

성별과 연령에 따른 치과보철물 양상에 대한 조사연구

- 전라북도의 중소도시를 중심으로 -

원광보건전문대 학 치과기공과

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The Study on Patterns of Prosthetic Restoration, by Age and Sex - Centering the medium and small city around Chollabuk-do-

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Abstract

The purpose of this study were to investigate the patterns of prosthetic restorations according to sex and age.

We had surveyed the out-patients of dental clinics it Jeon-Ju, Iri and Gun roan area.

The obtained result were as follow ;

1. The patterns of prosthetic restoration in female was higher than male and 20~30 age groups was higher than others.
2. The crown was higher in prosthetic restoration.
3. The procelain appliance area was high in male and female on 20 ~ 29 age.
4. The partial denture was higher than full denture in both sex.
5. The crown appliance area was not different in both sex.
6. The 3 unit bridge was higher than other bridge in both sex.
7. The porcelain appliance area was high in male and female on upper anterior.
8. The inlay appliance area of lower posterior was higher than upper posterior.
9. The upper posterior was high in male, and the lower posterior was high in female in partial denture.
10. The full dentur was high in old age group.

I. 서론

III. 조사성적

1922 가 559 41.8% , 1337 778
 58.19% 1 .

1. Sex distribution of patient

Sex	No. of patient	%
Male	559	41.81
Female	778	58.19
Total	1337	100

2. Age distribution of patient

Age Group	No. of patient		Total	
	Male	Female	No.	%
under 10	17	12	29	2.17
10~19	74	64	138	10.32
20~29	107	180	287	21.47
30~39	104	181	285	21.32
40~49	102	137	239	17.88
50~59	85	119	204	15.26
60~69	61	72	133	9.95
over 70	9	13	22	1.65
Total	559	778	1337	100

II. 조사대상 및 조사방법

1989 6 1990 2

1337

2 10
 29 2.17%, 10 19 138
 10.32%, 20 29 287 21.47%,
 30 39 285 21.32%, 40 49
 239 17.88%, 50 59 204
 15.26%, 60 69 133 9.95% 70
 22 1.65%

15 crown 44.91% 가
 bridge가 22.11%, porcelain 25.04%, inlay가
 1.38%, partial denture가 4.49%, full denture가
 2.07%

crown

3. Distribution of prosthetic restoration classification in male patients, by age group.

Classi- fication Age group	Crown		Bridge		Porcelain		Inlay		Partial denture		Full denture	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
under 10	17	6.54										
10~19	53	20.38	4	3.13	18	12.41						
20~29	50	19.23	13	10.16	44	30.34	2	25.00				
30~39	48	18.46	27	21.09	31	21.38	2	25.00	2	7.69		
40~49	39	15.00	35	27.34	26	17.93	1	12.50	1	3.85	1	8.33
50~59	31	11.92	32	25.00	16	11.03	3	37.50	8	30.77	3	25
60~69	21	8.08	16	12.50	8	5.52	1	12.50	13	50	4	33.33
over 70	1	0.38	1	0.78	2	1.38			2	7.69	4	33.33
Total	260	44.91	128	22.11	145	25.04	8	1.38	26	4.49	12	2.07

4. Distribution of prosthetic restoration classification in female patients, by age group.

Classi- fication Age group	Crown		Bridge		Porcelain		Inlay		Partial denture		Full denture	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
under 10	12	3.33										
10~19	46	12.78	8	3.98	12	6.15						
20~29	92	25.56	36	17.91	60	30.77	4	36.36	1	2.00		
30~39	98	27.22	51	25.37	38	19.49	5	45.45	4	8.00		
40~49	54	15.00	38	18.90	39	20.00	2	18.18	10	20.00	1	6.25
50~59	35	9.72	51	25.37	27	13.85			16	32.00	1	6.25
60~69	21	5.83	15	7.46	13	6.67			16	32.00	12	75.00
over 70	2	0.56	2	0.96	6	3.08			3	6.00	2	12.50
Total	360	43.22	201	24.13	195	23.41	11	1.32	50	6.00	16	1.92

