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COMMERCIAL IN CONFIDENCE

ARVI(86)/1st Meeting

ARVI/86/16

COMMITTEE ON SAFETY OF MEDICINES

JOINT COMMITTEE ON VACCINATION AND IMMUNISATION

JOINT SUB-COMMITTEE ON ADVERSE REACTIONS TO VACCINES AND IMMUNOLOGICAL PRODUCTS

Summary of suspected adverse reactions to vaccines report on Yellow Cards registered during the period 19 September 1985 to 10 January 1986

1. Suspected adverse reactions to diphtheria, tetanus and pertussis vaccines (DPT) and to diphtheria, tetanus and pertussis vaccine given with oral policyaccine (OFV)

Ninety suspected adverse reactions were registered during this period.

Adverse Reaction	Current Period	The section of the section
Deaths	ONTION LATIO	Previous Period
Encephelitis	deliters -	,
Convulsions	- 6	11
Infantile spanne	•	- 11
	-	water in the
Myoclonus/twitching	-	_
Collapse	-	-
Amaphylactoid reaction		-
Fever	18	14
Injection site disorder	37	22
Screaming or abnormal crying	12	12
Screaming and arthralgia		
White attacks		-
Cyanosis	,	
Cerebral irritability		-
Rash		-
Angio-cedema and rash		-
Vomiting		-
Other reactions	90	68

(a) Abnormal fever

who following a dose of Trivar developed initially a high fever, then acreaming, drowsiness, irritability and was off feeds for an extended six day period. No evidence of intercurrent infection was found.

(b) Cot deaths

- (1) A who after a first doss of Trivax AD (Batch Number and oral policyaccine on was found dead after immunisation.

 Was known to be alive after vaccination. The results of a post-mortem are awaited.
- (ii) Who received a first dose of Trivax (Batch Number and oral poliovaccine on and was found dead on was noted to the vaccine in particular, there were no screaming attacks nor was there any irritability. Cause of death Sudden Infant Death Syndrome.

(c) Cerebral irritability

An experience after a third dose of DFT vaccine, within two hours developed neck stiffness and crying followed by lethargy and reduced appetite. The recovered after five days. Three weeks before immunisation had an upper respiratory tract infection and still had a slight cough and snuffles at the time of vaccination.

(d) Convulsions

Six patients with convolsions or possible convolsions were reported. Details are given in Table I.

2. Suspected adverse reaction to monovalent pertussis vaccine

reports have been received. These comprise:

- (1) Who after a first dose of pertussis vaccine became restless and hyperactive for 12-14 hours.
- (ii) reports of injection site reactions.

3. Suspected adverse reactions to oral policyaccine

suspected adverse reactions were registered.

who after a dose of OPV had an influenzalike illness from which recovered in 24 hours followed 10 days later by severe stiffness of the neck lasting two days. There was no photophobia. was seen at that time by the general practitioner but he felt that the stery suggested possible meningism due to the oral policyaccine had received. The had also been immunised against typhoid and cholers at the same time. (ii) A baby who became irritable, off food and not three days after a third dose of oral policyaccine. These symptoms persisted for six lays.

(111) A child who after a first and second dose of oral policyaccine became sleepy for three days and had diarrhoes for four-six weeks. The third dose of OFV is to be given separately from the triple Vaccine.

4. Suspected adverse reactions to diphtheria/tetanus and diphtheria/tetanus given with OPV

During this period 26 reports were registered. They are analysed in the following table.

Adverse Reaction	Primary Course	Booster	<u>Total</u>
Cot death	-	•	_
Convulsions			
Injection site reaction Injection site reaction and fever	_	13	
Fever	-		
Rash		· ~	
Vomiting		. •	
Izritability and pallor			
Other	gric.		
Totals	8	19	27

(a) Convulsions

*

Details of patients who had suspected convulsions are given in Table II.

(b) Other

A who six to eight hours after a booster dose of diphtheria/tetanus vaccine developed severe vomiting and collapse with abdominal pain.

5. Suspected adverse reactions to tetanus vaccine

Seventy-two suspected adverse reports were registered. These include:

(i) A report of 13 injection site reactions occurring in a school following the use of tetanus vaccine (Batch Number 1992). No other adverse reaction reports received by the CSM have been associated with this batch. There was also a report of 29 adverse reactions associated with tetanus vaccine (Batch Number 1992) and OPV (Batch Number 1992), in two adjoining schools. Eight amongst 81 children in one school had adverse reactions; six had injection site reactions, one accompanied by fever, one with lymphadenopathy and one child had nausee and dizziness: two had headaches. In the nearby school, 21 of 82 children were suspected of having adverse reactions. Fifteen children had injection site reactions which in four was accompanied by malaise and one by a rash, four had influenza-like illnesses and two had upper respiratory infections.

The CSM had not received any other suspected adverse reactions reports associated with this particular batch.

