

***ISRCTN11586190***

- **Participant Flow:** A flow diagram showing participants involved at each stage of the study (namely enrolment, intervention allocation, follow-up, and data analysis).
- **Groups were** 1) group n=117  
2) group n=36

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graph TD; Enrollment[Enrollment] --> Eligibility[Assessed for eligibility (n=117)]; Eligibility --> Randomized[Randomized (n=117)]; Randomized --> Allocation[Allocation]; Allocation --> FollowUp[Follow-Up]; FollowUp --> TR1[Follow-up TEST-RETEST GROUP (n=36)  
Discontinued intervention (give reasons) (n=0)]; FollowUp --> FG1[Follow-up GROUP (n=117)  
Discontinued intervention (give reasons) (n=0)]; FollowUp --> FG2[Follow-up GROUP (n=117)  
Discontinued intervention (give reasons) (n=0)]; TR1 --> TR2[Follow-up TEST-RETEST GROUP (n=36)  
Discontinued intervention (give reasons) (n=0)]; TR2 --> TR3[Analysed TEST-RETEST GROUP (n=36)  
Excluded from the analysis (give reasons) (n=0)]; FG1 --> FG3[Analysed GROUP (n=117)  
Excluded from the analysis (give reasons) (n=0)]; FG2 --> FG3; FG3 --> Analysis[Analysis]; TR3 --> Analysis; Analysis --> 1[1];
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The flowchart illustrates the study design, starting with **Enrollment**, followed by **Assessed for eligibility (n=117)**, **Randomized (n=117)**, and **Allocation**. The **Allocation** stage details that all 117 participants were allocated to the intervention, with 117 receiving it and 0 not receiving it. The **Follow-Up** stage branches into three groups: the **Follow-up TEST-RETEST GROUP (n=36)**, the **Follow-up GROUP (n=117)**, and another **Follow-up GROUP (n=117)**. The first two groups discontinued intervention (n=0), while the third group did not. The **Follow-up TEST-RETEST GROUP (n=36)** further branches into a group that discontinued intervention (n=0) and an **Analysed TEST-RETEST GROUP (n=36)** that was excluded from the analysis (n=0). The **Follow-up GROUP (n=117)** branches into an **Analysed GROUP (n=117)** that was excluded from the analysis (n=0) and another **Follow-up GROUP (n=117)** that discontinued intervention (n=0). The **Analysed GROUP (n=117)** further branches into an **Analysed GROUP (n=117)** that was excluded from the analysis (n=0). The **Analysed GROUP (n=117)** and the **Analysed TEST-RETEST GROUP (n=36)** are then included in the **Analysis** stage, which results in a final count of **1**.

Analysed TEST-RETEST  
GROUP (n=36)  
Excluded from the analysis  
(give reasons) (n=0)

Analysed GROUP (n=117)  
Excluded from the analysis (give reasons)  
(n=0)

## Baseline characteristics

### **BASELINE CHARACTERISTICS GROUP (N=117)**

#### *Demographic data* (age and gender of the patients)

Age and gender					
	N	Mean	Std. Deviation	Minimum	Maximum
M	71	72.70	9.04	53.00	91.00
%	30.34				
F	163	73.10	6.73	53.00	89.00
%	69.66				
Total	234	72.98	7.49	53.00	91.00
%	100.00				

#### *Clinical characteristics for participants* (the condition of prosthetic-denture construction)

##### *.a. The condition of artificial teeth of acrylic dentures*

		Acrylic denture -teeth	
		There is a need for the additional intervention	There is no need for the additional intervention
The first test	N	60	57
	%	69.77	38.51

##### *b. Adaptations of the bases*

		Acrylic denture – a base	
		Adapted	Not-adapted
The first test	N	57	60
	%	71.25	38.96

##### *c. The condition of acrylic dentures*

		Adaptation of the base	
		Adapted	Not-adapted
The first test	N	60	57
	%	38.22	74.03

##### *d. Occlusion*

		Occlusion	
		Satisfactory	Not-satisfactory
The first test	N	51	66
	%	36.17	70.97

*e. Functional equilibrium*

		Functional equilibrium	
		Satisfactory	Not-satisfactory
The first test	N	42	75
	%	34.71	66.37

*f. Retention*

		Retention		
		Excellent	Good	Poor
The first test	N	26	44	47
	%	22.2	37.6	40.2

*g. Stability*

		Stability		
		Excellent	Good	Poor
The first test	N	18	50	49
	%	15.4	42.7	41.9

## 2. BASELINE CHARACTERISTICS TEST-RETEST GROUP (N=36)

*Demographic data (age and gender of the patients)*

	N	Mean	Std. Deviation	Minimum	Maximum
M	13	70.5	7.32	53	86
%	36.1				
F	23	71.3	5.89	53	78
%	63.9				
Total	36	70.9	6.23	53	86
%	100.0				

*Clinical characteristics for participants (the condition of prosthetic-denture construction)*

*a. The condition of artificial teeth of acrylic dentures*

		Acrylic denture -teeth	
		There is a need for the additional intervention	There is no need for the additional intervention
The first test	N	8	28
	%	69.77	38.51

*b. Adaptations of the bases*

		Acrylic denture – a base	
		Adapted	Not-adapted
The first test	N	7	29
	%	19.40	80.60

