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Robert S. Newton

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ROBERT S. NEWTON

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THE MEDICAL ECLECTIC.

PUBLISHED MONTHLY,

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BE CAREFUL TO SPECIFY McKESSON & ROBBINS'.

REMARKS ON THE Relative Value of the Cinchona Alkaloids.

The many changes in the value of Quinine during the last few years have brought the lesser Alkaloids, formerly but little regarded, into more extensive use. This is especially the case with Cinchonidia Sulph., for, while Quinia is supposed to represent more nearly the therapeutic value of Quinia, its sale has been far less than that of Cinchonidia, perhaps owing to its higher price, and its having been less prominently placed before the Profession.

Sulphate of Cinchonidia has been steadily rising in the estimation of physicians, and, during the past year, its use has far exceeded that of any of the lesser alkaloids, and is by many practitioners regarded as equal in effects to Sulphate of Quinia. The Madras experiments, it will be remembered, gave Quinia ninety-nine and four-tenths; Quinia, ninety-nine and three-tenths; Cinchonidia, ninety-nine, and Cinchona, ninety-seven and seven-tenths, in each one hundred cases treated.

Decolorization and excessive crystallization of Sulphate Quinine and other Alkaloid salts are thought to injure their medicinal value, and many practitioners, some of whom stand at the head of the profession, advocate the use of the unbleached salts, which are considered more readily assimilable. In many of our public institutions the combined alkaloids, without having undergone the process of bleaching, have been used, the Cinchona alone being separated as of less value; this product, usually known as "Hospital Quinine," has been prescribed for many years, with the best results, in preference to the bleached Sulphate of Quinine, and there is little doubt but that the two products are equal in therapeutical value as regards tonic and anti-periodic effects.

For these reasons we have been induced to offer pills of "Hospital Quinine," that the Profession may have an opportunity of proving the value of the opinions given above, and we will be happy to aid them by furnishing samples free of charge.

This product, "Hospital Quinine," is not a simple mixture of the Sulphates of Cinchonidia and Quinia, but the result of the concentration and crystallization of the mother-liquors, used in successive crystallizations (usually four), in which there are carried, with the salts of Cinchonidia and Quinia to be eliminated, a nearly equal amount of Quinia.

In presenting our "Hospital Quinine" Pills to the Medical Profession, we shall not determine the exact proportion of Quinia and Cinchonidia, as we deem this unnecessary, but our "Hospital Quinine," in mother-waters, will be carefully tested, and the standard raised to fifty per cent. by the addition of Sulphate of Quinine, if necessary.

We hope to be able to afford this product at nearly one-half the price of ether-tested, or pure Sulphate of Quinia, when our arrangements for the manufacture of the latter become more extensive—instead of a difference of only twenty-five cents per ounce, at which it was quoted for many years prior to December, 1877.

CINCHONA BARK ALKALOIDS.—These pills contain one-half grain each of the four Alkaloids—Quinia, Quinidia, Cinchona, and Cinchonidia, in the form of Sulphates, and are offered to physicians as containing a definite quantity of each salt.

QUINIDIA SULPHATE, 1, 2, and 3 grains. Added to our list by request of eminent physicians, expressly for experiment.

CINCHONIDIA SULPHATE, 1, 2, 3, 4, and 5 grains. Our sales have been enormous during the last six months. The scarcity of the salt has obliged us to advance our list twenty-five per cent.

"HOSPITAL QUININE," 1, 2, 3, 4, and 5 grains. The pills are growing in favor with physicians, both for the certainty and rapidity of their action, ready solubility, and well marked effects. For tonic and anti-periodic effects, they are considered fully equal to Quinine, while far cheaper in price. SULPHATE OF QUININE DISSOLVES IN 700 PARTS OF WATER, WHILE SULPHATE OF CINCHONIDIA ONLY REQUIRES 125 PARTS, AND THE LATTER SALT, IN "HOSPITAL QUININE," IS WELL KNOWN TO ASSIST THE SOLUBILITY OF THE FORMER.

Sulph. and Bi-Sulph. Quinine Pills.

"Hospital Quinine" Pills.

