

# MOSQUITOES, MALARIA.

## The Results of Three Interesting Experiments.

### DISEASE IS IN THE BITE

#### Not in the Atmosphere Nor in the Food.

### DESCRIPTION OF THE TESTS.

(British Medical Journal, Sept. 2nd.)

In the British Medical Journal of May 12th, 1900, page 1187, it was announced that an experiment was to be made under the auspices of the Colonial Office to test the truth of the mosquito theory of malaria by a practical application of it under conditions such as dwellers in malarious regions have actually to face. Dr. Luigi Sambon and Dr. G. C. Low, both connected with the London School of Tropical Medicine, volunteered to live from June till October, that is to say, through what may be called the height of the malaria season, in a part of the Campagna near Ostia, which is so infested by the disease that no one who spends a night there under ordinary conditions escapes the effect of the poison. Dr. Sambon, Dr. Low, Signor Terzi, and their servants, have now exposed themselves to the pestiferous influence of this valley of the shadow of death for over two months. They live in a mosquito-proof hut, which was described and figured in the Journal of May 12th. They take no quinine or other drug which might be regarded as prophylactic. Not one of the experimenting party has shown the least sign of infection. We are able to make this statement on the best authority, and we consider it right to give it to the public, as we understand that a rumor is being industriously circulated in Italy that the experiment has proved a failure. So positive, indeed, have been the rumors to this effect that we thought it our duty to make inquiries on the subject at the London School of Tropical Medicine. In reply, the original of the telegram, of which the following is a copy, was shown to us:

Roma, 13th Sept., at 6.25 a. m., received 7.51.

To Manson, finally, London: Assembled in British mosquito-proof hut, having verified (verified) perfect health experiments amongst malarial stricken inhabitants, I salute Manson who first formulated mosquito malarial theory.

Grassi. The testimony of Professor Grassi, director of the Institute of Tropical Pathology, has been made.

The wisdom of our forefathers has warned us not to halloo before we are out of the wood, and the same maxim of proverbial philosophy may be taken as applying with special force to a malarious swamp. The experiment has still some six weeks to run before the object lesson which it is meant to enforce can be regarded as fully completed. The omissions, however, seem to be propitious, and we may now, with as much confidence as the uncertainty of human things warrants, look forward to a successful completion of this important experiment. Satisfactory as such a consummation will be from a scientific point of view, it will also be matter for gratification that the men who have in the cause of humanity deliberately exposed themselves to a most serious risk have not had to suffer for the scientific faith that is in them.

What for practical purposes may be regarded as an experiment of the same kind is being conducted in West Africa. Dr. Elliott, a member of the Liverpool expedition sent to Nigeria some time ago to investigate the subject of malarial fever, has recently returned to this country. He reports that the members of the expedition have been perfectly well, although they have spent four months in some of the most malarious spots. They lived practically amongst marshes and other places hitherto supposed to be the most deadly. They have not kept the fever off by the use of quinine, and they attribute their immunity to the careful use of mosquito nets at nights.

It may be remembered that as a complement to the preventive experiments in the Campagna, it was arranged that attempts should be made to produce malaria in healthy persons in this country by causing them to be bitten by mosquitoes carrying the germ of the disease. We are informed that this experiment has also been successful. A consignment of mosquitoes which had been fed on the blood of a sufferer from malaria in Rome, under the direction of Professor Bastianelli, was received in London early in July. A son of Dr. Manson, who offered himself as a subject for experiment, allowed himself to be bitten by these insects soon after their arrival in this country, and again at the end of August. On the first of these occasions the bites apparently proved harmless, and a third experiment was made last week, but the positive result which has now been reached is probably due to the mosquitoes which bit in August.

Dr. Manson's son, who has never been in a malarious country since he was a child, is now suffering from well-marked malarial infection of double tertian type, and microscopical examination shows the presence of numerous parasites in his blood. The gentleness of the experiment and the accuracy of the observations can be vouched for by several competent and independent witnesses. The mosquitoes, as already said, were fed under the personal superintendence of Dr. Bastianelli, and were sent by Dr. Sambon to the London School of Tropical Medicine, where they were placed in a warm chamber with all the precautions necessary to keep them in a state of vigorous vitality. They thrived well, fed greedily, and deposited their ova. Full details of the experiments will, we understand, be published in the course.

A similar experiment is said to be in progress in New York. Mosquitoes fed on a patient suffering from malaria, now in the Bellevue Hospital, were allowed to bite a healthy young

man, who, of his own free will, submitted himself to the experiment. Six days later the young man began to show signs of malarial infection.