*c. The condition of the base of acrylic dentures*

		Adaptation of the base	
		Adapted	Not-adapted
The first test	N	20	16
	%	55.5	45.5

*d. Occlusion*

		Occlusion	
		Satisfactory	Not-satisfactory
The first test	N	20	16
	%	55.6	44.4

*e. Functional equilibrium*

		Functional equilibrium	
		Satisfactory	Not-satisfactory
The first test	N	14	22
	%	38.9	66.1

*f. Retention*

		Retention		
		Excellent	Good	Poor
The first test	N	12	14	10
	%	33.3	38.9	27.8

*g. Stability*

		Stability		
		Excellent	Good	Poor
The first test	N	26	44	47
	%	22.2	37.6	40.2

## Outcome measures

### 1. PRIMARY OUTCOME MEASURES GROUP (N=117)

#### 1. Clinical characteristics for participants after interventions

##### a. The condition of artificial teeth of acrylic dentures

		Acrylic denture -teeth	
		There is a need for the additional intervention	There is no need for the additional intervention
The second test	N	26	91
	%	22.2	77.8

##### b. Adaptations of the bases

		Acrylic denture-a base	
		Adapted	Not-adapted
The second test	N	23	94
	%	19.7	80.3

##### c. The condition of the base of acrylic dentures

		Adaptation of the base	
		Adapted	Not-adapted
The second test	N	97	20
	%	82.9	17.1

##### d. Occlusion

		Occlusion	
		Satisfactory	Not-satisfactory
Second test	N	90	27
	%	76.9	23.1

##### e. Functional equilibrium

		Functional equilibrium	
		Satisfactory	Not-satisfactory
The second test	N	79	38
	%	67.5	32.5

### *f. Retention*

		Retention		
		Excellent	Good	Poor
The second test	N	41	66	10
	%	35.0	56.4	8.6

### *g. Stability*

		Stability		
		Excellent	Good	Poor
The second test	N	25	77	15
	%	21.4	65.8	8.6

### **1.3.e. The success of intervening**

Excellent	N	39
	%	33.33
Good	N	78
	%	66.67
Total	N	117
	%	100.00

## **2. PRIMARY OUTCOME MEASURES TEST-RETEST GROUP (N=36)**

*The clinical characteristics of the period after the moment when interventions have been done for the participants-patients*

### *a. The condition of artificial teeth of acrylic dentures*

		Acrylic denture -teeth	
		There is a need for the additional intervention	There is no need for the additional intervention
The second test	N	6	30
	%	16.7	83.3

### *b. Adaptations of the bases*

		Acrylic denture-a base	
		Adapted	Not-adapted
The second test	N	21	15
	%	58.3	41.7



***c. The condition of the base of acrylic dentures***

		Adaptation of the base	
		Adapted	Not-adapted
The second test	N	30	6
	%	83.3	16.7

***d. Occlusion***

		Occlusion	
		Satisfactory	Not-satisfactory
The second test	N	25	11
	%	69.4	30.6

***e. Functional equilibrium***

		Functional equilibrium	
		Satisfactory	Not-satisfactory
The second test	N	24	12
	%	66.7	33.3

***f. Retention***

		Retention		
		Excellent	Good	Poor
The second test	N	10	20	6
	%	27.8	55.5	16.7

***g. Stability***

		Stabiity of prosthetic constructions- dentures		
		Excellent	Good	Poor
The second test	N	19	10	7
	%	69.4	27.8	12.8

***3. The OHIP-EDENT QUESTIONNAIRE<sup>1</sup>***

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<sup>1</sup> S.R. Zani, E. G. Rivaldo, L C. F. Frasca, L. F. Caye ***Oral health impact profile and prosthetic condition in edentulous patients rehabilitated with implant-supported overdentures and fixed prostheses*** Journal of Oral Science, Vol. 51, No. 4, 535-543, 2009

#### Functional limitation

1- Have you had difficulty chewing any foods because of problems with your teeth, mouth or dentures?

2- Have you had food catching in your teeth or dentures?

3- Have you felt that your dentures have not been fitting properly?

#### Physical pain

4- Have you had painful aching in your mouth?

5- Have you found it uncomfortable to eat any foods because of problems with your teeth, mouth or dentures?

6- Have you had sore spots in your mouth?

7- Have you had uncomfortable dentures?

#### Psychological discomfort

8- Have you been worried by dental problems?

9- Have you been self conscious because of your teeth, mouth or dentures?

#### Physical disability

10- Have you had to avoid eating some foods because of problems with your teeth, mouth or dentures?

11- Have you been unable to eat with your dentures because of problems with them?

12- Have you had to interrupt meals because of problems with your teeth, mouth or dentures?

#### Psychological disability

13- Have you been upset because of problems with your teeth, mouth or dentures?

14- Have you been a bit embarrassed because of problems with your teeth, mouth or dentures?

#### Social disability

15- Have you avoided going out because of problems with your teeth, mouth or dentures?

16- Have you been less tolerant of your spouse or family because of problems with your teeth, mouth or dentures?

17- Have you been a bit irritable with other people because of problems with your teeth, mouth or dentures?

#### Handicap

18- Have you been unable to enjoy other people's company as much because of problems with your teeth, mouth or dentures?

19- Have you felt that life in general was less satisfying because of problems with your teeth, mouth or dentures?