10 19 20.38% 가 50 59 30.77%
 20 29 19.23%, 30 39
 18.46% bridge 40 Full denture 60 69 70
 49 27.34% 가 33.33% 40
 50 59 25.00%
 porcelain 20 29 30.34% 가
 30 39 21.38% 4
 inlay 50 59 crown 43.22% 가
 37.50% 가 20 29 bridge 24.13%, porcelain 23.41%, inlay
 30 39 25.00% 1.32%, partial denture 6.00%, full denture
 partial denture 60 69 50.00% 가 1.92%

5. Distribution of appliance area of crown in male patients.

Appliance area	Upper 1st premolar		Upper 2nd premolar		Upper 1st molar		Upper 2nd molar		Lower 1st premolar		Lower 2nd premolar		Lower 1st molar		Lower 2nd molar		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
under 10	(3)		(3)						(7)		(8)		2				20	0.61
10~19			3	5.00	21	35.00	1	1.67	1	1.67	4	6.67	26	43.33	4	6.67	60	18.35
20~29	2	2.74	5	6.85	23	31.51	1	1.37	1	1.37	2	2.74	27	36.99	12	16.44	73	22.32
30~39	1	1.43	5	7.14	24	34.29	11	15.71			4	5.71	14	20.00	11	15.71	70	21.41
40~49	2	4.08	3	6.12	8	16.33	17	34.69					12	24.49	7	14.29	49	14.98
50~59	2	4.26	4	8.51	7	14.89	18	38.29	3	6.38	2	4.26	10	21.28	1	2.13	47	14.37
60~69	1	4.35	4	17.39	5	21.74	5	21.74	1	4.35	2	8.70	3	13.04	2	8.70	23	7.03
over 70	1	33.33									1	33.33	1	33.33			3	0.92
Total	9	2.75	24	7.34	88	26.91	53	16.21	6	1.83	15	4.59	95	29.05	37	11.31	327	100

The meaning of () is Deciduous Teeth.

30 39 27.22% 가 crown 1 가 31.51%

20 29 25.56% 1 가 34.29% 가

40~49 15.00% 1 가 20.00%

70 0.56% 가 40 49 2

. Bridge 30 39 50 59 가 34.69% 가

25.37% 가 40 49 1 가 24.49%

18.90%, 20 29 17.91% 50 59 2 가 38.29%

Porcelain 20~29 30.77% 가 1 가

가 30~39 19.49% 21.28% 60 69

Inlay 30 39 1 2 가

45.45% 가 20 29 21.74% 가

36.36% partial 1 가 29.05%

dellture 50 59 60~69 가 1

32.00% 가 40 49 26.91%

20% . Full denture 6 crown

60 69 75.00% 가 10

40 100% 10 19

5 crown 1 가 15.25%

가 91.30% , 10 20 29 1 가 31.78%

1 8.70% , 가 2 가

, 10 19 1 가 18.69%

43.33% 가 1 30 39 1 가

가 35.00% 1 30.25% 가 2

29 1 가 36.99% 가 20 가 22.69%, 1 18.49%

40 49 1 가

6. Distribution of appliance area of crown in female patients.

Appliance area	Upper 1st premolar		Upper 2nd premolar		Upper 1st molar		Upper 2nd molar		Lower 1st premolar		Lower 2nd premolar		Lower 1st molar		Lower 2nd molar		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
under 10	(2)		(2)						(5)		(10)						(19)	
10~19					9	15.25	2	3.39					40	67.80	8	13.56	59	13.44
20~29	5	4.67	8	7.48	20	18.69	10	9.35	4	3.74	4	3.74	34	31.78	22	20.56	107	24.37
30~39	4	3.36	15	12.61	22	18.49	8	6.72	1	0.84	6	5.04	36	30.25	27	22.69	119	27.11
40~49	1	1.37	4	5.48	21	28.77	11	15.07	8	10.96	7	9.59	12	16.44	9	12.33	73	16.63
50~59	4	8.70	9	19.57	15	32.61	4	8.70			2	4.35	8	17.39	4	8.70	46	10.48
60~69	1	3.57	4	14.29	7	25	4	14.29	1	3.57	1	3.57	8	28.57	2	7.14	28	6.38
over 70	3	42.86	3	42.86					1	14.29							7	1.59
Total	18	4.10	43	9.79	94	21.41	39	8.88	15	3.42	20	4.56	138	31.44	72	16.40	439	100

The meaning of () is Deciduous Teeth.

