post office, sells stamps, hams, molasses, etc., and takes boarders upstairs."

"I reckon you'd call it a drug store."

Follow-Up System

The travelling man opened the telegram and read—"Twins arrived to-night, more mail."

Nature's Method

An animal with a third eye located at the top of its head has been discovered. It is undoubtedly nature's method of providing the pedestrian with a defense against the coming of congested airplane traffic.

Hats Off

Customer—"Have you anything for gray hair?"

Conscientious Druggist—"nothing but the greatest respect, sir."

Topics in Brief

(Literary Digest)

Another bit of faith that effects remarkable cures is faith in the doctor.

"Brake linings have been strengthened to endure modern strains." So, apparently, have stomach linings.

To avoid trouble and insure safety, breathe through your nose," states a doctor. Yes, it keeps the mouth shut.

If any man thinks a changed spirit hasn't come over America since Prohibition, let him attempt to drink some of it.

A scientist says the teeth of a gorilla are so deep set they can't be pulled, but we have an idea he doesn't know our dentist.

Even the weatherman is getting that way and occasionally talks dry and acts wet.

Among the ailments that are conveyed from dogs to man we note the inclusion of insomnia. Some people get it from the dog next door.—

What the constitution has done to liquors is nothing compared to what bootleg liquor has done to constitutions.

The word "pitilacker" has been coined to describe a person who is cruel to animals. This will probably stop cruelty to animals just like the invention "scofflaw" stopped bootlegging.—

"Do you know how to make a peach cordial?"

"Sure; send her some candy."

Deliver Us

Question: "Is life worth living?"

Answer: "It depends on the liver."

The doctor explains the matter to his patient in this way:

You see, the liver influences the liver by producing bile that acts favorably or not upon the liver and thus determines whether the liver who has that liver finds life worth living. In other words, the liver eats food to nourish his liver and enable the liver of the liver to supply the liver who has the liver with liver secretion that acts on the liver, and if this action of liver upon the liver is correct, the liver who owns this liver is a joyful liver. That is, if the liver of the liver is a standard liver and the liver with the liver is a low liver, though not necessarily liver-ied or running a livery, this low liver's liver will afford deliverance from liver troubles of the liver that a high liver's liver would not deliver. Or you can put it this way: If the liver who owns the liver is not a high liver and eats but little liver and treats his liver well, his liver will deliver bile and the liver's liver delivered of liver products decides if the liver with this liver wishes to liver die."

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.

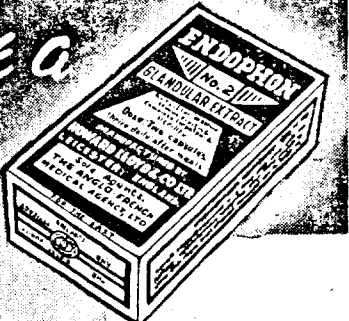
The outcome of these extensive experiments and research established Gland treatment by the mouth, as best and most rational in the cure of Sexual weakness.

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.

"THE CHOICE OF THE EXPERT"

There must be a Reason why—



★ RECOGNISED MEDICAL BODIES AND INSTITUTIONS
★ REPUTABLE MEDICAL PAPERS
★ INTERNATIONAL EXHIBITIONS

Endorse
ENDOPHON

As the only efficacious Glandular preparation for Lost Virility.

Better than anything that can be said about the merits of **ENDOPHON** is the fact that it has been awarded the Certificate of Merit by the Institute of Science, Paris, and three Gold Medals and two Diplomas of Honour at International Exhibitions, besides it is used by famous Clinics in Europe, one of which is the Clinique Scientifique Leon D'Arbes, Paris, proof of its remarkable curative efficacy.

Clinical tests on the various Glandular preparations on the market have proved that **ENDOPHON** is the best.

THE "TRUE FACTS"

- The **ONLY** Glandular preparation made by a firm qualified by years of experience in the manufacture of biological products.
- The **ONLY** Glandular preparation containing 100% fresh, fully active gland extracts, sealed in gelatine capsules.
- The **ONLY** Glandular preparation with a world-wide reputation and unanimously recognised by the Medical Profession.
- The **ONLY** Glandular preparation that can be relied upon to effect a complete and permanent cure.

EVERYTHING THAT CONTRIBUTES TO CURATIVE POWER IS EMBODIED IN ENDOPHON.

Extract from commendatory article by Dr. Louis De Rochefort, published in the Journal of the French Medical Association.
Jan - 1938

"....The gland preparation, Endophon, a product of the famous

Bergeret Laboratories, is in my opinion a really genuine remedy and a positive cure for sexual weakness. It deserves full approbation and wider support....."

Extracts from commendatory letters received from the Medical Profession.

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

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....."

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

Sold under a bona-fide guarantee. A SQUARE guarantee for a STRAIGHT product.

"THE CHOICE OF THE EXPERT"

• Sold in four kinds

Endophon No. 1 for Partial Impotence (Premature Ejaculation).

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* We shall never know who first translated speech into signs.

Writing: the Greatest Discovery

Many hold that the invention which has had most influence on the development of human society is the plough. Had not an unknown Chinese farmer contrived a wooden share to break up the soil on his land, where would civilisation be to-day?

So runs their argument. But what of the wheel? Without this invention, where would modern industry be, and communications? Yet the Mayas of Central America built up a flowering civilisation centuries before the Conquistadores came to destroy them, and they had not the use of the wheel.

A third opinion holds to the supreme importance of fire on the destiny of mankind. Whoever first tamed fire—fetched it, perhaps, from the red embers of a forest ignited by lightning and carried it to his cave—gave us our greatest boon. Surely the taming of fire was civilisation's most important milestone?

Abraham Lincoln thought not. In a newly found manuscript he discusses the world's greatest discoveries—and gives his vote to the art of writing. His argument runs as follows: If we consider that the spoken word is merely a sound which disappears in a twinkling, and that no human brain can store up all the valuable information imparted to it through speech, then we must agree that the art of translating sounds into signs is the most important of all. Take writing away from humanity and we lose the Bible, history, science, and law. Through the written word past generations speak to us.