English version of the questionnaire gives a choice of five answers. The lowest scores represent a satisfactory perception of an individual's oral conditions, and therefore higher satisfaction and the better quality of life;

## 1. SECONDARY OUTCOME MEASURES

- **Outcome Measures:** A tabular summary of the outcome measures listed in the ISRCTN record. Please ensure to list your primary outcome measures in a tabular format and provide your secondary outcome measures in a separate table if available

## 1.1. SECONDARY OUTCOME MEASURES FOR THE REALIZATION OF THE FIRST GOAL OF THE STUDY

### AN ASSESSMENT ON RELIABILITY AND THE VALIDITY OF SERBIAN VERSION OF THE QUESTIONNAIRE FOR JUSTIFICATION OF ORAL-HEALTH QUALITY OF LIFE OF EDENTULOUS PATIENTS (OHIP-EDENT-SR)

#### RELIABILITY

*Internal consistency between the OHIP-EDENT-SR and seven subscales ( n = 36)*

OHIP-EDENT-SR Oral Health Impact Profile for edentulous	
Dimension	Cronbach's $\alpha$
OHIP-EDENT-SR	0.907
Functional limitation	0.748
Physical pain	0.713
Psychological discomfort	0.645
Physical disability	0.820
Psychological disability	0.636
Social disability	0.859
Handicap	0.661

*Test–retest reliability between the OHIP-EDENT-SR and seven subscales ( n = 36)*

OHIP-EDENT-SR Oral Health Impact Profile for edentulous		
Dimension	ICC	95% CI
OHIP-EDENT-J	0,932	0.910–0.950
Functional limitation	0.773	0.679–0.843
Physical pain	0.669	0.543–0.767
Psychological discomfort	0.770	0.652–0.848
Physical disability	0.868	0.813–0.909
Psychological disability	0.654	0.477–0.717
Social disability	0.862	0.804–0.904
Handicap	0.379	0.061–0.598

#### VALIDITY

**Content validity for Test Group -Retest Group**

**Summary scores OHIP-EDENT-SR for Test Group - Retest Group**  
(n = 36)

		N	Mean	Std. Deviation	Min	Max
OHIP-EDENT	Test	36	31.2222	8.5159	20	56
	Retest	36	30.9722	8.48355	20	56
	Total	72	31,0972	8.44061	20	56
Functional limitation	Test	36	5.8889	2.09459	3	9
	Retest	36	5.7222	1.95099	3	9
	Total	72	5.8056	2.01151	3	9
Physical pain	Test	36	7.3611	2.08605	4	12
	Retest	36	7.3889	2.08776	4	12
	Total	72	7.375	2.0722	4	12
Psychological discomfort	Test	36	3.5556	1.52023	2	6
	Retest	36	3.4722	1.52102	2	6
	Total	72	3.5139	1.51046	2	6
Physical disability	Test	36	4.9444	1.97042	3	9
	Retest	36	4.9444	1.97042	3	9
	Total	72	4.9444	1.95649	3	9
Psychological disability	Test	36	2.9167	1.18019	2	6
	Retest	36	2.8889	1.16565	2	6
	Total	72	2.9028	1.16474	2	6
Social disability	Test	36	3.4444	1.22927	3	9
	Retest	36	3.4444	1.22927	3	9
	Total	72	3.4444	1.22059	3	9
Handicap	Test	36	3,1111	1.06309	2	6
	Retest	36	3,1111	1.06309	2	6
	Total	72	3,1111	1.05558	2	6

**t test of significance of differences of summary scores OHIP-EDENT-SR  
for Test Group - Retest Group**  
(n = 36)

	t	Sig. (2-tailed)
OHIP-EDENT	0.125	0.901

Functional limitation	0.349	0.728
Physical pain	-0.056	0.955
Psychological discomfort	0.233	0.817
Physical disability	0.000	1.000
Psychological disability	0.100	0.920
Social disability	0.000	1.000
Handicap	0.000	1.000

### Content validity for Group A and Group B

#### Summary scores OHIP-EDENT-SR for Group A and Group B (n=117)<sup>2</sup>

		N	Mean	Std. Deviation	Min	Max
OHIP-EDENT	Group A	117	35.3675	10.1324	13	57
	Group B	117	32.7094	7.96767	19	56
	Total	234	34.0385	9.19196	13	57
Functional limitation	Group A	117	6.5897	1.94384	1	9
	Group B	117	6.0427	1.65255	3	9
	Total	234	6.3162	1.82095	1	9
Physical pain	Group A	117	7.8632	2.39218	2	12
	Group B	117	7.4017	2.0429	4	12
	Total	234	7.6325	2.23164	2	12
Psychological discomfort	Group A	117	3.8034	1.47531	2	6
	Group B	117	3.4188	1.21938	2	6
	Total	234	3.6111	1.36418	2	6
Physical disability	Group A	117	5.9573	2.03586	2	9
	Group B	117	5.4701	1.7249	3	9
	Total	234	5.7137	1.8985	2	9
Psychological disability	Group A	117	3.4615	1.4296	1	6
	Group B	117	3.188	1.12136	2	6
	Total	234	3.3248	1.2893	1	6
Social disability	Group A	117	4.265	1.8587	3	9
	Group B	117	4.0256	1.4589	3	9

<sup>2</sup> The group A (n=117) is consisted of all of the patients for the period before any of interventions; The group B (n=117) is consisted of the same of the patients who participated within the group A, but in the period after the interventions on dentures were conducted

