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Risk Factors of Cervical Cancer and Results of Cervix Cytology Screening in Chungnam Province, Korea, 1995–1999

저자 이무식, 임연환, 김은영, 이충원

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5 (1995-1999)

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Risk Factors of Cervical Cancer and Results of Cervix Cytology Screening in Chungnam Province, Korea, 1995-1999

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= ABSTRACT =

The purpose of this study was to evaluate results of cervix cytology screening in the community and to determine the risk factors of cervical abnormality.

Branch of Daejeon city and Chungnam Province, The Planed Parenthood Federation of Korea had conducted cervical cancer screening of 146,848 married women in Chungnam province from 1995 to 1999. Cervical cancer screening was Pap smear using cytolgic brush swab by trained nurse. Women who had abnormal finding of 1st Pap smear screening were followed re-examination and 2nd close examination.

Crude prevalence rate of cytologic abnormalities for 1st screening results was 0.63% in 1995-1999(1995 0.68%, 1996 0.59%, 1997 0.70%, 1998 0.56%, 1999 0.62%). Crude prevalence rate of above class III for 1st screening results was 0.61%, but crude prevalence rate of above class III for the results of re-examination and 2nd close examination was 2.2/1000.

The false-positive rate of class III, IV and V for positive findings were defined above class III(cervicitis) results were 52.6%, 26.9% and 19.0%, respectively. And the false-positive rate of class III, IV and V for positive findings were defined above class III(dysplasia) results were 75.3%, 46.2% and 47.6%, respectively.

Major predictors of risk factors for abnormal results of cervix screening on the multiple logistic

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regression were age, educational attainment and living area.

The false-positive rate of cervix cytology screening in the community were highest result so cervix cytology screening should be improve for better diagnostic power. And the finding of logistic regression would be understand within the limit of experimental trials on the relationship between cervical disease and risk factors.

KEY WORDS: Cervix cytology screening, False-positive rate, Risk factors

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가
                                                              가
                 가 가
                                      (
                                                                                         가
1996).
                                                                                    1969-1972
                                        가 22.3%
             가
                                                      (1975)
                                                                                          , 1974-1976
 , 1995),
                       1
                                         10
                                                                                          (1979)
                                                                      . 1984- 1990
17.3-29.9
                                       , 1993;
                                                                                      , 1991), 1993
       , 1996; Lee
                      , 2001).
                   10
                            2.3-3.4
                                                                                       (1996)
                     10
                               49.1
                                                                         (1993),
                                                                                          (1988),
                                    21.4%
                              . 1995).
                                                         (1984),
                                                                          (1988),
                                                                                            (1989),
         (
                                                         (1991),
                                                                       (1992),
                                                                                     (1996)
       5-10
                               (van Oortmarssen
   Habbema, 1995)
                             가 가
                               가
                                                                                                    가
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44

가

SPSS WIN 7.5 (chi-square test), (multivariate logistic regression) 3. 가 1. 가 1995 1999 7 23 95% 30-60 Papanicolaou(Pap) 가 1 1 3 (Class III) 1 1 146,848 가 3 1 (Class III) Papanicolaou 922 2 1). 146,848 922 1. 1 2. 1 1995-1998 3 , 1999 26,848 5 146,848 145,926 (99.4%) 26 (0.02%), 534 (0.36%)(0.23%), 3 (Class III), 4 (Class IV), 5 (Class 22 (0.01%) 5 가 V) , 2 (p<0.01).

1.

Pap system	WHO system	CIN system	Bethesda system
1 (Class I)	Normal	Normal	Normal
2 (Class II)	Atypical		Infection
3 (Class III)	Dysplasia Mild Moderate Severe	CIN 1 CIN 2 CIN 3	SIL Low-grade SIL High-grade SIL High-grade SIL
4 (Class IV)	CIS	CIS	High-grade SIL
5 (Class V)	ICC	ICC	Squamous cell carcinoma
5 (Class V)	Adenocarcinoma	Adenocarcinoma	Glandular cell abnormality Adenocarcinoma Nonepithelial malignant neoplasm

CIN, cervical intraepithelial neoplasia, HPV, human papilloma virus; CIS, carcinoma in si tu, SIL, Squamous intraepithelial lesion, ICC, Invasive squamous carcinoma.