Writing, then, was mankind's greatest discovery, according to Lincoln. And next to it—printing. Gutenberg was the father of printing; but we shall never know who first translated speech into signs.

—A-Magasinet (Oslo).

Cigarette History

Cigarettes have been in use in Europe for just over a hundred years. The custom is supposed to have been introduced by French soldiers returning from Algiers, where the natives smoked tobacco wrapped in maize leaves. An-

other theory holds that Spain was the first European country to popularise the cigarette, as a feminine counterpart of the already popular cigar and pipe. In 1830 Spanish women were adept cigarette smokers, and the art of rolling the slender

cylinders was widespread. Ferdinand VII could roll a cigarette in either hand simultaneously.

The first known cigarette factory was established in France in 1843. In England the custom did not take hold till later. Dickens was a cigarette smoker.

* An Egyptian sarcophagus brought death and disaster to its owners.

He Saw the Mummy Move

By Ferdinand Reyna

The speaker is an elderly man with a long white moustache. He is dressed in dark uniform and on his chest is the number 84. He is keeper of the seven rooms of mummies at the British Museum where is to be found, among others, the sarcophagus of young Cleopatra, namesake of the fateful Queen, and whom many believe to be the Queen herself.

He can show you the papyrus on which are recorded the changes of fortune experienced by this young girl of royal birth. He can tell you of many other wonders, too, but it is about his job itself that you should hear him talk. He speaks calmly, in a soft, even voice.

"Perhaps you won't believe me, but my job is sometimes a terrible one. During the long winter days, when London is covered with a dismal cloak of fog, there is often not a living soul about, not a single visitor, not a voice. Around me are the mummies, who are beings of stone to day, but who once lived and loved, had their own joys and sorrows. . . Their silence is sometimes terrifying.

"Even the jewels that adorn them, with their dull gleam, and the strange animals that guard them—jackals, falcons, fishes, and bulls—everything seems to have a life of its own, born of the

In a letter dated 1857 he writes to inquire where materials for rolling cigarettes may be bought. But the cigarette did not become universally popular until after 1870, when many of the brands still on the market in Britain were first launched. —Nu (Stockholm).

solitude. Behind the glass of the cases the scarabs glisten and still preserve their secrets of luck and ill-luck.

"One day—I was younger then—I was really scared. It was an evening towards the end of November. Seated on my stool, I was gazing at the mummy of Thu-Thu, wife of the scribe Ani, who is also here. After a time I found that I could not take my eyes off her. Suddenly—I honestly thought I was going mad—I saw a finger move, then a hand. . . .

"I gave out a fearful cry and collapsed unconscious. They found me later, lying on the ground, as pale as a sheet. I was ill for three months, but all the same I was intent on getting back to my work. I have carried on with it ever since, and I wouldn't give it up for anything in the world. My life is bound up with the mummies. I could retire on pension, but I don't want to. Perhaps my terror was a kind of test which I had to undergo before entering into their strange, uneasy world."

Medical examination of the mummies has revealed some curious things. For instance, we now know that the marriages between close relations that were traditional in the royal families of Thebes

and Memphis were not sterile and did not cause any degeneration. We have also learned that the Pharaoh Meneptah, sworn enemy of the Jews, had an attack of smallpox; that Akhnaton had a weak heart; and that toothache was very common among the Egyptians.

Some strange stories have been told about mummified Pharaohs avenging themselves on those who shatter their repose. It is said that near the end of the last century four Englishmen one day broke their journey at Luxor to visit the ruins of the temple of Ammon-Ra. During their short stay they were able to buy, from an independent searcher, a sarcophagus on which was painted a very beautiful woman's face, possessing a charm both disquieting and indefinable.

The four men then continued their journey. One of them was accidentally killed shortly after, while handling a revolver. Another died suddenly the following year. Six months later the third was seriously injured by a stray shot in the shoulder, and they had to amputate his hand. As for the fourth, he got into difficulties on his return to England and, finding himself ruined, shot himself.

This man owned the sarcophagus, and his sister, who inherited it, was soon in trouble herself. On the advice of a fortune-teller, she decided to get rid of the baneful object, but, before doing so she had a picture taken of it. This was done by a well known photographer—who died not long afterwards. Finally the sarcophagus caused the death of a British Museum official who was arrang-

ing for it to be moved, as well as a serious accident in which the man who was transporting it escaped only by a miracle.

Signor Gerolamo Segato, an Italian expert of the first half of the last century, closely studied the question of the preservation of mummies. He entered upon a deep study of Egyptology and the occult sciences, travelled in Asia and Africa, and, like Nostradamus, he penetrated to the heart of the pyramids. On his return he announced that he had made the great discovery, but a mysterious disease was soon to lead him to the grave.

Equally tragic was the fate of Dr. Efisio Marini. This man used to embalm bodies in the Egyptian manner. He would shut himself up in his apartment and refuse to see anyone. To the rare visitors whom he did admit, his laboratory, with all the strange instruments used in the various complicated processes seemed a place of madness. When Dr. Marini died his mind was completely unbalanced and he had not revealed the secret which he claimed to possess.

This same problem is being studied at the moment by the experts of the Egyptian Museum in Vatican City. One of them, Professor Tulli, summed up the whole question when he said to me: "Is there any discovery which has not claimed its victims? Consider the fact that, as far as evil spells—or, more simply, poisons—are concerned, the Egyptians, knew a very great deal. To touch a mummy is nearly always to take a mortal risk."

(Contd. from Page 12.)

"I promise," said the Lapp, and instantly the dog ran off to gather together his friends.

That agreement has been adhered to strictly. The Lapp, on his part, is particularly kind to his dogs, and to this day in the hinterland unwanted puppies and old dogs are hanged; while the dogs are the faithful guardians of his herds against the wolf.

It is when the snow is powdery and the wolf flounders up to its lean, grey belly, that the Lapp ventures forth to slaughter with wolf-stick (or rifle, should he possess such a thing), for during such snow conditions a man on skis can easily overtake a wolf to break its back with a single smashing blow of the "stick."