(ii) A who can the day following an injection of tetanus toxoid and dose of oral policyaccine developed diarrhoes with streaks of blood which ended some 11 days later. On the 12th day after immunisation developed arthralgia and flitting joint swelling redness which was treated with cortico-steroids. Was also receiving Tegretol, Anafranil, Nardil and Temazepan.

6. Suspected adverse reactions to measles vaccines

Eighteen reports were received during this period.

- (a) Reports of suspected convulsions are given in Table III.
- (b) The more important reports are described below:-

developed urticaria and an erythematous rash which appeared 30 minutes after injection and faded after about two hours with full recovery.

A who nine days after immunisation with Mevilin developed a widespread macular rash, anorexia and fractiousness which persisted for five days. A day before onset of these symptoms was found to have a right office sedia and was given Penbritin syrup 600mg daily for two days.

A who two minutes after receiving a dose of Rimevez (Batch Number developed anaphylaxis from which recovered when resuscitation was undertaken. There was a history of allergy to eggs when taken by acuth.

who received Rimevax (Batch Number vaccine and on the late evening of the following day became grizzely, pyrexial and developed an erythematous rash over the abdomen and back. fever continued overnight despite sponging and paracetamol. These clinical features continued through the following day and temperature rose to 104°F (40°C) when measured rectally at about 3.00pm; this was accompanied by strange jitters, not like those of pyrexia, but described by a paediatric registrar as ataxic. The temperature cameunder control later that day. On the following day the rash cleared and the involuntary movements had ceased. General examination was normal

7. Suspected adverse reactions to rubella vaccine

reports have been received and registered:-

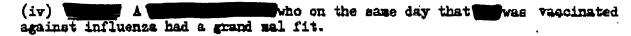
- (i) A report of a who 10-15 minutes after receiving Cendevax vaccine complained of feeling sick and faint. The became pale and pulse was very feeble. 0.5ml of 1:1,000 adrenaline was given intramuscularly. In view of continued complaints of uneasiness, and faintness was admitted to hospital where blood pressure was noted to be 90/50.
- (ii) A report of a who 10 minutes after receiving a dose of rubella vaccine in the left arm lost consciousness for 20 minutes and on recovery of consciousness had a transient left hemiparesis which lasted half a day. That had had a previous febrile fit when aged three and an episode of loss of consciousness more briefly after BCG vaccination.
- 8. Suspected adverse reaction to BCG vaccine

report has been received of a macular cutaneous rash on both arms.

9. Suspected adverse reactions to influenza vaccines

Fourteen suspected adverse reactions were registered. These comprise:

- influence suddenly died in the street. Was also receiving Warfrain, Neonaclex K, Temazepam and Distalgesic following a mitral valve replacement, mild congestive cardiac failure, insomnia and pain respectively. The patient was apparently perfectly well on the day of immunisation but this vaccination had been postponed two days previously because was then recovering from a cold.
- (ii) A report of a sudden grand mal seizure, nine hours after immunisation against influenza in a who had had no seizures in the previous 19 months sine codium valproate treatment had been commenced.
- their immunised against influence lost conscioueness and subsequently had twitching around the mouth. Over the next two hours there was periodic drows iness and twitching fellowed by full recovery. The episode was not typical of a vasovasal attack, the patient had tachycardia. There was no history of previous fits, TIA's etc. Quite well before immunisation



- (v) A report of a month of the control of a month of the characteristic against influenza developed an exascerbation of mild chronic bronchitis with increasing pyrexia and dyspaces and then a cough and sputum which developed into a lobar pneumonia.
- (vi) A report of a who after being immunised against influenza collapsed with right sided chest pain. pulse was feeble, was cold and clasmy with a blood pressure of 130/80. was admitted to hospital.
- (vii) reports of influenzal like illness. cocurred about two hours after immunisation and the common the following day.
- (viii) A report of a who four to five hours after immunisation against influenza had a generalised flare-up of osteoarthrosis which ended 72 hours later. So also had an injection after reaction.
- (ix) of urticaria and viral upper respitatory infection, (12 days later) and reports of injection site reaction.
- 10. Suspected adverse reactions to monovalent typhoid vaccine
- reports have been registered.

A who on the same day after receiving 0.25ml of monovalent typhoid vaccine developed a severe headache, neck pain, pyrexia, lethargy and apparently was not able to walk. The recovered the following day.

The other report was of an injection site reaction.

11. Suspected adverse reactions to monovalent typhoid and cholera vaccines without the simultaneous administration of OPV

reports have been registered. These comprise:

- (i) One to two hours after receiving subcutaneous doses of typhoid and cholera vaccines developed back and chest pain followed by a syncopal episode and the confusion during recovery. Subsequently had a severe local reaction with swelling and redness. The patient has a history of mild allergy but not to these preparations. No adverse reactions were reported in people vaccinated with doses of the same containers of these vaccines.
- (ii) A who four days after a second dose of typhoid and cholera vaccines developed florid erythema sultiforms but remained well in the contract of the contrac
- (iii) A who within one hour of receiving a first dose of cholera, typhoid and OPV developed severe muscle pain, occipital headache, bronchospass and cyanosis. Therecovered after being treated with intravenous hydrocertisone and diazepas.

