DEADLY LOCKJAW GERM

ODD WAYS IN WHICH TENANUS MAY ENTER THE SYSTEM.

acillus Lurks in Dirt and Any Scratch May Admit It—Cases from Toy Pistols, Diving and Bare Feet — Danger from Fishes Also—Symptoms of the Disease.

The lockjaw bacillus is a formid-able beast. It is inseparable from dirt. Dirty hands, lurking bacillus, a scratch or cut—and the mischief is done, declares a writer in the New York Sun.

York Sun.

The unenlightened public persists in associating all lockiaw with rusty nails, and quite refuses to accept the bacillus that was formally introduced in 1885. As a matter of fact, the nail's only function is the making of a wound through which the poison can enter the system, and an oyster shell or a toy pistol can serve the purpose of the bacillus quite as well as a nail.

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Why this bacillus should be especially prevalent in certain localities scientists do not explain, but the fact remains. The Shrewsbury river is a happy hunting ground for the beast, and a clam shell out of the mud, down there, may inflict a scratch that will mean death. All Long Island mud is full of the bacillus, and the fact that Long Island children live to grow up would speak volumes for their clean liness, were it not that exposure to sunlight kills the bacillus immediately, and so the sun fights for the preservation of the Long Island species.

New York itself isn't inhospitable to the tetanus bacillus. In 1859 there were 90 deaths from lockjaw in New York City and its vicinity, many of the cases being due to accidental wounds made by toy pistols on the Fourth of July. The pistol wounds in themselves would not have bothered the small boys more than on any other Fourth. Probably there were no more of the wounds than there usually are on that glorious day; but, unlucklify for the owners of the pistols, lockjaw bacilli were out in tremendous numbers that season and seized the opportunity offered by the pistol wounds. No bay can celebrate the Declaration of Independence properly and keep his hends clean, so there was no escaping the lurking fog.

Tast year two cases of lockjaw in this city were due to abrasions on the head, caused by diving in shallow water. The diver in each case struck his head against simething sharp on the river bottom, and the bacillus in the mud entered through the cut, causing lockjaw within a few hours.

A wound upon the face or head, if affected by the bacillus, will be more dangerous than a wound upon the foot or hand. The poisoning develops more rapidly and is more violent in form. A large majority of lockjaw cases originate in the feet or hands of the sufferers because those parts of the body are most exposed.

In warm climates the disease is more common than in colder localities, not because the ferm revels in heat, but because t

introduction of the tetanus bacillus through wounds made by the horns of catifish.

"I have known of tetanus polsoning from cuts made by fish fins and from lobster claws and from ovster or clam shell," said the doctor to a Sun reporter, "and I'd advise any one to suck a wound like that vigorously, the instant it is made. The polson isn't ordinarily on the fish or the shell, but it is on the dirty hands, and a fisherman is pretty likely to have dirty hands and to get occasional scratches in handling fish." The mosquito carries the tetanus bacillus along with other germs, and in localities where the bacillus is plentiful cases of lockiaw for which no cause could at first by found have been traced to mosquito bites.

In violent cases of lockiaw the polson toxine may develop and produce alarming symptoms within a few hours after the entrance of the bacillus into the blood, but in most cases the development is slow at the outset. The trouble shows first in a soreness and stiffness of the side neck muscles, and gradually slight spasms of the muscles appear.

These spasms increase in violence, and extend to the muscles at the back of the neck, and then to the entire spine and trunk. The abdominal and chest muscles become rigid, and the spine is ordinarily curved. The face takes on grimaces, with the forehead furrowed, the angles of the mouth drawn back into a grin, and the jaw firmly set; and this facial expression, in connection with the hoarse noise made by the sufferer, renders a case of violent tetanus poisoning one of the most frightful sights in the range of medical experience. Chronic convulsions sweep over he body, at intervals more and more frequent, as the case becomes more violent. The slightest noise or jar or even a current of air being enough to bring on one of the spasms. It is only during these convulsions that the patient suffers pain.

Mild cases may last several weeks; but in acute cases, death occurs in from one to seven days, and then mortality is very high. It is estimated that about 90 percent of the cases end in or ecovery. The mortality from lock-jaw is, however, decreasing, as a knowledge of the nature of the disease becomes more widespread and physicians learn how to treat it.

Analysis has shown that tetanin poison is much like strychnine poison in its effects, though much stronger, and various experiments havebeen made to find an antitoxin that will neutralize the poison. While the results have not been thoroughly satisfactory, prompt inoculation with tetanin antitoxin is undoubtedly valuable in many cases and should always be tried, if that is possible.

Thorough cauterization of the wound is necessary, and, if done promptly, will ordinarily prevent danger; but the difficulty is that the wound is often too slight to occasion any notice or clarm until the toxin has developed and the harm is done.

When the disease is once fully developed the physician has a difficult proposition upon his hands. The patient is relaxed by the use of chloroform, and hypodermic morphine and bromide injections are given. Hot applications are sometimes beneficial. The patient is kept in a dark room and absolutely quiet, the slightest excitement being enough to bring on convulsions. If there is no tooth missing in the patient's closed jaw it is not unusual to extract one, so that a stomach tube may be passed through the opening and nourishment given in that way. Artificial respiration is often necessary. A case developing before the sixth day has chances of recovery; but, if the trouble does not appear until after the 12th day, there is comparatively little hope for the patient.

