PRACTICE OBSERVED

Practice Research

Factors influencing rubella immunity in women

RACLUBB. GAW DOVE. LE MACINNES. SHIND

The incidence of congenital rubella has not fallen recently.¹ The rubella epidemic of 1978 took in toll in an increased number of therapeutic and spontaneous abortions and congenital atoms-lies (National Congenital Rubella Surveillance Programme). Few would favour complacency in considering the effectiveness of rubella immunisation programmes, whether those adopted here or in the United States. We realised that a programme could conveniently be combined with examining their immunes state. Continual monitoring of immune state is important, particularly for indicating how beneficial the policy of immunisation of secondary school children is in Britain.

Since most family planning clinics fall to scene for rubella immunity' and screening at antenstal clinics is of limited use because 40% of infants damaged by rubells are frankorns, the logical place for worth of troble in mountal appears included in the control of the control

We studied 431 women patients, aged 17 to 30 years. Numbers were evenly spread throughout this age range. One hundred and hintenen pasients (8%) yeardled herby goes immunised (the remainder answering either "no" or "don't know"), while 164 (38%) recalled having had a tubble infaction. Severy spicients were unswere of the risks of rabella during pregnancy. Of the 431 women, 371 (8%), were expositive (141.1-10). Of the 131 who recalled being immunised, 100 (88-%), were expositive compared with 271 (8%), of the 318 with no recall. Of the 164 who recolled having as intenction, 150

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Patient No

strients did not enter the study: five claimed to have been screened (two by general practitioners; one in a family clinic; one (a nurse) in hospital; one in France). The er were either wary of venepuncture or insisted that they had est in becoming pregnant.

We found that the amount of increased work and the small one required of the project were by no means prohibitive, and we were fortunate in having the services of both the micro-piology department of the local hospital and a computer, which make analysis rapid and eary. Most patients were sware to some order of the state of the state of the state of the programment of the state of the state of the when questioned; four the 431 patients had no knowledge of this when questioned;

letter to each defaulter, but it is obvious that the problem of producing a seropositive population, in our area at least, does not end with the identification of immune state. We shall give careful consideration to how much effort and money can be devoted to encourage reluctant women to strend for immunisa-devoted to encourage reluctant women to strend for immunisa-

careful consideration to how much effort and money can be devoted to encourage reluctant women to attend for immunisation.

The overall prevalence of rubella immunity was 86%, compared to 70%, 80%, and 92%, in other studies. ** This is an unantifactory but not unexpected figure and only stresses the acceptance of the studies of the studies of the control of the studies of the control and immunities women of child-bearing age, since the routine immunisation of schoolights falls short of producing a protected population. Because of the difficulty in accurately disgnosing clicical rubells, we did not satisfages that recolling a previous infection with rubells would have an important bearing to immunity. Although previous infection should not be regarded as a guide to immunity, it is notable that the prevalence of accomparity women among those who routed having had an infection (17%).

It might be thought that the correlation between immunity and recollecting previous immunisation would be greater than the correlation between those recalling immunisation with recalled infection: in fact the difference in the prevalence of seronegative women between those recalling immunisation with recalled infection (17%).

It might be thought that the correlation between those recalling immunisation with recalled infection in fact that the difference in the correlation between those recalling immunisation (11-5%) and those not (15%) was appreciably less—that is, 22% of those found to be susceptible to rubella immunity. But it may in part be due to a false recollection of immunisity, But it may in part be due to a false recollection of immunistion, which is suggested by the fact that only 26%, recalled being immunised. This falls far short of figures that way regionally from 61% of 18% of 16-year-old gifts in a not of London, with rapid patient tumover and a large proportion of immigrants—the number that would be expected to have truly been immunised would fall short of the autional expectation.

We did not attempt to establish th

truly been immunised would fall short of the national expecta-tion.

