



2 : 8 1 2001

가 2000  
 . 2000 10 719 1993, 1994  
 (Fig. 1).

2)  
 2000 1 12 4)  
 32,088 1  
 (Fig. 2), 4 가 6 1 5 6 가  
 10 6 가 10  
 가 가 . 2001  
 1 가 2 4 (Fig. 4). , 2000 12 15  
 가

3)  
 2000 10 21.5%, (7 15 )  
 71.9 . (Fig. 3), 67.6% (Fig. 4). 1

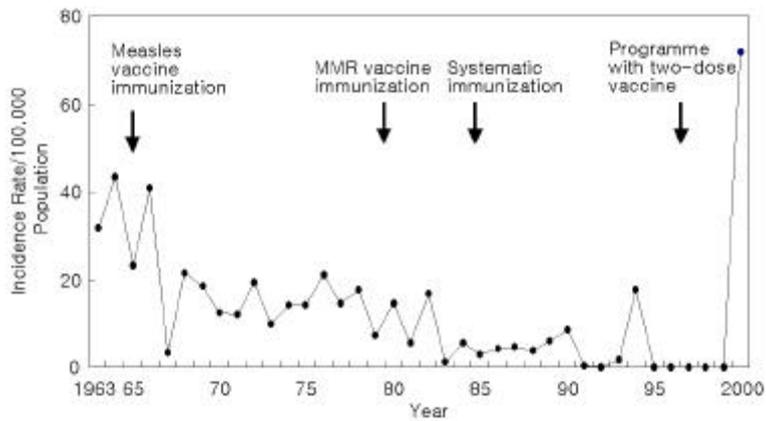


Fig. 1. (1963 2000 ; ).

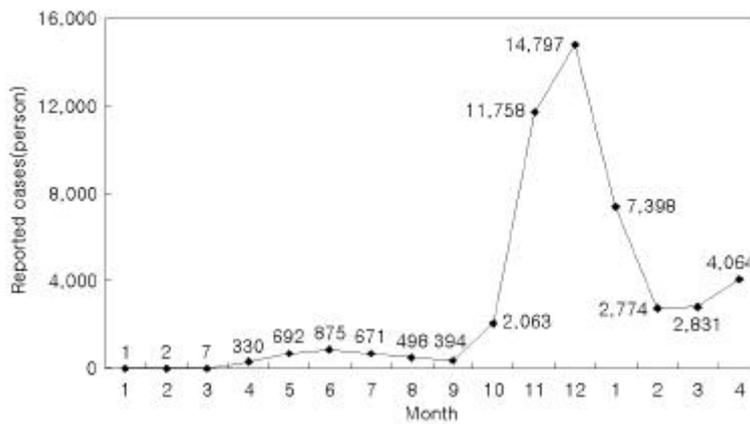


Fig. 2. 2000 1 ( ).

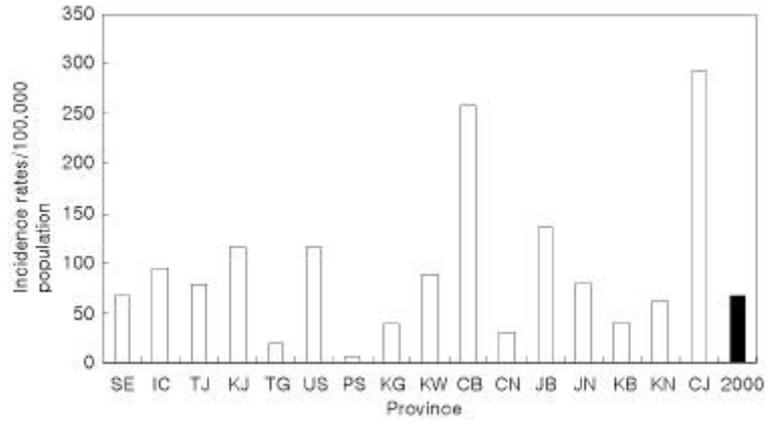


Fig. 3. (2000. 1 12 : ).

