Electric Shock Displaces Cells Of Brain Nerves, Tests Disclose

Baltimore.—Displacement and alteration of the nuclei of the nerve cells in the lower part of the brain that controls body functioning as the result of electric shock, so that they are not able to perform their duties in regulating heart pulse and breathing, is the subject of a recent research reported to the American Medical Association by Dr. O. R. Langworthy, of this city. This explains, as Dr. Langworthy points out, why the first effect of severe electric shock is to stop breathing and to lower the pulse to a feeble count.

The researches were made on small parts of the nerve and brain tissues of two men who were killed by electric shock. One of them was electrocuted as a criminal and the other committed suicide. In both cases the nerve cells of the medulla, that portion of the brain between the cerebrium and the spinal column, showed visible damage under a sensitive microscope.

In each case the darker central parts of the cells were found to have been forced out of position and changed somewhat in character, so that they absorbed more of the dyes used to make them visible when prepared on a side. Some of the other component parts of the cells were likewise disorganized or damaged.

The electric current entered between the left arm and the left leg in the case of the man who committed suicide, and the electricity did not, therefore, pass through the brain. But the cells of the brain were injured in the same manner as the cells in the criminal's brain, which was subjected directly to the electric current. This seems to suggest that the nerve cells of the medulla are in some way sensitive to electric shock received in other parts of the nervous system, and can be damaged by surges of abnormal nerve impulses traveling from the affected arc to the brain as the normal nerve impulses do.

Eat More Seaweed The Plant of Life

The increasing prevalence of the condition called goitre is causing alarm n scientific crcle. In numerous alarm in scientific circles. In numerous instances it assumes most distressing

It attacks all kinds of farm animals. Pigs are born dead. Calves, lambs, kids, and foals come into the world poor and weak. Commonly they have enlarged necks; in calves the trouble is called "big neck." Chickens suffer from the same complaint, and the laying power of hens is much reduced.

Farmers' losses due to goitre have been enormous. The cause until recently was a mystery. Now it is known that the lack of iodine is accountable for the mischief.

Goitre is a disease of the thyroid gland, one of the important ductless glands in the throat, and is due to lack of iodine. The gland becomes greatly enlarged, and presses upon the windpipe, interfering with breathing. Wherever it most afflicts farm animals, there also does it most commonly attack human beings.

An eminent medical authority says: "The thyroid gland is to the body of man or animal what the draught is to the fire. Nay, more; its iodine is the match that kindles the fire."

For iodine, taken into the body with food, is stored in the thyroid gland. It is there held as a reserve, to be drawn upon only when the body requires more iodine than is supplied by the diet. Health depends largely upon this apparently insignificant store.

The throat gland, in human beings, sometimes become enlarged to such an extent as to form a huge swelling at the base of the neck. But there are plenty of people with small goitrous swelling who fail to notice them particularly.

DOWN ON THE FARM

To farmers the discovery of a successful iodine treatment for animals is of utmost importance. It works with certainty, the stuff being given medicinally in the form of sodium iodide of potash. Dissolved in water, one ounce to the gallon, a tablespoonful is administered daily to the cow, the sow, the ewe, or the mare during the gestation period. The same dose for all. For mares and cows it is sprinkled on the food.

The treatment has proved no less successful with chickens. Pullets dosed with iodide lay more eggs, and their useful life is extended by one or two years. The yield of pullets went up from 107 eggs to 178, and the aggregate egg production of twelve birds went up in three months from 139 eggs to 263. Cows yield more milk, and bring profit for a much longer period.

Ewes supplied with iodine have more young lambs. Pigs gain weight faster. Calves reach marketable condition sooner. Lambkins, piglings, and calves require less food to show a given increase in weight.

In a word, iodine makes farming pay much better; and the stuff, in the form of iodides, is inexpensive. Dairy cows are by this means quickly cured of goitre.

But the main problem has to do with human beings. At the same time, experiments with the iodine treatment of human beings offer lessons to breeders and owners of livestock.

