

IONIC MEDICAMENTS.

Application of the Ionic Principle in Medical Practice.

The introduction of medicaments into the human body in the form of "ions," first applied by Leduc of Nantes in 1902, has rapidly gained ground in medical practice, and many applications of the principle are now in use. It is well known that when a current of electricity is passed through a solution of a chemical salt the latter becomes decomposed or electrolyzed, the base, as a rule, going to the negative pole and the radical to the positive pole. This is accounted for by the theory that the molecules exist as ions, or electrified particles of matter, those of the base and radical carrying respectively their negative and positive charge of electricity. These ions are dissociated by the electric current, which appropriates them to the corresponding complementary poles of the circuit.

Advantage is taken of this principle to force medicinal substances in the ionic state into the tissues of the body. If a solution of, say, quinine sulphate be used to soak a pad covering the positive pole of a battery, this pole applied to the skin, and the negative pole so arranged that the current may pass through the tissues, the quinine ions will seek the opposite pole, and in so doing will pass through the tissues with the current. The ions thus forced into the body enter not only into the lymph spaces, but into the cells themselves, becoming a part of the protoplasm, and consequently their effects are much more pronounced. The principle may be shown experimentally by placing a piece of raw beef between the poles of a battery, the negative electrode being covered with blotting paper soaked in a solution of potassium iodide, and the positive electrode similarly treated with starch solution. On applying the current the iodine ions pass through the beef to the positive pole, the paper on which soon shows the blue color of starch iodide.—Scientific American.

Placing the Unemployed.

An army of unemployed is nothing new in Europe and Great Britain, France and Germany have furnished valuable experience in the management of temporary relief. In their treatment of the problem European countries recognize three classes of the unemployed—the unemployable, the hopeless vagrant and incorrigible and the employable. For the employable employment bureaus have been established, Germany maintaining over 100 of these offices. Over 500,000 persons are placed in situations every year by the German bureaus. In France all towns of 10,000 inhabitants or over are compelled to maintain public employment bureaus.—Philadelphia Press.

Blanketing the Auto.

This is the season of the year when the automobiles that are standing any length of time in the open air have blankets put over the bonnets in order to keep the wind out. When it gets very cold it is hard to keep the water system in proper circulation if too much cold air is allowed to blow directly on the engine. Therefore the radiator and the bonnet are covered over and the machine is kept comfortable.

It gives the cars a sort of horsy look that is not at all natural.—New York Sun.

Slaughter of Pheasants in Oregon.

In the cars on the Southern Pacific have been hanging big strings of China pheasants that Portland sports took home with them.

They never miss, and judging from the size of the majority of the birds on the strings they even slaughter the little bits of hens that could crawl through a two inch knothole. This may be sportsmanship in their eyes but it looks as if they were determined to exterminate the pheasants. They will be getting to sparrows next.—Woodburn Independent.

A TWELVE-FOOT BEAR.

Shooting a Brown Grizzly in the Alaskan Snowfields.

In Everybody's Rex Beach tells this incident of his adventurous "Chromatic Bear Hunt" in Alaska: "As I dashed across a snow-field I saw our guide suddenly appear on the ridge above me like a phantom, silhouetted against the evening sky. He was bareheaded—it took us three days to find his hat—his rubber boots were straddling at a ridiculous distance from each other, and he was hitting it off at the rate of one hundred yards in nothing and three-fifths seconds. He was looking backward over his shoulder, fumbling at his hip pocket for shells, and yet he coursed over those loose boulders with the sureness of foot of a mountain goat. He dipped out of sight as suddenly as he had appeared and I heard him cracking away again, then the louder report of Fred's rifle.

"An instant later I reached the top and glimpsing a huge brown body rushing toward us in prodigious leaps, I joined in the fusillade. The monster's great weight bore him deeply into the snow, which he flung behind him at every plunge, and yet, shocked and torn by those exploding bullets, he still came on and on, a tremendous, ungainly figure of rage and determination.

"Even when he was down to his haunches and deathly sick, he redoubled the snow in a futile endeavor to continue that charge. It was a magnificent exhibition of courage, and he died facing us as befits a monarch, the red glare of rage still in his eye.

"Whew! I certainly stepped around a bit that time," said Joe, wiping the sweat out of his eyes. "My first four shots never fazed him, so I thought I'd sort of withdraw and reload on the run, but I couldn't seem to locate you fellers nowhere."