As deeply as the Lapp hates the wolf so he loves his dog. He even takes it to church with him. Men sit on one side, women on the other, and the dogs at the back, and it is a common occurrence for a service to be interrupted while the men leave their pews to separate a heaving mass of snarling animals. A preacher told me how he had once returned to the pulpit with bleeding hands after such a dog fight in his church.

The same preacher it was who told me how he had married a young couple, baptized their child and buried the bridegroom's mother during one continuous service. During the summer two years past the young couple decided to marry but to postpone the actual wedding ceremony until the coming winter, when the journey to church could be made at the same time as the reindeer herds moved from the mountains to the marshes. In the meantime a child arrived, an influenza epidemic which struck the small settlement wiped out two complete families and killed the bridegroom's mother, many reindeer died, and, desperately poor, the young couple were forced to postpone the wedding until the following winter snows. The dead were placed on lake-islands or beneath cairns away from prowling animals until such time as the arrival of winter made it possible for their remains to be conveyed by pulka to church (a journey of several weeks) for

decent burial. And with the ceremonies over, the newly-weds journeyed into the interior again to continue the struggle with Nature.

How the Lapps managed to find their way, watchless and compassless, bewildered me until Jonas initiated me into the secret.

Where the north wind strikes stunted trees the bark is invariably darker and the longest limbs invariably point south: Arctic moss grows more thickly on the south side of boulders, and ants always shelter in the lee of hummocks which is on the side away from north winds. So it is that as the Lapp travels he is constantly reminded of two points in the compass, north and south, from which he can fix the quarters.

It was from Jonas that I learnt the etiquette to be observed in the borrowing of a boat. The traveller is welcome to use any boat to convey himself across river or lake when the twenty-four-hours-a-day summer sun has melted the ice. But should he row to the other side he *must* return the boat to the bank from which he took it, otherwise the owner, or some other traveller, may find himself stranded, and to be stranded in Lapland can so easily result in death. So it is that boats are always left in pairs, one on each bank of a lake or river, and the traveller must make three crossings (no small order if the lake is a mile or two wide) before finally stepping ashore on the farther bank!

While on the subject of water I should tell of the strange experience which befell me in this Arctic land. A Lapp remonstrated with me for drinking from the edge of a lake. Devils, he said, lived in the water, and should one get into my stomach it would eat away my intestines. He quoted case after case in which he had heard of folk dying in agony from this cause, passed me the wooden cup dangling from his belt and, after searching the contents for a sign of a devil, I had my drink!

Never was I so sorry to leave a land as when I once more clambered aboard the bus and waved a final good-bye to Jonas-the-wolf-hunter of Karasuando-Lapland.

GLANDULAR THERAPY.

By Dr. A. F. De Saint-Croix.

Journal of Medicine, Feb. '37.

In the light of modern researches and extraordinary rapid progress in the direction of the use of ductless glands in the treatment of various diseases much is said and has been discussed.

This new principle in medicine has completely revolutionised the old time tonics.

Glandular therapy, the application of which dates back from 1889 when the pioneer of this branch of medicine, Brown Sequard, administered to himself testicular extract, is well known. To the amazement of himself and other physicians, the experiment proved a great success and a new chapter was opened up in the modern book of therapeutics.

Since that day, good many eminent scientists, notably Banting, Best, Murphy, Minot, and Serge Voronoff have experimented on various organisms including human beings, taking help of every available ductless gland found in the body.

Recently the new system has been perfected to such a degree, that surprising results have been recorded in books of medical statistics.

A good deal of information about the subject can be obtained from an authoritative publication put forward by Dr. E. Retterar, a Parisian Professor.

It is also a truth that the most forward medical men whose opinions are valued by

physicians of the whole world have personally carried out experiments, and have without reservation, put their stamp of approval on the system and advocated its tremendous possibilities.

It has been scientifically proved that the key to sexual weakness is Glandular Extracts obtained from the glands of bulls, and administered by the mouth in CAPSULE FORM.

Yet all the achievements of the system are reduced to nil if the glands selected are not of standard purity and if due care is not taken during the preparation of their compounds. The bulls selected must not be diseased and must be absolutely young so that all their ductless glands must be functioning with their proper physiological secretions. On strict and thorough pathological examinations, they should prove to be absolutely germ free and in a healthy condition.

The exact proportions selected from different glands is a matter of vital importance.

Another factor of great importance is the preservation and stability of these products. Absolute freshness is essential. The gelatine capsule is recognised as the best method of preserving freshness and therapeutic efficacy. The vital gland substances are completely sealed in the gelatine envelope, and all possibility of deterioration is eliminated.

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 another 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."

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.

THE SCOURGE OF SYPHILIS AND GONORRHEA AND THE CURE.

From the Lancet. June 11, 1942.

Britain's figures of venereal disease have risen since the War. In 1940 the increase was 28 per cent over 1939. Proportionately this is better than the situation in World War 1, when the V. D. rate doubled, but it is no occasion for complacency.

Treatment was woefully inadequate between 1914 and 1918.

The short courses of treatment then in use were responsible for tragic developments a generation later. If left untreated, syphilis has a tendency to clear up. This is disastrously deceptive. The disease may lie dormant for years, then suddenly break out again.

Syphilis is not a new disease. It has been treated a thousand different ways since 1493, when Dr. Diaz de Isla climbed aboard Columbus's ships at Palos to treat sailors loathsomely sick of the malady they had brought back from the West Indies.

Such things as China root and sarsaparilla have had their day, to say nothing of a medley of things like powdered serpents and even toad's spittle. It was not until March 1905, that science began to get at grips with syphilis.

In that year a bushy-boarded German named Fritz Schaudinn was ordered by Berlin's Imperial Health Office to make laboratory tests of a germ which was suspected of causing not only small pox, but the great pox. He got positive results, named the germ "the pale horror" because it could scarcely be seen, even under a microscope.

Another discovery in 1907 brought August von Wassermann's fixation test, which to this day is the doctor's quickest, most practical test for the disease: Three

years later Paul Ehrlich made the discovery which beat syphilis down from astronomical figures to something within reasonable understanding. This was "606"—salvarsan.

