SIR.—We read with interest the recent letter from Dr. D. A. Rajapakse and Professor E. G. L. Bywaters (24 November, p. 488) concerning immunological investigations in relapsing polychondritis. We should, however, like to correct one misquotation concerning the findings reported by Hughes et al.,1 who, by means of a standard indirect immunofluorescent technique using fetal cartilage as a substrate, detected positive diffuse fluorescence throughout the cartilage matrix with sera from only two of 12 (not from all 12) patients with rheumatoid arthritis.

We have examined sera from a further 104 patients with probable, definite, or classical rheumatoid arthritis as defined by the American Rheumatism Association² and detected cartilage matrix fluorescence in 10 (9.6%). Positive results have been found in only one of 102 normal blood donors and in two of 149 patients with a variety of diseases. Of eight patients with relapsing polychondritis tested, three had positive matrix fluorescence and one other showed a weakly positive reaction.³—We are, etc.,

W. M. SEYMOUR M. H. LESSOF

Department of Medicine, Guy's Hospital, London S.E.1

R. A. C. HUGHES National Hospital for Nervous Diseases, London W.9

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 Ropes, M. W., Annals of the Rheumatic Diseases, 1959, 18, 49.
 Seymour, W. M., and Lessof, M. H. In prepara-tion
- tion

Disinfectant Contamination

SIR,-During routine bacteriological monitoring of an operating theatre suite vessels containing the disinfectant Resiguard (Aspro-Nicholas) at a dilution of 1 in 160 were found to be contaminated with a Gram-negative bacillus identified as Alkaligenes faecalis. Resiguard, used for disinfecting floors and furniture between operating sessions, was made up fresh daily in 1 gallon (4.4 l.) amounts, but the containers were not sterilized at the same time. Standard loopfuls of the contents inoculated onto blood agar and incubated resulted in confluent growth of the organism, suggesting that bacterial multiplication had taken place in the disinfectant.

A series of 2.5 ml volumes of serial dilutions of Resiguard in buffered distilled water, tap water (as used in the theatre), and Ringer's solution were inoculated with 0.1 ml of an 18-hour broth culture of the Alkaligenes strain. After 5 and 10 minutes contact time standard loopful subcultures were made onto solid recovery medium and results read after overnight incubation. The organism survived 10 minutes' contact with Resignard at a dilution of 1 in 20 in all tests. The addition to all serial dilutions of methyl alcohol at a final concentration of 10% failed to kill the organism in 10 minutes at a Resiguard dilution of 1 in 100. The Nicholas Research Institute, which kindly checked our results, found that Resignard at a concentration of 1 in 80 with 6% isopropyl alcohol also failed to sterilize an inoculum of 10⁸ organisms/ml over any reasonable time scale. There was no loss of resistance to Resiguard after 20 sub-cultures of the organism on disinfectant-free medium.

Examination of the tap water used to prepare Resiguard in the operating theatre failed to reveal the presence of this organism and swabs from the taps were also negative. However, the same strain of Alkaligenes faecalis was found in the theatre drains, gulleys, floors, and windowsills. Sterilizing the containers when fresh Resiguard is prepared has eliminated this organism not only from the containers but also from the other areas of the theatre, and one can only presume that the organism was being spread throughout the environment by the contaminated disinfectant.

As we are not aware of any published literature relating to the survival of vegetative bacteria in Resiguard at in-use dilutions, we feel that our experience is worth reporting .- We are, etc.,

> J. M. H. BOYCE H. M. MEDDICK

Department of Bacteriology, West Cardiff Area Laboratory, St. David's Hospital, Cardiff

Glucagon Therapy in Acute Pancreatitis

SIR,-With respect to your leading article (1 December, p. 503) on glucagon therapy in acute pancreatitis, there are several points which we feel warrant comment. Though the mortality in acute pancreatitis has been reported^{1 2} as approximately 25%, several authors have recorded much lower figures. Lukash³ in the U.S.A. and Louw, Marks, and Bank⁴ in South Africa have all recorded figures of less than 9%. A recent prospective survey in Glasgow⁵ conducted over a two-year period has revealed an overall mortality of 11.5% in 78 patients. For those patients treated conservatively without either the use of protein (Trasylol) or glucagon, the mortality was 6% (four deaths in 67 cases). It may well be that more seriously ill cases are included in some treatment series than others but it seems that an overall mortality of 25% may be somewhat high for the modern conservative management of acute pancreatitis.

Conservative treatment is not directed simply towards the "control of circulatory collapse, relief of pain and prevention of secondary infection" but includes monitoring for the well-known and often insidious associated acute renal failure, coagulation abnormalities and, more recently, the use of high flow oxygen to counteract the hypoxia which often occurs.6

Though glucagon may well prove to be of value in the management of acute pancreatitis the report⁷ that the infusion of glucagon caused a decline in serum amylase levels is a poor reason for advocating its use. The rate of decline of serum amylase was indeed no faster with glucagon therapy than would have been expected without it. Further it was implied that the severity of an acute attack is equated with the level of serum amylase and this is far from proved. Indeed in very serious attacks serum amylase levels may rise very little.