	Total	234	4.1453	1.6716	3	9
Handicap	Group A	117	3.4274	1.22697	1	6
	Group B	117	3.1624	1.04186	2	6
	Total	234	3.2949	1.1434	1	6

**. t test of the significance of differences of summary scores OHIP-EDENT-SR  
for the Group A and the Group B  
(n=117)**

	t	Sig. (2-tailed)
OHIP-EDENT-SR	2.231	0.027
Functional limitation	2.319	0.021
Physical pain	1.587	0.114
Psychological discomfort	2.174	0.031
Physical disability	1.975	0.050
Psychological disability	1.628	0.105
Social disability	1.095	0.275
Handicap	1.780	0.076

**Concurrent validity for Group A and Group B**

The Spearman's correlation coefficient for the degree of satisfaction with dentures interventions and the summary scores for OHIP-EDENT-SR, calculated for Groups A and B ( $n = 234$ ) was statistički visoko signifikantan i negativan, -0.282.

**RESPONSIVENESS**

Responsiveness of intervention was analysed for the group of 117 patients who were included in this study; the mean OHIP-EDENT-SR changed from 35,37 to 32,71 after denture treatment (Table 2.2.1) but effect size 0,218 indicated that the contribution of the interventions on dentures is significant, but in a small/moderate extent.

## 1.2. SECONDARY OUTCOME MEASURES FOR THE REALIZATION OF THE SECOND GOAL OF THE STUDY

### QUALITY OF LIFE OF COMPLETE DENTURE WEARERS IN BOSNIA

#### OHIP-EDENT OF THE FIRST TEST AND THE SECOND TEST Descriptives and ANOVA

		N	Mean	Std. Deviation	Minimum	Maximum
OHIP-EDENT	The first test	117	35.3675	10.1324	13	57
	The second test	117	32.7094	7.96767	19	56
	Total	234	34.0385	9.19196	13	57
Functional limitation	The first test	117	6.5897	1.94384	1	9
	The second test	117	6.0427	1.65255	3	9
	Total	234	6.3162	1.82095	1	9
Physical pain	The first test	117	7.8632	2.39218	2	12
	The second test	117	7.4017	2.04290	4	12
	Total	234	7.6325	2.23164	2	12
Psychological discomfort	The first test	117	3.8034	1.47531	2	6
	The second test	117	3.4188	1.21938	2	6
	Total	234	3.6111	1.36418	2	6
Physical disability	The first test	117	5.9573	2.03586	2	9
	The second test	117	5.4701	1.72493	3	9
	Total	234	5.7137	1.89852	2	9
Psychological disability	The first test	117	3.4615	1.42960	1	6
	The second test	117	3.1880	1.12136	2	6
	Total	234	3.3248	1.28930	1	6
Social disability	The first test	117	4.2650	1.85878	3	9
	The second test	117	4.0256	1.45899	3	9
	Total	234	4.1453	1.67160	3	9
Handicap	The first test	117	3.4274	1.22697	1	6
	The second test	117	3.1624	1.04186	2	6
	Total	234	3.2949	1.14347	1	6
1. Have you had difficulty chewing any foods because of problems with your teeth, mouth or dentures?	The first test	117	2.32	.715	1	3
	The second test	117	2.11	.654	1	3
	Total	234	2.21	.691	1	3
2. Have you had food catching in your teeth or dentures?	The first test	117	2.29	.696	1	3
	The second test	117	2.09	.664	1	3
	Total	234	2.19	.686	1	3
3. Have felt that your dentures have not been fitting properly?	The first test	117	2.01	.825	1	3
	The second test	117	1.85	.715	1	3
	Total	234	1.93	.774	1	3
4. Have you had painful aching in your mouth?	The first test	117	1.91	.851	1	4
	The second test	117	1.76	.739	1	3
	Total	234	1.83	.798	1	4
5. Have you found it uncomfortable to eat any foods because of problems with your teeth, mouth or dentures?	The first test	117	2.42	2.056	1	23
	The second test	117	2.09	.695	1	3
	Total	234	2.26	1.540	1	23

