

# MC2465 POOR DOCUMENT

## Stovaine, the new Anaesthetic

The cable reports from London of the success of the new anaesthetic, stovaine, as used by Dr. Jonnesco, Dean of the Medical Faculty of the University of Bucharest, have been followed by his visit to this country, where he has already demonstrated to the satisfaction of the leaders of the medical profession that, by means of the new method, it is now possible to perform the most serious surgical operations without the use of either ether or chloroform.

There are two advantages claimed for the new method over the old one. First, it is not followed by the discomforting after-effects that invariably result from the taking of ether or chloroform, and, second, it can be used in cases where it would be extremely dangerous to employ either of the two anaesthetics hitherto used.

Professor Jonnesco's discovery consists simply of this: that by injecting a solution of the drug stovaine, combined with strychnine, into the spinal column, the body, or at least all that portion of it below the point of injection, is rendered absolutely insensible to pain, the patient meanwhile retaining complete consciousness.

It must not be imagined that the advantage of this new method lies in the fact that the patient does not lose consciousness. On the contrary, that is purely a coincidence. On the other hand, the fact that ether and chloroform render a patient unconscious has never been considered a disadvantage. It is the feeling of nausea which disturbs a patient for twenty-four hours or more after he has taken either of those drugs, and the danger involved in administering either of them to a person suffering from a weak heart, that has made a substitute for them welcome to the medical profession, and has made Dr. Jonnesco's claims particularly interesting.

Another point upon which there has been a good deal of misapprehension is this: That Dr. Jonnesco is the discoverer of either spinal anaesthesia or stovaine.

Spinal anaesthesia or the process of rendering the body insensible to pain by injecting a drug directly into the spinal column, was discovered by an American neurologist, Dr. J. Leonard Corning of New York, in 1885, when he used cocaine in his work, and the drug stovaine, which is only a modification of cocaine, was discovered by a Frenchman named Fourneau in 1904. What Dr. Jonnesco did discover was that the dangerous features connected with the use of cocaine and its modifications in producing spinal anaesthesia, which will be hereafter referred to, could be eliminated by combining it with strychnine, and that when used in that way it was superior to ether or chloroform.

The trouble with spinal anaesthesia when affected by means of cocaine or any of its modifications, such as tropococaine, novococaine and stovaine, was that it could be relied upon with safety only for operations below the level of the heart. It was found that if the drug was injected in such a way as to render the upper portion of the body in a condition to be operated upon, its effect was to paralyze the motor nerves as well as the sensory nerves and to interfere with the muscles used in breathing.

Because of this defect in the method the use of stovaine and similar drugs as a substitute for the older anaesthetics which produced complete anaesthesia was limited, and surgeons all over the world were trying to solve the problem of how to paralyze the body so as to permit of operation without at the same time affecting the organs of respiration. Two years ago Dr. Jonnesco tried a combination of strychnine and stovaine, and the success which attended his experiments has resulted in the present revival of the claims of spinal anaesthesia.

Strychnine is a stimulant. Its effect in combination with stovaine is to neutralize the deadening effects of the latter drug upon the heart and respiratory nerves and to keep them normal.

It is a fact that the two drugs in combination possess qualities that neither, by itself, has. Why this is so, is not known. Why this is so, is not known.

so the scientists do not yet know. But they do know that it is safe.

The effect of the spinal injection of the drug upon the rest of the system is due to the fact that the spinal cord is the great nerve trunk line of the body. Deadening the trunk line and you affect the whole nervous system. While the stovaine is injected into the spinal column, the needle does not penetrate the cord itself. The cord, proper, which is protected by the vertebrae, is surrounded by a fluid which is contained within the membrane in which the cord is held.

The needle pierces the back, is inserted between two of the vertebrae—the back being bent forward so as to enlarge the opening between them as much as possible—and enters the spinal membrane, but that is as far as it goes. It does not touch the cord.

The stovaine is passed through the needle, mixes with the spinal fluid, and is then absorbed by the spinal cord itself. In a few seconds all of the body below the point of injection and a portion above it have felt the effect of the drug, and needles may be pierced through any portion of the body affected, or strong currents of electricity be applied without the patient feeling any effects whatever.

Before Dr. Jonnesco discovered the combination of stovaine and strychnine the practice was to inject the drug between the last dorsal and the first lumbar vertebrae, which are situated in the lower region of the back, but now that it has been demonstrated that the new method can be used without affecting the muscles of breathing, injections are made anywhere from the base of the spine to the nape of the neck, depending largely upon the particular region to be operated on.