7. Distribution of sized in bridge

Age group	Male										Female										
	3unit Bridge		4unit Bridge		5unit Bridge		6unit Bridge		Total		3unit Bridge		4unit Bridge		5unit Bridge		6unit Bridge		Total		
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	
under 10																					
10~19	4	100							4	3.15	7	87.5	1	12.5					8	3.64	
20~29	11	78.57	3	21.43					14	11.02	35	83.33	6	14.29	1	2.38			42	19.09	
30~39	23	92.00	1	4.00			1	4.00	25	19.69	41	70.69	11	18.97	4	6.90	2	3.45	58	26.36	
40~49	23	63.89	8	22.22	3	8.33	2	5.56	36	28.35	26	59.09	11	25.00	4	9.09	3	6.81	44	20.00	
50~59	18	60.00	6	20.00	4	13.33	2	6.67	30	23.62	32	61.54	6	11.54	9	17.31	5	9.62	52	23.64	
60~69	13	76.47			2	11.76	2	11.76	17	13.39	9	60.00	4	26.67	1	6.67	1	6.67	15	6.82	
over 70	1	100							1	0.79					1	100			1	0.45	
Total	93	73.22	18	14.17	9	7.09	7	5.51	127	100	150	68.18	39	17.72	20	9.09	11	5	220	100	

28.77% 가 1 가 1
 가 16.44% 21.41%
 50~59 1 가 32.61% 7 bridge
 가 1 가 3
 17.39% 60~69 bridge가 73.22% 가 4
 1 가 28.57% 가 bridge 14.17%, 5 bridge 7.09%, 6
 1 가 25.00% bridge 5.51%
 3 bridge가 68.18% 가
 1 가 31.44% 4 bridge가 17.72%, 5 bridge가 9.09%, 6

8. Distribution of appliance area of porcelain in male patients.

Appliance area	Upper Anterior		Upper posterior		Lower Anterior		Lower Posterior		Upper & Lower Anterior		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
under 10												
10~19	15	71.43			3	14.29	3	14.29			21	13.13
20~29	35	72.92	2	4.17	10	20.83			1	2.08	48	30.00
30~39	18	60			10	33.33	2	6.67			30	18.75
40~49	14	46.67	4	13.33	7	23.33	4	13.33	1	3.33	30	18.75
50~59	13	68.42	1	5.26	3	15.79	2	10.53			19	11.88
60~69	6	54.54			4	36.36	1	9.09			11	6.88
over 70	1	100									1	0.63
Total	102	63.75	7	4.36	37	23.13	12	7.5	2	1.25	160	100

9. Distribution of appliance area of porcelain in female patients.

Appliance area	Upper Anterior		Upper posterior		Lower Anterior		Lower Posterior		Upper & Lower Anterior		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
under 10												
10~19	6	42.86	4	28.57	4	28.57					14	6.54
20~29	34	59.65	8	14.04	6	10.53	5	8.77	2	3.51	57	26.64
30~39	28	58.33	9	18.75	7	14.58	4	8.33			48	22.43
40~49	23	53.49	5	11.63	10	23.26	4	9.30	1	2.33	43	20.09
50~59	21	67.74	2	6.45	6	19.35	1	3.23	1	3.23	31	14.49
60~69	10	58.82	4	23.53	3	17.65					17	7.94
over 70	5	83.33							1	16.67	6	2.80
Total	127	59.35	32	14.95	36	16.82	14	6.54	5	2.34	214	100

bridge가 5.00%

8

porcelain

가 63.75% 가

가 23.13%

가 7.50%,

가 4.36%

1.25% 가

10 inlay

가 59.35% 가

가 16.82%

가 14.95%,

2.34% 가

가 33.33%,

9

porcelain

가 66.67%

10. Distribution of appliance area of inlay.

Appliance area Age group	Male						Female					
	Upper posterior		Lower posterior		Total		Upper posterior		Lower posterior		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
under 10												
10~19												
20~29	1	50	1	50	2	22.22	1	33.33	2	66.67	3	27.27
30~39			2	100	2	22.22	3	50.00	3	50.00	6	54.55
40~49			1	100	1	11.11	1	50.00	1	50.00	2	18.18
50~59	1	33.33	2	66.67	3	33.33						
60~69	1	100			1	11.11						
over 70												
Total	3	33.33	6	66.67	9	100	5	45.45	6	54.55	11	100

