

great majority of cases, it is first noted on the fourth day. The sites of predilection are the face and hands, or the exposed parts, but no part of the body is exempt. In one case the penis was much swollen, a giant urticarial elevation being present at the junction of mucous membrane and skin.

The urticaria is often accompanied by itching, but as a rule no other symptoms are present. Nausea occurred in a few of the cases, and in a few some elevation of temperature, although the latter was the exception, the up-patients being able to walk about with no feeling of distress, unless it were mental. In three of the cases noted there was associated swelling of the hands and feet. In two others the swelling was seen about the small joints of the fingers and at the knees respectively. The disturbance in these five cases lasted from three to five days. The rash in the two latter cases presented itself first, the swelling appearing in the one case the day after the eruption, in the other it was three days. In only two of these five cases was there any elevation of temperature, and in no one of them was there any kidney involvement. The constitutional symptoms, however, will be considered later. The two cases of swelling about the joints and one of the other three occurred after the injection of July 10th 1902.

The second variety differs from the first in that instead of wheals we find papules, which do not develop into vesicles, never become scaly, and are of transitory duration. In the two cases recorded there was a complete disappearance of the rash in twelve hours, and in neither was there any feeling of discomfort or rise in temperature. This variety may simply be regarded, I think, as a modified manifestation of the urticarial.

In two of the four cases developing a general erythema without papules or urticarial elevations, the constitutional disturbance was greater than any of the others, the hemorrhagic not excepted, for in both of these cases there was edema of the tissues about joints with constitutional disturbance. In one case the reaction was manifest nine days after the injection, which was that of July 10th.

On July 19th hands were swollen; an erythematous rash covered the body.

On July 20th the knees were swollen. The erythema was especially well marked on this day on the anterior surface of the knees. There was no pain, simply a feeling of stiffness in the joints.

On July 22nd the legs and feet were swollen; the eruption had disappeared from the rest of the body, and on July 23rd all swelling had disappeared. The temperature in this case was slightly elevated, being highest— 101.5° —at the time the knees were swollen, or at the height of the reaction.