FOOD VALUES.

For the source of iodine supply, man must look to the sea. To extract it from the waters of the ocean s not practicable; but that is unnecessary, because certain marine plants, particularly the "kelps," attend to that business, collecting the precious chemical and storing it in their tissues. All that needs to be done is to gather these plants and separate the iodine from them. The commercial supply of iodine is almost entirely obtained from seaweeds. In some of the latter —particularly the giant kelp, known to science as Macrocystis, meaning "big bulb"—the concentration of iodine is extraordinary. That marine plant, enormous in size, anchored to the sea bottom by a stem hundreds of feet long, with a vast frond of leaves, contains over one-fourth of 1 per cent. of iodine.

Those giant seaweeds are ideal carriers of iodine for human uses. Medicinal extracts made from them are already standardized, and have proved most valuable. But the kelps, vastly abundant, should yield valuable food products. They contain all the worthwhile minerals that the ocean holds in solution, and may be regarded as marine vegetables neglected through ignorance.

The absolute dependence of man and the lower mammals upon iodine is regarded as supporting the theory of science that all animal life has its origin in the ocean. Their remote ancestors having become habituated to the presence of iodine contained in sea water, animals even now cannot get along without it.

BENEFIT TO THE WORLD

The finest fleeces in the world are grown in the Orkneys, where the sheep feed on seaweeds. Salt derived from sea water by evaporation contains much iodine, and its introduction into general use for the table would be a great benefit to the human race. It would also be most benefical for farm animals. Unfortunately, it is expensive; but it could be made comparatively cheap if production were undertaken on a large scale at suitable manufacturing plants along the coast.

Observation has shown that occasional visits to the seashore render people practically immune from goitre Sea spray blown inland iodizes the soil, the plants, and to some extent the air. Marine foods, such as oysters and fish, contain iodine in useful quantities.

Goitre prevails more or less in all parts of the world, and among all peoples. It is worst in Switzerland, where almost 100 per cent. of the inhabitants are affected. Formerly their affliction was attributed to drinking water from melted snows, but now it is known to be due to lack of iodine. Swiss families that can afford the expense spend some weeks annually at the seashore for a cure.

Agony of Neuritis

A Story of Intense Suffering and Relief.

"Do I recommend Dr. Williams' Pink Pills? You may believe I do," says Mr. John H. Jamieson, of Wallaceburg, Ont.

"For five years I suffered day and night from neuritis. The agony was terrible. I lost control of my arm and shoulder and my hand became shriveled. Nothing helped me till I began taking Dr. Williams' Pink Pills. Even then the improvement was slow and I took ten boxes before I was on the way to recovery. After that, though, relief was rapid. My hand gradually filled out; the pain left me and I could sleep in peace. That was two years ago and I have not had a twinge of the trouble since."

Sufferers from neuritis, neuralgia or rheumatism should try the commonsense method of banishing these troubles by enriching the blood and strengthening the nerves with Dr. Williams' Pink Pills. These Pills are sold by all medicine dealers or by mail at 50 cents a box from The Dr. Williams' Medicine Co., Brockville, Ont.

Germany to Use Loudspeaker As Advertising Medium

Berlin—A great engineering firm in Germany is responsible for an invention whose utility has at least two aspects. It is a gigantic loudspeaker, so constructed that a mere whisper into a microphone can overwhelm a whole city with vocal tones of extreme clarity. The vibration of the membranes is so intense that an electric current of 200 watts is used, while hitherto less than 100 watts current was the maximum sound strength. The firm that gave a demonstration of this novelty recently before an invited audience confidently believes that a great advertisting medium will hereby come into operation, as a stationary balloon equipped with the apparatus can dominate the air around it for many miles. That there is a distinctly useful side to the invention no thinking person can deny. Whether, however, the general public will take kindly to the penetrating voice from the clouds remains to be seen, but as "speech time" will certainly be regulated and restricted, it need not be so disturbing as some seem to believe.

