

Chen (1996)

⁴⁾(Fig. 1).

가

3가

가 가
가

가

가

가

⁵⁾

1)

DTP

1.

2, 3)

가

5가



Fig. 1. (; Chen RT, et al. Epidemiologic method in immunization programs).

(coincidental event)', (injection reaction)',

Table 1.

Type of reaction	Describe
Vaccine reaction	Event caused or precipitated by the vaccine when given correctly, caused by the inherent properties of the vaccine
Programme error	Event caused by an error in vaccine preparation, handling, or administration
Coincidental	Event that happens after immunization but not caused by the vaccine - a chance association
Injection reaction	Event from anxiety about, or pain from, the injection itself rather than the vaccine
Unknown	Event's cause cannot be determined

; WHO WPRO, 1999.

Table 2.

DTaP	24
DT, Td	7
	7
	7
	2
39	2
MMR	24
	21
	21
	35
	1
BCG (1 cm)	1
	6
	6
BCG	6

* (,), B DTaP .

가 , thrombocytopaenia, hypotonic hyposensitive episode, (Table 1).

Table 1

Table 2

2. 가

3.

(IOM)

1) Table 3

5가

8, 9)

no evidence was available bearing on causality
 evidence was inadequate to accept or reject a causal relationship
 evidence favors rejection of a causal relationship
 evidence favors a causal relationship
 evidence established a causal relationship

2) Table 4

가

, 1994

Table 3.

	(, ,)	>38	,
Hib	90 95%	-	-
B	5 15%	2 10%	-
	15%	1 6%	-
	5%		
/MMR/MR	10%	5 15%	5%()
	-	< 1%	< 1% [†]
/DT/Td	10%	10%	25%
(DPT-whole cell)	>50%	>50%	>55%

†
 & paracetamol :4 가

50-85%
 15 mg/kg

가
 24

4 가

Table 5.

<p>1</p> <p>BCG 가 DPT, DT, TT ,</p>	<p>[, , , , (HIV, B , C)]</p> <p>()</p> <p>(가 -B) 가</p> <p>(가)</p>
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, 가

(Table 5).

. Chen(1999

Table 6. Information Useful for Assessing Causality in Individual Case Report

- 1) Previous general experience with vaccine
- 2) Alternative causes
- 3) Individual characteristics of the vaccines that may increase the risk of the adverse event
- 4) Timing of events
- 5) Characteristics off the events (e.g., laboratory findings)
- 6) Rechallenge

)

6가 (1999)²⁾(Table 6).

5가

¹⁰⁾ (1999)

가 (unclassifiable) 가

⁶⁾(Table 7).

Table 7.

(Definitely related, Definite)			
(Definitely related, Probable)			
(Possibly related, Possible)			
(Probably not related, Unlike)			
(Definitely not related)			
(Unclassifiable)			

; , 1999, WHO WPRO, 1999

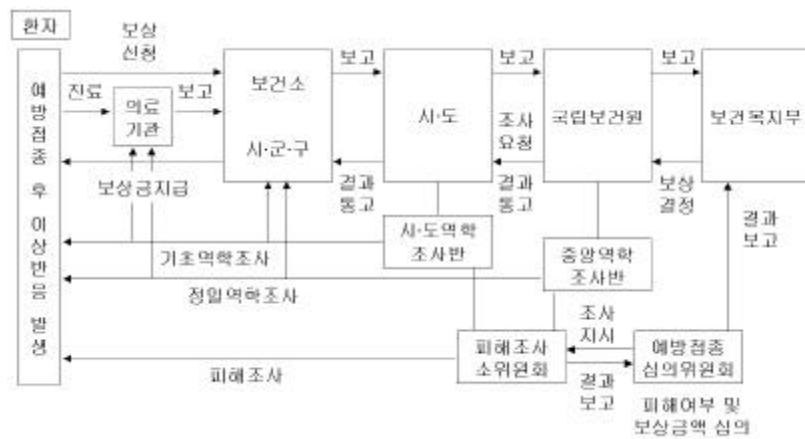
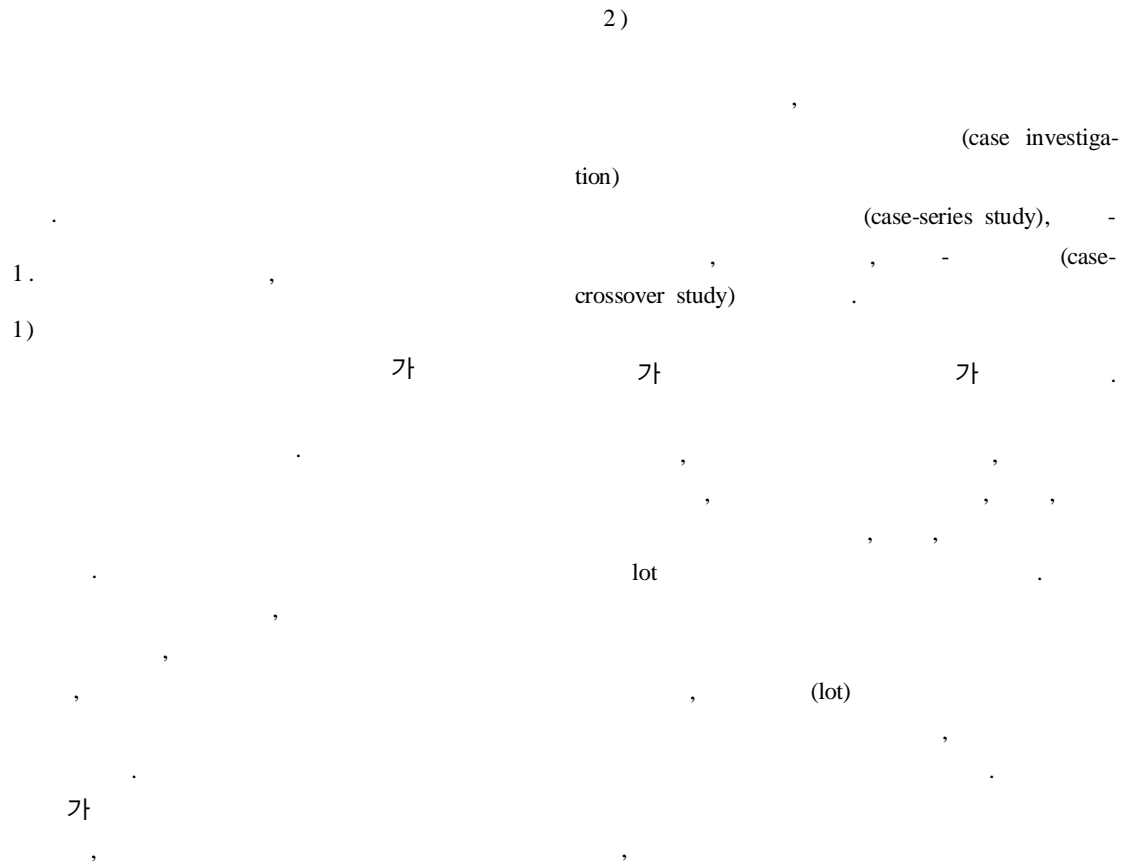