(iv) A who, one and a half hours after receiving a dose of typhoid and cholera vaccines had severe rigors lasting about one hour. temperature rose to 38°C. recovered after 24 hours.

12. Suspected adverse reactions to cholera, typhoid and tetanus vaccines

typnoid and tetanus vaccine developed rigors and a temperature

(39.5°C) which ended some 12 hours later. Sixty minutes after vaccination was found to have a transient but profound neutropenia which ended several hours later.

13. Suspected adverse reactions to cholera vaccine

reports have been received of injection site reactions which were followed by severe malaise.

14. Suspected adverse reactions to house dust mite desensitising agents

Nine reports have been received, the of bronchospasm, of of urticaria and the of bronchospasm and urticaria, the of purpura, of injection site reaction and of anaphylaxis.

15. Suspected adverse reactions to grass pollen vaccines

Nine reports have been received,

- (i) A report of a fatal acute anaphylaxis following the last of three injections for hay fever (pollinex) referred to HM Coroner.
- (ii) A report of possible attack of petit mal following first monthly maintenance dose of alavac-S.

episodes occurred in a (six and 18 hours after immunisation) of blankness, in which

- (a) Spilled a plate of food with no recollection shown of this happening.
- (b) Drove car up a bank when others in the car said appeared not to know what was doing.
- (iii) reports of injection site reactions, of bronchospasm, of urticaria, of palpitations, dizziness and sweating and of apnoea, rash, parathesiae and paresis two hours after receiving a ninth injection of an intial course. The last patient recovered afer receiving adrenaline following by Prednisolone.

16. Suspected adverse reaction to tuberculin PFD

three to four hours after an intradermal injection of one in 10,000 tuberculin PPD, developed malaise, ancrexia, vomiting and diarrhoes plus fever. Was admitted to hospital, ill, dehydrated, hypotensive and febrile. Whad a delayed skin reaction which was several centimeters in diameter some 72 hours later, which persisted for several weeks but without necrosis. Walso had reversible renal failure and liver damage. Was recovered after treatment with hydrocortisone and rehydration and was subsequently with RIFINAH. The suspected tuberculous cervical lymphadenopathy was later confirmed positive for tubercle bacculle.

17. Suspected adverse reactions to hepatitis vaccine

Three reports have been received. These comprise:

- (1) A who four to five days after a second dose of H-B-Vax developed the symptoms and signs of a right brachial neuritis (confirmed by neuro-physiological studies) which persisted for four to five weeks. That suffered from a similar episode of right sided brachial neuritis in for which no cause was found. The reporting physician did not think that the hepatitis B vaccine was a causative factor for the present episode but it may have been a precipitating factor.
- (ii) reports of injection site reactions.

Convulsions or possible convulsions associated with DPT/OPV immunisation

Trivax AD Sar + OPV(3)	OPV (1)	DPT (2)	DPT (3) Sa	DPT (2) 40	DPT & OPV 3-	Number months (bose No.) Go
Same day	7 hours	7	Same day	40 hours	3-4 hours	Immisation/ Convulsion
Yes	Yes	~3	Yes	Tea	Tes	Pyrexia reported
Admitted to hospital for 72 hours. Recovered.	Fever, convulsions and left hemiplegia occurred approximately 7 hours after immunisation. Much improved following day when large local reaction and reach on chest noted. Discharged next day from hospital	Under treatment for "corneal clouding".	Localised induration. Recovered. No evidence of neurological damage	Fever for 48 hours with convulsion at 40th hour. No fits before or during the subsequent seven months.	Possible convulsion or rigor lasting 2-5 minutes. Admitted to hospital. Full investigation screen including LP negative.	Additional Information

Table II Convulsions or possible convulsions associated with DT + OPY immunisation

f	l	1	Yellow Card
177 + OPV (2)	DT + OPV (1)		Yaccine (Dose)
2 даув	10 deys	2 days	Interval Immunisation/ Convulsion
·· ·	ئ	+3 [*]	Associated Dyrexia
The possibility of an allergic reaction suggested	No permanent neurological damage.	Two fits - sdmitted to hospital. Known distbetic on Insulin.	Additional Information

1		Ė	1		
		1	1		Yellow Card
	1	Í	1		Age in Months
		1			Sex
10 days	5½ hours	Within 48 hours	7 даув	7 даув	convulsion interval
1	2 minutes	?	2 minutes x 2	½ minute	<u>Duration</u>
Yes	٠.	No	Yes	Yев	Associated pyrexia reported
Recovered	One febrile convulsion prior to this which was right sided and focal. EEG normal. Since immunisation in May 1984 (without immunoglobulin) has had one further fit. No sequelae (October 1985). Three triple immunisations before first febrile fit.	Admitted to hospital. Discharged on anticen- vulants	Admitted to hospital. See Appendix.	No previous febrile fits. No FH of febrile fits	Additional Information