We did not attempt to establish the most accurate previous immunisation data by searching school clinic records, etc., because we regarded the patient's (and perhaps the doctor's) conception or misconception of her likely immunised and who conception or misconception of her likely immunised and who the 11 women who recalled having been immunised and who would reasonably presumptive soil and preparamed to be) and the properties of the programme of vaccinating schoolgrif is, we analysed the results according to date of birth (table). Unlike Carke and colleagues, "who studied a much larger population, we were unable to show any increase in prevalence of immunity in women born after 1956. Their population, however, was made up of university students and

ear of birth	No Seropositive	No Seronegative	% Positive
1948	1	2	33
1949 1950	12	1	33 92 92 78 89 83 86 87 86 87 88 93
1950	23	2	92
1951	122 223 225 225 336 36 36 277 33 277 228	6	78
1952 1953	- 25	3	89
1953	33	7	83
1954	36	•	90
	36		83
1956 1957 1958	36	6	86
1957	27	4	87
1958	33	6	85
1959	27	5	84
1960	28	2	93
1961	9	1	82
1962	9	•	100
1963	4	1	80

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BESTISS MEDICAL JOURNAL VOLUME 282 24 JANUARY 1981 voluntary blood donors, who may represent selected groups of the population in terms of vaccine acceptance. In contrast, the low (recalled) acceptance rate of 26% in our study emphasise that we were dealing with a different, cosmopolitan population. The characteristics of our practice community are further illustrated by the obstetric histories. Of the 431 women, 67 were mothers and 90 had had postnessou or therapeutic abortions. Because of the low parity rate and hence the small number available for study no meningful conductions can be drawn about the effect of parity on immunity. Only two of 67 mothers were acre-proportionately small number (3%) hims at the anticipated benefits of antenstal rubella screening and subsequent vaccination.

Conclusions

Over 11 months 431 women patients aged 17 to 30 in our West London practice were serologically tested for rubella immunity. At the same time they were saked whether they had been infected with German measles—35% said yes; whether they had been vaccinated—26% said yes; whether they had been vaccinated—26%, said yes; and whether they know of the risks associated with German measles in pregnancy—46%, said yes. The overall prevalence or immunity (HAI >10) was 86%, Among those who recalled being vaccinated it was 88 5%, and smong those who had not it was 85%, Of those who recalled having had rubella, 91-5% were immune compared to 85% who relation to age, and only two of 67 parous women were seronegative. Among our patients of child-bearing age a rubella

"immunity gap" of 14% was confirmed. The rate of recalled vaccine uptake in our cosmopolitan practice community—not perhaps nationally representative but not an unusual one, either —was discouragingly low.

The results were stored and analysed by means of a computer link-up between the practice and the Easter Community Health Services Computer Project.

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 Goringa M., Reisler R., Colley J., Hellivell W., Bowker CH. Vaccination of rubella-succesible woman during cand contraceptive care in general rubella rubell

Beyond the Surgery

Doctor in a cave

DONALD THOMSON

Caving is not really dangerous, at least compared with climbing or playing rugby or sitting at home worring about the practice. Many good men have died on the squash court, and even jogging has had in Raulicie. I suppose, however, one must accident occurs in a cave there are problems excussing the victim. Mendip is a small caving area, where the caves are constricted and complex, and our cave rescue expansiation has been active for the past 35 years. Caves were first described on Mendip in the eighteenth cantury. The first victim was, it seems, one Phumley, who was lowered by workmen into a pix in Burningson. There something frightness him and in the ensuing pantle he was pulled up into entered in 100, and is still being extended. The Foury Four Pto was passed in 1914 and the next vertical feature, the Twenty

Leigh-en-Mendip, Both DONALD THOMSON, MB, CHB, general practitioner

Foor, about 1920. The Sump was reached soon afterweeds; this is a pool into which the cave tream vanishes. It was not passed suntil 1936 when, on Cerobse 44th is a diricum; the state of the passage beyond. It was a desperate attempt and only used after a charge of 110 pounds of geligatine fired by an Jahren 'lock had failed to remove the overlying rock. Over the hill a mile sway Bastware Swalter had been entered in 1902 and most of it explored quickly. It is quite different in character from Swildon's Hole. It stars with a jumble of boulders, many of them several cubic yards in size, and is about 60 fore (18 na) from top to connecting passages last to the bottom of the cave. A choice of routes takes one down either two pitches or one long climb and a 40 foot (12 nn) pitch, but a cutious characteristic of Bastware is that the onward route is not at the bottom of the cave, A choice of routes takes one down either two pitches or one long climb and a 40 foot (12 nn) pitch, but a cutious characteristic of Bastware is that the onward route is not at the bottom of each pitch; one has to leave the ladder and traverse. This has led to more than one accident and some very near misses.