	,		40 (30.0	%) 50
1	995 0.68%, 1996 0.59%,	(35.8%)	6	0 (11.3%)
1997 0.70%, 199	0.56%, 1999 0.62%			
0.63%		가	(3).	
1	921			
2	397	3.		1
(44.3%),	175 (19.6%), 86			
(9.6%),	227 (25.2%),		1	
12 (1.3%)	. 2		3	
	(p<0.01).	가 30	74.8%, 40 57.5%, 50	54.7%
2	1995 47.8%,	30-50	, 4	
1996 36.8%, 1997	33.5%, 1998 25.8%, 1999	60	50.5%	
35.0% 5	36.2% (2).		5 60	
		가		
2.			(p<0.01).	3
2	906		60.2%,	71.3%
				가 4

. . . . 5

2.

							: (%)
		1995	1996	1997	1998	1999	
		30,000(20.4)	30,000(20.4)	30,000(20.4)	30,000(20.4)	26,848(18.3)	146,848(100.0)
1	**						
		29,797(99.3)	29,823(99.4)	29,791(99.3)	29,833(99.4)	26,683(99.4)	145,926(99.4)
		25(0.08)	1(0.00)	-	-	-	26(0.02)
3		100(0.33)	103(0.34)	111(0.37)	91(0.30)	129(0.48)	534(0.36)
4		72(0.24)	72(0.24)	90(0.30)	70(0.23)	35(0.03)	339(0.23)
5		6(0.02)	1(0.00)	8(0.00)	6(0.02)	1(0.00)	22(0.01)
	1	203(0.68)	177(0.59)	209(0.70)	167(0.56)	165(0.62)	921(0.63)
2	**						
		66(40.7)	71(53.0)	99(58.9)	88(67.7)	73(57.0)	397(44.3)
		39(24.1)	37(27.6)	38(22.6)	33(25.4)	29(22.7)	175(19.6)
		17(10.5)	20(14.9)	15(8.9)	9(6.9)	25(19.5)	86(9.6)
		76(46.9)	42(31.3)	49(29.2)	32(24.6)	28(21.9)	227(25.2)
		3(1.9)	1(0.7)	5(3.0)	1(0.8)	2(1.6)	12(1.3)
	2 **	96(47.8)	63(36.8)	69(33.5)	42(25.8)	55(35.0)	325(36.2)

3.

			: (%)
		()
30-39	210(22.9)	147,531(27.7)	
40-49	275 (30.0)	118,119(22.2)	
50-59	329 (35.8)	98,259(18.4)	
60-	104(11.3)	169,248(31.7)	

 $, p^{**} p < 0.01.$

가 46.7%

						(p<0	.01).				가	가
가		(p<0.01).				4	5		가	가		
20	0		3	60.7%, 6	1.4%							
		19		4				3		가 62.6%		
52.7%						54.4%				, 4		
	가	(p < 0.0)	1).			38.7%		34	.3%			
;	가 기	't 4, 5		가 가					(p	<0.01)(l).	