6. Have you had sore spots in your mouth?	The first test	117	1.86	1.181	1	11
	The second test	117	1.61	.682	1	3
	Total	234	1.74	.971	1	11
7. Have you had uncomfortable dentures?	The first test	117	2.02	.841	1	4
	The second test	117	1.94	.769	1	3
	Total	234	1.98	.805	1	4
8. Have you been worried by dental problems?	The first test	117	1.96	1.020	1	8
	The second test	117	1.71	.708	1	3
	Total	234	1.83	.885	1	8
9. Have you been self-conscious because of your teeth, mouth or dentures?	The first test	117	1.91	.857	1	3
	The second test	117	1.71	.720	1	3
	Total	234	1.81	.796	1	3
10. Have you had to avoid eating some foods because of problems with your teeth, mouth or dentures?	The first test	117	2.22	.744	1	3
	The second test	117	2.05	.693	1	3
	Total	234	2.14	.722	1	3
11. Have you been unable to eat with your dentures because of problems with them?	The first test	117	1.97	.793	1	3
	The second test	117	1.80	.710	1	3
	Total	234	1.89	.756	1	3
12. Have you had to interrupt meals because of problems with your teeth, mouth or dentures?	The first test	117	1.80	.768	1	3
	The second test	117	1.62	.655	1	3
	Total	234	1.71	.718	1	3
13. Have you been upset because of problems with your teeth, mouth or dentures?	The first test	117	1.81	.850	1	3
	The second test	117	1.69	.725	1	3
	Total	234	1.75	.791	1	3
14. Have you been a bit embarrassed because of problems with your teeth, mouth or dentures?	The first test	117	1.67	.777	1	3
	The second test	117	1.50	.611	1	3
	Total	234	1.58	.702	1	3
15. Have you avoided going out because of problems with your teeth, mouth or dentures?	The first test	117	1.44	.712	1	3
	The second test	117	1.37	.581	1	3
	Total	234	1.40	.649	1	3
16. Have you been less tolerant of your partner or family because of problems with your teeth, mouth or dentures?	The first test	117	1.40	.696	1	3
	The second test	117	1.32	.570	1	3
	Total	234	1.36	.636	1	3
17. Have you been irritable with other people because of problems with your teeth, mouth or dentures?	The first test	117	1.44	.674	1	3
	The second test	117	1.33	.525	1	3
	Total	234	1.38	.605	1	3
18. Have you been unable to enjoy Second peoples company as much because of problems with your teeth, mouth or dentures?	The first test	117	1.45	.701	1	3
	The second test	117	1.36	.549	1	3
	Total	234	1.41	.630	1	3
19. Have you felt that life in general was less satisfying because of problems with your teeth, mouth or dentures?	The first test	117	1.98	.820	1	3
	The second test	117	1.80	.801	1	3
	Total	234	1.89	.814	1	3



ANOVA						
		Sum of Squares	df	Mean Square	F	Sig.
OHIP-EDENT	Between Groups	413.338	1	413.338	4.975	<b>.027</b>
	Within Groups	19273.316	232	83.075		
	Total	19686.654	233			
Functional limitation	Between Groups	17.504	1	17.504	5.378	<b>.021</b>
	Within Groups	755.094	232	3.255		
	Total	772.598	233			
Physical pain	Between Groups	12,462	1	12.462	2.519	.114
	Within Groups	1147,932	232	4.948		
	Total	1160,393	233			
Psychological discomfort	Between Groups	8,654	1	8.654	4.724	<b>.031</b>
	Within Groups	424.957	232	1.832		
	Total	433.611	233			
Physical disability	Between Groups	13.885	1	13.885	3.900	<b>.049</b>
	Within Groups	825.932	232	3.560		
	Total	839.816	233			
Psychological disability	Between Groups	4.376	1	4.376	2.651	.105
	Within Groups	382.940	232	1.651		
	Total	387.316	233			
Social disability	Between Groups	3.350	1	3.350	1.200	.274
	Within Groups	647.709	232	2.792		
	Total	651.060	233			
Handicap	Between Groups	4.107	1	4.107	3.170	.076
	Within Groups	300.547	232	1,295		
	Total	304.654	233			
1. Have you had difficulty chewing any foods because of problems with your teeth, mouth or dentures?	Between Groups	2,462	1	2.462	5.246	<b>.023</b>
	Within Groups	108.855	232	.69		
	Total	111.316	233			
2. Have you had food catching in your teeth or dentures?	Between Groups	2.462	1	2,462	5.324	<b>.022</b>
	Within Groups	107.265	232	.462		
	Total	109.726	233			
3. Have felt that your dentures have not been fitting properly?	Between Groups	1.543	1	1.543	2.589	.109
	Within Groups	138.222	232	.596		
	Total	139.765	233			
4. Have you had painful aching in your mouth?	Between Groups	1.235	1	1.235	1.946	.164
	Within Groups	147.265	232	.635		

	Total	148.500	233			
5. Have you found it uncomfortable to eat any foods because of problems with your teeth, mouth or dentures?	Between Groups	6.171	1	6.171	2.620	.107
	Within Groups	546.444	232	2.355		
	Total	552.615	233			
6. Have you had sore spots in your mouth?	Between Groups	3.846	1	3.846	4.136	.043
	Within Groups	215.726	232	.930		
	Total	219.573	233			
7. Have you had uncomfortable dentures?	Between Groups	.346	1	.346	.533	.466
	Within Groups	150.547	232	.649		
	Total	150.893	233			
8. Have you been worried by dental problems?	Between Groups	3.594	1	3.594	4.661	.032
	Within Groups	178.906	232	.771		
	Total	182.500	233			
9. Have you been self-conscious because of your teeth, mouth or dentures?	Between Groups	2.462	1	2.462	3.931	.049
	Within Groups	145.265	232	.626		
	Total	147.726	233			
10. Have you had to avoid eating some foods because of problems with your teeth, mouth or dentures?	Between Groups	1.709	1	1.709	3.307	.070
	Within Groups	119.915	232	.517		
	Total	121.624	233			
11. Have you been unable to eat with your dentures because of problems with them?	Between Groups	1.709	1	1.709	3.018	.084
	Within Groups	131.402	232	.566		
	Total	133.111	233			
12. Have you had to interrupt meals because of problems with your teeth, mouth or dentures?	Between Groups	2.068	1	2.068	4.061	.045
	Within Groups	118.171	232	.509		
	Total	120.239	233			
13. Have you been upset because of problems with your teeth, mouth or dentures?	Between Groups	.838	1	.838	1.342	.248
	Within Groups	144.786	232	.624		
	Total	145.624	233			
14. Have you been a bit embarrassed because of problems with your teeth, mouth or dentures?	Between Groups	1.709	1	1.709	3.502	.063
	Within Groups	113.248	232	.488		
	Total	114.957	233			
15. Have you avoided going out because of problems with your teeth, mouth or dentures?	Between Groups	.274	1	.274	.648	.422
	Within Groups	97.966	232	.422		
	Total	98.239	233			