The discoveries of great caves of Mendip followed—Swildon's Hole and Eastwater, GB Cave in 1999, the greater part of Stoke

Lane 1947, and St Cuthbert's Swallet in 1953. More caves have provided more traps for the unwary. In the early part of the century transport was by bicycle, with donkey carts for major expeditions. Standard caving ciothes were Norfolk jackets, lighting was by candles, and ladders were constructed of rope and wood. The advent of the motor-cay, the electron ladder, Nicad electric cells, neoprene wet suits, and man-made fiber ropes have made long, wet expeditions very much easier. Accidents now tend to occur further in, and we have had to become less amateur.



Mendip Rescue Organisation

My contact with the Mendip Rescue Organisation (MRO) began about 1947 when it became evident that with more leisure and easier access to caves more people would be caving and therefore accidents would be more likely. It continued through medical school at Bristol but was interfered with by a spell in the services. In 1964 I succeeded to a rural practice in north Somerest and soon became honours medical officer to the covered to the services. In 1964 I succeeded to a rural practice in north Company of the Company

ENTIRES MODICAL JOURNAL VOLUME 252 22 JANUARY 1981
COULD contribute and visibled to do so. Any changes were to be
made at an annual general meeting when the chairmanship would
be robewed and a treasurer and suditor appointed. The whole
between the country of the country of the country of the country
committee of general cevery. These the country of the country is assured and too much argument
avoided; the most active and writtled cevers are most involved;
and years of experience lead to useful knowledge of the caves
and to familiarity with patterns of excidents. Our most strickent
critics are usually allenced by inviting them to become wardens.

Rescue work

All cave rescues are initiated at the request of the police. They are ultimately responsible to the Home Office for coping with such socidents, and we can use their radio links and are, while working as their agents, covered by insurance. The list of working is their agents, overed by insurance. The list of working the site of the samulty. Outside the caves are notices advising the site of the samulty, outside the caves are notices advising the site of the samulty, outside the caves are notices advising the site of the cave of the samulty of the samulty. Outside the cave is a samulty of the samulty of

DOUPMONT

The weeden in charge on the surface arranges for equipment to be brought from the revoca store. This is centrally placed on Mendip and is opened by a combination lock so that access can be arranged by radio or telephone. It contains stretchers, carrying sheets, ropes, ladder, spare lamps, and food. It also contains some medical equipment, such as plaster-of-Paris but no morphine, which might encourage burgiery; a little-perasoncine and diszapam is kept there. MRO doctors prefer to equip themselves with emergency largagoscopes, other appearance of the store of the first processing and personal proposition of the part was not expected and purpose-built stretcher designed as a degree project by David Mager are acquisitions of the part two or three years. Simple items like hot water bottles, space blankets, and calor gas cookers are also instanced to the part was or three years. Simple items like hot water bottles, space blankets, and calor gas cookers are also instanced to the part was or three years. Simple items like hot water bottles, space blankets, and calor gas cookers are also instanced to the part was on the past was a shelf life; and lamps need servicing.

Since acquiring this equipment we have felt more able to deal with the emergencies. We started with no money and little equipment. Waterproof clotching was too beavy of their every and discussion about fallen boulders persuaded us to buy the hydralic jack. Donations from the MRO personnel, other cavers, a little from victims, and most from a collecting box in the outdoor equipment shop in Wells provided funds. Ideas

have been exchanged with rescue services in other coving areas, especially Devon, Yorkshire, and Derbyshire. The Derbyshire people had perfected rescues from long mine tunnels with vertical pitches of two or three hundred us a sight stretche borrified by our or the control of the control of the workship with the which would not fit into many of our caves. The radio link is perhaps our most ambitious sequisition, and its use in the sleet on Mendig in November last year alone justified its purchase.

A few rescues seem to stand out in one's memory. We wondered for years how we would cope if we had to bring a victim back through the sump. When it happened—broken leg some 300 feet (915 m) beyond the sump—it was very easy. We have been expecting to have to manage medical emergencies that the control of t

From time to time we see people who go down ladders or through sumps and refuse to return. In dealing with these the technique known as "Fred's boot," has been used with success, Fred Davies is a caver of great experience and he can be relied upon to assess correctly the victim who can help himself and will not. Fred's boot is thought to be endowed with magical injury has occurred, confidence and sympathy plus some hot soup and glucose tablets are much more useful.

