

Fall Colds

QUICKLY YIELD TO DR. HICKEY'S TREATMENT
 Dr. Hickey's Speedy Mixture stops a Cough in a few doses.
 Dr. Hickey's Cold Capsules dry up the head cold over night.
 Dr. Hickey's Chest Rub quickly removes the congestion and draws out the pain.
 This combination is the best obtainable.

25c each

L.T. Best
 Druggist

FOR SALE

- \$1600—Frame Bungalow, 5 rooms, toilet, electric lights. Lot 33x115.
- \$1500—Frame, Portsmouth, 7 rooms, electric lights.
- \$2000—4 rooms, toilet and electricity. Several to choose from.
- \$2500—Frame, 7 rooms, 2 p. bath, furnace; nice location; stable and garage; electricity.
- \$2700—For 2 stone Cottages. A Snap for quick buyer.
- \$3000—Stone, 10 rooms, hot water heat, electric light, h.w. floors throughout; a beautiful home.

Bateman's
 Real Estate
 136 Wellington St.

We are offering at a discount of

33 1/3%

from the regular price—

Three Beautiful Cabinet Models

STARR
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THE STARR

is a machine surpassed by no other in tone, workmanship and finish all through.

At the above discount, a splendid opportunity is presented to obtain, very reasonably, a beautiful Christmas gift for the home.



CHILD'S STORY OF THE HUMAN RACE

By Uncle Ray

Carriages in Frankland. In the time of Charles the Great, there were several kinds of families in Frankland. There were Gauls, native to the country. Others were Romans, who had conquered the Gauls. Still others were Franks who had won power over both. Then of course there were mixed families—Gauls married to Romans, Franks to Gauls, Romans to Franks.



A two-wheeled carriage in Frankland more than a thousand years old.

I am speaking of this now to explain a difference of opinion about carriages.

The Romans and Gauls were in the habit of using carriages very often before the Franks came. The

Franks were Germans, hard and rough from their life in the wilds. They liked to ride on horseback, but thought it a disgrace for a man to ride in a "pleasure-carriage."

So it was that disputes arose as to whether carriages should be used. In the end carriages went out of fashion for men. Women, on the other hand, kept up their use.

Our picture shows a woman being driven in a two-wheeled carriage. This picture was made more than a thousand years ago. The woman was probably the wife of some noble. The driver holds an odd-looking whip.

Some carriages were four-wheeled. Mules and oxen were driven as well as horses.

INSULIN LABORATORY AT TORONTO UNIVERSITY

Description of Manufacture and Distribution of Dr. Banting's Diabetes Cure.

Toronto, Nov. 21.—Tucked away in an obscure corner of the University of Toronto grounds, overshadowed by the new Electrical Engineering Building and flanked by a row of venerable elms, stands a two-storey, red brick building formerly occupied by the University Y.M.C.A. A year or two ago it was planned to remove the building as it was not suitable for any university purpose. To-day, housing, as it does, the only "Insulin Laboratory" in Canada, the building, together with the recently installed equipment, is worth upwards of \$35,000.

The Insulin Laboratory is one of the latest chapters in the romance of insulin. It stands as a confirmation of the success of the research of Dr. F. G. Banting and his fellow-investigator, Charles H. Best, M.A. Its management and operation are in the hands of Mr. Best, who has from the beginning been in charge of the large-scale production of insulin. The laboratory is operated as a division of the Connaught Anti-Toxin Laboratories, of which Dr. J. G. Fitzgerald is director and Dr. R. D. DeBries associate director. The business administration is in charge of Dr. Fitzgerald and Dr. DeBries. Mr. Best is assisted in the new laboratories by D. A. Scott, M.A., as assistant director, and a staff of 26 persons working day and night shifts.

The erection of such a completely equipped plant was made possible through the Ontario government's grant of \$25,000, the remaining \$10,000 to \$15,000 being secured from funds of the laboratory and from private donations. The plant is now producing in the neighborhood of 250,000 units a week for distribution throughout Canada, Ireland, South Africa, Central and South America, New Zealand, Australia, and other countries where plants have not been established. The average dosage for the diabetic patients for whom such a large quantity of insulin is being prepared varies from 15 to 20 units a day.

The price for which insulin is distributed is, as with other products of the Connaught Laboratories, governed entirely by costs of material and of production. The Connaught Laboratories are not engaged in commercial business but constitute a department of the University of Toronto. Mr. Best has called attention to the gradual fall in the price of insulin. In May, 1923, the material was sold at 5 cents per unit, in June at 3 cents and now at 2 cents per unit.

The distribution of insulin is effected through two channels. The first is hospitals which have organized departments for the administration of insulin. The second is through physicians trained in the use of insulin. For these latter a special short course of instruction was provided at the University of Toronto last July under the direction of Professor Duncan Graham.