The results with aprotinin used in a double blind trial⁸ are extremely interesting but reservations must nevertheless be expressed at the 25% mortality reported in the

of disease and response in acute pancreatitis.

C. W. IMRIE L. H. BLUMGART

Department of Surgery, Royal Infirmary, Glasgow

-We are, etc.,

- ¹ Efron, G., British Journal of Surgery, 1966, 53, 702.
- ^{102.}
 ² Trapnell, J. E., Annals of the Royal College of Surgeons, 1966, 38, 265.
 ³ Lukash, W. M., Archives of Surgery, 1967, 94, 948

- ³ Lukash, W. M., Archives of Surgery, 1707, 27, 848.
 ⁴ Louw, J. H., Marks, I. N., and Bank, S., Postgraduate Medical Journal, 1967, 43, 31.
 ⁵ Imrie, C. W. In preparation.
 ⁶ Ranson, J. H. C., Roses, D. F., and Fink, S. D., Annals of Surgery, 1973, 178, 75.
 ⁷ Condon, J. R., Knight, M., and Day, J. L., British Journal of Surgery, 1973, 60, 509.
 ⁸ Trapnell, J. E., Rigby, C. C., Talbot, C. H., and Duncan, E. H. L., British Society of Gastro-enterology, Autumn Meeting, 1973.

The Solitary Thyroid Nodule

SIR,-The leading article on the solitary thyroid nodule (10 November, p. 310) was rich in valuable practical viewpoints on an old problem. I noted with special interest, however, that it reported a wave of enthusiasm on the continent for fine needle biopsy of thyroid lesions but commented that the degree of accuracy of this method is not high enough to justify its general use.

Living in one of the corners of this continent I have the impression that the "wave of enthusiasm" belongs to history and that, at least in my country, fine needle puncture has become an indispensable routine measure in the diagnosis of thyroid disease. I would be unwilling to manage a patient with a thyroid swelling without the information obtained by cell samples from the abnormal tissue, but I have to accept the fact that most distinguished colleagues in England and the U.S.A. perform admirably without access to this piece of information. The reasons for this difference in attitudes are certainly complex; outside the international congress halls clinical medicine has always a strong local flavour.

It is true that the accuracy of cytological diagnosis of thyroid malignancy is far from absolute; the same is true of histological diagnosis, but for natural reasons histology will yield more cancers from the surgical specimen than one could expect from fine needle puncture before operation. This comparison is much more difficult than is usually thought, since histological diagnosis is an artificial exercise from the clinical point of view. If there were 23 unsuspected cancers in 365 thyroidectomies in the Mayo Clinic (certainly after the application of all types of diagnostic aids except cytology) one may suspect that they correspond to some of the cancers (about 1% of the samples) detected by fine needle puncture in the department of medicine where I am working.

Though thyroid cancer is after all not a first rank clinical problem lymphoid thyroiditis is. The diagnosis of Hashimoto's disease is little more than guesswork without the thyroid cell sample which always provides a reliable diagnosis. Lymphoid thyroiditis is common (7-8% of palpable goitres in our material) and a considerable number of these cases will turn up within some years with manifest myxoedema and often advanced coronary disease if not previously treated with thyroxine in the thyroiditic phase of the disease.

Fine needle biopsy may be valuable in the diagnosis of thyroid cancer but it is indispensable for the diagnosis of thyroiditis and thus for the prevention of myxoedema. It is a simple and innocuous method-but it is, of course, possible to manage thyroid disease also without it.—I am, etc.,

NILS SÖDERSTRÖM

Department of Internal Medicine, University Hospital of Lund, Lund, Sweden

SIR,-With trepidation a physician joins the argument about the radical treatment of the histologically-but not clinically-malignant thyroid nodule by total thyroidectomy. Histological malignancy in the thyroid nodule, as in the prostate, cannot have the same implication of biological malignancy as in other sites: witness the small number of patients dying from thyroid cancer. Radical thyroid surgery will create some hypoparathyroidism and damage to laryngeal innervation. The damage is likely to involve more patients than will be benefited .-- I am, etc.,

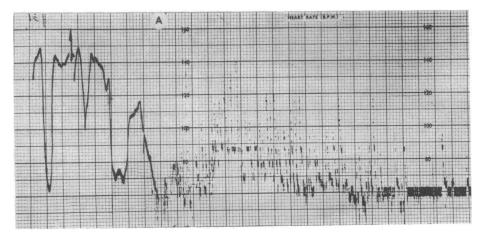
H. J. GOLDSMITH

Liverpool Regional Urological Centre, Sefton General Hospital, Liverpool

False Interpretation of Fetal Heart Monitoring

SIR,-In reply to Professor R. W. Beard's letter (17 November, p. 420) concerning the false interpretation of fetal heart records we should like to present a case in which fetal monitoring was in use during an intrapartum death.

