

**Table 1. The Description of the Criteria Used to Record the Clinical Parameters**

<b>Criteria</b>	<b>Score</b>	<b>Description</b>
<b>Gingival Health</b>	Alpha	No gingival bleeding
	Bravo	Bleeding with probe
	Charlie	Spontaneous bleeding
<b>Plaque index</b>	0	No plaque
	1	A film of plaque adhering to the free gingival margin cannot be seen with the naked eye. But only by using disclosing solution or by using probe.
	2	Moderate accumulation of deposits within the gingival pocket, on the gingival margin and/ or adjacent tooth surface, seen by naked eye.
	3	Abundance of soft matter within the gingival pocket and/or on the tooth and gingival margin.
<b>Secondary caries*</b>	Alpha	No caries present
	Charlie	Caries present
<b>Restoration failure*</b>	Alpha	Crown appears normal, no cracks, chips, or fracture
	Bravo	Small but noticeable area of loss of material
	Charlie	Large loss of crown material
	Delta	Complete loss of crown
<b>Proximal contact*</b>	Alpha	Resistance met when passing floss
	Bravo	Floss passed without resistance but contact present

	Charlie	No contact with adjacent tooth
<b>Marginal integrity*</b>	Alpha	Close marginal adaptation
	Bravo	No detectable margin
	Charlie	Detectable margin
<b>Occlusion*</b>	Alpha	Normal occlusion
	Charlie	Faulty occlusion
	Alpha	Normal occlusion
<b>Tooth wear of opposing Teeth**</b>	0	No loss of enamel surface characteristics, no loss of contour
	1	Loss of enamel surface characteristics, minimal loss of contour
	2	Loss of enamel exposing dentine for less than one third of surface, loss of enamel just exposing dentin, defect less than 1 mm deep
	3	Loss of enamel exposing dentin for more than one third of surface, loss of enamel and substantial loss of dentin, defect less than 1–2 mm deep
	4	Complete enamel loss, pulp exposure, secondary dentin exposure, pulp exposure or exposure of secondary dentin, defect more than 2 mm deep, pulp exposure, secondary dentin exposure

\* US Public Health Service “USPHS”, Alpha criteria rating system (Ryge, 1980)

\*\* Smith and Knight Tooth Wear Index (Bardsley, 2008; Smith and Knight, 1984).

**Table 2: Proportion Distribution of Demographic Data**

<b>Demographics</b>	<b>N</b>	<b>Min</b>	<b>Max</b>	<b>Mean</b>	<b>SD</b>
Age	120	3.0	5.5	4.43	0.7
		<b>Count</b>		<b>%</b>	
Total		120		100.0	
Nationality	Saudi	88		73.3	
	Non-Saudi	32		26.7	
Gender	Male	44		36.7	
	Female	76		63.3	
Restoration type	Zirconia Crown	60		50.0	
	Strip Crown	60		50.0	

**Table 3. Gingival Health Evaluation**

<b>Gingival Health</b> <b>(assessed as bleeding on probing)</b>	Zirconia Crowns	Strip Crowns	<i>p</i> -value
<b>At 3 months</b>	24 (40.0%)	40 (66.7%)	0.006 <sup>a</sup>
<b>At 6 months</b>	0 (0.0%)	28 (46.7%)	<0.001 <sup>a</sup>
<b>At 12 months</b>	0 (100%)	0 (100%)	N/A <sup>b</sup>

<sup>a</sup>-significant using *Chi-Square Test* @<0.05 level.

<sup>b</sup>-No statistics are computed because variable is a constant

**Table 4. Plaque Index Evaluation**

Plaque index		Zirconia Crowns	Strip Crowns	p-value
<b>At 3 months</b>	No plaque	20 (33.3%)	4 (6.7%)	<0.001 <sup>a</sup>
	A film of plaque adhering to the free gingival margin, cannot be seen with the naked eye	36 (60.0%)	44 (73.3%)	
	Moderate accumulation of deposits in the gingival pocket, on gingival margin and/or adjacent tooth surface, can be seen by the naked eye	4 (6.7%)	12 (20.0%)	
<b>At 6 months</b>	No plaque	47 (79.7%)	24 (40.0%)	<0.001 <sup>a</sup>
	A film of plaque adhering to free gingival margin, cannot be seen by naked eye	12 (20.3%)	36 (60.0%)	
<b>At 12 months</b>	No plaque	58 (100.0%)	48 (80.0%)	0.001 <sup>a</sup>
	Film of plaque adhering to the free gingival margin, cannot be seen with naked eye	0 (0.0%)	12 (20.0%)	

<sup>a</sup>-significant using Chi-Square Test @<0.05 level.

**Table 5. Secondary Caries Evaluation**

<b>Recurrent caries</b>		Zirconia Crowns	Strip Crowns	<i>p</i> -value
<b>At 3 months</b>	No caries present	60 (100.0%)	60 (100.0%)	N/A <sup>b</sup>
<b>At 6 months</b>	No caries present	59 (100.0%)	60 (100.0%)	N/A <sup>b</sup>
<b>At 12 months</b>	No caries present	58 (100.0%)	56 (93.3%)	0.135
	Caries present	0 (0.0%)	4 (6.7%)	

<sup>b</sup>-No statistics are computed because variable is a constant.

**Table 6. Restoration Failure Evaluation**

<b>Restoration failure</b>		Zirconia	Strip	p-value
		Crowns	Crowns	
<b>At 3 months</b>	Crowns appear normal, no cracks, chips, or fractures	60 (100.0%)	60 (100.0%)	N/A <sup>b</sup>
<b>At 6 months</b>	Crowns appears normal, no cracks, chips, or fractures	59 (98.3%)	52 (86.7%)	0.024 <sup>a</sup>
	Small but noticeable area of loss of material	0 (0.0%)	7 (11.7%)	
	Large loss of crown	0 (0.0%)	1 (1.7%)	
	Complete loss of crown	1(1.7%)	0 (0.0%)	
<b>At 12 months</b>	Crowns appears normal no cracks, chips, or fractures	58 (98.3%)	37 (61.7%)	<0.001 <sup>a</sup>
	Small but noticeable area of loss of material	0 (0.0%)	18 (30.0%)	
	Large loss of crown	0 (0.0%)	5 (8.3%)	
	Complete loss of crown	1 (1.7%)	0 (0.0%)	

<sup>a</sup>-significant using Chi-Square Test @<0.05 level.

<sup>b</sup>-No statistics are computed because variable is a constant.

**Table 7. Tooth Wear Evaluation**

<b>Tooth wear of opposing</b>		Zirconia	Strip	<i>p</i> -value
		Crowns	Crowns	
<b>At 3 months</b>	No loss of enamel surface characteristics, no loss of contour	60(100.0%)	60(100.0%)	N/A <sup>b</sup>
<b>At 6 months</b>	No loss of enamel surface characteristics, no loss of contour	60(100.0%)	60(100.0%)	N/A <sup>b</sup>
<b>At 12 months</b>	No loss of enamel surface characteristics, no loss of contour	53(88.3%)	60(100.0%)	0.020 <sup>a</sup>
	Loss of enamel surface characteristics, minimal loss of contour	7(11.7%)	0(0.0%)	

<sup>a</sup>-significant using Chi-Square Test @<0.05 level.

<sup>b</sup>-No statistics are computed because variable is a constant.