Answer Children's Questions

Elsie F. Kartack

The old-fashioned saying, "Children should be seen and not heard," should have passed forever from our present day experiences for a greater understanding of what best promotes a child's growth has displaced the meager insight of former days. A recent experience proved the injustice of trying to hold to that worn-out maxim.

We were having a delightful ride in the country. At my suggestion, we had turned from the much traveled highway to a road seldom used. I was enjoying the wealth of beauty all about me. Ten-year-old Elizabeth was bubbling over with enthusiasm about all the new things she was seeing and her questions came fast. What were those flowers? Could she pick some? What was a silo? What was it used for? Why? Did baby ducks come out of eggs like chickens? Why did the creek run only one way? Could cows swim? Was that why they went into the water? There seemed to be no end to her questions. Her mother became quite impatient and answered her shortly and indifferently. She was intent upon telling me about her new clothes, about a bridge luncheon that she had just given and about Grace Brown's trouble with her husband. As continuous as the stream of questions from the child was the mother's light chatter. I tried to answer some of the child's questions while attending politely to my hostess. Finally, however, in exasperation Elizabeth's mother said, "You must keep still. I want to talk to Miss King and you disturb me."

For a few moments there was silence and then the questions and comments began again until her mother said, "Elizabeth, if you will keep still for half an hour I will give you fifty cents."

To me she said, "That will hold her I think. The silly child has been trying to save enough to buy her father a birthday present and my offer will be an inducement.'"

And indeed the promise of the fifty cents did seem to produce the desired effect. Several times her face lighted up and she almost spoke only to remember in time. Twenty-five minutes pased when suddenly, with her little face all aglow, she burst out, "Oh, Mother, what is that beautiful red bird?"

The mother without turning her head in the direction of the bird, exclaimed, "There, you have lost your fifty cents! You cant' keep still for even half an hour!"

Elizabeths' face fell and her eyes filled with tears.

"Oh, I'm sorry. Now I can't buy Daddy's birthday present, but I did want to know what that bird was."

"That," I answered, "was a scarlet tanager. I have one in my garden. If Mother will let you come over after school to-morrow, perhaps we can see it and I will tell you about it."

And at that moment I decided that I was much in need of a little errand girl for several nights so that Elizabeth might earn the fifty cents for her father's birthday in a reasonable way.

A child's education depends very much upon his awareness of things about him, so his questions regarding things that he sees, hears, smells, tastes and feels should be encouraged and he should be given as correct and careful replies as it is possible to give. —Issued by the National Kindergarten Association, 8 West 40th Street, New York City. These articles are appearing weekly in our columns.

Forgotten Garden

Here marigolds and phlox hold their sway,
And ivy steeped in memory drapes a wall,
Where hollyhocks like dreaming candles tall
Light this lost garden, crumbling and gray.
Phlox, white, like lovely ladies in their day,
Bend swiftly as if answering some call
Where now alone forgotten pansies fall
And faded moonbeams desolately stray.

Clear as are morning trumpets, marigolds
Lift, rapturous, their faces to the sky
Where tones of sweet birds vanish in the folds
Of rhythm's far-forgotten songs and die.
And all the rose-gold swooning hour holds
Echoes the requiem of love's good-bye.
—Alice Hunt Bartlett.

The curate of a country church had preached a charity sermon, and after the service he was told by one of the churchwardens that the collection amounted to £20 5s. 4½d. "Well," said the curate with pardonable pride, "that proves, I think, that my sermon touched them." "No doubt it did, sir," replied the warden, "but the squire put in a £20 lb. note, and he's deaf."

Granting that a king can do no wrong it must be admited that King Carol has been right a great many times in a very peculiar way.

"That was entirely uncalled for," said the pawnbroker as he sold the unclaimed watch.

Have Minard's Liniment on your shelf.

