TREATMENT OF ACUTE RHEUMATISM WITH BUTAZOLIDIN

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A favourable experience of Butazolidin in the treatment of rheumatoid arthritis and the experimental reports that it appears to influence the resolution of inflammatory exudates, suggested that it might be of use in treating acute rheumatism.

Case Reports

(1) Female, aged 17, had been treated for rheumatic fever 3 years ago, but it appeared to have been a mild attack, and she had been well since; 6 days before admission she had developed pain, stiffness, and swelling of both ankles, and the knees, hands, and shoulders also became involved; 3 days later she had sternal and inter-scapular pain with cough, and complained also of anorexia, headache, profuse perspiration, and occasional vomiting. The joint pains responded to some extent to salicylate.

Examination.—On admission (temperature 101.2°F., pulse 110, respiration 25), she complained of severe sternal pain and was dyspnoeic and cyanosed. There was no notable swelling of the joints, but the knees were tender. The heart sounds were regular, very soft, and a systolic murmur was present at the apex. A soft to-and-fro friction rub was heard at the base. The erythrocyte sedimentation rate was 94 mm./hr (Westergren). On the 9th day of illness an area of bronchial friction was noted at the left base and pericardial friction persisted. Her condition deteriorated, and three days later the fever increased with rapid pulse (130) and respirations (40).

Progress.—Two days later she developed a circinate erythema over the abdomen, buttocks, and backs of the thighs, and there was a recurrence of severe joint pains with increase in praecordial pain. She was now very dyspnoeic and cyanosed, and coarse pericardial friction was heard and felt over the whole praecordium. Streptomycin ½ g. twice daily was added on the 15th day of illness, but there was no response and she deteriorated rapidly to a moribund condition on the 22nd day of illness.

Therapy.—All other treatment was discontinued and she was given three tablets Butazolidin daily (Fig. 1). The next morning there was a remarkable improvement; she was comfortable, and asked for food, and the tempera-

Fig. 1.—Case 1.
ture fell to normal levels in 24 hours. Two days later the pericardial friction had completely gone and has not recurred, and a week later the erythrocyte sedimentation rate was 38 mm./hr. There was a gradual improvement in the quality of the heart sounds, and the first sound, which had been obscured by a soft murmur, was clearly audible and pure by the 40th day.

A favourable convalescence with a continued fall in the erythrocyte sedimentation rate suggests that she is likely to make a complete recovery.

(2) Schoolboy, aged 11, had developed a cold, with cough and spit, but no sore throat, 12 days before admission. A week later he fell and thought he had hurt his right ankle. An x-ray was negative, but 2 days later he still had pain in the left ankle and also in the wrist. He was now fevered and complained of severe headache.

Examination.—On admission (temperature 104° F., pulse 120, respirations 30), he was complaining bitterly of pain in the right and left legs. The right ankle and most of the leg was very swollen, red, and tender, and the left ankle and wrists were affected to a lesser extent.

Therapy.—The pain responded to salicylate, but fever continued, the right leg remained acutely inflamed, and the erythrocyte sedimentation rate continued to rise to 128 mm./hr. The salicylate was now discontinued and he was given Butazolidin, 200 mg. three times daily. During the next 24 hrs the temperature settled, and remained normal. The joints improved rapidly and were normal in appearance 4 days later, and the patient was now completely comfortable. Three days later the erythrocyte sedimentation rate was 95 mm./hr, and a soft murmur, which had been noted at the apex during the earlier stages, could not be detected. He has continued to make a favourable convalescence.

(3) Schoolboy, aged 9, had a severe sore throat 5 weeks before admission; it improved in the next few days, and he seemed well until 10 days later when he had pain in the knees and ankles. There was some response to aspirin, but he continued to have low fever and a high erythrocyte sedimentation rate. In the fifth week an apical systolic murmur was heard.

Examination.—On admission there was only a little joint stiffness, but the erythrocyte sedimentation rate was 95 mm./hr, and low fever continued. The first apical sound was partially replaced by a soft murmur, and the pulmonic sound was loudly accentuated.

Therapy.—There was no improvement during treatment with aspirin and penicillin, and 4 weeks after admission Butazolidin, 200 mg. three times daily, was substituted. During the next few days the temperature fell to normal levels and the erythrocyte sedimentation rate slowly improved. The cardiac murmur was unchanged.

(4) Schoolgirl, aged 15, had had two previous attacks of acute rheumatic fever, which had responded to salicylate therapy, but resulted in a mitral stenosis, which, until the present illness, had caused no symptoms; 3 weeks before admission she developed for the third time acute rheumatic fever with severe joint swelling, pain, and tenderness in both knees, ankles, elbows, and shoulder. During the next 10 days the pain and tenderness responded to 15 gr. aspirin four times daily, but the temperature remained around 101.5° F.

Examination.—On admission (temperature 101.6° F.) she looked ill, and there was swelling and acute tenderness of the knees, ankles, and right elbow.

Therapy.—She was treated with Butazolidin, 200 mg. thrice daily, and there was a notable response of the temperature and joint swelling (Fig. 2). After 5 days the
BUTAZOLIDIN IN ACUTE RHEUMATISM

Summary

The use of Butazolidin is reported in five cases of acute rheumatism, which showed little or no response to salicylates.

In each case there was a rapid improvement in joint pain, temperature, and erythrocyte sedimentation rate, and the patient made a good recovery.

There were no toxic reactions. Relapse on withdrawal of Butazolidin, which occurred in one case, was quickly checked by a few additional doses.

We are indebted to Dr. J. P. Currie, Glasgow Royal Infirmary, for details of Cases 4 and 5.

Traitement du rhumatisme articulaire aigu par la butazolidine

RéSUMé

On relate l'emploi de la butazolidine dans cinq cas de rhumatisme articulaire aigu totalement ou partiellement réfractaire aux salicylates.

Dans tous les cas on nota une amélioration rapide de la douleur articulaire, de la température et de la sédimentation globulaire et le rétablissement des malades.

Il n'y eut pas de réactions toxiques. Une rechute qui survint dans un cas après la suppression de la butazolidine, fut rapidement enrayée par quelques doses additionnelles.

Tratamiento del reumatismo poliarticular agudo con butazolidina

SUmARIO

Se relata el empleo de la butazolidina en cinco casos de reumatismo poliarticular agudo, totalmente o parcialmente refractario a los salicilatos.

En todos los casos se notó una mejora rápida del dolor articular, de la temperatura y de la sedimentación eritrocitaria y los enfermos recobraron la salud.

No hubo reacciones tóxicas. Al discontinuar la butazolidina hubo una recaída, rápidamente reprimida con pocas dosis adicionales.
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