	Bottles 100 pills	Bottles 500 pills		Bottles 100 pills	Bottles 500 pills
Quinine, Sulph. and Bi-Sulph. 1 gr.	2 00	9 75	"Hospital Quinine" 1 gr.	1 25	6 00
Quinine, Sulph. and Bi-Sulph. 1 1/2 grs.	2 80	14 25	"Hospital Quinine" 1 1/2 grs.	1 75	8 50
Quinine, Sulph. and Bi-Sulph. 2 grs.	3 75	18 50	"Hospital Quinine" 2 grs.	2 25	11 00
Quinine, Sulph. and Bi-Sulph. 3 grs.	5 50	27 25	"Hospital Quinine" 3 grs.	3 25	16 00
Quinine, Sulph. and Bi-Sulph. 4 grs.	7 00	34 75	"Hospital Quinine" 4 grs.	4 25	21 00
Quinine, Sulph. and Bi-Sulph. 5 grs.	8 75	43 50	"Hospital Quinine" 5 grs.	5 00	24 75

NOTE.—Bi-Sulphate of Quinine is much more soluble than the Sulphate, the latter requiring seven hundred parts of water to dissolve it, while the Bi-Sulphate dissolves in ten parts. In ordering, we would advise Physicians to specify Bi-Sulphate.

Sulph. Cinchonidia Pills.

Sulph. Quinidia Pills.

	Bottles 100 pills	Bottles 500 pills		Bottles 100 pills	Bottles 500 pills
Cinchonidia, Sulphate 1 gr.	75	3 50	Quinidia, Sulphate 1 gr.	80	3 75
Cinchonidia, Sulphate 2 grs.	1 25	6 00	Quinidia, Sulphate 2 grs.	1 50	7 25
Cinchonidia, Sulphate 3 grs.	1 85	9 00	Quinidia, Sulphate 3 grs.	2 20	10 75
Cinchonidia, Sulphate 4 grs.	2 50	12 25			
Cinchonidia, Sulphate 5 grs.	2 85	14 00			

Yours respectfully,

McKESSON & ROBBINS,

Wholesale Druggists and Manufacturing Chemists,

91 FULTON ST.,

NEW YORK.

GELATINE-COATED PILLS AND GRANULES,



*Oval in Form,
Perfect Coating.*

Of the U. S. Pharmacopoeia and other reliable formulæ, prepared in the best manner for retaining all the virtues of the drugs they represent.

McKESSON & ROBBINS,

Manufacturing Chemists,

91 FULTON ST.,

New York.

WE WOULD RESPECTFULLY INFORM THE PROFESSION THAT WE EMPLOY THE ONLY PROCESS IN COATING WHICH COMPLETELY COVERS THE PILL WITH GELATINE.

Among the many important formulas on our list, we have selected a few which we give below whose reputation is mainly due to the care we have exercised in selection of the crude drug and skill in manufacture. Physicians prescribing these or any of our pills will not be disappointed in results, either from the poverty of the material or degeneracy of the mass after being made up into pills. In substances of this nature it is absolutely necessary that the pills be entirely covered by the coating. Pills have been shown us covered with a wash so thin as to be no protection whatever against the action of the atmosphere; every one of these pills that we examined had a hole running from the exterior of the coating to the centre.

A single dose of our cathartic pills will prove the ready solubility of the coating.

ERGOTIN 3 grs.

One of our special formulas, prepared from purified ergotin; each pill represents 30 grains of ergot of rye, and will be found as reliable as the best fluid extract, while more convenient.

BELLADONNA 1-4 & 1-2 gr.

Physicians who have been disappointed by the varying action of pills compounded of this extract, will do well to test those of our manufacture. The nature of the coating is such that the pills are always soft and easily assimilable.

CALCIUM, SULPHIDE, 1-10, 1-4, 1-2 and 1 gr.

This pill was introduced by us about one year ago, and has found great favor with the profession in cases of scrofula and kindred diseases.

COPAIBA AND CUBEBS, 3 & 5 grs.

CANNABIS INDICA AND PHOSPHORUS.

NUX VOMICA AND PHOSPHORUS.

DIGITALIS, HENBANE, AND PHOSPHORUS.