11. Distribution of appliance area of partial denture.

Appliance area Age group	Male								Female							
	Upper only		Lower only		Upper & lower		Total		Upper only		Lower only		Upper & lower		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
under 10																
10~19																
20~29																
30~39			2	100			2	6.90	1	25.00	2	50.00	1	25.00	4	9.09
40~49	1	100					1	3.45	3	33.33	6	66.67			9	20.45
50~59	3	33.33	3	33.33	3	33.33	9	31.03	5	38.46	7	53.85	1	7.69	13	29.55
60~69	9	60.00	6	40.00			15	51.72	5	35.71	5	35.71	4	28.57	14	31.82
over 70	1	50.00	1	50.00			2	6.90			3	75.00	1	25.00	4	9.09
Total	14	48.28	12	41.38	3	10.34	29	100	14	31.81	23	52.27	7	15.91	44	100

가 45.45%

가 54.55%

가 52.27%

가

inlay

가

31.81%

15.91%

11 partial denture

12 full denture

57.14% 가

가 48.28%

가

21.43%,

41.38%

21.43%

10.34%

가 64.71%

12. Distribution of appliance area of full denture.

Appliance area Age group	Male								Female							
	Upper only		Lower only		Upper & lower		Total		Upper only		Lower only		Upper & lower		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
under 10																
10~19																
20~29																
30~39																
40~49									1	100					1	5.88
50~59	3	75			1	25	4	28.57	1	33.33			2	66.67	3	17.65
60~69	3	50	3	50			6	42.86	2	18.18			9	81.82	11	64.71
over 70	2	50			2	50	4	28.57	1	50	1	50			2	11.76
Total	8	57.14	3	21.43	3	21.43	14	100	5	29.41	1	5.88	11	64.71	17	100

가 29.41%,
5.88%

가
10 2.17%

IV. 고 찰

가
가
20 29 21.47%, 30 39
21.32%, 40 49 17.88% 20 ,
30 , 40
70 1.65%
가
가
5) 가 54.60%,
가 45.40% 6) crown 44.91%,
43.22% 가
가 59.18%, 가 40.82% 7) 가
가 43.06%, 가 56.94% porcelain 25.04%,
가 44.25% 23.41% 가
8) 가 55.75% 가
가 41.81%, 가 58.19% 29 가 20

가 Bridge 가 가 .¹³⁾
 가 60 가 inlay 가
 가 30 가 가
 가 30 39 가 가 40 가
 49 가 가 50 59 가
 가 가 48.28%, 가 41.38%
 가 31.81%, 가 52.27%
 Crown 가 10 가
 91.30%가¹⁴⁾ 가 40
 100% 가 가
 가 가 57.14% 가 가
 crown 가 가 가 64.71%

V. 결 론

1 가 가 10 20 가 30
 가 40 , 50 가 가 1 가
 가 crown
 가 crown 가 15
 Porcelain 가 18 1) 가 41.81%,
 가 58.19%
 9,10) 2) 가 20 가 21.47%, 30 가
 21.32% 가
 70 1.65% 가
 가 가 11) 3) 가 가
 porcelain crown 44.91%,
 30.77%
 가 12) 4) Porcelain 가
 20 29
 30.34%, 30.77%
 가 5) full denture partial
 denture

6) Crown	1	가	29.05%,
			31.44%
7) 10		crowns	
8) Bridge	3	bridge	
가			
9) Porcelain		가	63.75%,
			59.35%
			23.13%,
16.82%			
10) Inlay		가	
11) Partial denture		가	48.28%
		가	
52.27%		가	
12) Full denture		가	60 69
가	40		

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