In 1936, Dr. Pierre De Sadalan discovered oral treatment, which he called after his name. Four years later, in January 1940, Neo Sadalan made its appearance, being the new and improved formula of Dr. Pierre De Sadalan, that clinches the fight even in long-standing cases.

The rate of cures in primary cases by Neo Sadalan is 86 per cent and in secondary cases 81 per cent, every cure is complete and permanent.

Neo Sadalan is the best treatment and is convenient and absolutely safe to use.

Quick disappearance of symptoms often inclines the sufferer to believe he is cured, and he stops treatment with tragic results.

In its primary stage syphilis is not painful; the secondary stage includes a rash, which may cover the entire body. Loss of hair in spots over the scalp is common. The third and fourth stages can be anything from heart trouble to general paralysis and insanity.

Syphilis is generally regarded as the aristocrat of diseases, but gonorrhoea is considered a social disgrace. More prevalent in its ravages, but far less horrible in effect it has been completely conquered by modern medicine.

The "MAGIC BULLET" in gonorrhoea's treatment is "505" Mixture and Injection. It is made to the formula of Dr. Edouard Pavy, the eminent specialist in venereal disease. This is the finest treatment and always effects a permanent cure.

"Each British Victory is a step towards the Liberation of the Continent from the foulest Thralldom into which it has ever been cast."

—Winston Churchill

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and VERBOTEN (Forbidden)

Health Rules

By a Doctor.

First of all, have your grinding teeth put in order; if you cannot bite your food, and consequently swallow it in lumps, your inside will be put out of gear at once, and constipation will result. Eat very slowly; cut your meat up on your plate before you put it into your mouth; take ten minutes longer over your meals than anybody else; get up in the morning in good time, so that you do not have to hurry over your breakfast.

DEAL WITH A FIRM OF REPUTE and get value for every rupee spent;

Harness Your Wish

Hidden down deep, so deep it has roots in your soul, you have a wish. If you hold fast to that wish, thinking it, living it, day after day, with all your heart and with all your soul, backed by the might of your intelligence, it must come true. You become your wish. Nothing, nobody, can prevent that.

There are always obstacles to be overcome, to call out your resistance. These are essential to your growth. Keep hoping; keep searching, and before long the world will be filled with opportunities, information and help. You will find it in the newspapers, the magazines, and books. You will meet people interested in your ideas, and consequently in you, friendly people who will lend their strength to yours.—*Youth To-day*.

A Remedy for Asthma

Asthma is a health trouble that launches sudden and serious attacks, often at times when the sufferer is unprepared with any means of defence. As every asthmatic knows, night attacks of asthma are the most feared. That is why any simple-to-take remedy that can be kept close at hand to give relief from the paroxysms that accompany asthma should be welcomed. Such a remedy is Matrone Specific, prepared in the form of little tablets, and Matrone Elixir in liquid form, taken in conjunction.

The Matrone treatment is the best in the world and has gained the endorsement of the medical profession, and there is ample evidence from actual users of the treatment that the claim to give quick relief and finally a permanent cure is justified. This treatment is prescribed for use in cases of asthma, bronchial-asthma, bronchitis, catarrh and hay fever.

Brown bread is better for you than white. Do not start telling me you hate brown bread; you must eat it, and you will soon prefer it to the white variety. Porridge for breakfast is good for you. Tea is bad; take only one cup of a day, and that very weak. Tea on waking, tea at eleven, tea for dinner; tea for tea, and an extra cup because Mrs Brown popped in at half-past five, and tea for supper—all this is the best I know for promoting constipation. Anæmic girls keep themselves ill by tea. Cocoa made with milk is worth the money because it is real nourishment.

* Stout Cortes, it appears, was the father of the "penny bar."

Chocolate From Mexico

By A. E. Ballard

The most munificent gift one empire ever gave her bitterest rival was—chocolate. The British Empire literally owes every bean to the Spaniards who first discovered the tree in Mexico and later started plantations in their other colonies. From these came the trees which formed the nucleus of the British plantations. At the present time Latin America and the British Empire between them produce about 98 per cent of the world's supply.

Actually, Columbus was the first white man to see the cacao bean. He took some back with him to Spain. Cortes and the men who conquered Mexico with him in 1521 were the first Europeans ever to taste the new drink. One of them, Bernal Diaz del Castillo, recorded that "the emperor [Montezuma] took no other beverage than the *chacolatl*, a potation of chocolate flavoured with vanilla and other spices, and so prepared as to be reduced to a froth of the consistency of honey, which gradually dissolved in the mouth, and was taken cold."

The Mexicans themselves were very partial to it. At one banquet Montezuma's attendants brought in 50 jars of

chocolate, which the Emperor and his Spanish guests drank out of golden goblets. Mean-while, the guards and attendants consumed 2,000 jars of what Linnaeus called, two centuries later, the food of the gods" (*Theobroma cacao*.)

Where or when the Aztecs, who arrived in Mexico City in 1324, acquired their taste for chocolate, is not known. Von Humboldt, in his account of his travels in South America, wrote: "We met no tribe on the Orinoco that prepared a beverage from the seeds of the cacao tree. The savages suck the pulp of the pod and throw away the seeds." His belief that the tree was indigenous to the forests of the Amazon and Orinoco seems to have been correct.

Cortes saw at once the commercial possibilities of the new drink, which was both stimulant and stand-by, and also a speedy remedy for scurvy.

The Mexicans, however, had never heard of sugar, which the Spaniards had already planted in the West Indies. When this was added to the chocolate it completely altered the nature of the

drink. The Spaniards kept the secret of its preparation for over a hundred years. *chocolate*, sugar and cacao butter is added.

Very soon cacao trees sprang up in other Spanish colonies. There were plantations in Trinidad as early as 1525, and from these came the first trees planted in Ceylon in 1834. In 1560 Spanish planters introduced cacao into the East Indies, and a little later they started plantations in Fernando Po. Trees were taken from this island to the Gold Coast in 1879 to found the British plantations which now yield 45 per cent of the total world export of cacao.

