

Esthetic #8 and #9 E-Max Veneers

Yoomin Ahn
Heajin Cho
Eunice Jung
Joy Kim

Case Presentation

- 43 yo male patient
- CC: “I can’t smile when I work because of my front teeth, and smiling is my business!”
 - Pt was very conscious about his smile and reported that esthetics is his priority
- Med Hx: Healthy
- Dent Hx: Excellent oral hygiene, regular dental visits

Case Presentation cont.

- Existing:
 - #8: Porcelain Veneer
 - #9: Composite repaired porcelain Veneer
- History:
 - Existing veneers were used to close distal diastemas of central incisors
 - Previous dentist who repaired #9 thought the veneers were too long and repaired #9 to the 'right length'

Case Presentation cont.

- Problems:
 - #8: Unnaturally too bright, translucent at the incisal edge, too long
 - #9: Composite repair done at different length, stained, and fractured
- Picture is a post-op picture after chairside bleaching



Risks, Benefits, Costs, Alternatives

	Risks	Benefits	Cost
No treatment	- Pt's esthetic concern	- No cost	None
Direct Composite	- Technique sensitive - Discoloration - Shorter life span - Shrinkage during placement	- Esthetic (if done well) - Less invasive - Less cost - Instant Result	\$

Risks, Benefits, Costs, Alternatives

	Risks	Benefits	Cost
Veneers ¹	- Risk of fracture - Irreversible Process - Higher Tooth Sensitivity	- Esthetic (Natural looking teeth) - Stain resistant - Preserves tooth structure - Longevity and durability - Instant Result	\$\$
Crowns	- Most invasive - Unnecessary tooth reduction - Fit is important	- Esthetic - Stain resistant - Longevity and durability - Instant result	\$\$

Types of Veneers ²

- Porcelain Veneers* - what is used in this case study
 - Durable, high-quality ceramic that creates a natural look that matches the enamel of natural tooth
- Composite Resin
 - Can be used to conceal cracks, chips, gaps, and discoloration
- CEREC Veneers
 - Chairside veneers that can be done in one visit
- Zirconia
 - Stronger material that is ideal for patients who have more severely damaged or decayed teeth; Zirconia can prevent premature wear

Longevity of Veneers

- Porcelain veneers are a very successful tx option. However, there may be an increased risk of failure when veneers are partially bonded to dentin ³
- The estimated survival probability over a period of 10 years is 91% ⁴
 - In a study done by Aristidis et al., 186 veneers were placed in 61 patients
 - Evaluation at 5 years reported that 98.4% of the veneers were clinically acceptable
 - The veneers presented with low fracture rate, good retention and esthetics
- Quality and longevity of veneers depend on the experience of the operator ⁵
 - In a study done by Kihn et al., fifty-three veneers were placed among twelve patients by one practitioner and evaluated at 47 months
 - It was reported that all veneers were clinically acceptable, no tooth sensitivity, and no color change

Bonding of Veneers ⁶

- Silane treatment of the etched porcelain results in higher bond strength
 - Shear strength is greater compared to merely etched porcelain
- Bond strengths of enamel/composite/porcelain compared to enamel /composite and porcelain/composite were different
 - Bond strength of enamel to composite cannot determine the bond strength of bonding porcelain veneers to enamel with composite
- Thermocycling does not affect the bond strength of porcelain veneers
 - Thermocycling does not dilute the effects of silane treatment of the etched porcelain

Work in progress...



Dx impression taken for study casts, wax-up, and temporary matrix

Work in progress...



- Shade taken prior to prep a few days after chairside bleaching
- Dx cast with wax-up was sent to the lab for reference.



Delivery

- Patient was satisfied with the esthetics of study cast wax up
- Picture shows patient with temporary #8 and #9 veneers on delivery day



Outcome

Happy Patient!

BEFORE



- Staining on #9
- Poor shade matching
- Uneven incisal edge length



AFTER



- Natural opacity
- Better shade match
- Natural incisal edge length

Outcome

Happy Patient!

Signature homemade cookies from the patient!



References

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