MORALS AND HEALTH.

Important Facis Discovered by the Scientific Study of Children.

The school systems of the whole world are likely to be revolutionized by certain investigations which have been made recently in Chicago, writes Edward Marshall in Frank Lesteward Marshall in Frank Lesteward School children have been examined and experimented with as carefully and as scientifically as any student is taught to experiment with chemicals in a school laboratory. Three facts of tremendous interest to every father and to every mother who have intelligence enough to appreciate the high privilege of parentage have been discovered.

First, it has been found that quite

been discovered.

First, it has been found that quite as much depends upon physical development as upon the mental calibre of school children. In fact, the investigation shows that the two are almost co-ordinate. Admitting, as in every other generalization, that there are many exceptions to the rule, it has been proved that the strong child and the big child is the bright child in school.

Secondly, it has

Secondly, it has been found that a serious difference exists between girls and boys in mental capacity. This is so great that it may lead eventually to the abandonment of the education of the two sexes in common.

Thirdly, Professor Lombroso's theory that the perfect man physically is more likely to be the perfect man morally than is the man who is not perfect, has been substantiated. The prize-fighter and the professional athlete will immediately come to mind in refutation of two of these statements—that concerning dependence of mental development upon physical development and the dependence of mental development upon physical development and the green of this class will show that they are not perfect physically; that it, that they are not normal. It will show that in nine cases out of 10, and, indeed, in 99 cases out of a hundred, the physical development of such persons is abnormal. Perfection, to the mind of the scientist, means absolute normality. Certain qualities of the body of the prize-fighter have been developed at the expense of certain other qualities. There are certain things about their physical make-up which are as distinctly below the average as the muscles with which they fight and for which they especially train are above the average. If James Corbett or Robert Fitzsimmons, the puglists, were put through the average as the muscles with which they fight and for which they especially train are above the average. If James Corbett or Robert Fitzsimmons, the puglists, were put through the average as the muscles with which they fight and for which they especially train are above the average. If James Corbett or Robert Fitzsimmons, the puglists, were put through the average as the muscles with which they fight and for which they especially train are above the average. If James Corbett or Robert Fitzsimmons, the puglists, were put through the average as the muscles with which they fight and for which they especially train are above the average. If James Corbett or Robert Fitzsimmons, the puglists, wer

Won His Way.

At Cornell university there is a young fellow with remarkable grit. To begin with, he had \$110. Of this sum he paid \$100 for tuition, and the remainder for books. He found a place where he could get his board for waiting upon the table. He succeeded in getting a room by tending a furnace in the house. He has gone right along with his studies, without incurring debt. The future must hold a bright place for such a young manand he is not alone in one college.—Success.

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Check That Ugly Cough With Hoxsie's Croup Cure. Mailed on receip of 50 cents. A. P. Hoxsie, Buffalo, N. Y.

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own meadows.

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Nothing so good as Garfield Headache Powders for headaches and nervousness; they cure quickly and do not harm. Send to Garfield Tea Co., Brooklyn, N. X., for samples.

The branches of the Mississippi River have an aggregate length of 15,000 miles.

Lamsure Piso's Cure for Consumption saved I am sure Piso's Cure for Consumption saved my life three years ago.—Mus. Thomas Bon-bins, Maple St., Norwich, N.Y., Feb. 17, 1900.

Before the discovery of sugar, drinks were sweetened with honey.



COME AND GO

Rheumatism Neuralgia Lumbago Sciatica

make up a large part of human suffering. They come suddenly, but they go promptly by the use of

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Just try a package of LION COFFEE and you will understand the reason of its popularity.

popularity. **LION COFFEE** is now used in millions of homes.

"LAYING DOWN THE LAW."

THE poet writes his simple lay,
The builder lays bricks by the day,
The carpet man lays carpets too,
So all are "laymen," good and true.
The hen lays eggs for all mankind,
Which daily in their nests we find.
But the funniest sight we ever saw,
Was Paddy "laying down the law."
Bet beset has dealy a laying down the law."

Was Paddy "laying down the law."
Pat boasted to a friendly "Cop,"
Who often visited his shop,
That he'd a lion tamer been—
The fiercest lions ever seen—
And claimed in manner rather fresh,
That he'd oft eaten lion's flesh.
The officer joined in to say
That he' drank" Lion every day.
"What's that ye say 3" then Paddy cried,
"Ve spalpeen; shure Oi think ye lied."
The cop said "you're too fresh I think,
It's LION COFFEE that I drink—
It's pure and strong, and healthy too,
And helps a man his work to do.
I take a cup or two to meet And helps a man his work to d I take a cup or two to meet The trials of my weary beat!"

The trais of my weary beat:

The last word just seemed to suggest
A thought to Pat; he did the rest.
His fist flew out, the cop fell down,
While Paddy's face assumed a frown.
'Ye fooled me, did yez!" he exclaimed
As still another blow he aimed.
'I hope yez will excuse me paw—
'Tis fond of "laying down the law!"

In every package of LION COFFEE you will find a fully illustrated and descriptive list. No he fact, no woman, man, boy or girl will fail to find in the list some article which will contribute to the comfort and convenience, and which they may have by simply cutting out a certain number of Lic the wrappers of our one pound sealed packages (which is the only form in which this excellent coffee



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