

The causes of Gangrene are :—

1. The cessation of the circulation in the arteries of an organ. If a small quantity of blood is permitted to pass through the fine interval, surrounding the concentric blood coagulum, or plug in the arteries, moist gangrenes occurs, but otherwise dry gangrene.

2. The cessation of the capillary circulation. Hence, mortification is a frequent result of inflammation.

3. Excessive failure of nutrition and poverty of the blood, as in gangrene noma (cancrum oris), or gangrene of the cheek and of the mouth. Long continued disturbance of the functions of an organ, as instanced by the gangrene of the lungs from catarrh.

4. Long continued disturbance of the nervous system; as in the frequent gangrene of the lungs in cases of diseased mind; also in the gangrene after typhus.\*

5. In consequence of decomposition of the blood from the introduction of putrid substances, or the agency of contagion and poisons. To this category belong the gangrenous abscesses of glanders, anthrax, gangrene from the use of *secale cornutum*, and the kind of mummification consequent upon the use of the peculiar poison developed in sausages. These operate in a manner analogous to putrid flesh in the decomposition of a solution of sugar, resulting in the production of alcohol and carbonic acid.

ART. XLV.—*Case of Hepatic Abscess—Perforating Abscess of the Lungs.* By A. O. KELLOGG, M. D., Brock.

Hiram Bigelow, Esq., of Lindsay, Ops, aged 50, merchant, of strong constitution and bilious temperament, previous to 1842 was a man of great activity, labouring hard, early and late, and exposing himself to every vicissitude of weather and temperature. Since that time his occupation has not been so laborious, but has exposed himself much in travelling, and at times has laboured hard; since March 1853 has travelled less, and led more of a sedentary life. Situation of his residence low, near the banks of the river Kellogg; has been subject to attacks of bilious or intermittent fever, though on the whole has enjoyed good health to this time. The loss of a large portion of a very valuable property this season had no doubt caused much mental anxiety and depression, though he appeared cheer-

\*Typhoid.