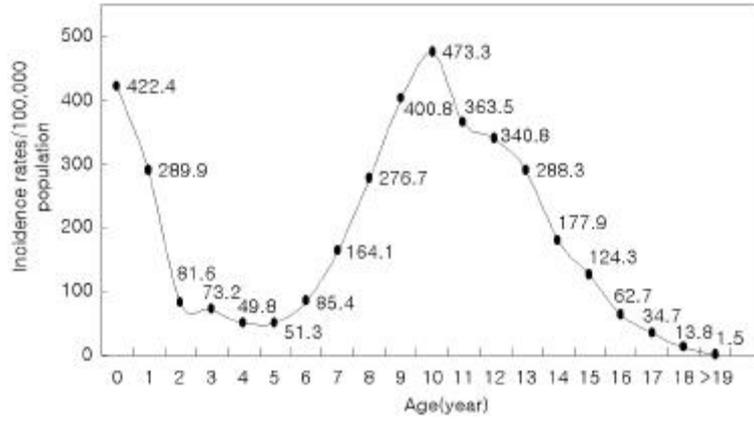


Fig. 4. (2000. 1 12 : ).

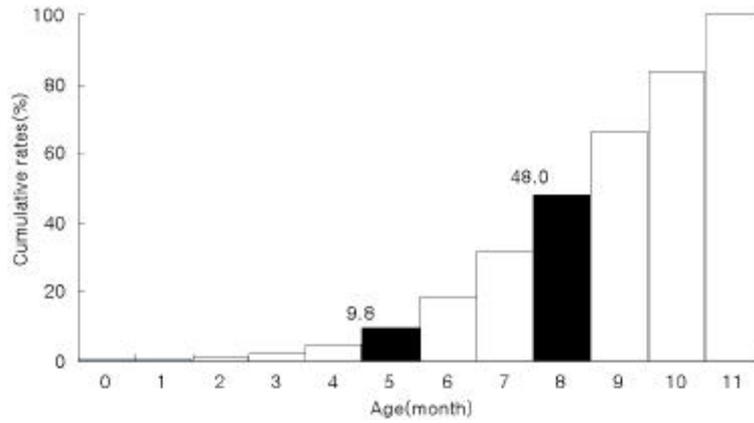


Fig. 5. 1 (2000. 1 12 : ).

4 : 8 1 2001

(Fig. 5). 2001 1 72.0 79.0% , 3 가 6)

5) MMR

MMR 2 ( 1 3)

(Fig. 6), 1 3 34.9% , MMR

12 15 (7 11 ) 1 21.2% (Fig. 7). 1 9,495 14.5%, 12 15 (12 15 ) 7.2% , % 17 29.7 51.2% 3 12.1% (Fig. 6). , 1 12 15 (Fig. 8). . 4 6

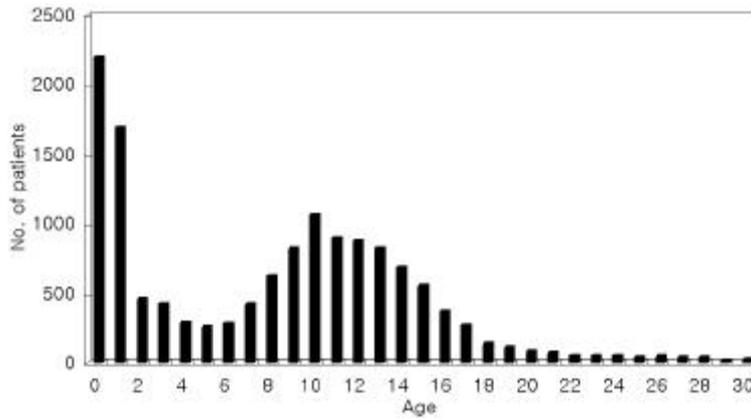


Fig. 6. (2001. 1 4 : ).

