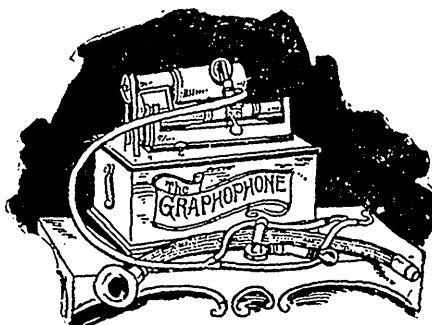


times more sensitive to helleborein than in the normal state. Frogs in the fasting state are more sensitive to the action of fluid extract of convallaria, coronillin and helleborein. In the rabbit the liver does not appear to lessen the toxicity of convallamarin or helleborein. Coronillin, on the contrary, is three times less toxic when injected into a mesenteric vein; its toxicity, therefore, seems to be attenuated by the liver.

**THE ADMINISTRATION OF QUININE TO CHILDREN.**—Binz (*Deut. med. Woch.*), mentions certain preparations of quinine which he has found convenient in the treatment of children who usually exhibit a great repugnance to the taste of the drug. They were tested during the epidemic of whooping-cough: (1) Quinine pearls, gelatine capsules containing gr. jss were taken readily by children over three years, while younger chil-

dren could be taught to swallow them. (2) Quinine chocolate; each piece contained gr. jss, and the bitter taste was so well covered that infants of nine months would take them; they did not produce gastric disturbance. (3) Suppositories made of cocoa butter, and containing various doses up to gr. vjss. (4) A hypodermic solution of one part of hydrochlorate of quinine in four parts of water. With proper precautions the injections were not followed by abscesses, and were found valuable in cases of whooping-cough in which quinine could not be tolerated by the mouth. (5) Quinine may be given in enema; the quantity of solution used should not exceed  $\frac{3}{4}$  j. (6) Tannate of quinine, which in powder is almost tasteless, was a fairly satisfactory substitute for other preparations, but the dose given must be double that of the sulphate, and the effect was not produced so rapidly or certainly.



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