In Latin America the Spanish *conquistadores* found the cacao tree growing wild in Brazil, Ecuador, and Mexico. Plantations were started in Venezuela in the seventeenth century, and in Bahia in 1780. Today cacao is also grown in Colombia, Peru, and Central America.

From the first the unfamiliar Mexican words caused misunderstanding. The Aztecs called the tree *cacauatl*, and the drink *chocolatl*. From these two words come the English *chocolate*, *cocoa*, and the more unfamiliar *cacao*.

Cacao is the raw material which is produced when *cacao* beans are ground down into a semi-liquid mass. As this was too fatty to be pleasant, a Dutchman, Van Houten, devised a process for pressing out about 65 per cent of this fat, which is known as *cacao* (or incorrectly, *cocoa*) *butter*. When this has been done, *cocoa* remains. To make

From a distance an orchard of cacao trees does not look unlike an English apple orchard. The trees, planted 300 to an acre, grow 20-25 feet high. In Brazil there are over 100 million trees in area one fifth the size of Europe, producing in 1938 125,000 tons of beans.

Cacao pods are cut very carefully from the trees with a knife on the end of a pole, which is called a *podadera*, or *cocoa* hook. When the pods have been cracked, the beans and pulp are scraped out and left to ferment for three to five days. During this process the pulp turns to liquid and drains away. The beans are then dried in the sun for three or four days. In Venezuela clay is scattered over them, and they are dried and polished by the feet of the natives who dance on them whilst they sing their traditional songs. In Ecuador the beans are dried on strips of matting made of split bamboo, called *barbecues*, while in Bahia most of the beans are dried by artificial heat. "Estufas," as these are called, fetch a high price because they are not subjected to the vagaries of the weather during the drying process.

Chocolate is made today in a bewildering variety of forms and flavours, but, apart from the extraction or addition of cacao butter, the process of manufacture is essentially the same as when Cortes watched it four centuries ago,

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This is the dual action treatment for Asthma, made to the formula of Dr. Matrone. It gives relief in all cases of Asthma and gradually effects a permanent cure.

Prices: 1 bot. Matrone Specific (Tablets) Rs. 5.8.
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3 bots. of each. Matrone Specific & Elixer Rs. 30.
6 bots. of each. Matrone Specific & Elixer Rs. 57.

Dubois Specific & Ointment.

This combined treatment is unequalled in promoting a permanent removal of Piles. Made to the formula of Dr. Dubois. Piles Specialist. Prices: 1 bot. Dubois Specific. Rs. 5.8.

1 tube. Dubois Ointment. Rs. 4.8.
3 bots. Specific & 3 tubes. Ointment. Rs. 27.
6 bots. Specific & 6 tubes. Ointment. Rs. 51.

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End your stomach trouble for ever by taking this wonderful remedy and enjoy your meals in peace!

Prices: 1 bot. Rs. 4.8. 3 bots. Rs. 12. 6 bots. Rs. 22.

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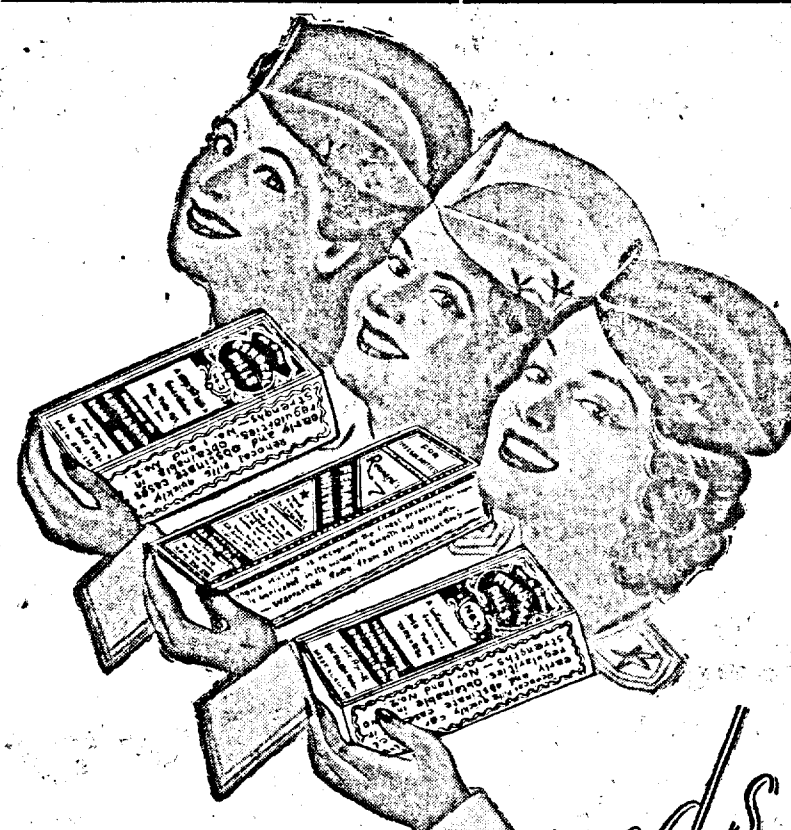
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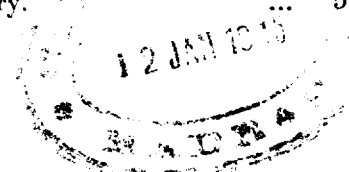
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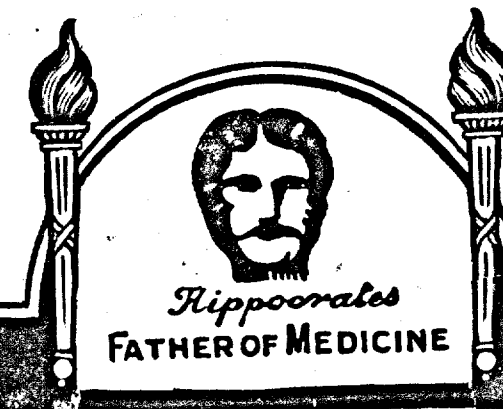
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GREATEST HOAX IN HISTORY

By G. Bernard Hughes.