16. Have you been less tolerant of your partner or family because of problems with your teeth, mouth or dentures?	Between Groups	.346	1	.346	.856	.356
	Within Groups	93.778	232	.404		
	Total	94.124	233			
17. Have you been irritable with Second people because of problems with your teeth, mouth or dentures?	Between Groups	.615	1	.615	1.684	.196
	Within Groups	84.769	232	.365		
	Total	85.385	233			
18. Have you been unable to enjoy Second peoples company as much because of problems with your teeth, mouth or dentures?	Between Groups	.517	1	.517	1.305	.254
	Within Groups	91.915	232	.396		
	Total	92.432	233			
19. Have you felt that life in general was less satisfying because of problems with your teeth, mouth or dentures?	Between Groups	1.885	1	1.885	2.868	.092
	Within Groups	152.444	232	.657		
	Total	154.329	233			

### THE FIRST TESTING AND THE SECOND TESTING OF OHIP-EDENT Pearson Correlation

		The first test	The second test
OHIP-EDENT	Pearson Correlation	1	1
	Sig. (2-tailed)		
	N	117	117
Functional limitation	Pearson Correlation	.803**	.783**
	Sig. (2-tailed)	.000	.000
	N	117	117
Physical pain	Pearson Correlation	.888**	.853**
	Sig. (2-tailed)	.000	.000
	N	117	117
Psychological discomfort	Pearson Correlation	.783**	.759**
	Sig. (2-tailed)	.000	.000
	N	117	117
Physical disability	Pearson Correlation	.855**	.810**
	Sig. (2-tailed)	.000	.000
	N	117	117
Psychological disability	Pearson Correlation	.803**	.725**
	Sig. (2-tailed)	.000	.000
	N	117	117
Social disability	Pearson Correlation	.766**	.701**
	Sig. (2-tailed)	.000	.000

	N	117	117
Handicap	Pearson Correlation	.799**	.743**
	Sig. (2-tailed)	.000	.000
	N	117	117
1. Have you had difficulty chewing any foods because of problems with your teeth, mouth or dentures?	Pearson Correlation	.681**	.693**
	Sig. (2-tailed)	.000	.000
	N	117	117
2. Have you had food catching in your teeth or dentures?	Pearson Correlation	.565**	.536**
	Sig. (2-tailed)	.000	.000
	N	117	117
3. Have felt that your dentures have not been fitting properly?	Pearson Correlation	.756**	.678**
	Sig. (2-tailed)	.000	.000
	N	117	117
4. Have you had painful aching in your mouth?	Pearson Correlation	.669**	.726**
	Sig. (2-tailed)	.000	.000
	N	117	117
5. Have you found it uncomfortable to eat any foods because of problems with your teeth, mouth or dentures?	Pearson Correlation	.034	.636**
	Sig. (2-tailed)	.713	.000
	N	117	117
6. Have you had sore spots in your mouth?	Pearson Correlation	.367**	.631**
	Sig. (2-tailed)	.000	.000
	N	117	117
7. Have you had uncomfortable dentures?	Pearson Correlation	.344**	.433**
	Sig. (2-tailed)	.000	.000
	N	117	117
8. Have you been worried by dental problems?	Pearson Correlation	.496**	.735**
	Sig. (2-tailed)	.000	.000
	N	117	117
9. Have you been self-conscious because of your teeth, mouth or dentures?	Pearson Correlation	.581**	.562**
	Sig. (2-tailed)	.000	.000
	N	117	117
10. Have you had to avoid eating some foods because of problems with your teeth, mouth or dentures?	Pearson Correlation	.695**	.721**
	Sig. (2-tailed)	.000	.000
	N	117	117
11. Have you been unable to eat with your dentures because of problems with them?	Pearson Correlation	.775**	.706**
	Sig. (2-tailed)	.000	.000
	N	117	117
12. Have you had to interrupt meals because of problems with your teeth, mouth or dentures?	Pearson Correlation	.669**	.607**
	Sig. (2-tailed)	.000	.000
	N	117	117
13. Have you been upset because of problems with your teeth, mouth or dentures?	Pearson Correlation	.702**	.632**
	Sig. (2-tailed)	.000	.000

	N	117	117
14. Have you been a bit embarrassed because of problems with your teeth, mouth or dentures?	Pearson Correlation	.661**	.581**
	Sig. (2-tailed)	.000	.000
	N	117	117
15. Have you avoided going out because of problems with your teeth, mouth or dentures?	Pearson Correlation	.668**	.610**
	Sig. (2-tailed)	.000	.000
	N	117	117
16. Have you been less tolerant of your partner or family because of problems with your teeth, mouth or dentures?	Pearson Correlation	.688**	.587**
	Sig. (2-tailed)	.000	.000
	N	117	117
17. Have you been irritable with Second people because of problems with your teeth, mouth or dentures?	Pearson Correlation	.666**	.635**
	Sig. (2-tailed)	.000	.000
	N	117	117
18. Have you been unable to enjoy Second peoples company as much because of problems with your teeth, mouth or dentures?	Pearson Correlation	.634**	.566**
	Sig. (2-tailed)	.000	.000
	N	117	117
19. Have you felt that life in general was less satisfying because of problems with your teeth, mouth or dentures?	Pearson Correlation	.630**	.578**
	Sig. (2-tailed)	.000	.000
	N	117	117

\*\* . Correlation is significant at the 0.01 level (2-tailed).