4. 1

·. 1			()		
					:
	26(2.0)	3	4 220(26.8)	5	021(100.0)
()**	26(2.8)	534(58.0)	339(36.8)	22(2.4)	921(100.0)
- 39	4(1.9)	157(74.8)	49(23.3)		210(22.9)
40-40	6(2.2)	158(57.5)	106(38.5)	5(1.8)	275(30.0)
50-59	9(3.7)	180(54.7)	130(39.5)	10(3.0)	329(35.9)
60-	7(6.8)	37(35.9)	52(50.5)	7(6.8)	103(11.2)
**	, , ,	- (/	((,	
	4(3.3)	55(45.1)	57(46.7)	6(4.9)	122(13.4)
	12(2.9)	229(54.4)	167(39.7)	13(3.1)	421(46.1)
	7(4.3)	97(60.2)	55(34.2)	2(1.2)	161(17.7)
-	3(1.4)	149(713)	56(26.8)	1(0.5)	209(22.9)
()**					
- 19	8(7.3)	39(355)	58(52.7)	5(45)	110(12.0)
20- 24	11(2.0)	331(60.7)	188(34.5)	15(2.8)	545 (59.6)
25-	7(2.7)	159(61.4)	91(35.1)	2(0.8)	259(28.3)
()**					
-2	8(2.6)	205(65.9)	97(31.2)	1(0.3)	311(33.9)
3-4	6(1.6)	210(54.5)	158(41.0)	11(2.9)	385(42.0)
5-	12(5.4)	117(525)	82(37.1)	10(4.5)	221(24.1)
()					
0	10(3.0)	189(57.1)	122(36.9)	10(3.0)	331(36.0)
1	4(1.5)	165(62.5)	89(33.7)	6(23)	264(28.7)
2-	12(3.7)	178(54.9)	128(39.5)	6(1.9)	324(35.3)
**					
	24(4.6)	24(54.4)	286(38.7)	12(2.3)	525(57.0)
	2(0.5)	2(62.6)	248(34.3)	10(2.5)	396(43.0)

 $^{**}p < 0.01.$

4. 2

18.1-33.1% , 60

2.9%

2 , 35.6-51.9% 7 (p<0.05). 7

가 가 . 가 가

(p<0.01). 19 22.7% 7† 23.5%

. 15.6% . 10.9% 8.2%

. フト (p<0.01)(5).