Thoroughbred

He was a thoroughbred, that horse,
He stretched his head out for the bit,
Quivering in every limb. It was restraint
Harassed him and chafed his restless soul,
Breaking his hope in dull monotony.
He was anxious for the saddle and the rein:
Exercise they meant to him ,and action, speed
The one great end of his existence.

Into the saddle sprang the rider. "Let him go!"
He pawed the air a moment. Was he free?
A few mighty leaps to prove it. Then, he bounded to the race,
With the mettle of his noble line of sires,
Stretched his limbs in rhythmic motion,
Vital, joyous, fearless, free!
For him, now, no rest or turning back.
It was speed he craved, and action!
Indeed a thoroughbred, that horse.
—Emeroi Stacy, in the Christian Science Monitor.

Is Baby Teething?

Teething time is a time of worry to most mothers. The baby is nervous; fretful; feverish. His little gums are swollen and sore; diarrhoea, constipation, colic and sometimes convulsions set in—neither baby nor mother can sleep.

These troubles can be quickly banished, however, through the use of Baby's Own Tablets, concerning which Mrs. Louis Grubb, Teeswater, Ont., says:—"I have used the Tablets for all my babies while teething and have found them a splendid medicine."

Baby's Own Tablets are sold by all medicine dealers or by mail at 25 cents a box from The Dr. Williams' Medicine Co., Brockville, Ont.

Milk Wisdom

Milk should be scalded, not boiled. Heat until the surface of the milk quivers. Milk boiled loses most of its goodness.

Before heating milk rinse the saucepan out with water, leaving just enough there to wet the bottom of the pan. This is a great guard against burning.

Milk bottles and jugs are more easily cleansed if rinsed out with cold water first. Milk should never be kept in leaden vessels, nor should it be given to children in metal cups of any kind.

Some people find hot milk indigestible. This may be because they drink it the wrong way. Hot milk should be sipped slowly. For children, milk and water is lighter and more easily digested.

Sour milk need not be wasted. It makes excellent scones, and may be added to a stew with advantage. It may be used as a junket. Last, but not least, remember its beautifying properties; as a skin softener it is unrivalled.

For Blisters — Minard's Liniment.

Our Tattooed Beauties

Tattooing is sometimes resorted to by women in search of beauty. Rosy cheeks and ruby lips are thus acquired while noses of a too vivid hue are toned down.

Sophonisba—"What were the provisions of your uncles' will?" Theophilus—"That I should have all that was left after the payment of his just debts." Sophonisba—"How generous! What did he leave?" Theophilus—"Just debts."

"You people in America have no ancestors." "Oh, yes, we have," answered the man whose daughter is engaged to a duke; "the best that money can buy."

POULTRY
BUTTER & EGGS
Get Our Quotations Before Shipping
LINES LIMITED
St. Lawrence Market, Toronto 2

Nurses know
there's nothing like a hot cup of good tea to soothe people when irritable and restless.
They know its value to themselves, especially when tired and nervous.
And most nurses know that
RED ROSE TEA
"is good tea" 107
TWO QUALITIES -- RED LABEL & ORANGE PEKOE

Western Canada Coal

With the exception of true anthracite, practically every kind of coal is to be found in Alberta and British Columbia. The high grade lignite and sub-bituminous coals of Alberta are designated by the provincial authorities as domestic coal to differentiate them from the ordinary lignites.

And of course the correct thing to do will be to drive out to the miniature golf course in one of the new bantam-size motorcars.

Visitor to Northern Town: "What very changeable weather you get here!" Native: "Changeable, do ye call it, sir? If it 'ad been changeable, we'd 'ave changed it long ago!"

AEROXON
With The Pin
The Honey Fly Catcher
You Must Do Your Bit
in the war against the fly, carrier of germs and breeder of disease.
It is proven that AEROXON is one of the most convenient and most efficient means of combating this fly evil. It is convenient, because of the push-pin. It is hygienic: flies never get away when once caught. Each spiral gives three weeks' perfect service.
BEWARE OF IMITATIONS
Sold at drug, grocery and hardware stores
La Cie C. O. Genest & Fils, Limitée
SHERBROOKE, QUE.
SOLE AGENTS

HER FAT IS MELTING FAST AWAY

All over the world Kruschen Salts is appealing to girls and women who strive for an attractive, free-from-fat figure that cannot fail to win admiration.