\* . Correlation is significant at the 0.05 level (2-tailed)

### THE FIRST AND THE SECOND TESTING OF OHIP-EDENT t-test of Equality of Means

		F	Sig.	t	df	Sig. (2-tailed)
OHIP-EDENT	Equal variances assumed	6.554	.011	2.231	232	.027
	Equal variances not assumed			2.231	219.778	.027
Functional limitation	Equal variances assumed	7.524	.007	2.319	232	.021
	Equal variances not assumed			2.319	226.143	.021
Physical pain	Equal variances assumed	2.106	.148	1.587	232	.114
	Equal variances not assumed			1.587	226.451	.114
Psychological discomfort	Equal variances assumed	4.212	.041	2.174	232	.031

	Equal variances not assumed			2.174	224.059	<b>.031</b>
Physical disability	Equal variances assumed	2.244	.136	1.975	232	<b>.049</b>
	Equal variances not assumed			1.975	225.907	<b>.050</b>
Psychological disability	Equal variances assumed	9.925	.002	1.628	232	.105
	Equal variances not assumed			1.628	219.544	.105
Social disability	Equal variances assumed	6.983	.009	1.095	232	.274
	Equal variances not assumed			1.095	219.608	.275
Handicap	Equal variances assumed	7.808	.006	1.780	232	.076
	Equal variances not assumed			1.780	226.060	.076

## OHIP-EDENT AND THE SUCCESS OF THE INTERVENTIONS THAT WERE CONDUCTED

### Descriptives and ANOVA

#### Descriptives

		N	Mean	Std. Deviation	Minimum	Maximum
OHIP-EDENT	PERFECT	39	29.5897	6.3731	19.00	48.00
	IMPROVED	78	34.2692	8.2582	19.00	56.00
	Total	117	32.7094	7.9676	19.00	56.00
Functional limitation	PERFECT	39	5.5385	1.2321	3.00	8.00
	IMPROVED	78	6.2949	1.7809	3.00	9.00
	Total	117	6.0427	1.6525	3.00	9.00
Physical pain	PERFECT	39	6.6154	1.6159	4.00	11.00
	IMPROVED	78	7.7949	2.1281	4.00	12.00
	Total	117	7.4017	2.0429	4.00	12.00
Psychological discomfort	PERFECT	39	3.2308	1.0377	2.00	6.00
	IMPROVED	78	3.5128	1.2967	2.00	6.00
	Total	117	3.4188	1.2193	2.00	6.00
Physical disability	PERFECT	39	4.9231	1.5792	3.00	9.00
	IMPROVED	78	5.7436	1.7390	3.00	9.00
	Total	117	5.4701	1.7249	3.00	9.00
Psychological disability	PERFECT	39	2.8974	.9945	2.00	5.00
	IMPROVED	78	3.3333	1.1584	2.00	6.00
	Total	117	3.1880	1.1213	2.00	6.00
Social disability	PERFECT	39	3.6667	1.1772	3.00	6.00
	IMPROVED	78	4.2051	1.5572	3.00	9.00
	Total	117	4.0256	1.4589	3.00	9.00
	PERFECT	39	2.7179	.72361	2.00	5.00

Handicap	IMPROVED	78	3.3846	1.1076	2.00	6.00
	Total	117	3.1624	1.04186	2.00	6.00

#### ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Functional limitation	Between Groups	56.081	1	56.081	18.158	.000
	Within Groups	716.518	232	3.088		
	Total	772.598	233			
Physical pain	Between Groups	136.923	1	136.923	31.038	.000
	Within Groups	1023.470	232	4.412		
	Total	1160.393	233			
Psychological discomfort	Between Groups	17.731	1	17.731	9.891	.002
	Within Groups	415.880	232	1.793		
	Total	433.611	233			
Physical disability	Between Groups	92.346	1	92.346	28.662	.000
	Within Groups	747.470	232	3.222		
	Total	839.816	233			
Psychological disability	Between Groups	26.872	1	26.872	17.296	.000
	Within Groups	360.444	232	1.554		
	Total	387.316	233			
Social disability	Between Groups	40.739	1	40.739	15.486	.000
	Within Groups	610.321	232	2.631		
	Total	651.060	233			
Handicap	Between Groups	33.704	1	33.704	28.859	.000
	Within Groups	270.950	232	1.168		
	Total	304.654	233			
OHIP-EDENT	Between Groups	2538.414	1	2538.414	34.342	.000
	Within Groups	17148.240	232	73.915		
	Total	19686.654	233			