Some rescues have not been without an element of facet. Two Army officers let it be known they were going caving on the Mendips and went absent without leave. Every cover on Mendip search Stoke Lane Swuller when a car containing caving clothes was found in a lay-by near the cave. The missing nam was found by police pasining the inside of a nearby caving headquarters. A group in Swildon's Hole mistook the route from a high level passage and absended own into a blind por, pulling the rope down after them. Fred was the first to reach



Cave rescue workers have considered their attitude towards accident prevention. While we are prepared to pass comment when people are stupid, when they use dangerous tackle or unsafe belays, we think it would be wrong to overprotect. In Mostadale in Yorkshire some years ago the cave entrance was closed after six cavers were drowned in a sudden flood. It has been suggested that all that was done was to close the safest exit. Caving offers an escape from too much of society's control, and it would be a pity to restrict this.

The paffion of anger ruffles the mind, difforts the counterance, hurries on the circulation of the blood, and difforders the whole vital and animal fanctions. It often occasions fevers, and other scute diseler; and fometimes even fuedem death. This paffion is peculiarly hurful to the delicate, and those of weak nerves. I have known fuch performs frequently lost their leves of the paffion with the turnoft care.

It is not indeed always in our power to prevent being angry; but we may furely avoid harbouring referentment in our breaft. Referentment preys upon the mind, and occasions the most oblitate chronical disorders, which gradually walle the conditution. Nothing flews true greatened of mind more than to forgive inquires: it promotes the peace of fociety, and greatly conduces to our own eake, health, and felicity.

SUCH as value health should avoid violent gutls of anger, as they would the most deadly posion. Nother ought they to indulge references, but to endeavour at all times to keep their minds calm and ference. Nothing treads for much to the health of the body as a conflamt transquality of mind.

(Buchan's Domessic Medicine, 1786.)

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holiday. You will have to do only a basic 20 hours a week in order to get maximum allowances from the FPC. You will take over all the family planning, smears, and maternity work to increase the practice income. The potential is enormous with all the neurotic, lonely, bored commuter housewives."

Do you enjoy constry life? Join us in rural Norland. Early parity, full dispensing "It is pure bell here in winter. The calls are impossible, the hospitals inaccessible. We have to cope. As to deputising services—forget 'em, You will have to go out to road accidents on the motorway. All those isolated villages are crying out for a doctor. Money won't be a problem—time off and holidays will."

Your family will love living on the south coast of England with its balmy climats. Our two-man...
"We need someone else to look after all the temporary residents in this geriatric dustbin next year while the present

Third partner to join too established principals in Elysium on Thames. The practice is conducted from ... On reading bith, Jan decided he need look no further. This was it. He spent a happy hour or two composing a curriculum vitace that he thought would put his own qualities in the best light and impress the two partners.

This is the first of four articles on finding a practice

Emergencies in the Home

The psychiatrically violent patient

P W SHORT

When considering the violent and psychiatric patient it is im-portant to remember that the terms "violent" and "psychiatric" are neither interchangeable nor complementary and that they may be applied separately or together. Thus not all violent patients will be suffering from psychiatric illness, nor will all psychiatric patients be violent.

Having received an urgent request to visit a violent patient, one of the first decisions to be made is whether the cause of the patient's problem is organic or psychiatric. (The general practitioner will usually have the advantage of knowing the patient's medical history, and this will be of great help when making a diagnosis.)

ORGANIC CAUSS INCLUDE:

Metabolic—O. Ingention of drugs or alcohol (most of us will have met with the violent drunk or petient suffering from delirium tremens). (2) Hypoplycaemia. Hypoplycaemia Hypoplycaemia patients may be quite violent. (Peter Hall' mentions this as being infrequent, but, having an irreposable tectange dashets who reacts in this way in any own Infective—A typical example of an infection that may produce a violent non-cooperative patient is menigitis.

Organic brain domage—(1) Post-brain injury with reduction of inhibitory centre. (2) Senile dementis—patients may be both violent non-cooperative patient is made to the post-patients of the post-patients of

Paranoid state—Schizophrenic patients, for example, may some-times progress to violent behaviour as a result of their delusions of presecution.