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Catherine the Great, Empress of Russia, never lost the capacity to fall in love. But even those later affairs which scandalised Europe were really nothing but variations on the theme of her indestructible attachment to one man, Gregory Potemkin. The love of these two, whose common bond was ambition, realised itself in a dream of world rule.

Outwardly, the two had little in common: the Empress, personification of order and punctuality, who never drank alcohol, who rose at dawn and in her fifteen-hour day accomplished more work than ten men—and Potemkin, who spent his days in lounging, his nights in drinking, and whose gluttony was a byword.

Yet Potemkin worshipped her; he overwhelmed her with tenderness; he was a past master at choosing presents valued solely for their superb frivolity. With him she became a real woman letting herself be spoilt by a man.

At first, Catherine thought him "the most comical and amusing character of the century," for this woman who had known so much horror yearned for gaiety and laughter. But presently she came to appreciate his real qualities. "Ah, what a good head the man has!" Potemkin became Assistant Minister for War and, almost overnight, he was War Minister.

Then, suddenly he left for the south.

NOTICE.

Owing to the German occupation of France, our Head Office has been transferred to London.

Through special arrangements by the manufacturers, all French medicines for which we are Agents are now being manufactured by reputable British firms, who have purchased the manufacturing rights for England and the British Empire for the duration of the war.

The Anglo-French Medical Agency (India) Ltd.

WRITE FOR GENERAL CATALOGUE.

While he was merely Catherine's lover, Potemkin led a life of indolence, but the moment he became Minister for War, his life became ruled by that "tremendous plan worthy of a Caesar," already shaped in Catherine's mind, the ruling of the Black Sea and all South-Eastern Europe. In 1783 she quietly annexed the Crimea, and Potemkin's job, as governor of the province, was to turn this desert waste into a civilised country.

The task appealed to him. He embarked upon a hundred projects: the building of the naval harbour at Sevastopol, vast fleets of merchant vessels and warships; importation of silkworms from China; planting of forests and vineyards; new factories and roads; he made plans for a magnificent new town on the river Dnieper, to be named Ekaterinoslav—"Catherine's Glory."

He made journeys north to inform Catherine of these new wonders. And she believed him. She believed, too, in the other miracles he reported: fields of waving corn, villages of contented, prosperous peasants—she really believed that in three years Potemkin had created the happiest, most fruitful province of her empire out of barren steppe-land. She must visit the new province, see for herself these miracles. Though now fifty-eight, her enthusiasm would not let her hold back.

A Great Illusion.

Potemkin had not made a garden out of the desert, nor wealth where there was poverty, but he was able to create

the illusion of all this for Catherine's pleasure. The villages, the factories existed only on paper; the steppes were still as desolate, the towns as ramshackle as always. But Potemkin was a marvellous stage manager and Catherine's Crimean journey was a triumph of stage management—an achievement worthy of being numbered among the wonders of the world.

Catherine set out in February—Potemkin had gone ahead to "make arrangements"—with a retinue of forty thousand. Her sledge, drawn by eight horses, was like a small house, with three windows in each wall. At each station five hundred fresh horses were waiting; huge bonfires lighted the road at night. Villagers had been ordered to re-paint their wooden houses—they painted only the walls facing the street; groups of artificial trees had been placed to screen unsightly spots, broken down roofs had been repaired, not with tiles, but with painted cardboard imitations; the populace wore its best clothes; all the ancient and infirm remained indoors; begging or the presenting of petitions was forbidden—everyone was ordered to "express their happiness by smiles and merry gestures."

Some years before, Catherine had travelled this road and read the truth in the emaciated, hostile faces—misery and hunger. Now, seeing these clean streets, the well-dressed villagers, the gay-merrymaking, she believed that she had given her subjects prosperity.

At Kiev each guest of her retinue was provided with a furnished house, servants, and carriages. After each meal the linen was given to the poor; every day the people had a new spectacle to gape at. Catherine was a perfect hostess. Sweeping aside Court etiquette, she forbade the mention of politics. Though her body moved with difficulty, her brain darted swiftly over every subject—agriculture, town planning, child education.

As soon as the Dnieper was free of ice, the company embarked on waiting boats and began the dream-journey through Potemkin's fairyland. Seven floating palaces, followed by eighty vessels in attendance, carried three thousand persons. The Imperial galleys were lined with costly brocade; the walls, the servants' uniforms, gleamed with gold; meals were served on gold plate. Lying under her silken awning, the Empress saw towns decorated with huge triumphal arches and garlands; cattle grazing in the pastures, troops exercising, and, at dusk, peasants dancing with care-free abandon.

Fairyland Vanished

She did not know that this fairyland vanished the moment her boat had passed, that the houses behind the triumphal arches were without roofs, doors, or windows; that behind the houses were no streets; that the villages were desert-

ed; that the cattle had been brought long distances to graze before her eyes; that the dancers were wretched serfs, taught with pains and beatings, to perform their care-free capers. After sunset, they were packed into carts like a travelling theatrical company and hurried to the next stand.

At each of three anchorages there was a magnificent new palace, with artificial waterfalls and a park. Potemkin could work miracles! He turned primeval jungle into formal gardens—by transplanting trees that flourished for a few days and then slowly withered. Again houses for Catherine's guests had been temporarily erected, with every conceivable luxury.

At Ekaterinoslav the Empress laid the foundation stone of the new cathedral. Its plans made St. Peter's in Rome appear a village chapel, but the cathedral was never built. Proceeding now by carriage, the party drove through villages buzzing with industry: brick-laying, road building—everywhere activity, pulsing life, busy crowds! They could not guess that these same towns were dead and derelict; that Potemkin had snatched no fewer than twenty communities bodily from their homes to populate temporarily his provinces.

Every kind of entertainment was provided. At one stop an artificial volcano spurted flame into the air at night;

at Sevastopol a band of one hundred and eighty musicians played at the reception dinner. Before the windows Catherine's gaze travelled over massed regiments down to the bay, where lay the new Black Sea fleet, built in two years. A roar of cannon broke from the decks with shouts of "Long live the Empress!"