The malarial problem is not yet entirely solved, but these experiments certainly afford very strong confirmation of the theory that mosquitoes chiefly responsible for the conveyance of the poison to man. It is clear that if the formula, "No mosquito, no malaria," does not contain the whole truth of the matter, it may for practical purposes be taken as a guiding principle by colonists and pioneers in tropical climates. This country, with its vast and ever-growing imperial interests, has the best reason to be grateful to Dr. Manson, Major Ronald Ross, and the other scientific workers who have spent themselves in the endeavor to track to its lair the insignificant-looking enemy which, more formidable than any legendary dragons, guards the golden apples of our colonial Possessions, dealing death to those who seek to gather them. The thanks of the nation are also due to Mr. Chamberlain who, with an audience of 200 people, doesn't think one weighed over 100 pounds. A correspondent of the New York Commercial who has just visited the place reports his observations as follows: "I will all the people in New Delhi were stripped and stood up in lines and dressed only in Indian attire, they would make a picture equal to the representations of starving people in India. Physicians say that the great bodies of oil and natural gas under the town are nature's anti-fat remedy." It is proposed, in fact, to start a great anti-fat sanatorium at Neodesha. At this place, it appears, all the men wear beards, because they are too lean to be shaved. The typical People-long, lank, hirsute and voluble—is illustrated in every citizen. "I went to a show in the evening," the correspondent adds, "with an audience of 200 people, and I don't think one weighed over 100 pounds. The clerk at the Neodesha Post Office is 5 feet 7 inches in height, but weighs only 97 pounds. Strangely enough the only jobbing blacksmith in the town is also the thinnest and lightest man in weight—89 pounds; the wife of the organist at the Unitarian Church is 28 years old, has three healthy children, and weighs 85 pounds this summer, although she always 'fats up' some in the winter, having once, in February last, tipped the scales at 80-3-4."

## BONOUNCED INCURABLE.

### The Story of Mrs. Agnes Foran, of Halifax.

#### Following Inflammation of the Lungs a Severe Cough Set In and Her Doctor Said Her Case Was Hopeless—Dr. Williams' Pink Pills Have Restored Her Health.

(From the Recorder, Halifax, N. S.) Mrs. Agnes Foran, who resides at 21 Agricola street, Halifax, N. S., tells a wonderful story of her complete restoration to health, after a protracted and distressing period of extreme illness, and she attributes her present happy condition, under Providence, to the marvellous qualities of Dr. Williams' Pink Pills. When Mrs. Foran was called upon by a representative of the Acadia Recorder, who stated his mission, she cordially welcomed him to her pleasant home, where, in the presence of her mother and sister, she freely told the story of her sickness and recovery. She said: "A few years ago I suffered a severe attack of inflammation of the lungs and was attended by one of the best physicians in the city. I looked through, but was left a complete wreck, so that I could not do any work, suffering all the time from palpitation of the heart, nervous prostration and a ringing sound in my head. I also had a distressing cough, and by the time I never knew what it was to have a good night's rest. For two years my life was a perfect misery to me and under the doctor's orders I took emulsion till was nauseated with the sight of it, but all to no purpose. My life was despaired of by all my friends, who were assured by the doctor that my case was beyond the reach of human skill. I was visited by the clergy at my church and Sisters of Charity, who were very kind and sympathetic and looked upon me as one whose earthly race was about run. I experimented with all sorts of remedies for my cough, but without a single line of relief. Last advised me to try Dr. Williams' Pink Pills. Being fairly discouraged, nevertheless I was persuaded to make the trial, when to the surprise and joy of myself, family and friends, I began to get better and by the time I had taken seven or eight boxes I was as well as you see me now," and she laughingly added, "I think you will admit that I don't look much like a sick woman." Her mother, who had been listening to the tale of her daughter's long illness, added: "It just seems like a dream to us all that we once despaired of her life, when we now see her pink of health."

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### A THIN COMMUNITY.