Dr. Jonnesco has now performed practically every operation that has ever been done under ether or chloroform. Owing to the advantages of his method patients have undergone operations which it would have been extremely dangerous to have performed under the old methods because of the injurious effect which both ether and chloroform exert on a weak heart.

It is true that in a number of the cases in which Dr. Jonnesco recently demonstrated the virtues of stovaine the patients were rendered more or less paucated, but in the majority of cases there was no nausea at all, while in no case was there anything like the discomfort invariably following the administration of ether or chloroform, which lasts for twenty-four hours or more after the operation.

Unless, therefore, the percentage of mortality resulting from the use of stovaine should eventually prove to be greatly in excess of that following the use of ether and chloroform, it seems as though the new method may ultimately displace the one which has served humanity so long and so well. Just what an operation by Dr. Jonnesco means to a patient in terms of sensations is told by one who has undergone it.

### Topics in Brief

Dr. Cook says he found Philadelphia wide awake. He's a real discoverer.—Los Angeles Express.

Did President Diaz ask President Taft for his views on the third-term question?—New York Tribune.

The President naturally drew large crowds in Texas, as a Republican in that State is a great curiosity.—Indianapolis Star.

If the bull elephant that charged Colonel Roosevelt had been on octopus it would have known better.—Pittsburg Gazette Times.

President Taft will find a knowledge of the round up useful in returning insurgents to the G. O. P. ranch.—Washington Post.

Mr. Crane has discovered that there is an open door in the diplomatic department as well as in Manchuria.—St. Paul Dispatch.

Lady Cook, formerly Tennessee Clavin, has arrived in New York to boost the suffrage movement. Lady Cook, true to her name, wants to see that even women can reach the polls.—Houston Post.

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## THE GRANITE TOWN GREETINGS

### Professional Cards

**Henry I. Taylor,**  
M. D. C. M.  
Physician and Surgeon,  
[ST. GEORGE, N. B.]

**C. C. Alexander,**  
M. D., C. M., McGill.  
Physician and Surgeon,  
Residence: Goss House,

**DR. E. M. WILSON**  
DENTIST  
Will be in St. George the third week of every month

**N. MARKS MILLS, LL.B.**  
BARRISTER AT LAW,  
ST. STEPHEN, N. B.

**J. H. NESBITT & SON**  
Contractors and Builders  
ESTIMATES FURNISHED  
Address: St. Stephen, N. B.

**Drug Store**  
when in Eastport  
We carry everything usually found at a first class pharmacy

**PALMER BROS**  
**HOTELS**

**Victoria Hotel,**  
King Street,  
St. John, N. B.  
AMERICAN PLAN.  
Victoria Hotel Co., Ltd., Proprietors.

**Boyd's Hotel,**  
ST. GEORGE, N. B.  
First-Class Livery and Sample Rooms in Connection.

**Heart Strength**  
Heart strength, or Heart weakness, means nerve strength, or nerve weakness—nothing more. For when the heart is a pump, it is not so much a pump as it is a pump. It is not so much a pump as it is a pump. It is not so much a pump as it is a pump.

**Dr. Shoop's Restorative**  
"ALL DEALERS"  
How's This?  
Catarrh cannot be cured with local applications, as they cannot reach the seat of the disease. Catarrh is a blood or constitutional disease, and in order to cure it you must take internal remedies. Dr. Shoop's Restorative is the perfect combination of the two ingredients in what produces such wonderful results in curing Catarrh.

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### TIME TABLE

The Only  
**All Canadian Route**  
TO  
**Quebec and Montreal**  
is via the

**INTERCOLONIAL RAILWAY**  
**Maritime Express**

Leaves St. John 18.30  
Arrives Montreal 18.30

**New Brunswick Southern Railway.**  
TIME TABLE No. 33.  
In effect October 3rd, 1909  
Atlantic Time

Trains West	Trains East
Read Down Stations	Read Up
Train No. 1	Train No. 2
Leave A.M.	Arr. P.M.
7.30 St. John East Ferry	6.30
7.45 St. John West	6.15
7.59 Duck Cove	6.15
8.13 Spruce Lake	5.55
8.27 Allan Cot	5.54
8.41 Prince of Wales	5.38
8.55 Musquash	5.25
9.10 Leptaux	4.58
9.24 New River	4.35
9.35 Pocologan	4.17
9.55 Pennfield	4.00
10.30 St. George	3.30
10.52 Bonny River	3.10
11.22 Dyer's	2.45
11.35 Cassell's	2.37
11.45 Brunswick Junction	2.20
12.12 Oak Bay	2.03
12.30 St. Stephen	1.45
Arr. Noon	Leave P.M.

