the cases fulfilled the criteria of sarcoidosis as defined by Scadding.1 The majority of patients did not present in the usual way with sarcoidosis and indeed a study of chest clinic and eye and skin department material has been unprofitable in revealing cases with myocardial involvement. These chief features were presented as heart block, difficult cases with chest chief pain, and in many cases sarcoid involvement of the heart was massive, and in these the classical sarcoid granulomatous tissue with large numbers of giant cells was widespread. In less massive involvement the ventricular septum appears to be the site most commonly affected.

I am preparing the full results of this study for detailed publication. A preliminary report of over 40 cases was made to the Sixth European Congress of Cardiology in Madrid.2 It was there suggested that the diagnosis of sarcoidosis should be considered in any patient presenting with a cardiomyopathy of unknown aetiology, particularly if there are frequent ventricular premature systoles, or in any patient who presents with a serious rhythm disturbance of unexplained cause. The success of steroid treatment will depend on how massive is the sarcoid involvement of the heart.

This study has been made possible by the generous co-operation of colleagues allowing me the necessary material. I would be glad to have details of any further cases.—I am, etc.,

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Spin Dryer Injuries

Sir,—Mr. C. C. S. Galasco (16 December, p. 646) rightly draws attention to the dangers associated with the use of spin dryers. I realize that the pictures of trauma vary from one part of the country to another. In my experience in the north-east of England, I have seen these injuries about 12 times a year. I suggest that an improvement requiring 40,000-50,000 new patients a year. These injuries are not confined to children and are replacing the “wringer injury.” As with wringer injuries, soft-tissue damage is out of proportion to the bone damage; this is due to the tremendous rotational forces involved. Unlike wringer injuries, these are not virtually confined to the appliances made by one manufacturer.

Spin dryer injuries are related to the kinetic energy involved. It therefore follows that the large drums which mostly rotate on a horizontal axis tend to produce much more severe injuries than small drums, which generally rotate on a vertical axis, where the speed of revolution is similar. Horizontally rotating drums are more accessible to children.

The most common injuries affect the fingers—generally there is dislocation at the proximal interphalangeal joint. This may be aggravated by the casualty officer, for the fact that one or both collateral ligaments are torn may be overlooked. However, about one-third of these injuries are compound fractures, tinnitis, or other injuries, and any inexperienced casualty officer would be left to deal with these. On occasions, multiple digits may be dislocated.

Injuries at higher levels than the fingers are generally associated with injuries to the hand, just as injuries to the humerus are unlikely to be associated with injuries below this level. I have seen seven spin dryer injuries to forearm bones, five of which occurred in children. It is again important to realize that damage to soft tissues associated with these injuries is often much more extensive than an x-ray of the forearm would lead one to suppose. Ischaemic contracture and muscle fibrosis must be regarded as definite risks, and forearm decompression may have to be considered.

I have found fractures of the humerus from this cause. Once again, soft-tissue damage predominates, and it is not easy to identify the anatomy at the site of injury. I have been more fortunate than Mr. Galasco, and have been able to experience a patient with this type of injury at this level all structures were divided apart from the neurovascular bundle containing the median and ulnar nerves. Progress in this child has therefore been quite good.

I must point out that all the spin dryers that I have seen in fact have some device either to prevent the dryer being opened in motion or to actuate the dryer when the lid is opened, though it may be possible to bypass the latter type of device. Injuries occur when the safety devices fail, failure of the former type resulting in more severe injury than failure of the latter. It is not easy to suggest what further steps manufacturers could take. I would refer those interested to British Standard 3456 B6, which specifies that with the latter type of device the drum should stop spinning within 10 seconds of the lid being opened. This standard comes into force in 1974. Which? in March 1971 reported on the mechanical safety of these devices and found that with most makes the drum is in fact stopped within five seconds of the lid being lifted.—I am, etc.,

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Side Effects of Benorylate

Sir,—Benorylate is the esterification product of paracetamol and acetylsalicylic acid. It has been shown to have fewer gastrointestinal side effects, including blood loss, than aspirin or paracetamol.1 It is claimed that the use of low dose Benoral (containing 1 g benorylate) in suspension was given four times daily. At this dosage the patient noticed lower abdominal colicky pain within 20 minutes of taking the benorylate, and the discomfort passed off after a further five or 10 minutes. After a further two or three occasions, the dosage of Benoral was increased to 8 ml five times daily. At this dosage the patient noticed lower abdominal colicky pain within 20 minutes of taking the benorylate, followed within five minutes by an urgent call to stool, the motion being very loose and on occasions watery. No blood was observed and faecal occult blood tests were negative. All drugs except the oral steroids and benorylate were stopped, but the symptoms persisted for two more days until the benorylate was discontinued, since when no further diarrhoea occurred.

We feel confident that the diarrhoea was related to the benorylate and, so far as we can determine, is a hitherto unrecorded side effect.

We are grateful to Dr. D. Mattingly for permission to publish this case.—We are, etc.,

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Treatment of Massive Pulmonary Embolism

Sir,—The case reported by Dr. R. J. C. Hall and others (16 December, p. 647) is further evidence of the effectiveness of streptokinase in the treatment of massive pulmonary embolism.

The conclusion that the drug was successful in lysing clot in the pulmonary arterial tree was based on clinical assessment—the patient’s general state, recovery from dyspnoea, lowering of central venous pressure and arterial pulse. While this is probably acceptable, the absence of precise objective evidence of thrombolysis, such as could have been supplied by further pulmonary angiography or lung scanning, prevents any accurate assessment of the ultimate dose of streptokinase and its rate of infusion. The authors used a 41-hour infusion with a total dose which we calculate to have been 4,650,000 units. In our experience of nine cases of massive pulmonary embolism treated successfully with streptokinase—monitored before, during, and after streptokinase treatment by lung scanning and/or pulmonary angiography it has been adequate to produce lysis of thrombus in the pulmonary artery. The present report states that within eight hours the patient was greatly improved. This suggests that lysis was advanced by that time. In this context it should be remembered that thrombolysis will continue for periods up to days after the cessation of streptokinase therapy. Further experience, in the treatment of streptokinase therapy, particularly in relation to fibrinogen rebound, exhaustion of plasminogen, and rethrombosis, are more likely to occur the longer the infusion lasts and, in fact, sometimes do occur even during pro-