97(43.1) 99(51.9) 98(35.6)	175(19.0) 34(16.2)	86(9.3)	227(24.6)	12(1.3)	25(2.7)	922(100.0)
, ,	34(16.2)	22 (10. 5)				
, ,	34(16.2)	00(10.5)				
98(35.6)		22(10.5)	38(18.1)	3(1.4)	4(1.9)	210(22.4)
	53(19.3)	23(8.4)	91(33.1)	1(0.4)	9(3.3)	275(30.0)
42(43.2)	70(21.0)	31(9.4)	76(23.1)	5(1.5)	6(1.8)	329(25.8)
45(43.3)	18(17.3)	10(9.6)	22(21.2)	3(2.9)	6(5.8)	104(11.3)
48(39.0)	21(17.1)	15(12.2)	33(26.8)	1(0.8)	5(4.1)	123(13.5)
72(40.9)	88(20.9)	44(10.5)	103(24.5)	6(1.4)	8(1.9)	421(46.1)
95(50.5)	34(21.1)	14(8.7)	42(26.1)	1(0.6)	4(2.5)	161(17.6)
10(52.6)	31(14.8)	12(5.7)	47(22.5)	3(1.4)	6(2.9)	209(22.9)
, ,	. ,	` ′	` '			110(12.0)
` ,						546(59.7)
23(47.5)	40(15.4)	22(8.5)	68(26.3)	2(0.8)	4(1.5)	259(28.3)
45(46.6)	57(18.3)	29(9.3)	71(22.8)	3(1.0)	9(2.7)	331(36.0)
54(39.9)	76(19.7)	40(10.4)	101(26.2)	7(1.8)	5(1.9)	386(42.0)
98(44.3)	42(19.0)	16(7.2)	53(24.0)	2(0.9)	10(3.1)	221(24.1)
14(43.5)	63(19.0)	36(10.9)	76(23.0)	3(0.9)	9(2.7)	331(36.0)
17(44.3)	52(19.7)	25(9.5)	62(23.5)	3(1.1)	5(1.9)	264(28.7)
36(41.8)	60(18.5)	24(7.4)	89(27.4)	6(1.8)	10(3.1)	325(35.3)
14(41.4)	92(15.6)	136(8 2)	136(25.0)	5(10)	16(30)	526(57.0)
						396(43.0)
	45(43.3) 48(39.0) 72(40.9) 95(50.5) 10(52.6) 38(34.5) 33(42.7) 23(47.5) 45(46.6) 54(39.9) 98(44.3) 14(43.5) 17(44.3)	18(39.0) 21(17.1) 72(40.9) 88(20.9) 95(50.5) 34(21.1) 10(52.6) 31(14.8) 38(34.5) 25(22.7) 33(42.7) 110(20.1) 23(47.5) 40(15.4) 45(46.6) 57(18.3) 76(19.7) 98(44.3) 42(19.0) 14(43.5) 63(19.0) 17(44.3) 52(19.7) 18(41.8) 60(18.5) 14(41.4) 82(15.6)	45(43.3) 18(17.3) 10(9.6) 48(39.0) 21(17.1) 15(12.2) 72(40.9) 88(20.9) 44(10.5) 95(50.5) 34(21.1) 14(8.7) 10(52.6) 31(14.8) 12(5.7) 38(34.5) 25(22.7) 14(12.7) 33(42.7) 110(20.1) 49(9.0) 23(47.5) 40(15.4) 22(8.5) 45(46.6) 57(18.3) 29(9.3) 54(39.9) 76(19.7) 40(10.4) 98(44.3) 42(19.0) 16(7.2) 44(43.5) 63(19.0) 36(10.9) 47(44.3) 52(19.7) 25(9.5) 36(41.8) 60(18.5) 24(7.4) 44(41.4) 82(15.6) 436(8.2)	45(433) 18(17.3) 10(9.6) 22(21.2) 48(39.0) 21(17.1) 15(12.2) 33(26.8) 72(40.9) 88(20.9) 44(10.5) 103(24.5) 95(50.5) 34(21.1) 14(8.7) 42(26.1) 10(52.6) 31(14.8) 12(5.7) 47(22.5) 38(34.5) 25(22.7) 14(12.7) 25(22.7) 33(42.7) 110(20.1) 49(9.0) 133(24.4) 23(47.5) 40(15.4) 22(8.5) 68(26.3) 45(46.6) 57(18.3) 29(9.3) 71(22.8) 54(39.9) 76(19.7) 40(10.4) 101(26.2) 98(44.3) 42(19.0) 16(7.2) 53(24.0) 44(43.5) 63(19.0) 36(10.9) 76(23.0) 47(44.3) 52(19.7) 25(9.5) 62(23.5) 36(41.8) 60(18.5) 24(7.4) 89(27.4) 44(41.4) 82(15.6) 436(8.2) 136(25.9)	45(433) 18(173) 10(9.6) 22(21.2) 3(2.9) 48(39.0) 21(17.1) 15(12.2) 33(26.8) 1(0.8) 72(40.9) 88(20.9) 44(10.5) 103(24.5) 6(1.4) 95(50.5) 34(21.1) 14(8.7) 42(26.1) 1(0.6) 10(52.6) 31(14.8) 12(5.7) 47(22.5) 3(1.4) 38(34.5) 25(22.7) 14(12.7) 25(22.7) 2(1.8) 33(42.7) 110(20.1) 49(9.0) 133(24.4) 7(1.5) 23(47.5) 40(15.4) 22(8.5) 68(26.3) 2(0.8) 45(46.6) 57(18.3) 29(9.3) 71(22.8) 3(1.0) 54(39.9) 76(19.7) 40(10.4) 101(26.2) 7(1.8) 98(44.3) 42(19.0) 16(7.2) 53(24.0) 2(0.9) 44(43.5) 63(19.0) 36(10.9) 76(23.0) 3(0.9) 47(44.3) 52(19.7) 25(9.5) 62(23.5) 3(1.1) 36(41.8) 60(18.5) 24(7.4) 89(27.4) 6(1.8)	45(433) 18(173) 10(9.6) 22(212) 3(29) 6(5.8) 48(39.0) 21(17.1) 15(12.2) 33(26.8) 1(0.8) 5(4.1) 72(40.9) 88(20.9) 44(10.5) 103(24.5) 6(1.4) 8(1.9) 95(50.5) 34(21.1) 14(8.7) 42(26.1) 1(0.6) 4(2.5) 10(52.6) 31(14.8) 12(5.7) 47(22.5) 3(1.4) 6(2.9) 38(34.5) 25(22.7) 14(12.7) 25(22.7) 2(1.8) 6(5.5) 33(42.7) 110(20.1) 49(9.0) 133(24.4) 7(1.5) 13(2.4) 23(47.5) 40(15.4) 22(8.5) 68(26.3) 2(0.8) 4(1.5) 45(46.6) 57(18.3) 29(9.3) 71(22.8) 3(1.0) 9(2.7) 54(39.9) 76(19.7) 40(10.4) 101(26.2) 7(1.8) 5(1.9) 98(44.3) 42(19.0) 16(7.2) 53(24.0) 2(0.9) 10(3.1) 44(43.5) 63(19.0) 36(10.9) 76(23.0) 3(0.9) 9(2.7) 17(44.3) 52(19.7) 25(9.5) 62(23.5) 3(1.1)