#### The Mecca for Fat Folks is it Kansas.

Neodesha, Kan., promises to become the Mecca of fat folks. The inhabitants of the town, 1,500 in number, are remarkably thin, most of them weighing not over 100 pounds. A correspondent of the New York Commercial who has just visited the place reports his observations as follows: "I will all the people in New Delhi were stripped and stood up in lines and dressed only in Indian attire, they would make a picture equal to the representations of starving people in India. Physicians say that the great bodies of oil and natural gas under the town are nature's anti-fat remedy." It is proposed, in fact, to start a great anti-fat sanatorium at Neodesha. At this place, it appears, all the men wear beards, because they are too lean to be shaved. The typical People-long, lank, hirsute and voluble—is illustrated in every citizen. "I went to a show in the evening," the correspondent adds, "with an audience of 200 people, and I don't think one weighed over 100 pounds. The clerk at the Neodesha Post Office is 5 feet 7 inches in height, but weighs only 97 pounds. Strangely enough the only jobbing blacksmith in the town is also the thinnest and lightest man in weight—89 pounds; the wife of the organist at the Unitarian Church is 28 years old, has three healthy children, and weighs 85 pounds this summer, although she always 'fats up' some in the winter, having once, in February last, tipped the scales at 80-3-4."

### How's This?

We offer One Hundred Dollars' Reward for any person who can locate the author of a Hall's Catarrh Cure. F. J. CHENEY & CO., Props. Toledo, O. We, the undersigned, F. J. Cheney, do hereby certify that the person who has cured the author of this disease in all his years, and believes him perfectly honorable in all business transactions, and financially able to carry out any obligation made by him. WEST & TRUAX, Wholesale Druggists, Toledo, O. WARDEN, CELESTINE MARVIN, Wholesale Druggists, Toledo, O.

Hall's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system. Price 75c per bottle. Sold by all druggists. Testimonials free. Hall's Family Pills are the best.

### Beds are Scarce in Russia.

Beds are quite an innovation in Russia, and many well-to-do houses are still unprovided with them. Peasants sleep on the tops of their ovens; middle-class people and servants roll themselves up in sheepskins and lie down on ear stoves; soldiers rest upon wooden cots without bedding, and it is only within the last few years that students in schools have been allowed beds.

Dear Sirs,—This is to certify that I have been troubled with a lame back for fifteen years. I have used three bottles of your MINARD'S LINIMENT and am completely cured. It gives me great pleasure to recommend it, and you are at liberty to use this in any way to further the use of your valuable medicine.

Two Rivers, ROBERT ROSS.

### A Monstrous Pun.

As soon as the weather saw the member for East York going about in a shirt waist it changed as fast as it could be changed, and he was down to get better and by the time I had taken seven or eight boxes I was as well as you see me now," and she laughingly added, "I think you will admit that I don't look much like a sick woman." Her mother, who had been listening to the tale of her daughter's long illness, added: "It just seems like a dream to us all that we once despaired of her life, when we now see her pink of health."

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### HEAT AND COLD

Are never-failing causes of disease. At this season of the year neuralgia, toothache and a host of similar diseases are rampant. The great remedy is to find the quickest, surest and most economical remedy. *Pain's Nerve* is the best remedy of the kind. It is prompt, efficient and most economical, for it exceeds in power every known remedy, and is as cheap as inferior articles. A 25-cent sample bottle will give every person a chance to test it. Large bottles only 25 cents.

### No Need For Alarm.

"Can't you do something for my husband, doctor?" asked the anxious wife; "he seems to be worrying about money."

"Don't be alarmed, madam," answered the physician, reassuringly; "I'll relieve him of that."

Minard's Liniment Cures Diphtheria. Blotting Out Remembrances.

"Mrs. De Jones, does your husband feel keenly his failure to get the nomination?"

"I think so. The poor man has taken on the children to three circuses already this week." — Indianapolis Journal.

Never do a thing concerning the recalculation of which you are in doubt.—Pliny.

A Temperance Story.

Many years ago, when Buller and Ian Hamilton, the South African campaigners, were both lieutenants, they were in the Scottish highlands shooting. One day Buller fell into a muddy hole up to his neck. On being pulled out somebody gave him a big drink of old Scotch whisky. Buller tossed it off with relish, snatched his lips and said: "Give me another and I'll jump in again."

Miller's Worm Powders make the children healthy. It is wonderful what strength of purpose and boldness and energy of will are possessed by the assurance that we are doing our duty.—Scott.

# BACKACHE?

If you have Backache you have KIDNEY DISEASE. If you neglect Backache it will develop into something worse—Bright's Disease or Diabetes. There is no use rubbing and doctoring your back. Cure the Kidneys. There is only one kidney medicine but it cures Backache every time—

## Dodd's Kidney Pills

### Shah Wore His Hat in Church.

On his homeward voyages the Shah of Persia paid a visit to the Cathedral of Cologne. According to the rites of his country His Majesty is not allowed to take his hat off while visiting any church, and a special permission had to be granted by the Vatican which was secured by telegram. The Shah entered the dome accompanied by his grandees and ministers, in all ten persons, and during his inspection the cathedral was closed to the public. He remained about an hour and showed great interest in the magnificent architecture and the rich windows.