An unmarried 17-year-old primigravida was admitted at 34 weeks' gestation with abruptio placentae. The fetus was presenting by the breech. Low amniotomy was performed and an electrode applied to the fetal buttock. The fetal heart rate at this stage was 140/min., but after some episodes of bradycardia it became unreadable on the monitor (see fig.) and inaudible with the Pinard stethoscope and a Sonicaid D205 ultrasonic detector. Gain adjustment on the fetal heart monitor to its maximum value produced a regular reading of 60/min., which did not appear to correlate with the



maternal pulse. Thinking there might be a chance that the baby was still alive the patient was prepared for immediate caesarean section. A few minutes later in the operating theatre there was no evidence of fetal life with either ultra-sound or the electrode (viewing the signal with an oscilloscope). The patient was allowed to continue in labour, and five hours later a fresh stillborn baby was delivered vaginally. The placenta was grossly infarcted and there was evidence of recent separation.

The monitor used is built to our own design and incorporates two features which make false interpretation unlikely-namely, manual gain control and direct audio presentation of the fetal E.C.G. We were therefore able to recognize that the signal had degenerated (point A) and that the 60/min. tracing was not a true fetal heart record but either maternal-derived or a spurious oscillation. We conclude that fetal E.C.G. activity ceased shortly after point A. Machines such as the Hewlett-Packard, with automatic gain control, would indeed have switched from the fetal E.C.G. to the smaller signal without being noticed by the obstetrician. One of us (R.J.P.) has a further tracing showing the same pattern of replacement of the fetal heart signal by a lowfrequency oscillation with eventual stillbirth delivery, but not being present cannot verify that the events occurred as reported above.-We are, etc.,

R. J. PARSONS JOHN R. SUTHERST

Department of Obstetrics and Gynaecology, Jessop Hospital for Women, Sheffield

Confidentiality

SIR,-Anyone who believes in the confidentiality of patients' records, hospital or otherwise, is out of touch with reality. For example, in this area, as no doubt in most, general practitioners' requests for consultations are made on letter forms with a gummed margin. The clinical details are sealed inside and only the patient's name, address, etc., is open for inspection. Over the years I have, on occasion, presented these forms personally at various hospitals in this area. At first I was startled at the nonchalance with which the ladies behind the counters tore open the forms and studied the contents. It was explained to me, and I now accept, that this is necessary for administrative reasons. Some of your readers might disagree. On those occasions when the clinical details are particularly confidential I attach a note to the form saying: "To be opened only by Dr. X or his immediate deputy." I have never presented such a note personally but have no doubt that such a request is respected.

Even so there is no certainty of avoiding breach of confidence. After one such referral the patient later chided me for describing her in my letter as "rather odd." She admitted having read my letter in the consultant's office. Patients not infrequently report that their hospital records have been "lost." This usually means temporarily mislaid but leaves scope for breach of confidence. Similar comments could be made on the handling of general practitioners' records. To err is human.-I am, etc.,

F. LEVY

Screening for Phenylketonuria

Liverpool

SIR,-We are concerned with the many severely subnormal persons whose condition is of unestablished aetiology.1 To this end we suggest that consideration should be given to screening pregnant primiparous women with the Guthrie test² rather than screening all infants for phenylketonuria.

Whatever the eventual situation with reference to variants of phenylketonuria it appears that women with an elevated level of serum phenylalanine are at risk for having retarded children.3 Stern' says: "There is probably no absolutely safe level because of the multifactorial nature of the problem. There may be slight risk even to the child of a heterozygous mother because the placenta concentrates phenylalanine." A further complication may arise in the child of a heterozygous mother; not only will the phenylalanine be concentrated but the child's own enzymes may be deficient.

By screening the mother's blood for phenylalanine when blood is taken for W. R., grouping, et cetera attention will be focused the on heterozygote and homozygous mother and appropriate steps taken for those at risk even if the child is eventually shown not to have classical phenylketonuria. An awareness of this state may have obstetric advantages since Saugstad⁵ found an increase of perinatal problems (abnormal pregnancy, difficult labour, and neonatal asphyxia) in phenylketonuric infants and also felt that the heterozygous state of the mother could contribute to early problems.

For those to whom economic considerations are of prime importance, there is the added advantage that once a woman is found to be normal (as far as phenylalanine is concerned) there will be no need to test her again or to screen any of her subsequent offspring.-We are, etc.,

B. WINOKUR

F. E. JAMES

Fieldhead Hospital, Wakefield

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