p < 0.05, p < 0.01.

8 5 (1995-1999)

5.

50.6% 7\ , 7\ 5.7%, 6. 1 2

フト 40.6% 0.7% 1

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6.

6.						: (%)
			+			
	277(50.6)	31(5.7)	13(2.4)	22(40.6)	4(0.7)	547(100.0)
()*						
- 39	63(53.4)	4(3.4)	3(3.1)	47(39.3)	1(0.8)	118(21.6)
40-49	99(57.9)	3(1.8)	4(40.7)	63(28.5)	2(1.2)	171(313)
50-59	87(42.6)	22(10.8)	6(46.2)	88(42.1)	1(05)	204(37.4)
60-	28(52.8)	2(3.8)	-	23(43.3)	-	53(9.7)
	34(41.0)	7(8.4)	-	40(48.2)	2(2.4)	83(15.3)
	127(50.2)	15(5.9)	8(3.2)	102(40.3)	1(0.4)	253(46.6)
	48(46.2)	5(4.8)	3(2.9)	47(45.2)	1(1.0)	104(19.2)
-	67(65.0)	3(2.9)	2(1.9)	31(30.1)	-	103(19.0)
()**						
- 19	34(45.9)	5(6.8)	1(1.4)	33(44.6)	1(1.4)	74(13.6)
20-24	168(50.5)	23(6.9)	7(2.1)	133(39.9)	2(0.6)	333(61.0)
25-	75 (54.0)	3(2.2)	5(3.6)	55(39.6)	1(0.7)	139(25.5)
()						
-2	93(52.5)	11(6.2)	5(2.8)	67(37.9)	1(0.6)	177(32.4)
3-4	125(52.3)	8(3.3)	3(1.3)	102(42.7)	1(0.2)	239(43.8)
5-	58(44.6)	12(9.2)	5(3.8)	53(40.8)	2(15)	130(23.8)
()						
0	98(51.6)	12(6.3)	2(1.1)	77(40.5)	1(05)	190(34.7)
1	79(50.0)	8(5.1)	5(3.2)	65(41.1)	1(0.6)	158(28.9)
2-	100(50.3)	11(5.5)	6(3.0)	80(40.2)	2(1.0)	199(36.4)
**						
	158(52.5)	6(2.0)	8(2.7)	128(42.5)	1(03)	301(55.0)
	119(48.4)	25(10.2)	5(2.0)	94(38.2)	3(1.2)	246(45.0)

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8. 146,323 (99.6%), 500 (0.34%) 175 (0.12%), 86 (0.06%), 227 (0.15%), . 가 12 (0.01%) 0.22% (7). 30 가 1.58 40 7. 1 가 0.54 1 가 1.42 가 가 가 가 가 가 가 1 9). 2 () 44.0%, 68.0% , 3 56.2%, 75.3% 4 26.9%, 46.2% , 5 19.0%, 63.8% 가 0.48 8). 2 7. 1 146,848(100.0) 146,323(99.6) 175(0.12) 86(0.06) 227(0.15) 12(0.01) 500(0.34) 325(0.22) 8. 1 25 11 (44.0) 17 (68.0) 3 523 294 (56.2) 394 (75.3) 4 151 (46.2) 327 88 (26.9)