Green Ceylon and India Tea, which is now being introduced into Canada, in the well-known packages of the "SALADA" Tea Company, has got one great advantage over Japan Tea; and that is, while it is of the same flavor and the same light coloring matter, it is very much stronger and absolutely free from adulteration, which practically no Japan tea is. Ceylon Green Tea is sold in the sealed Lead Packets of the "SALADA" Tea Company, and is always fresh and fragrant as well as healthful.

She Expected Too Much. "Look here, sir," exclaimed the milliner lady, "I want you to take back that parcel you sold me, I find that it wears very badly."

"Well, madam," replied the dealer, "it's a very young bird; it'll learn to wear more perfect when it's a bit older."

### THE SUMMER

Comes and brings with it aching corns. Painless Corn Extract never fails to remove corns promptly, painlessly and with absolute certainty. Putnam's Corn Extract. Sure, safe, painless.

Wasted Efforts. "Yes," she sighed, "I was away for a while this summer—out in the country. But what's the use?"

"Why?" her friend asked. "Don't you think you feel any better than you did?"

"Oh, I don't know. I may—a little. But I hadn't been home two weeks before my tan was all gone."

Miller's Worm Powders for scallow skin; old or young.

The Muse of the Unenlightened. "Did you read Jibber's poem, called 'Woman's Timid Touch'?"

"Woman's Timid Touch?" Oh, say; there ought to be a law to prevent hucksters from writing poetry about women." —Chicago Poetry.

Miller's Grip Powders cure.

He Had. "Hello, old chap. I thought you had been egged on to stand for Parliament by your relatives?"

"So I was; but I was very strongly egged off again by the electors. I've!" —July.

Minard's Liniment Cures Gargot in Cows.

It is the peculiar faculty of fools to discern the faults of others at the same time they forget their own.—Cleco.

Minard's Liniment Cures Colds, etc. Vroom, the dramatist, sails shortly to produce "Marsac of Gasconia," for the first time in America, under the management of Jacob Litt.

## NEW TREATMENT FOR HAY FEVER

Immunity from this Dreaded Disease no Longer Requires a Change of Air and Climate. Sufferers can now be Permanently Cured in their own homes by CATARRHOZONE.

Hay Fever in many localities is rampant at this season and afflicts its victims upon the unfortunate sufferer often without warning. So distressing are its consequences, often fatal, that for years scientists and specialists have vainly sought a cure. Their observations show that Hay Fever is caused by a particular germ floating about in the air, which finds lodgement in the air passages of the head and lungs of so many people.

To cure Hay Fever the first thing of course is to expel these germs from the system, but the disease being so deeply seated in the minute air passages of the lungs, bronchial tubes, nasal passages, etc. they are not easy to reach, and the ordinary constitutional remedies, therefore, utterly fail.

Here the new and great germicide Catarrhozone comes forward. It is carried directly to all the affected parts by the air you breathe through a specially devised inhaler. The cause of the trouble being removed by CATARRHOZONE, nature is able to assert herself, and an exemption from symptoms of Hay Fever is assured.

Not only has CATARRHOZONE a local action in its way, but when inhaled it is absorbed into the circulation and acts as a disinfectant to the whole body, rendering one perfectly immune to Diphtheria, Coughs, Consumption, and absolutely cures all forms of Catarrh, Bronchitis, Asthma and Hay Fever. CATARRHOZONE is a guaranteed remedy that gives satisfaction whenever used, and if you suffer from any of the diseases you can make no mistake in using it.

### MOST INDEPENDENT OF WOMEN

#### Parisian Walter Declares the English Woman is a Model of Her Sex.

A Parisian waiter of an observant turn and of far more intelligence than the majority of his class has expressed his opinion that the English are the most independent women in the world. He seems to have been specially impressed by the fact that they seem to know their own minds and are not to be coerced and coerced and persuaded like the women of other nations into having what they do not like and do not want. This is a point upon which it is good to insist. There is a general superstition that the English American are the most independent of the women of all nations; but, as a matter of fact, they are more restricted in many ways than we are and far less determined in character. The Englishwoman is never impulsive, and this is especially noticeable when she is traveling. It is as a traveler, of course, that she has been criticized by the French garnon, and he finds that while his own fair compatriots, American and Russian women, are all prepared to do in Rome as the Romans do, the Englishwoman adheres strictly to her own rules and tastes. If she wants this she has it; if she does not want it she firmly declines it. This attitude is the outcome of the real freedom which is ours and for which she has every reason to be thankful. It is true, our girls are not allowed to do things which their American cousins do as a matter of course; but, on the other hand, the women of England would never consent to the tyrannous restrictions imposed upon their sex by meddling transatlantic legislators.