Psychopathics—By definition these patients are both aggressive and violent and this should be borne well in mind when attending

them. Depressive states—Depression sometimes results in violence, which may be directed outwardly, inwardly, or both (for example, attempting to kill one's child before committing suicide). But the state of the st

OTHER CAUSES INCLUDE:

Bouts of plain bad temper or rage. Political acts of violence by "normal" people—although these acts seem to be all too common, they do not often come within the province of general practice.

General care must be exercised when confronting a violent patient who may be very dangerous (an injured or dead doctor only compounds the problem). The doctor must not be seen to be frightened by the patient even if he is. He must be calm and unburried in his approach. He needs to be willing to talk to and listen to the patient, which may help the patient to calm down—a fact which has been amply demon-strated in various "sieges" around Europe.

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Pitfalls in Practice

Finding a practice

I: The adverts

IOHN OLDROYD

This article is based on an audiovisual presentation made for vocational trainees in general practice by the MSD Foundation.

Dr Ian Keen was ready to put all his expensive training to use in the service of the sick. The time had come for him to apply for a position on a family practitioner committee (FPC) list. He wanted to use all the stills that he had learned, polished, and honed during his life siace O levels, culminating in his soon-to-be-completed vocational training. If you are in the same position you'll realise that good persurers are as difficult to find of the same position of t

CHRISTIAN DOCTOR with sense of humour wanted to join 65-year-old single-handed principle with full list in northern industrial town. Early parity giving a gross of £13000. Outside work encouraged; there is scope for development of progressive practice ideas. Dr Ramsbottom, The Id Unitarian Chapel, Stution Road, Illihwistic.

SALARIBD PARTNER required by single-handed male principal with abore-average list in urban Home Counties north of Leadon. Would said a lady doctor with domestic commitment who is interested in Sanity planning and maternity work. Remuneration will be generous and determined after resolving the duties to be performed. Box 12345 BMJ.

DO YOU ENJOY the country life? Join us in rural Norland. Barly parity, full dispensing, sample opportunity for increasing list size. Opportunity to use your claimal training to the full. Initial share worth £10 000. Appl Dri Grouse & Partridge, Amblethorpe, Norlandshire.

and Smooth, Blue Peter Surgery, Marine Pands, Frighthaven.

AN UNUSUAL type of doctor required by a proper stave, forward-looking GP who still compressive, forward-looking GP who still compressive, forward-looking GP who still compressive the still compressive the

THIRD PARTNER to Join two established principals in Elysium on Thannes. The practice is conducted from owned premises in this market town which has excellent ranges of housing and good schools. Ancillary staff employed, strucked health visitor and district nutre. Salary 1,0000 at start with review. Curriculum vince please to Drs Sharpe & Idia, Regency House, The Market Cross, Elysium on Thannes.

While many advertisements are exactly what they seem, there are some where it pays to try to read between the lines. What do the above advertisements really offer lan?

do the above advertisements retaily once; ana r

Christian doctor with sense of humons wanted to join 45-year-old
single-hunded principal with full . . .

Ramboutcon has soldiered in the treaches for us long as he can
Ramboutcon has soldiered in the treaches for us long as he can
exceed to the sold of the soldiered state of the control of the control
exceeding the position of the control of the control
exceeding the position of the soldiered staff, and the
primary care team—but he is willing to take a substantial cut
in income to get the jon this own terms, even if it means fighting
for a clinical assistantially. It will, however, have to be on his
own terms, which means no inmigrants and someone who will
be a social friend and will share his cytical appreciation of his lot.

Salaried partner required by single-handed male principal with above-average list in urban home counties . . . "I need someone to give cover for me when I go off on

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When the general approach fails the use of drugs will probably be required, and it is necessary to seize the chance to give them as soon as the opportunity presents itself. (Do not forget that to give drugs parenticeally without the consent of the platent is an act of sasult, so most eventualistic the patient time.) The following drugs will cover most eventualistic.

Diazapom (Valism) 20-40 mg intramuscularly. This drug may have inte on one fleet on the patient who is already being treated with diazapam; but it is otherwise useful in calming the agitated or hysterical patient.