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5

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10 (47.6)

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4 (19.0)

397 (44.3)

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9.					050/	(OD)
					95%	(OR)
() - 39	_	_	_	-		_
40 - 49	0.4550	0.2158	0.4433	0.0350	1.0324	- 2.4061 (1.58)
50 - 59	0.0635	0.2583	0.0604	0.8059		- 1.7678 (1.07)
60 -	-0.1270	0.3370	0.1421	0.7062		- 1.7049 (0.88)
	-	-	=	-		-
	-0.1029	0.2258	0.2077	0.6486		- 1.4044 (0.90)
	-0.1868	0.2900	0.4150	0.5195		- 1.4646 (0.83)
()	-0.6242	0.3917	4.1158	0.0425	0.2931	- 0.9791 (0.54)
() - 19						
20 - 24	- - 0.4569	0.2551	3.2090	0.0732	0.3841	- 1.0439 (0.63)
25 -	- 0.5654	0.2982	3.5942	0.0580		- 1.0193 (0.57)
()	0.000	0.2302	0.00	0.02.00	0.0107	110130 (027)
- 2	-	-	-	-		_
3 - 4	-0.0722	0.1895	0.1453	0.7031	0.6417	- 1.3488 (0.93)
5 -	-0.2986	0.2471	1.4608	0.2268	0.4571	- 1.2040 (0.74)
()						
0	-	-	-	-		_
1	0.0205	0.1741	0.0139	0.9063		- 1.4359 (1.02)
2-	0.1297	0.1668	0.6047	0.4368	0.8210	- 1.5789 (1.14)
	0.3499	0.1416	6.1045	0.0135	1.0750	- 1.8728 (1.42)
OR: odds ratio.	0.0.199	0.1110	0.10 12	0.0132	1.0720	1.0720 (1.12)
•	40	-1			71	
30	40	가			가	
,	가				(11).
가	,	2				
3-4	1.09 ,	2				
1.10						
	(10).					
	(10).			1995_	1999 5	
			146 040		1))) 3	2
			146,848	•		2
	. 30	40				•
2.13 가				1		1995
가	가		0.68%,	1996 0.59%,	1997	0.70%, 1998
	,	가	0.56%,	1999 0.62%		0.63%
	•					

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10.

					95%	(OR)
()						
- 39	-	-	-	-		-
40 - 49	0.3767	0.2234	2.8442	0.0917	0.9407 - 2.2	582 (1.46)
50 - 59	-0.1474	0.2686	0.3011	0.5832	0.5097 - 1.4	610 (0.58)
60 -	-0.2218	0.3501	0.4016	0.5263	0.4033 - 1.5	909 (0.80)
	-	-	-	-		-
	-0.2958	0.2259	1.7149	0.1904	0.4778 - 1.1	583 (0.74)
	-0.4902	0.2925	2.8087	0.0938	0.3453 - 1.0	866 (0.62)
	-0.7373	0.3151	5.4758	0.0193	0.2580 - 0.8	871 (0.48)
()						
- 19	-	-	-	-		-
20 - 24	-0.2102	0.2496	0.7092	0.3997	0.4969 - 1.3	218 (0.81)
25 -	-0.0908	0.2948	0.0949	0.7580	0.5124 - 1.6	273 (0.91)
()						
- 2	-	-	-	-		-
3 - 4	0.0820	0.1921	0.1823	0.6694	0.7449 - 1.5	818 (1.09)
5 -	-0.0523	0.2532	0.0427	0.8364	0.5778 - 1.5	589 (0.94)
()						
0	-	-	_	-		-
1	-0.0451	0.1796	0.0630	0.8018	0.6723 - 1.3	591 (0.96)
2-	0.0941	0.1704	0.3047	0.5809	0.7867 - 1.5	343 (1.10)
	-	-	-	-		-
	-0.0008	0.1449	0.0000	0.9956	0.7522 - 1.3	273 (1.00)

OR: odds ratio.