Fig. 2.

EDI(electronic data exchange)

¹⁰⁾ Fig. 2

(Fig. 2).



- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.

Fig. 3. (; WHO. Regional Office for the Western Pacific. Manila, 1999).

가

2)

1)

Table 8

3)

가

가

Table 9

Table 8.

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4)

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lot

lot

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lot

Table 9.

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(1)

가 가

2 MMR

(2)

가

가

가 , 가

3

(3)

가

가 ,
가

가 ,
가 ,
가

5) 가

가

가

가

가

가

가

가

가

가

6) 가

가

가

가

가

(case investigation)

가

가

gational study)

(observa-

7)

(experimental study)가

가

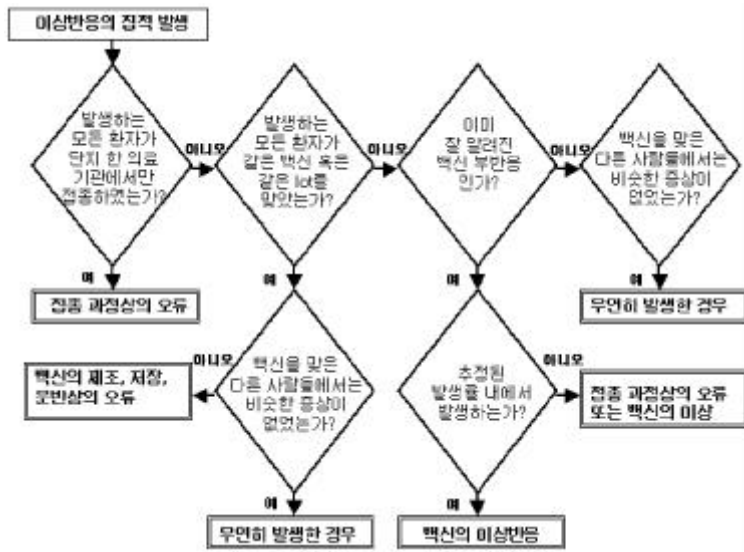


Fig. 4.

(case-series study)

가

(case-control study)

6가

(definitely related, de-

finite)

가

(definitely related, probable)

가

(possibly related, pos-

sible)

(probably not

related, unlike)

(definitely not re-

lated)

가 가

(unclassifiable)

- 1) EJ Gangarosa, AM Galazka, CR Wolfe, LM Phillips, RE Gangarosa, E Miller and RT Chen. Impact of anti-vaccine movements on pertussis control :The untold story. Lancet, January 1998; 351:356-61.
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- 4) Romanus V, Jonsell R, Bergquist S. Pertussis

Fig. 4

- in Sweden after the cessation of general immunization in 1979. *Pediatr Infect Dis J* 1987;6:3 64-71.
- 5) . 가 , 2000.
- 6) WHO WPRO. Immunization safety surveillance. Guidelines for managers of immunization programmes on reporting and investigating adverse events following immunization. Manila, 1999.
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- 12) WHO. Surveillance of adverse events following immunization. Field guide for managers of immunization programmes. WHO, Geneva, Global Programme for Vaccines and Immunization. Expanded Programme on Immunization, 1997.
- 13) . , 2001.
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MMR

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3							
4							

*** MMR 가

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(2)		?	1	(:)	2
(3)		?	1	(:)	가 ? -----
			2		
(4)		?	1	(:)	11 12
			2		
(5)	가	?	1	(:)	2
(6)	가	?	1	(:)	2
(7)		?	1	(:)	2
(8)		?	1	(:)	2
(9)	가	?	1	(:)	2
(10)		?	1	(:)	2
(11)	가	?	1	(:)	(11)-1. ? 1 2 3
			2		(11)-2. ? 1 2 3
(12)		?	1	(:)	2
(13)		?	1	(:)	2
(14)	가	?	1	(:)	2
(15)		?	1	(:)	(15)-1. ? _____
			2		
(16)	가	?	1	(:)	11 12 13 14 _____
			2	(:)	11 12 13 14 _____
(17)		?	1	2	가 ? _____
(18)	가	?	1	(1) : _____ (2) : 20__ __ __	
			2	(3) : _____ (4) : _____	
				(5) : 11 12 13 14 _____	