Introduction

Throughout the 1950s and 1960s there was a growing awareness that young children presenting with fractures and intracranial bleeding were the victims of shouse by a parent or caretaker. In 1962 the term "battered child syndrome" was coined by Kempe af to describe a conditions where children had received severe af to describe a condition where children had received severe 1962 over 10% of children died and 15% were left with serious brain damage. It was recognised that, although children of all ages could be victims, most were younger than 3 years. In 1969 Shinner and Gastle studied 78 battered children. They classified 75% of the children in their sample as having suffered a serious injury—that is, head injury, fractures, severe

burns, and internal injuries. All the children in the study were under 4 years but 50%, of those who were injured were under 4 years but 50%, of those who were injured were under the study study of the incident that brought them into the study study of and, of those discharged home, three in every five required further treatment; of the 40 children followed up, 60%, were injured again. But with unexplained Concern for children presenting at hospital with unexplained Security produced a memorandum on non-accidental injury to children in which all local sutherities were asked to set up area review committees to coordinate a multidisciplinary approach to cases of child abuse. Representatives from all agencies who may be concerned in the care of children sit on these committees, which in South Gianorgan meets four times ment of the child abuse register, multidisciplinary training, and setting up and reviewing locally agreed child abuse procedures. The object of the procedures is to detect children who are injured or neglected and provide support for them and their families. It was hoped that this would help to reduce the committees early lessen the likelihood of more serious damage later. One of the reponsibilities of the committee is to ensure that all agencies dealing with children are aware of the various maniferations of child abuse and neglect and know the mechanism to be operated to help the child and family. In South Gianorgan (the child population under it is nemare that all agencies dealing with children are aware of the various maniferations of child abuse and neglect and know the mechanism to be operated to help the child and family. In South Gianorgan (the child population under it is nemare that all agencies dealing with children are aware of the various maniferations of child abuse and neglect and know the mechanism to be operated to help the child and family in South Gianorgan (the child population under it

Since 1969 there has been a safe, effective rubella vaccine giving prolonged immunity. In 1970 the Department of Health and Social Security recommended a programme of rubella immunisation for all girls aged from 11 to 14. Since 1970 the DHSS has expanded this programme to include the immunisation of older women who are non-immune, screening of groups at

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public do not have special training to detect child abuse nor are they responsible to locally agreed procedures. Many of these referrais are minor, unlike the few referred before 1974 that tended to be more extensive supplial where the presenting symptom is a soft issue injury have a radiographic camination of the skeleton. Very few children presenting with soft tissue injuries were subsequently shown to have fractures. When this did occur the child was automatically placed in the severe group for this study. Possibly children receive moderate injuries in the early stages of all treatment and prompt recognition and treatment avert more serious damage. If so, then there has clearly been a change in the diagnosing of child abuse to include the less serious cases. The decline in serious injuries is likely to indicate a real trend downwards since a serious injury is difficult to hide, although there may be delay before treatment at the children fractive again unseen the contractive of the c

the fear of a wrong diagnosis. This attitude may be minimised if the medical, nursing, and social work staff concerned are few and are experienced and sensitive people who are brought in as early as possible. On the other hand, figures suggest strongly that genuine prevention of serious injuries is related to early intervention and subsequent close monitoring together with increased help from medical and social work agencies.

The great publicity that surrounds a dramatic case of ill treatment or a faulity perpetuates the idea that the incidence of non-accidental injury to children is growing. Although it show that the yndrome is less serious in terms of type of injury than when it was first described in 1962, and early recognition and intervention have led to a genuine decrease in recurring ill treatment and permanently damaged children.

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1 Department of Health and Social Security. Ropers of the committee of children Committee of the Committee

(Accepted 13 October 1983)

Rubella immunisation: whose baby?

Only half of girls aged from 11 to 14 years in a new town practice of 11 200 patients were recorded as immunised against rubells in 1970. The practice then assumed responsibility for its rubells immunisations and in our years, by using a neg-ext register, achieved as the practice reduced the number of "rubells risk" patients from 40%, to 16%.