Trains run daily, Sunday excepted.  
Ticket, Baggage and Freight Offices, St. John West  
Railroad connections West with Canadian Pacific and Washington Co. Railways.  
East with Canadian Pacific, Intercolonial & Dominion Atlantic Rys.  
HUGH H. McLEAN, President  
St. John, N. B., Dec. 1908

**Deer Island and Campobello Service**  
**Stmr. "Viking"**

June to September, 1909  
Mondays: Leave Back Bay for St. Stephen 7.30 a.m.  
Tuesdays: Leave St. Stephen for Lettite.  
Thursdays: Leave St. Andrews for Lettite direct 7.30 a.m.  
Thursdays: Leave Lettite for St. Stephen, 8.30 a.m.  
Thursdays: Leave St. Stephen for Back Bay.  
Wednesdays: Leave Back Bay or Lettite for St. Stephen, 6.00 a.m., returning same day.  
On Saturdays will run to and from Lettite during June and August, to and from Back Bay during July and September.

Touching on all trips at Lord's Cove, Richardson, Leonardville, Wilson's Beach, Welchpool, Eastport, Indian Island, Fair Haven and St. Andrews.  
ATLANTIC TIME  
F. E. ROSE, Manager

**EASTERN S. S. CO.**  
St. John to Boston

City Ticket Office, 47 King Street.  
Coastwise Service—Leaves St. John at 8.00 a.m. Monday, Wednesday and Friday for Eastport, Lubec, Portland and Boston.  
L. R. THOMPSON, T. F. & P. A.  
WM. G. LER, Agent, St. John, N. B.

### Five Senses at the Economy Store

Common Sense—We buy as low as we can.  
That's business sense  
You buy as low as you can, that's Progressive sense.  
You buy of us, that's dollars and cents for both of us

We have everything you can expect to find in a first-class general store. Our goods are of excellent quality and our prices as low as the lowest.  
DRY GOODS, dress goods, prints, muslins, flannels, hats and caps, boots and shoes.  
HARDWARE of all kinds, staple and fancy. Groceries, Coal.  
We Pay the Highest Price for Country Produce. Give us Your Patronage and we will treat you right.

**ANDREW MCGEE** - **Back Bay**

**COME ALONG**  
now to the new store in the YoungBlock

**FRUIT, CANNED GOODS, CONFECTION-ERY and SOFT DRINKS** always on hand  
**ALL POPULAR BRANDS CIGARS and TOBACCO**  
GIVE US A CALL  
**FRANK MURPHY**

**When in Eastport**  
**Visit Martin's Variety Store**

Gasolene 15c. a gallon.  
Kerosene 11c. a gallon.  
Gas Engine Oil 50c. a gallon.  
Martin keeps everything in Motor boat supplies.

All kinds of jobbing and stove repairing done at short notice.  
**Our Groceries are sold at rock bottom prices**

**E. S. MARTIN & SON**  
73 WATER STREET, EASTPORT, ME.

**Special Christmas Announcement**  
EVERYTHING TO MAKE THE XMAS SEASON OF 1909 A MEMORABLE ONE

Fruits of all kinds, Confectionery of all kinds, Nuts of all kinds. Spices, Essences, Mince Meats, Raisins, Currants, Cranberries, etc., at special Christmas prices.

**Gifts! Gifts!**  
of all kinds for all people  
Up-to-date clothing of all kinds. Fur lined Overcoats are our Specialty, and we are showing some great values in this line.

**Apples Apples Apples**  
All the leading varieties of keeping Apples in stock at bottom prices.

**Give us a Call**  
**Connors Bros., Ltd.**  
BLACK'S HARBOR, N. B.

**GLENWOOD RANGES**  
Make Cooking Easy

How It Feels at work on the knife and ye

Who Was Operated

I was already a patient, pretty well recovered from a small operation, when I was called to the hospital and it would be safer operated on at once. I was a good deal up and down, but I was not really in pain. I was not really in pain. I was not really in pain.

So I said, "All right. When are you going to have it done?" "It had better be done," he said. "I had better be done," he said. "I had better be done," he said.

When are you going to have it done? "It had better be done," he said. "I had better be done," he said. "I had better be done," he said.

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