**OHIP-EDENT AND THE SUCCESS OF INTERVENTIONS THAT WERE  
CONDUCTED  
Pearson Correlation**

		PERFECT	IMPROVED
OHIP-EDENT	Pearson Correlation	1	1
	Sig. (2-tailed)		
	N	39	78
Functional limitation	Pearson Correlation	.635**	.807**
	Sig. (2-tailed)	.000	.000
	N	39	78
Physical pain	Pearson Correlation	.840**	.840**
	Sig. (2-tailed)	.000	.000
	N	39	78
Psychological discomfort	Pearson Correlation	.791**	.755**
	Sig. (2-tailed)	.000	.000
	N	39	78
Physical disability	Pearson Correlation	.844**	.786**
	Sig. (2-tailed)	.000	.000
	N	39	78
Psychological disability	Pearson Correlation	.732**	.709**
	Sig. (2-tailed)	.000	.000
	N	39	78
Social disability	Pearson Correlation	.721**	.680**
	Sig. (2-tailed)	.000	.000
	N	39	78
Handicap	Pearson Correlation	.693**	.728**
	Sig. (2-tailed)	.000	.000
	N	39	78
1. Have you had difficulty chewing any foods because of problems with your teeth, mouth or dentures?	Pearson Correlation	.535**	.722**
	Sig. (2-tailed)	.000	.000
	N	39	78
2. Have you had food catching in your teeth or dentures?	Pearson Correlation	.464**	.530**
	Sig. (2-tailed)	.003	.000
	N	39	78
3. Have felt that your dentures have not been fitting properly?	Pearson Correlation	.496**	.710**
	Sig. (2-tailed)	.001	.000
	N	39	78
4. Have you had painful aching in your mouth?	Pearson Correlation	.551**	.754**
	Sig. (2-tailed)	.000	.000
	N	39	78
5. Have you found it	Pearson Correlation	.674**	.604**
	Sig. (2-tailed)		
	N		



uncomfortable to eat any foods because of problems with your teeth, mouth or dentures?	Sig. (2-tailed) N	.000 39	.000 78
6. Have you had sore spots in your mouth?	Pearson Correlation Sig. (2-tailed) N	.551** .000 39	.639** .000 78
7. Have you had uncomfortable dentures?	Pearson Correlation Sig. (2-tailed) N	.507** .001 39	.367** .001 78
8. Have you been worried by dental problems?	Pearson Correlation Sig. (2-tailed) N	.726** .000 39	.717** .000 78
9. Have you been self-conscious because of your teeth, mouth or dentures?	Pearson Correlation Sig. (2-tailed) N	.615** .000 39	.591** .000 78
10. Have you had to avoid eating some foods because of problems with your teeth, mouth or dentures?	Pearson Correlation Sig. (2-tailed) N	.619** .000 39	.763** .000 78
11. Have you been unable to eat with your dentures because of problems with them?	Pearson Correlation Sig. (2-tailed) N	.816** .000 39	.635** .000 78
12. Have you had to interrupt meals because of problems with your teeth, mouth or dentures?	Pearson Correlation Sig. (2-tailed) N	.746** .000 39	.534** .000 78
13. Have you been upset because of problems with your teeth, mouth or dentures?	Pearson Correlation Sig. (2-tailed) N	.701** .000 39	.591** .000 78
14. Have you been a bit embarrassed because of problems with your teeth, mouth or dentures?	Pearson Correlation Sig. (2-tailed) N	.510** .001 39	.593** .000 78
15. Have you avoided going out because of problems with your teeth, mouth or dentures?	Pearson Correlation Sig. (2-tailed) N	.564** .000 39	.612** .000 78
16. Have you been less tolerant of your partner or family because of problems with your teeth, mouth or dentures?	Pearson Correlation Sig. (2-tailed) N	.689** .000 39	.540** .000 78
17. Have you been irritable with other people because of problems with your teeth, mouth or dentures?	Pearson Correlation Sig. (2-tailed) N	.598** .000 39	.627** .000 78
18. Have you been unable to enjoy other people's company as much?	Pearson Correlation Sig. (2-tailed)	.524** .001	.565** .000

because of problems with your teeth, mouth or dentures?	N	39	78
19. Have you felt that life in general was less satisfying because of problems with your teeth, mouth or dentures?	Pearson Correlation	.450	.565
	Sig. (2-tailed)	.004	.000
	N	39	78

\*\*. Correlation is significant at the 0.01 level (2-tailed).

\*. Correlation is significant at the 0.05 level (2-tailed)

## OHIP-EDENT AND THE SUCCESS OF THE INTERVENTIONS THAT WERE CONDUCTED

### t- Independent Samples Test

		t	df	Sig. (2-tailed)
OHIP-EDENT	Equal variances assumed	-3.104	115	.002
	Equal variances not assumed	-3.381	95.404	.001
Functional limitation	Equal variances assumed	-2.380	115	.019
	Equal variances not assumed	-2.681	103.250	.009
Physical pain	Equal variances assumed	-3.047	115	.003
	Equal variances not assumed	-3.336	96.622	.001
Psychological discomfort	Equal variances assumed	-1.181	115	.240
	Equal variances not assumed	-1.272	92,635	.207
Physical disability	Equal variances assumed	-2.479	115	.015
	Equal variances not assumed	-2.560	82.994	.012
Psychological disability	Equal variances assumed	-2.008	115	.047
	Equal variances not assumed	-2.113	87.229	.037
Social disability	Equal variances assumed	-1.903	115	.060
	Equal variances not assumed	-2.086	96.951	.040
Handicap	Equal variances assumed	-3.409	115	.001

Equal variances not assumed	-3.904	106.829	.000
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## Adverse events

There were no adverse events associated with this trial.