(1975) 30.1 , (1979) 16.2 , (1991) 13.8 . 1 2 . 2 가 1,000 2.2 0.63% 1,000 6.3 . 3 0.61% 가 2 1,000 6.1 (1996) 35-49

1,000 6.5

	-				95%	(OR)
()						
- 39	-	-	-	-		-
40 - 49	0.7576	0.2476	9.3596	0.0022	1.3129 - 3.46	561 (2.13)
50 - 59	0.1985	0.2988	0.4414	0.5065	0.6790 - 2.19	907 (1.22)
60 -	0.1175	0.3884	0.0915	0.7623	0.5253 - 2.40)79 (1.12)
	-	-	-	-	0.40=0	-
	-0.2202	0.2456	0.8042	0.3699	0.4958 - 1.29	, ,
	-0.2124	0.3154	0.4538	0.5005	0.4358 - 1.50	
	-0.2341	0.3990	0.4770	0.4898	0.4072 - 1.53	377 (0:79)
()						
- 19	- 0.0227	- 0.2750	-	-	0.5646 1.66	-
20 - 24	-0.0327	0.2750	0.0141	0.9054	0.5646 - 1.65	, ,
25 -	0.0698	0.3232	0.0467	0.8289	0.5692 - 2.02	204 (1.07)
- 2	-	-	-	-		-
3 - 4	0.0974	0.2089	0.2176	0.6409	0.7320 - 1.65	599 (1.10)
5 -	0.1788	0.2752	0.4220	0.5159	0.6972 - 2.05	508 (1.20)
()						
0	-	=	-	-		-
1	0.0200	0.1984	0.0102	0.9197	0.6915 - 1.50	
2-	0.2735	0.1852	2.1824	0.1396	0.9145 - 1.88	398 (131)
	- -0.1331	- 0.1585	0.7056	0.4009	0.6416 - 1.19	- 942 (0.88)
OR: odds ratio.	01201	01200	0,,,,,	01.009	0.0.10	.2 (0.00)
	가			(1993)	14.0%	(1998)
			12.1%,	(1991)	18.8%	
가						
44	.0%, 3 56.29	%, 4 26.9%,		,		,
5 19.0%		20.570,	, ,	,	, , ,	
/ -	75.3%, 4 46.29	%, 5 47.6%	, , , , , , , , , , , , , , , , , , ,	, ,	, ,	
68.0%, 3	,					
68.0%, 3 . (1996)		3			(Gay , 198	35; Eddy
		3 0%	1990).		(Gay , 198	35; Eddy

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(Brown , 1984; Brinton, 1986; Miller, 1996) 가 가 (Jussawalla , 1971) , 1 2 Brinton (1989), 1 2 가 Parzzini (1988)가 가 가 가 , 1 2 (Weston 가 , 1999) (HPV, human papilloma virus)

기 (Zunzunegui , 1986) 2 .

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14 5 (1995-1999)

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23 146,848 7t - 1996; · 29(2): 159-172

2 2. , , , , .

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1 1995 , 1989; 32(11): 0.68%, 1996 0.59%, 1997 0.70%, 1998 1522-1531.

0.56%, 1999 0.62% 0.63% 3.

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0.63% , 3 , 1996

4. , , .

0.61% 1 2 .

1984; 27(11): 1498- 1507 1,000 2.2 . 5. .

1991. 7-1993. 6, 1993

44.0%, 3 56.2%, 4 22(8): 733-742

26.9%, 5 19.0% , 7. , , , , , .

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68.0%, 3 75.3%, 4 46.2%, 5 47.6% 1996; 29(4): 843-851 8. .

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9.	, ,	
10.	1988; 31: 1228	가 . , , , ,
11.	,	1988; 31(5): 627-632
	15(2): 115- 122	. 1992
12.	, ,	, , , , , , , , , , , , , , , , , , ,
13.	, .	1976; 19(4): 251-
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