

or in subcutaneous injection, and the following formula, by Huchard, may be recommended :

- R. Caffeine.  
Sodium benzoate, of each 660 grains.  
Peppermint water, 8 ounces.

M.

A teaspoonful is to be given every two hours until four teaspoonfuls have been given, each one representing 4 grains of caffeine. The same dose will be continued in a Pravaz syringe, with the following formula for hypodermic injection :

- R. Caffeine, 38 grains.  
Sodium benzoate, 44 grains.  
Distilled water, sufficient to make  $2\frac{1}{2}$  drachms.

M.

If the sick-headache persists, after the administration of analgesine, other drugs may be tried, such as acetanilid. They should not be given except in divided doses, in small capsules containing from 3 to 4 grains five or six times a day. Care should be taken not to exceed 30 grains a day.

Phenacetine has the advantage of being almost non-toxic and of provoking much more rarely than analgesine eruptions and symptoms of intolerance. Capsules containing 4 or 5 grains may be given four or five times a day.

Exalgine does not give such brilliant results in sick-headache as in the trifacial neuralgias. Four grains may be given at a time, but this dose should not be exceeded, and its action should be carefully watched, as it gives rise to accidents.

Lauder Brunton, says Dr. Hirtz, recommends sodium salicylate combined with potassium bromide. The amount is 23 grains of the former and 38 grains of the latter, given in four doses.

Immerwahr, Lewy and Schumann have found in methylene blue, a very efficacious remedy for sick-headache, especially the form called angeio-spastic. They gave it in doses of a grain and a half four times a day, combining it with nutmeg as follows, in order to avoid vesical irritation :

- R. Methylene blue.  
Pulverized nutmeg, of each 1.5 grains.

M.

This quantity will make one capsule, about four of which may be given a day.

Migrainine, which is considered by Schumann one of the best remedies for sick-headache, is a combination of antipyrin and caffeine, as follows :

- R. Antipyrin, 89.4 per cent.  
Caffeine, 8.2 per cent.  
Citric acid, 0.56 per cent.

M.

Aconitine is sometimes successful when other nervines fail. It is prescribed in globules only, each containing four one-thousandths of a grain, of which two a day may be given.

Guarana contains guaranine, which is identical with caffeine. It is given in a powder in doses of from 8 to 30 grains dissolved in water.

Seguin, who was a great advocate of the ocular theory of sick-headache, thought it was frequently due to defects of refraction, and he recommended the employment of mydriatics and the correction of the muscular defects by wearing proper glasses. As an internal remedy, he recommended the extract of cannabis indica, to be given three times a day in pills, each containing a fifth of a grain, which amount may be progressively increased to 3 grains. Gradle, of Chicago, prefers the tincture of cannabis in doses of from 20 to 25 drops twice a day, at an interval of six hours.