Here's the recipe that banishes fat and brings into blossom all the natural attractiveness that every woman possesses.

Every morning take one-half teaspoon of Kruschen Salts in a glass of hot water before breakfast.

Be sure and do this every morning for "It's the daily dose that takes off the fat." Don't miss a morning.

Kruschen daily means that every particle of poisonous waste matter and harmful acids and gases are expelled from the system.

At the same time the stomach, liver, kidneys and bowels are toned up and the pure, fresh blood containing Nature's six life-giving salts is carried to every organ, gland, nerve and fibre of the body, and this is followed by "that Kruschen feeling" of energetic health and activity that is reflected in bright eyes, clear skin, cheerful vivacity and charming figure.

Classified Advertising

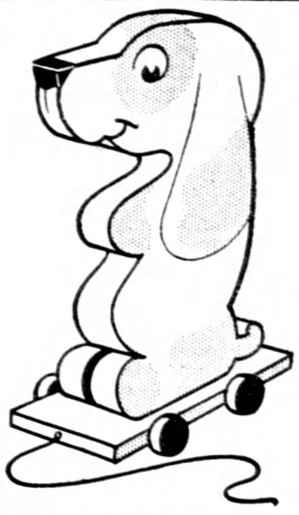
FOR SALE

A SEA SLED FOR SALE, MODEL 16, with new 22 H.P. Evinrude motor, all in perfect condition, very fast, absolutely safe, splendid fishing boat, has special sedan top; owner getting larger model. Now located on Georgian Bay. Wilson Publishing Co., 73 Adelaide W., Toronto, Box 27

With the exception of one cottage, the entire village of Fenwick, England, was sold at auction recently.

If Mahatma Gandhi were an American, he would send his picture with one pound of salt for one dollar.

The Handy Bottle
Minard's is the sure relief in the Handy Bottle. For strains, burns, bruises, boils and blisters.
MINARD'S "KING OF PAIN" LINIMENT



WHEN CHILDREN FRET

THERE are times when a child is too fretful or feverish to be sung to sleep. There are some pains a mother cannot pat away. But there's quick comfort in Castoria!

For diarrhea, and other infantile ills, give this pure vegetable preparation. Whenever coated tongues tell of constipation; whenever there's any sign of sluggishness. Castoria has a good taste; children love to take it. Buy the genuine—with Chas. H. Fletcher's signature on wrapper.

Fletcher's CASTORIA

Sour Stomach

Just a tasteless dose of Phillips' Milk of Magnesia in water. That is an alkali, effective, yet harmless. It has been the standard antacid for 50 years among physicians everywhere. One spoonful will neutralize at once many times its volume in acid. It is the right way, the quick, pleasant and efficient way to kill the excess acid. The stomach becomes sweet, the pain departs. You are happy again in five minutes.

Don't depend on crude methods. Employ the best way yet evolved in all the years of searching. That is Phillips' Milk of Magnesia.

Be sure to get the genuine Phillips' Milk of Magnesia prescribed by physicians for 50 years in correcting excess acids. Each bottle contains full direction—any drugstore.

TWICE BENEFITED BY SAME REMEDY

Recommends Lydia E. Pinkham's Vegetable Compound

Cobourg, Ontario—"Years ago when I had a sick father and a nursing baby to care for, I got all run down and I took Lydia E. Pinkham's Vegetable Compound to get strength to do my work. Another time at Change of Life, I had severe headaches and felt tired all the time. I took seven bottles of the Vegetable Compound and felt like a new woman. I recommend it to any woman who is at the age when she needs building up." —Mrs. T. E. Sleeman, R.R. 4, Cobourg, Ontario.