It is suggested that general practitioners are best placed to implement the rubells immunisation programme successfully, though they will need to be renumerated adequately for this time consuming work.

special risk—especially women seeking contraceptive advice—the immunisation of 10 year old girls, and screening all women of childbearing age.*-¹ Congenital rubella might be a disease of the past had this programme been implemented. Instead, successive epidemics of rubella leave in their wake damaged babies and distrassed families. The cost to the state is enormous. The contract of the contract

In 1973 I established a new practice in Strichley, a district of Telford New Town, in Shropshire. I set up an age-sex register to comprehensive programme of preventive medicine. I filed my A4 medical records (FPIII) geographically, by street and number. Thus the records of the members of a household were filed side by

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Patients and methods

Patients and methods

This roudy examines the clinical features of all the children in South Clinorogen where non-accidental injury was diagnosed from secidental injury is supected are medically examined either by a peclative senior registrar, consultant, or senior clinical medical officer working in the school health services. Hospital admission units in the country, Referral navy owner from any source, and a case conference follows within 72 hours of the referral. The doctor with clinical responsibility, the consultant psedatrician, so residor registrar streads the case conference, which is chaired by a senior member of considering the medical report and contributions from one segment; if a diagnosis of non-accidental injury can be upheld.

The data for this study were taken from the minutes of the case conference, all of which the study were taken from the minutes of the case conference, all of which the second the case of the second tensor of the second tensor. The age range of children in which the ill treatment was observed in 0-15 years. Injuries have been divided into two groups; (c) severe injuries, which include all fractures, internal was observed in 0-15 years. Injuries have been divided into two groups; (c) severe injuries, which include all fractures, internal was observed in officers, which include all fractures, internal was observed in officers, which include all fractures, internal was observed in officers, the consultant psedatrics staff have been furly constant during this period, ensuring a large measure of conformity of diagnoses.

Results

The 11 children where burns were the main injury are not included in the study, as it was impossible after prolonged evaluation to be ture that any one was non-accidental. The burns included small lesions to the turn of the process of th

	0	years	5.0	years	10-14 years	
Years	Severe	Moderate	Severe	Moderate	Severe	Moderate
1970	4	2		_	***	Treat .
1971	6	ž	_	-	-	1
1972	11	5	-	4		_
1973	3	3	****	1		
1974	q	27	-	4	-	2
1975	7	19		18	-	2
1976	ż	22	_	13	100	4
1977	3	14	_	23	-	6
1978	1	21	-	14		9
1979	3	23	***	16		1.2
1980	2	19	_	20	***	14
1981	3	24	-	14	_	18
Total N	o 59 (13°,	181 (42 %)		127 (29%)	_	68 (161)

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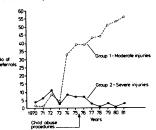


TABLE II - Source of all child abuse referrals through the child abuse pro

Referee	July 1970-4		1979-81	
Referee	No	*.	- No	*6
Social workers	19	17	143	21
General public	20	19	134	19
General practitioners	40	36	30	- 4
Hospital doctors	10	9	44	
Health visitors	5	4	113	10
School	5	4	116	17
National Society for the Prevention				
of Cruelty to Children	4	4	11	- 2
Police	3	3	26	- 1
Probation	Not recorded	-	24	
Clinical medical officers	Not recorded	-	9	
Others	5	4	36	
Total No	111	100	086	100

lasting damage. No major skull fracture due to non-accidental injury has occurred since 1977.

Table I shows that severe cases of non-accidental injury are confined to the younger age group. Interestingly, there is a steady to the state of the younger age agong. Interestingly, there is a steady to the property of the property of the property of the property of the younger age for the younger age. The younger age of the younger

Discussion

These figures show a considerable change in the observed incidence of the various types of non-accidental innury to children during the past dreade, which confirms a trend suggested by Marran and Buchanan in 1979. The observed increase does not necessarily mean that there has been a real increase in non-accidental injuries. The introduction of child abuse procedures, a heightnend awareness of the early signs, and greater skill in predicting child abuse through publicity and regular multidisciplinary training may account for the dramatic increase in referrals of moderate injuries. In the dramatic increase in referrals of moderate injuries in the dramatic increase in referrals of moderate injuries. In the responsible for 45% of referrals, falling to 10% in 1970-81. This points to a change in the referral pabits of other people, such as teachers and health visitors, rather than a change in the referral practice of doctors. Interestingly, the proportion of cases referred by the general public remains the same in both groups: 19%. Apart from publicity in the media the general

side. On the spines of the A4 records self adhesive coloured spots signalled information concerning prevention to the office staff, as I will describe later.