PODOPHYLLIN, CAPSICUM, AND BELLADONNA.

JABORANDI EXTRACT... 3 grs.

SUMBUL EXTRACT.....1 gr.

COCA ERYTHROXYLON... 1 gr.

Made from the solid extract prepared in our laboratory. The medicinal effects of these pills are strongly marked, and we have many letters testifying to the regularity of their action.

CANNABIS INDICA... 1-2 & 1 gr.

This important pill will be found to exhibit in a marked manner the therapeutical effects of the solid extract of which they are composed. When cut, the distinctive color, taste and odor of the freshly made extract, is apparent.

VEGETABLE CATHARTICS.

All our cathartics are justly celebrated for the certainty of their action. The extract of Colocyath, from pulp, and extract of Jalap are prepared in our own laboratory.

PODOPHYLLIN, 1-8, 1-4, 1-2 & 1 gr.

ALOIN.....1-10, 1-5 & 1 gr.

SULPHUR, IODIDE, 1-25 & 10 gr.

POKE ROOT COMPOUND.

ASSAFETIDA 2 & 4 grs.

CAMPHOR, MONOBROMATED, 2 & 3 grs.

IODIDE OF IRON..... 1 gr.

These important changeable substances will be found perfectly preserved in our Gelatine-Coated Pills, samples of which will be furnished any physician upon application.

Formula books, with our full list of pills, containing therapeutical notes, sent to any address.

Private formulas of 3,000, or over, made and coated to order.

McKESSON & ROBBINS,

Manufacturing Chemists,

91 Fulton Street, New York.

THE MEDICAL ECLECTIC,

DEVOTED TO

Reformed Medicine,

GENERAL SCIENCE AND LITERATURE.

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VOL. VI.

APRIL 15, 1879.

No. 4.

ORIGINAL COMMUNICATIONS.

MATERIA MEDICA AND THERAPEUTICS.*

By GEORGE WILLIAM WINTERBURN, M.D.,

Professor of Materia Medica and Therapeutics in the Eclectic Medical College of the City of New York.

CINCHONA.

(Continued from page 126, March, 1879.)

Quinia, C²² H²⁴ N³ O⁸.—Crude quinia is a soft resinous solid only slightly bitter, and may be used in the same doses and for the same purposes as the sulphate. All the quinia salts are much more dangerous to animals living in water than morphia salts. Mistakes have been made in confounding sulphate of morphia with sulphate of quinia; strong nitric acid will color

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quinia salts yellow, and morphia salts, bright red. Pure quinine will dissolve in an equal weight of ether; and for hypodermic uses a solution in ether will be found less irritating than an acid, alcoholic, or chloroformic solvent. When administered by the mouth, milk is the best vehicle for quinine, unless it is desired to obtain its local effects. A grain can scarcely be detected in a tumblerful, and a quarter-grain cannot be tasted at all.

The various salts of quinia differ greatly in regard to their solubility in water, as formulated in the annexed table.

SOLUBILITY OF QUINIA SALTS.

	Temperature (c.)		
	80°	20°	10°
Acetate.....	.091	.037	.027
Chlorohydrate.....	.092	.049	.031
Tannate.....	.093	.052	.034
Chromate.....	.094	.054	.036
Chloromercurate.....	.112	.099	.078
Hypophosphite.....	.121	.097	.065
Picrate.....	.124	.096	.072
Succinate.....	.151	.113	.098
Mellitate.....	.157	.119	.099
Citrate.....	.162	.121	.112
Salicylate.....	.173	.129	.121
Urate.....	.176	.135	.123
Sulphate.....	.181	.142	.129
Iodate.....	.242	.211	.187
Tartrate.....	.256	.219	.197
Valerianate.....	.259	.227	.211
Hydriodate.....	.281	.236	.219
Citro-thymate.....	.292	.247	.228
Formiate.....	.331	.296	.272
Lactate.....	.355	.317	.294
Arseniate.....	.362	.321	.299
Benzoate.....	.381	.334	.317
Sulphocarbolate.....	.426	.376	.351
Meconate.....	.430	.379	.356
Quinate.....	.441	.396	.367
Carbolate.....	.472	.411	.399
Hydrobromate.....	.517	.462	.427
Oxalate.....	.519	.466	.429
Ferrocyanate.....	.653	.591	.498
Aspartite.....	.712	.634	.596
Sulphomethylate.....	.800	.710	.600
Sulphovinate.....	.800	.725	.600

