

ties met with before the characteristic eruption appears; and (2) those which are met with after. Before this characteristic eruption appears, you may have rashes which require careful consideration to enable you to say whether the pending attack is one of smallpox, scarlet fever, measles, erythema, etc.

First of all, I would like to particularly draw your attention to what are styled the initial symptoms of smallpox. These symptoms are of the greatest importance in the diagnosis of smallpox; they are: headache, backache, rigors, loss of appetite, vomiting, malaise, and fever. They are not very numerous, not very hard to remember, and they are often of the greatest importance in forming a correct diagnosis. You have all of these, or the majority of them, present in every case of smallpox during the forty-eight hours immediately preceding the appearance of the characteristic eruption. The length of this initial stage, when these symptoms are present, may vary from two to four days. In the majority of cases it is from two to two and a half days. It is important to keep this always in mind. Isolated cases of death have been recorded in almost all extensive epidemics during this initial stage, before a trace of the characteristic eruption appears.

In smallpox, the rash that looks like scarlet fever is usually most marked on the lower part of the abdomen, in the groins, on the inner side of the thighs, and on the flexor surfaces of the extremities. It is often seen on the sides of the body and in the axillæ.

The difference is, in scarlet fever, the rash appears on the neck and chest, and is rarely first seen on the lower part of the abdomen. In smallpox this rash is rarely very intense; in scarlet fever the rash is a vivid scarlet.

In smallpox, at this early stage, the throat symptoms are not very marked; in scarlet fever the throat symptoms are marked from the beginning.

In smallpox, the backache is pronounced; in scarlet fever, backache is not prominent.

In some hemorrhagic cases of smallpox you have a vivid red rash, involving the whole skin with deep purple or black subcutaneous hemorrhages, similar to those seen in purpura, and instead of the patient complaining of the backache, he complains of violent, extreme pain in the epigastrium. Such cases may be easily mistaken for scarlet fever, especially before the purpuric spots appear. But the throat symptoms are not those of scarlet fever, and you usually have the backache of smallpox, though not always. The prodromal rash of smallpox that resembles measles counterfeits that disease very closely. This rash in smallpox