The Triumphant Climax.

Later followed the triumphant climax of the whole journey: at Poltava two armies met in a mock combat, representing the famous victory which Peter the Great had won on the same ground.

It was effective stagecraft, and Catherine's happiness for the moment was complete. She owed it all to Potemkin. Had she discovered the hidden flaws in his methods, it might have damped her

enthusiasm. Had she known that the warships were constructed of the poorest materials, that the cannon were without ammunition, that the fortress of Kherson was built of sand, and, far from withstanding cannon shot, was to be destroyed by the first thunderstorm, then she might have regarded this Crimean journey in a sober and pessimistic light.

It had cost seven million roubles and an enormous expenditure of human energy, and it had achieved nothing, save the further aggrandisement of Potemkin in Catherine's eyes. That, at any rate, had been successful.

The Crimean journey and the elaborate invention of a happy, prosperous country were no more than a highly orginial, expensive tribute paid by one of the greatest lovers in history to his Empress.

Horseplay

Aberdeen, Washington: Having shot an elk, Harry Long hiked several miles to camp and got a horse on which to carry the meat. While he was carving up his kill, preparatory to loading it, another hunter—this one slightly near-sighted—crept and shot the horse.

Automatic Postman

The "mailomat," a sort of automatic letter-box, has appeared in New York.

To post a letter the user drops coins into a slot, twists a dial to select the postage value, and puts the letter in.

The machine stamps and postmarks the letter.

DISEASE HAS CHANGED HISTORY

By Geoffrey H. Bourne.



Ever since man has lived upon this earth he has been beset by diseases of one sort or another. Even ancient fossil bones unearthed from time to time have shown signs of disease. Sickness in man may be due to many causes—to his body taking, so to speak, a wrong turning, to deficiencies in his diet, or to infection by various external agents—bacteria and fungi or moulds (which we can see down a microscope), viruses (which are too small to be seen except with very special techniques and apparatuses), and small single-celled animals called "protozoa."

Larger forms of animal life, such as certain small worms, can also cause disease. Other sicknesses are caused by irritant substances met with in various types of industrial work. Such a profound influence has been exerted on the course of events in the world by infectious diseases than an account of them should prove of considerable interest.

The Black Death with ravaged Europe in the fourteenth century was a major disaster of history. Something like twenty-five million people, or one quarter of the whole population of Europe, was killed in the first attack in 1348. It broke up the spiritual and moral life of the people and caused political chaos for many years. This Black Death appears to have been mainly bubonic plague—a disease which is carried by the rat flea. The germ, or bacillus, which causes it is a small rod with rounded ends measuring only one fifty-thousandth of an inch in length.

Rats Infect Men.

The germs are present in the blood of an infected rat, and when the rat is bitten by the fleas which infest it, some of the germs are sucked up with the blood and travel from the flea's stomach to the glands which produce its saliva. Then, if the flea should subsequently bite a man, it automatically transfers the germs into his blood. The result is an attack of bubonic plague, usually fatal. This disease has probably existed in the East for thousands of years, for rats have been known there from the earliest times. Before about the year A.D. 400, rats were not known in Europe, however; but from that time to about A.D. 1100, these animals began to arrive in ever-increasing numbers. It is probable that they came later in swarms, since the legend of the Pied Piper of Hamelin dates from between 1200 and 1300.

Rats have now spread all over the old and the new worlds; the number in the world must now be immense, and the damage they do enormous. It is only ceaseless vigil and a certain curious fact inherent in diseases, which will soon prove obvious, that keeps bubonic plague at bay today.

The rat invasion of Europe brought in a disease which had not existed before in that part of the world. In other words, the disease descended upon a highly susceptible population. It is a curious fact that, when a disease appears among a population where it has never occurred before, it takes on a much more serious character, and spreads

widely and rapidly as an epidemic. The introduction by the white man of tuberculosis into native populations was disastrous to the natives for this reason. Another example is that of the King of Fiji and his son, who visited Sydney, Australia, in 1875. There the son contracted measles and carried it back to Fiji. As a result, an epidemic of measles spread through the country and out of a population of 1500,000 people, 40,000 died.

The Black Death came in four important waves, in 1348, in 1361, 1371 and 1382, and the attacks became progressively less severe. It then practically disappeared until the Great Plague of 1663 to 1664, during the course of which it reached London in 1664. From London it spread to other parts of England.

Medieval Europe was ravaged by diseases of many sorts, and the Black Death, with its misery, death and terror, induced among the survivors a sort of nervous condition which expressed itself in the form of wild hysterical dancing. Here is what Hans Zinsser, late expert in disease in ancient times, has to say about this. "...one cannot overlook a curious chapter of human affliction, namely that dealing with the dancing manias spoken of in mediaeval accounts variously as 'St. John's dance,' 'St. Vitus's dance' and 'Tarantism.'"

Dancing Manias.

For the most part, the dancing manias present none of the characteristics which we associate with epidemic infectious diseases of the nervous system. They seem, rather, like mass-hysteria, brought on by terror and despair, in populations oppressed, famished and wretched to a degree almost unimaginable today.

To the miseries of constant war, political and social disintegration, there was added the dreadful affliction of inescapable, mysterious and deadly disease. Mankind stood helpless as though trapped in a world of terror and peril against which there was no defence. God and the Devil were living conceptions to the men of those days, who cowered under afflictions which they believed imposed by supernatural forces. For those who broke under the strain there was no road of escape except to the inward refuge of mental derangement which, under the circumstances of the times, took the direction of religious fanaticism. In the earlier days of the Black Death mass-aberration became apparent in the sect of the flagellants, who joined in brotherhoods and wandered by thousands from city to city.

Origin Of "Tarantella"

Later, for a time, it took the form of the persecution of the Jews, who were held guilty of the spread of the disease. For a time the opinion was widely held that the dancing manias were due to the bite of a large spider or "tarantula," hence the name "tarantism." This name has survived to the present day in the form of "tarantala"—the name of a high stepping Neapolitan dance.