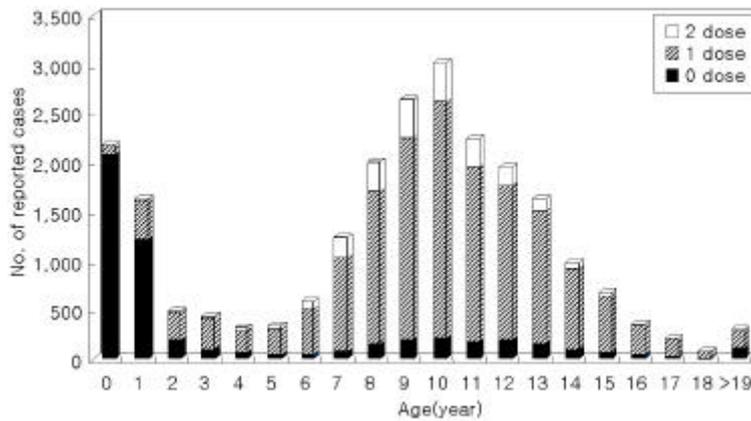


Fig. 7. (2000. 1 12 : ).

7)

2)  
 2000, 2001 13 2.  
 가 . H N 2000 1  
 99.8% 8 10 10%  
 가 1 1 2 ,  
 2000 가 가 가가 ,  
 가 가 가 100

(Fig. 9).

4 6 , 2 3

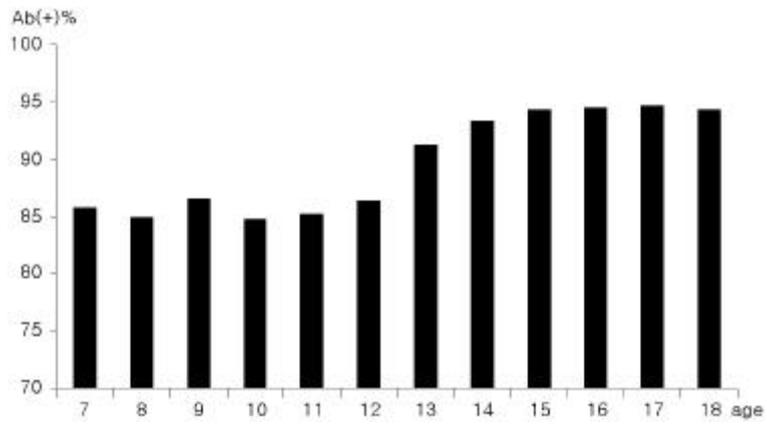


Fig. 8. (2000. 12 2001. 2 : ).

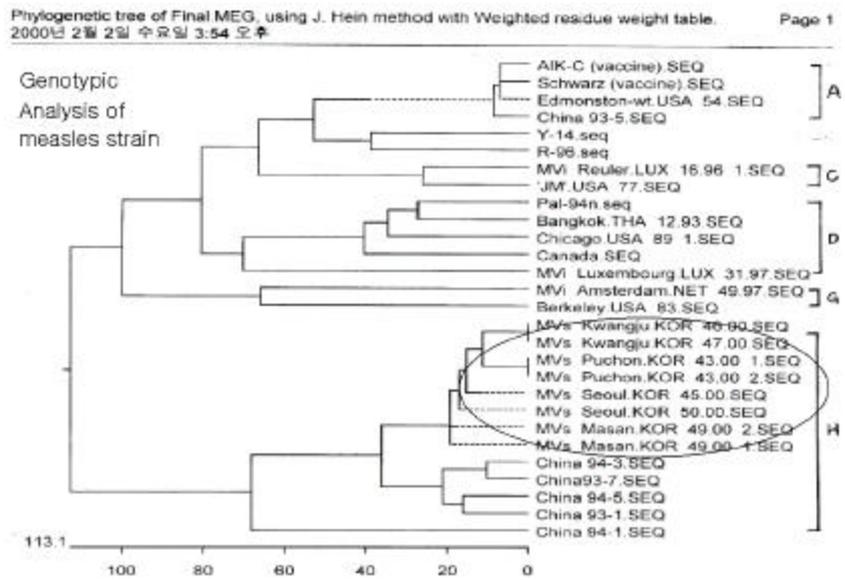


Fig. 9. 2000 H (2001. 4 : ).

