

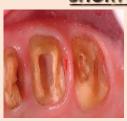




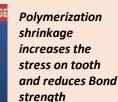
BioMimicry-Nature's Blueprint for Smart Healing

"Bio-mimetic dentistry is the art and science of repairing damaged teeth with restorations that imitate the living tissues"

SHORTCOMINGS OF TRADITIONAL DENTISTRY



Traditional
techniques rely on
mechanical
retention requiring
extensive tooth
preparation



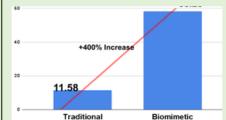


Reduced bond strength causes micro gaps leading to tooth sensitivity and pain called postoperative sensitivity



The life span of restorative material is comparatively low

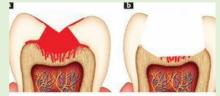
PARADIGMS OF BIOMIMETIC DENTISTRY



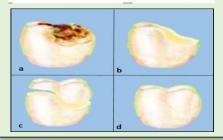
Maximum Bond Strength due to reduced polymerization stress (upto 400%)



Long term
Marginal Seal
due to strong
Bonding

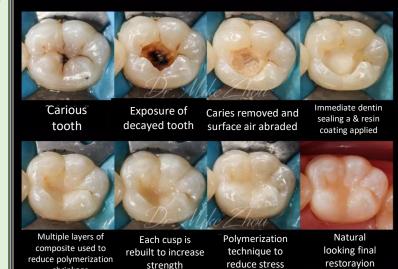


Preserves Pulp Vitality and prevents unnecessary root canals



Ultra conservative tooth preparation to preserve natural tooth strength

Stress Reducing & Bond Maximizing Protocols:





In large cavities,
a fibre mesh is
placed on the
cavity floor to
minimize stress



Removing dentin cracks complet



Use of gold standard three bond system two step self etch like – OptiBond and ClearFil SE Bond and SE Protect

WHAT IS THE SCIENCE BEHIND BIOMIMETIC DENTISTRY

"BIO" means life & "MIMESIS" means to imitate

This approach strives to preserve intact tooth structure and restore the function and biomechanics of natural teeth.



MATERIALS USEDDENTAL COMPOSITE
GLASS INOMER
CEMENT
DENTAL CERAMICS
BIODENTINE

Biomimetic approach unites an understanding and appreciation of the biomechanics of natural teeth with principles and techniques which maximize adhesion.