

Evaluation of Color Stability, Translucency and Flexural Strength of two types of Cubic Zirconia

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
يرفع الله الذين آمنوا منكم والذين
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Baba Allah Gesham Hussein Ismail

Dedication

To My beloved Mother

My precious Sister

To My Family

My beloved Husband

&

My daughter Lily

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LIST OF ABBREVIATIONS

FPDs	: Fixed partial dentures
CAD/CAM	: Computer assisted design/computer aided manufacture
UT	: Ultra-translucent
ST	: Super-translucent
Y-TZP	: Yttria stabilized tetragonal zirconia polycrystals
CIE	: Commission Internationale de l'Eclairage
CR	: Contrast ratio
TP	: Translucency parameter
MPa	: Mega pascal
BFS	: Biaxial flexural strength
LTD	: Low-temperature degradation
SEM	: Scanning electron microscope
Ra	: Surface roughness
K	: Katana cubic zirconia
B	: BruxZir Anterior cubic zirconia
T1	: Thickness (1mm)
T0.5	: Thickness (0.5mm)
b	: before hydrothermal aging
a	: after hydrothermal aging
f	: flexural strength
c	: color stability
t	: translucency
r	: roughness
NS	: Non significant
S	: Significant
HS	: Highly significant