Has the Deen screened and the result? Has the or her husband been sterilised?

At first I obtained this information by noting any new and relevant information arriving at the surgery, which I recorded in a specific place in the medical record. The age-was regaster clerk then transferred place in the medical record. The age-was regaster clerk then transferred to the place of the parties and the parties of the parties grew, each new partner played a part in collecting and recording the information.

By 1970 the practice had stopped growing and five partners were looking after 11200 patients. Action and the partners were tooking after 11200 patients. Action we ought to be An analysis of the age-size register on I January 1979 showed that only half of school-girls aged from 11 to 14 were recorded as being immunised. This was clearly unsatisfactory and we decided to take action.

We aimed at eliminating congenital rubella in the practice by reducing the number of "rubella risk" patients to nil. We define a time of the control of the

Method of audit

Method of audit

We carried out adults by analysing the rubella data in the age-sex register for each appropriate year of birth. We counted the number of patients in each of five murally exclusive groups; sterilised, husband sterilised, serologically immune, immunited, and "rubella risk." When an already immunited patient was found to be immune on immune." All sterilised patients irrespective of other data were counted as "sterilised." (in other studies." If wise were considered at rusk despite their husbands having had a viacetomy.)

The patient of the sterilised of the sterilised

ACTION-JANUARY 1979

ACTION—JANUARY 1970.
After our analysis of the rubella data on 1 January 1970 we intro-duced rubella immunisation sessions for our schoolgiris at local schools each term. School secretaries distributed our explanatory letters and consent forms to pupils registered with the practice and a general practitioner and practice nurse held immunisation sessions at the schools. We contacted defaulters by letter. Patients who were known to be serologically ono-immune were also contacted by letter.

The first audit (fig 1) showed an improvement in uptake of vaccine in schoolgirls aged from 11 to 14 years from 50°, to 79-2°,. In addition, the audit showed that of our women patients aged between 14 and 40, 49 2°, were "rubella risk" patients.

12 14 16 18 20 22 24 26 28 30 32 34 36 38 Age (years)

ACTION-IULY 1980

ACTION—JULY 1980

We continued by kint the lecture of the expecte of possage and a disappointing 50°, response Contacting patients who were serologically non-immune by letter was abandoned for the same reasons. A new method of contacting these patients was introduced the A4 medical record of each defaulter or non-immune patient was marked with a coloured spot on the spine and a long, white card to the A4 medical record of each defaulter or non-immune patient was marked with a coloured spot on the spine and a long, white card contact so not the patient appeared at the health centre, for whatever reason, her notes signalled the fact that she was a "rubble inst" patient. The subject of rubbella was introduced and action taken. Hansen has confirmed the effectiveness of this opportunities upportsh. "Further-centre the household filing system enabled the presence of a "rubbella risk" patient in the household to be signalled and contacted.

From the "rubbella risk" patients remaining a target group was isolated: those women receiving contraception. When they attended the ungery for advoce they were offered screening and immunisation, if appropriate.

FIG 1—Analysis of the practice age-sex register on 1 July 1980 to show percentages of "rubella protected" and "rubella risk" patients by age.

The second audit showed an improvement in uptake of vaccine of schoolgirls aged from 11 to 14 from 79·2°, to 87·5°,. Of our patients aged from 14 to 40, however, 35·6°, were still "rubella risk" patients.

ACTION—JANUARY 1992.

Schoolgaria aged 10 were immunised in line with the Department of Health and Social Security circular of October 1981.* The target group was enlarged to include all women from 14 to 40, not merely those receiving family planning advice. This action pre-empted the DHSS circular of May 1983. This group was identified by using the age-sex register. Each month the age-sex register elerk examined the age-sex records of the 30 cohers to femilie patients aged from 10 to 40 whose birthdays fell in that month. If she identified a compared to the sex of the sex of

The third audit (fig 2) showed an improvement in uptake of vaccine in girls aged 10 to 14 to 9 10"... For the 12 year olds, a 95 4", uptake was achieved. Of our women patients aged from 14 to 90, 1598", were "rubella risk" patients. So far as we know no rubella damaged baby has been born to a patient in the practice since the programme started in 1979.