Bubonic plague was by no means the only disease that afflicted Britain and Europe in medieval times. One alarming visitation was that of the "English Sweating Sickness" which waxed and waned a number of times between 1435 and 1552. Henry VII of England gained the throne after, and as a result of, the Battle of Bosworth. His victorious army began to march to London and, on the way, it was attacked by this disease which broke it up in confusion. The disease appeared suddenly in the form of a terrific sweating which began either in the early morning or in the evening and was accompanied by violent trembling. There fol-

lowed high fever, vomiting, headache. Death swift, sometimes only a few hours after the onset of the disease.

Henry VII's army was disbanded and carried the disease to all parts of the country. It was virulent in London and disposed of among others, two Lord Mayors and six aldermen in a very short space of time. At Oxford the University was closed for six weeks, and dons and students fled from the city. The disease disappeared after 1485, and no more is heard of it until the year 1507. Again it disappeared, to recur in 1518, and again in 1529.

The curious thing about the disease is that its nature is completely unknown. There is no infection of the present day which resembles it entirely, and there is no subsequent record in history of a similar disease. Most of the other historical diseases we can identify, almost with certainty, but the cause and nature of the English Sweating Sickness remains a mystery.

One disease which has decimated Europe from the earliest times is typhus fever. Typhus is caused by a minute organism, too small to be seen by the ordinary microscope, and is carried by the louse. Typhus has been known under various names such as "jail fever," "soldier's fever," and so on. It has smashed armies, wiped out villages and towns.

Our Ancestors

If we stop for a moment to consider to what extent our ancestors were infected with lice, and remember that typhus was carried by these insects, the widespread occurrence of the disease in ancient times is not surprising. Indeed not only in ancient times has the disease been a disaster. After the Russian revolution in 1918, typhus killed many millions of people.

Hans Zinsser provides a succinct account of our ancestors with regard to lice. "The manner of living throughout the Middle Ages made general lousiness inevitable. In England, in the twelfth and thirteenth centuries, the houses of the poor were mere hovels, often with

only a hole in the roof to let out the smoke of the central fire; and in cold weather the families were huddled together at night without changing the simple garments—usually a single shift—which they wore in the daytime. Washing was practically out of the question and the better classes—not very much more comfortable in their badly heated domiciles—wore a great many clothes which they rarely changed."

Dangerous Wigs

The habit of shaving the head and wearing a wig was no doubt in part due to the effort to hold down vermin. Gentlemen and ladies all over Europe restored to this, and the wigs they wore were often full of nits. Pepys speaks of this in several places, complaining about a new wig he had bought which was full of nits. "There to Westminster to my barbers'; to have my Periwigg he lately made me cleaned of its nits, which vexed me cruelly that he should put such a thing in my hands."

Infestation by parasites becomes particularly dangerous where large groups of men are collected together in the form of armies. As a result, typhus, plague and highly infectious diseases such as cholera, typhoid and dysentery, have actually played a more important part in history, because of the battles they have won and lost, than any general although, as Zinsser puts it, "the epidemics get the blame for defeat, the generals the credit for victory."

In the Crusades many more men were lost from the ravages of disease than died from battle. In 1098 at the siege of Antioch the losses from disease of the Christian army, originally numbered at about 300,000 were so great that the dead could not be buried. Of the 7,000 horses belonging to the cavalry 5,000 died from disease, and the cavalry was thereby completely put out of action. By 1099 this Crusading army of 30,000

Christian had been reduced to 60,000, and by 1101, only 20,000 of them remained. The second Crusade fared worse. A few scattered groups of men were all that found their way back to Europe.

In 1632, typhus fever defeated both of two armies, which were moving into position for battle, before a blow could be struck. It was before Nuremberg, and the opposing generals were Gustavus Adolphus and Wallenstein. Nuremberg was to be the prize of the victor. However, typhus, and to a lesser extent scurvy (which is due to a vitamin deficiency), killed off 18,000 men in the two armies, which turned about and marched away again in the hopes of shaking off the disease.

Typhus began its Ravages

Dysentery may well have decided the French Revolution. Frederick William of Prussia gathered together an army 42,000 strong and began in 1792 to march on France. But dysentery appeared in the ranks and in a short time 12,000 men were dead. Bewildered, and feeling they had been struck by some deadly but unseen foe the army of Prussia began to retreat. But for that outbreak of dysentery, it is very likely that they would have overwhelmed the revolutionary army.

Napoleon's attack on Russia is one long record of the fight against disease. He set off with something like half a million men. All went well until they entered Poland. Then pneumonia and a throat affection, which is believed to have been diphtheria, attacked the troops, after which typhus commenced its ravages, and then dysentery and enteric fever. By the time the battle of Ostrova was fought there were 80,000 men ill. After losing a number of men killed and many more disabled by wounds. Napoleon entered Moscow. Many more of the army fell sick in the

Russian capital. The hospitals were crowded and soldiers sickening for various diseases were herded together in small unsuitable shelters. The Russians had used a "scorched earth" policy, very similar to that employed by them in the present war, and they had destroyed all Moscow's food stores. Owing to the bad living conditions and the shortage of food, typhus and dysentery spread like wildfire.

By the time Napoleon's once fine army began to retreat, there were less than 100,000 men able to make the attempt. Guerillas and cold weather played havoc with this remnant, and when Smolensk was left behind, 20,000 of the 1,00,000 mostly ill of typhus, remained in the hospitals of that city.

Only Three Thousand Escaped

On December 8, the French army arrived at Vilna; 15,000 of its men had been frozen to death on the way, many more had been lost by accident and disease, and there were only 20,000. The typhus, which these carried, raced like a flame through the surrounding villages. Only 3,000 men out of the original army of half a million escaped from Russia.

In this present war, the contending nations have taken great care to prevent infectious disease in their armies. The Russians even arranged for bath units on sleds to visit their front line in the depth of winter so that every Russian soldier could have a hot bath and his clothes disinfected once a week. In this way, infection from lice and the danger of typhus were averted.

Not only have the belligerents on either side avoided a major outbreak of typhus but new advances in the prevention and treatment of diseases during the present century have reduced the chances of epidemic disease striking the competing armies to negligible proportions.

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