Chilorprometine (Largacii) is effective in controlling the patient in Chilorprometine (Largacii) is effective in controlling the patient in acute schizoid state. The dose varies with the age and sex of the patient—a fit young man will require 300 mg intramuscularly, while 200 mg intramuscularly is utitable for a woman patient. Older patients

an acute schizoid state. The dose varies with the age and sex of the patient—if to young man will require 300 mg intramuscularly his leads to the control of the control of

Medium-term action

Medium-term action
It may be necessary to admit the patient. If a crime has been committed the police remove the person concerned into cuntody. Otherwise the admission may be compulsory or voluntary. Voluntary admission to be in obtaining admission to approximate postplant problem seems to be in obtaining admission to psychiatric hospital, which always seems more difficult than other kinds of admission. If it is possible, however, everyone perfers that the patient agrees to beapital admission. Compulsary admission—Under the 1999 Mental Health Act Compulsary admission—Under the 1990 Mental Health Act Compulsary admission—Under the 1990 Mental Health Act Compulsary admission—Under the 1990 Mental Health Act Compulsary admission and the second to the 1990 Mental Health Act Compulsary admission and 1990 Mental Health

cheff, even withen provided that the persons tigning the section superthat the patient is a danger to himself or others, or both, if allowed
to remain where he is. (For Scotland and Northern Ireland see
below.)

Section 13.

Section 13.

Section 13.

Section 13.

Section 13.

Section 14.

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workers discourage us from using this method, saying that it is not in the patient's best interest. The disadvantage of compulsorily admitting a patient to a psychiatric hospital with "Open" wards is that the patient may easily walk out again, sometimes within hours of having been admitted.

Conclusion

While it may not be possible to provide a cure for these patients, much can be done to try to prevent a recurrence of the acute much can be done to try to prevent a recurrence of the such some control of the shole family at a level they can understand, which should contribute to better control of the underlying condition—for example, once the family of a schizophenic patient fully understand the importance of regular medication in the prevention of relapses they may be able to persuade the patient, to take them regularly. It may also be possible to explain to to take them regularly. It may also be possible to explain to the family that the reduction of tensions and pressure on the patient will cause fewer relapses.

Scotland and Northern Ireland

Scotland and Northern Ireland
Scotland and Northern Ireland are covered by different
Acts, but there is no difference in the intent of the Acts. The
relevant sections of the 1960 Act on Scotland are Section 23,
which is equivalent to our Section 25, and Section 31, which is
equivalent to our Section 25. Sections 135 and 136 are represented in the Scottish Act by Sections 103 and 104. In Northern
Ireland the 1961 Act can be invoked.

My thanks to my wife Susan, Mrs J Gould, and Mrs A Lacey-Hulbert for help in preparing this paper.

Hall P. Notes on the management of psychiatric emergencies. Update 1978; 17:933-40.

Oddity remembered: top secset

I was born before the first world war in the village of Trecynon care Aberdare. My father was the local doctor, and most of his area Aberdare. My father was the local doctor, and most of his 1921 the people suffered great poverty. My father's relative wealth isolated my beother, my sister, and myself from the other children. Children's play was the one activity that brought us out of our isolation: physique with tops and hoops, high becks, leadfore, loop-was plying with my top in Trecynon Square with a group of other children and whipped it through the window of Mrs Branat's never taken. She had a ganger car who sleyt inside the window; I missed humand the window of Mrs Branat's never taken. She had a ganger car who sleyt inside the window; I missed humand the window.

Some years later I was called to see Mrs Evnats' grandson who had pneumonia. By then we were using subhpayridies, but Mrs Evnats had other ideas, five, in spite of the steach produced in the bedelchets. The principle on which her treatment was based was that if the sheep's lungs rotted repidity in meant that they had drawn the infection from the child. The child recovered so Mrs Evnats and the produced to the principle on which her treatment was based was that if the sheep's lungs rotted repidity in meant that they had drawn the infection from the child. The child recovered so Mrs Evnats and the produced to the produced to the sheep's lungs rotted repidity in meant that they had drawn the infection from the child. The child recovered so Mrs Evnats and the produced to the steach produced the steach produced to the steach produced the steach produced to the steach produced to the steach produced the steach produced to the steach produced the steach produced to the steac

We will be pleased to consider for publication other interesti observations made in general practice.—ED, BMJ.

ecretariat for London Local Medical Committees, Tavistock House North, London WCIH SHT