The sulphovinate is the most soluble salt of quinia, even deliquescing in a moist atmosphere. It is therefore the best for hypodermic purposes. The tannate, while most agreeable to take,

is one of the least efficient in therapeutic value; the stomach has as much difficulty in dissolving it as the powdered bark itself. The hydrobromate is useful in chronic syphilis in tenth- to twentieth-grain doses every four or six hours, continued for several months. The hypophosphite fulfils the indications for phosphorus and quinine, and agrees well with irritable stomachs, in doses of quarter- to tenth-grain two or three times a day. The valerianate is especially useful in nervous disorders, and has the advantage of not producing cerebral disturbance. The arseniate is often useful in intermittents where the sulphate fails; it is prepared by mixing ninety grains arsenious acid, five drachms quinia, and six ounces water, boil, filter, and allow to crystallize; a grain to be triturated with sugar of milk and divided into twenty powders; one to be taken every two to six hours *pro re nata*. It is especially useful in obstinate mismanaged intermittents which may show themselves in periodical neuralgia or obscure neuroses. The treatment must be persisted in for several weeks, but the dose need not be repeated more than once or twice a day. The arseniate is very useful in chronic intestinal derangements of children, with debility from loss of fluids and poor nutrition. The kinate is soluble in four parts of water, and is very satisfactory as a hypodermic injection.

The following is the correct formula for the *tinctura quiniæ ammoniatæ*:

℞. Quinis disulph.....	gr. xxxij.
Spirit. tenuioris.....	℥ ijss.
“ ammonis.....	℥ ss.
Misce.	

Quinidia is isomeric with quinia, and equally good in the treatment of malaria. Of 108 cases treated by Dr. Dougall, of Madras, quinidia 39, cinchonia 34, cinchonidia 35, no marked difference in effect of treatment was noticed.

Quinoidia is the name applied to the brown resinous mass obtained in the manufacture of quinia and cinchonia, by evaporating the mother-liquor to dryness. It bears the same relation to quinia that uncrystallizable sugars bears to the crystallizable

Salts of quinoidia, on account of their solubility, have been recommended for hypodermic use. Quinoidia of commerce is generally very impure. It is completely soluble in dilute sulphuric acid. If to this solution is added ammonia water, and the weight of the precipitate thereby formed equals the original amount dissolved in the acid, the sample is perfectly pure.

Quinoidia is believed to exist in infinitesimal quantities in all vegetables. It is constantly present in all living tissues of animals, but disappears rapidly in acute febrile diseases. Prolonged low diet also causes it to disappear.

Forty consecutive cases of intermittent fever were cured with the citrate, a drachm in four ounces water, teaspoonful every two hours.

Cinchonia.—The cinchonia salts are bitter, and closely resemble the corresponding salts of quinia, but are more soluble both in alcohol and water. The headache of cinchonia is more frontal than that of quinia, and it causes præcordial pain and cardiac debility even to syncope. The salts of cinchonia are equal in toxic effects to quinia salts, but they have a narrower therapeutic range. They will suffice for most of the miasmatic fevers that appear in spring; and in summer and autumnal fevers where there is only a slight degree of splenic enlargement.

Kinovic Acid.—The presence of this acid is the predominant cause of the tonic properties of cinchona bark. When administered in large doses it produces cerebral congestion. The action of freshly-prepared kinovic acid upon intestinal secretions is strikingly perceptible, producing an abatement of peristaltic movement. It may be administered in severe dysentery, and in chronic obstinate nervous diarrhœa. The kinovate of lime, as a bitter tonic, is superior to most of the agents hitherto used as bitters.

SIMABU CEDRON.

Cedron is the seed of the fruit of a small South American tree (*Nat. ord. Simarubaceæ*) somewhat resembling an almond tree. All parts of the tree are said to be impregnated with the bitter principle peculiar to the seed, but the latter is the only