"We had no means of measuring our prize, but the carcass was tremendous, so large in fact that our united efforts were barely sufficient to roll it over. The skin stretched twelve feet in curing."

True Lights at Breakfast.

Engaged men who wish to carry engagement forward to marriage should be chary of accepting invitations to breakfast with their fiancées. Wise persons say that in order to feel sure of your affinity you must watch the victim in the morning. In the happy summer time sunrise parties are possible; so is an ocean dip before the crowd reaches the beach or a walk in the woods. But in the city in the winter such sylvan delights seem flat, besides being difficult to attain without a long journey. The breakfast is the best substitute. The 12 o'clock breakfast no longer is common in Fifth avenue houses. There is too much to accomplish for the modern belle to start the day as late as that. Last winter, 9 and 10 o'clock breakfasts were in vogue. The belle who wants to "get a line on" the man to whom she has pledged herself asks him to an early breakfast, and then takes notes. If his mood does not fit in with hers in these opening hours of the day their natures are not the kind to blend. He must soothe and comfort her just by his presence. If she feels it an exertion to entertain him, if he irritates her in the least, she must hand back the engagement ring as soon as breakfast is ended. He is not her affinity and she never would be happy with him.—New York Press.

Why He Didn't Have to Work.

"But," said the good old lady, "why don't you go to work?"

Why, ma'am" began the disreputable old loafer, "yer see, I got a wife an' five children to support—"

"But how can you support them if you don't go to work?"

"As I was a-sayin', lady, I got a wife an' five children to support me."—Catholic Standard and Times.

Weak Women

frequently suffer great pain and misery during the change of life. It is at this time that the beneficial effect of taking Cardui is most appreciated, by those who find that it relieves their distress.

TAKE CARDUI

It Will Help You

Mrs. Lucinda C. Hill, of Freeland, O., writes: "Before I began to take Cardui, I suffered so badly I was afraid to lie down at night. After I began to take it I felt better in a week. Now my pains have gone. I can sleep like a girl of 16 and the change of life has nearly left me." Try Cardui.

AT ALL DRUG STORES

Smith's Home-Made Candy--All Kinds Chocolates, Bon-Bons, Kisses,

BUTTERCUPS, TAFFY AND MIXTURES.

ICE CREAM PARLOR. HOT and COLD DRINKS.

FRUITS, NUTS, CIGARS, TOBACCO, ETC. ALSO CARRY FULL LINE OF HUYLER'S CANDIES.

L. A. Smith,

Palatka, Fla.

PROFESSIONAL.

CALHOUN & CALHOUN,

Attorneys at Law,

National Bank Building, Palatka, Fla.

JOHN E. MARSHALL,

Attorney At Law,

Front Street, Palatka, Fla. Orange groves for sale.

DR. W. H. ROSENBERG,

DENTIST.

Office over the Kennerly.

HENRY STRUNZ,

Attorney at Law,

Front Street, PALATKA, FLA.
National Bank Building.

DR. H. R. ESTES,

DENTIST.

PALATKA, FLORIDA.

Moragne Buildings, Rooms 3 and 4.

E. E. HASKELL,

Attorney at Law,

PALATKA, FLA.

DR. W. H. CYRUS,

Physician and Surgeon,

PALATKA, FLA.

A little mistle-toe is a dangerous thing.—Life.

M. I. COXE,

Attorney at Law,

Office in Court House, Palatka, Fla.

J. N. BLACKWELL,

Attorney-at-Law.

Office Front Street, Opposite Putnam House.

PALATKA FLORIDA

Merryday & Walton,

COUNSELLORS AND ATTORNEYS AT LAW,

PALATKA, FLORIDA.

Front St. Palatka Nat. Bank Bldg.

Raw Fur, Hides, Wool, Tallow, Beeswax, Beef, Hides, Goatskins.

Ship the above to:—

M. Sabel & Sons,

Established in 1856. LOUISVILLE, KY.

"Over half a Century in Louisville." WE ARE DEALERS IN ABOVE, not commission merchants. Reference: Any bank in Louisville.

Write for weekly price list.

MISS KATE L. LUCAS,

PALATKA, FLORIDA,

MILLINERY FANCY GOODS,

Notions, Ladies', Misses' and Children's Winter Underwear.

Ladies' Kid and Silk Gloves.

Laces, Embroidery, Collars, Belts, Etc.

Experienced Trimmer and designer employed. Prices right. Satisfaction guaranteed.