The preliminary stages in the preparation of the health-giving extract are conducted in a large laboratory in the north-east corner of the insulin building where beef and pork pancreases (sweetbreads) fresh from the abattoirs, are first minced in a large meat grinder, dissolved in vats of alcohol, and then placed in a large basket centrifuge. The liquid is drawn off from the centrifuge and further clarified by filtra-

tion through paper in glass funnels. This liquid, containing the soluble constituents of the pancreas, is reduced to a small volume by evaporation of the alcohol and water content in a large vacuum still. The residue contains the insulin. The solution is purified in two chemical laboratories, one on the main floor and one on the second floor, by chemical processes known as "fractional precipitations." The purified product is then sterilized, standardized, and filled into vials for distribution by the Connaught Laboratories.

But the equipment of the Insulin Laboratory embraces more than the mere processes necessary to produce the serum. A distilling room on the main floor contains a large rectifying still, vacuum pumps and condensers by which the used alcohol is reclaimed. An oil burning furnace in the basement supplies steam for the vacuum still and a refrigeration machine cools the alcohol condenser and manufactures cakes of ice for small refrigerators. A large electric fan is kept running continuously to ventilate the laboratories and clear the air of alcohol fumes.

On the second floor, in addition to the purification laboratory there is a laboratory in which two chemists are employed on research work in connection with insulin. Clean, well-ventilated rooms are provided for the animals used and a small operating room is near at hand.

The preparation of insulin is controlled by patents applied for in various countries of the world by the original investigators. These patents have been assigned to the University of Toronto and a committee, appointed by the Board of Governors, is responsible for the administration of patent and other rights and for the promotion of efficient production and distribution of insulin in all countries of the world. The original investigators, Drs. Banting and Best, receive no financial benefit from the patent but desired to prevent the filing of other patents which might restrict the preparation of insulin. In Great Britain complete patent rights have been assigned to the British Medical Research Council and in the United States an Indianapolis company has been licensed by the University of Toronto to manufacture insulin. The licensing of other firms in the United States is at present under consideration. Rights in all countries except Great Britain have been retained by the University of Toronto. The patents for the insulin have been obtained largely through the efforts of C. H. Riches, a patent lawyer of Toronto, who has given his services to the university without charge.

The British Fascist Explains Its Objects

London, Nov. 21.—The British Fascist organization, which is now said to be well established, has chosen a uniform differing from that of the Italian Black Shirts. Members on ceremonial occasions will wear a black badge surmounted by a large white F. In order to correct public misconception regarding it, the organization has issued an explanatory leaflet stating it is purely a patriotic movement for protection of King and Empire. "We are not a swastika-bearing concern," it says, "nor Ku Klux Klan, nor any form of terrorism, nor even a class movement."

Baron Garvagh is said to be the Mussolini of the British Fascist.

Lloyd George makes the point that by free trade Britain financed the war. Protection countries had to receive help.

PROBS:—Friday, easterly winds, partly cloudy and cool.

FRIDAY!

Steacy's Great Weekly Bargain Day

To-morrow is one of the most important sale days of the year—a day of phenomenal value-giving. Herein are enumerated a list of special attractions that should crowd this great shopping centre from 9 until 5.30 o'clock.

FROM 9 TO 11 O'CLOCK

Triple Discount Stamps

You Save 15%

Shop early and take full advantage of this special offer. 85c. has the purchasing power of \$1.00 on all regular cash purchases—by shopping early in the day.

A STORE-WIDE REMNANT SALE

FRIDAY AND SATURDAY

This great Semi-annual Sale offers a host of wonderful bargain opportunities.

You Save From 33-1-3 to 50%!

On all remnants in all the different piece goods sections of this store.

Dress Goods	Flannelettes	Ribbons
Suitings	Pillow Cottons	Cretonne
Silks	Sheetings	Chintz
Linings	Wash Goods	Net
Cottons	Linens	Madras
Prints	Laces	Art Sateen
Ginghams	Trimmings	Etc., etc.

GRAND OPENING of our

GROTTO TOYLAND

To-morrow marks the formal opening of Toyville—and we take this opportunity of inviting our many friends—big and small, to pay us a visit and see the wonderful collection of Toys, Dolls, Books, Games, etc., that Santa Claus has forwarded by aeroplane for our opening day—Friday—in our Basement Toyland.

MID-SEASON CLEARANCE

MILLINERY

FRIDAY and SATURDAY

50 only, imported French and New York model Hats — in Panne Velvet, Duvetyn, Felt and Suedine.

The shapes are Turbans, Tricorne, Pokes and Cloches. The colors are Black, Brown, Oakwood, Nu-Blue, Navy, Grey and Fuschia — smartly embroidered and trimmed with Braid, Soutache and Chenille. Priced from \$7.50 to \$30.00 each—re-priced to half of regular —

\$3.75 to \$15.00 each

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"Kingston's Shopping Centre"

The Supreme Electric Range

McClary's two exclusive features, the TOR-RED PROTECTED PORCELAIN ELEMENT AND THE PERFECTLY INSULATED ROUND CORNERED SEAMLESS ENAMELED OVEN, place McClary's Electric Ranges at the peak of Electric Ranges. On sale at

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New Chesterfield Suites

Our stock is very complete. We have on our floors a very large and well assorted stock of Chesterfield Suites, in Tapestry, Figured and Plain Mohairs and Velours, in all the new shades.

NEW SUITES are arriving each week. WILTONS, all grades, shades and sizes, from the cheaper and medium qualities up to the very fine French Wiltons.

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