6 : 8 1 2001

가 . . 11% 84  
 가  
 50% 40  
 3 .  
 1980 4 4  
 1990 1 3 , 1996 8  
 (Table 2),  
 1996  
 3 6 5 1  
 1 .  
 1) 95% 가  
 가 .

95% . 1  
 95% 가 100%가 2  
 95%  
 가 .  
 97

Table 2.

( )					
1990	1996	(%)	1990	1996	
481,294	445,949	-7	53	56	
246,607	2,109	-99	77	85	
59,502	20,361	-66	76	85	
188,306	162,967	-13	80	86	
225,144	81,477	-64	71	82	
156,139	84,459	-46	93	96	
1,356,992	797,322	-41	76	81	

6  
 2)  
 1954 1  
 2 MMR  
 1989 1991 3  
 . 1989 18,193 , 1990  
 27,786 , 1991 9,640 55,622  
 123  
 (School Immunization Law)  
 2  
 2000  
 . 2 95%  
 3)  
 5%  
 1989 1991 3  
 94  
 4 5

5% ,  
 Table 3. 1 2

Herd Immunity	Efficacy 90%		
	1	* 1	+ 2
Coverage	86%	77.4%	94.9%
	90%	81.0%	96.4%
	94%	84.6%	97.6%
	95%	85.5%	97.9%
	98%	88.2%	98.6%
100%	90.0%	99.0%	

\* 1 = ×  
 † 2 = 1 +  
 (100 - 1) × 1

4) 2000 2005  
 2007 , 2010 , - 12 15 1 4 6 2  
 2015 95%  
 가 가 가 가 1  
 가 가 가 가 (7 ) 2  
 2. 3) - 8 16  
 (2001 )  
 95% 2  
 2005  
 1) (Fig. 11).  
 97 2 95%

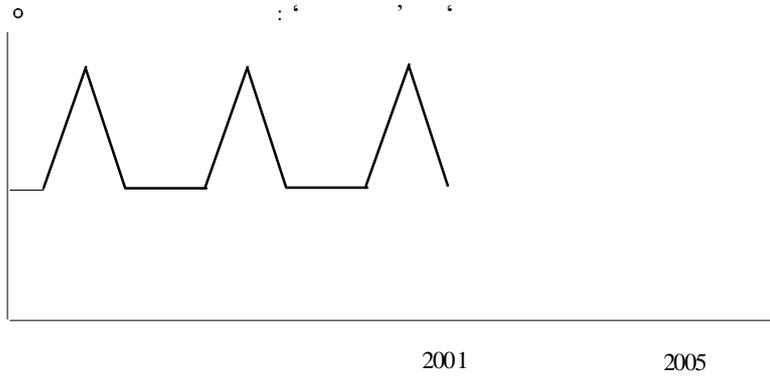


Fig. 10.