Some others may be good, but without doubt Miller's Compound Iron Pills are the best.

Prodigal's Choice. "Well, dad," cried the prodigal son, flippantly, "wouldn't you better go out and kill the fatted calf now?"

"Yes, I guess I would," returned the old man, slowly. "One calf is enough to keep at a time." —Harper's Bazar.

# Don't Cough

Stop it with SCOTT'S EMULSION of Cod Liver Oil.

A little coughing is nothing—the tickling, that makes you cough once, is some dust; not the least harm. You scratch an itch, and forget it. This cough is scratching an itch.

But the cough, that hangs on and comes back, is a sign of an itch that hangs on and comes back. There is something that makes that itch.

Inflammation: a germ; it's alive; like a seed in moist warm ground; it will grow if you let it, even in children.

Take SCOTT'S EMULSION of Cod Liver Oil, and the germ will die.

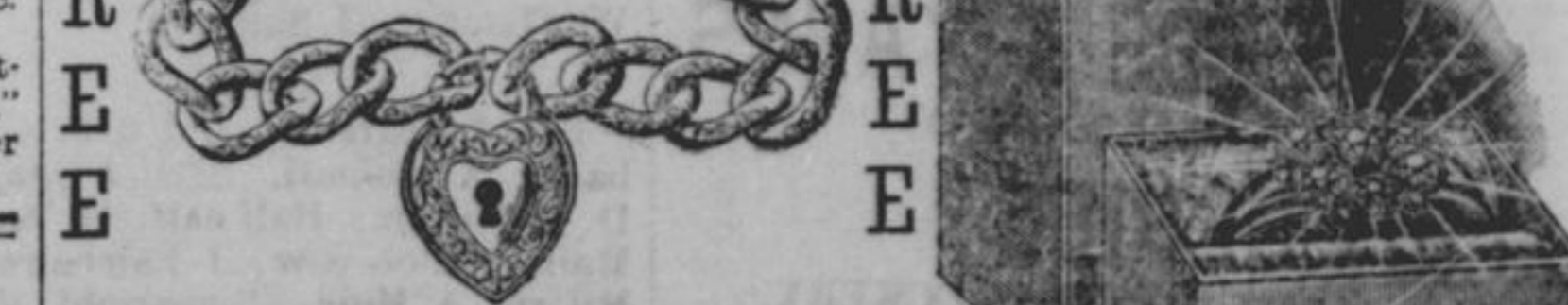
If you have not tried it, send for a free sample, its agreeable taste will surprise you. SCOTT & BOWNE, Chemists, Toronto 50c. and \$1.00. all druggists.

## The Largest Handlers of Apples in the World.

Simons, Shuttlesworth & Co., Simons, Jacobs & Co., Garcia, Jacobs & Co., Liverpool, England. Glasgow, Scotland. London, England.

Proceeds of sales are promptly remitted by cable. Full and accurate Market Reports are issued tri-weekly. Exporters of apples will be furnished with market reports, sailings of steamers and other information, by applying to J. M. SHUTTLEWORTH, "BOW PARK" FARM, BRANTFORD, ONT.

W. M. FRENCH, 185 McGill Street, Montreal, will attend to the prompt dispatch of all consignments made to the above named firms.



We have just published a beautiful oil portrait of the Queen, in 16 colors, size 12 x 9, ready for framing. As every person will want one of these magnificent works of art, we would like you to express our views. We give you your choice of 36 VALUABLE PREMIUMS.

Some of which are illustrated above, for selling 6 or more of the Queen Portraits at 10 cents. Write at once and we will send you a supply. Also our full illustrated sheet of premiums. Sell the portraits, return the money, and we will send the prize you select.

THE ROYAL ACADEMY PUBLISHING CO., TORONTO.

## YOU ALL LIKE 18 KARAT GOLD

—OUR— Golden Yellows

Bear This Stamp and are THE BEST and PUREST in the Market.

As good as many brands of Granulated sold now-a-day.

## THE ST LAWRENCE SUGAR REFINERY.

ONTARIO ARCHIVES