

USES OF THE HYPODERMIC SYRINGE.

The following list embraces the principal conditions and doses in which hypodermics have been used. (See also formulæ.)

Abortion has been caused by hypodermics of pilocarpin. This should insure caution.

Arrest of Perspiration.—Pilocarpin, the alkaloid of jaborandi, will cause more or less profuse sweating, according to amount injected beneath the skin.

Asthma.—Lobeline hydrobromate one two-hundredth to one-twentieth grain, highly commended by Bartholow. Also useful in cardiac asthma and pseudo-angina.

Bubo has been aborted by injecting carbolic acid into the centre of the swelling.

Bowels, Obstruction of the.—Aloin has been used with success, subcutaneously, to move the bowels, in doses of one-half to one grain.

Carcinoma.—Acetic acid, one part to three of water, injected into the cancer, has proved successful in shrivelling the tumor and obviating an operation.

Cerebral Apoplexy has been successfully treated by subcutaneous injections of ergotine into the arm.

Chloroform Poisoning.—One-tenth grain of digitaline, hypodermically, followed an hour afterward with one-tenth grain of atropia in similar manner, has been successful.

Chorea.—Curare, in hypodermics of from one-tenth to one-twentieth of a grain, daily, has been found valuable in this disease. Liquor potassii arsenitis, one to three minims, hypodermically, is said by Frühwald to be very efficient. Lobeline hydrobromate, one one-hundredth to one-twentieth of a grain, hypodermically, is recommended by Bartholow.

Congestive Chills.—Ten drops of tincture of belladonna, hypodermically, every fifteen minutes, until the pulse became distinguishable, succeeded where patient was unconscious and unable to swallow, followed by hypodermics of quinine or dextro-quinine, brandy, or whisky. Pareirine, one-tenth to one-half grain, hypodermically, is also commended. Quinine muriate and hydrobromate may be used to great advantage hypodermically.

Convulsions, Puerperal.—Chloral, subcutaneously, has been pronounced better than when swallowed.

Convulsions, Infantile.—Morphia, subcutaneously, with inhalations of five drops of nitrite of amyl, immediately following, have proved successful.

Convulsions.—Saturated tincture gelsemium, ten to fifteen drops, has acted as a powerful antispasmodic in arresting convulsions, injected subcutaneously.

Croup.—Sulphate of atropia, one per cent. solution, has proved successful in a desperate case, injected in the neck, on a level with the pneumogastric. Three drops, repeated after four hours. When there is much membrane formed, equal parts of water and liq. ferri perchlor. injected into the trachea, piercing the needle through just below the thyroid cartilage, dissolves the membrane, enables its expectoration, and substitutes tracheotomy.

Diarrhæa.—Cotoin, four to seven and a half grains hypodermically every fifteen or twenty minutes, or every hour, except in intestinal ulceration, cirrhosis, and alcoholics. Also useful in cholera, night-sweats, and ptyalism.

Dysentery.—Morphia, in one-third grain doses, hypodermically, has been found more rapid in relieving tenesmus than any other opiate.

Dysmenorrhæa.—Antipyrine, two and one-third grains, and cocaine, one-eighth grain, in combination, hypodermically.

Eclampsia, Puerperal.—Veratrum viride, two to four drops of the tincture, subcutaneously, as required, to keep the pulse down to about sixty. Pilocarpin, two per cent. solution, is also recommended.

Eczema.—Arseniate of sodium, hypodermically, in solutions of one-fifth, one-half, and one per cent., commencing with ten