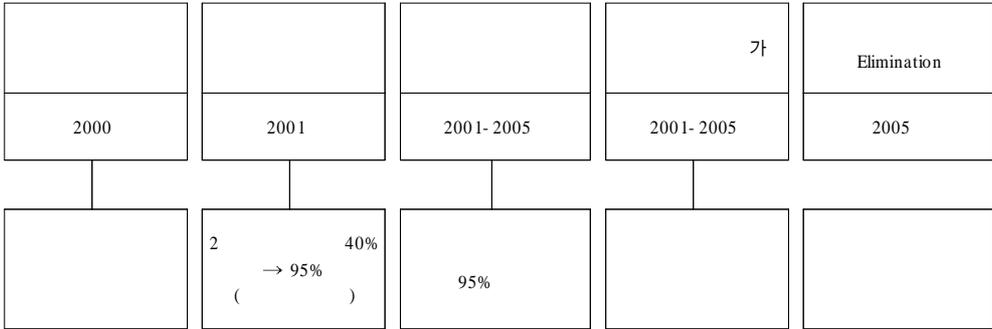


Fig. 11. 5

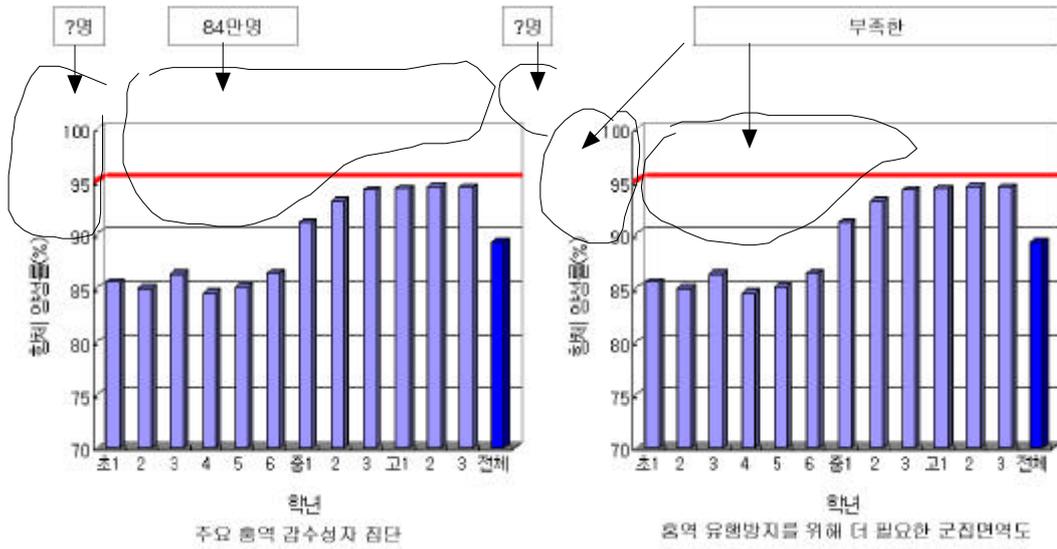


Fig. 12.

가  
 ,  
 , 가 ,  
 , 가 ,  
 가 5 70  
 2001  
 52  
 , , ,  
 ,  
 (Fig. 12).

2)  
 (1) 1 : 2  
 95%  
 2001  
 4 6  
 99%  
 2)  
 95%  
 ,  
 (2) 2 :  
 4)  
 95%  
 580  
 ,  
 3.  
 1) :  
 12 2  
 94 . . 282 . .  
 22,000  
 가 84  
 (Fig. 12).

2) . . 2001 1 12  
 72 가가 2  
 3)  
 2.7  
 , 가

MMR 2

○ :5 21 6 30 (6 )

○ MR (WHO/UNICEF 680

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- , . , . .

- ( , , ,

) 가

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○

- (EDI )

- .

- 1339

○

- , ,

○

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(3) 3 :

4)

1994 7,883 가 ,

1995 1999 5 50

가 2000 1 5

가 . 4 6

(2 3%)

5 10% 가

(100 ) 가

5%

(1°Failure)

97 40%

가 3

1 99%

가 가

2 5 6

580

가

DNA

가

4) 1 1

3

가

가

1) , 2000

, 2001.

2) Byoung-Kuk Na, Jin-Soo Lee, Gu-Chul Shin, Ju Mi Shin, Joo-Yeon Lee, Jae-Keun Chung, Dong-Ryoung Ha, Jong-Koo, Sang-Hyuk Ma, Hae-wol Cho, Chun Kang, and Woo-Joo Kim : Squence Analysis of hemagglutinin and Nucleo-protein genes of Measles Viruses Isolation in Korea during the 2000 Epidemic. Virus Research, submitted.

3) , 가 5

, 2001:41-4.

4) , , 2001.

5

가

가

가