

Indirect Resin Composite Crown Restoration Using TESCERA ATL System: Case Report

Sam Sik Park*, Myoung Uk Jin, Young Kyung Kim, Sung Kyo Kim

Department of Conservative Dentistry, Kyungpook National University, Daegu, Korea

I. Introduction

Indirect composite restoration allows teeth to be restored with original anatomy, function and esthetics. It also provides excellent mechanical results. Moreover, in comparison to all-ceramic restorations, composite does not have any potential for catastrophic brittle fracture, nor does it cause abrasive wear of the opposing dentition. The amount of contraction occurring during polymerization may be decreased, and optimal polymerization of the composite may be achieved with the use of heat. This case report shows indirect resin composite crown restoration using Tescera ATL system (BISCO, Inc, Schaumburg, IL, USA).

II. Case Presentation

<Case 1>

1. Sex/age: 38/F
2. Chief Complaint(C.C.): dull pain on #24
3. Past Dental History(PDH): Previous endodontic treatment about 20 years ago
4. Present Illness(P.I): sinus tract on #24 buccal area
5. Impression: Previous endodontic treatment
6. Tx. Plan: retreatment endodontics & indirect resin crown

<Case 2>

1. Sex/age: 19/M
2. Chief Complaint(C.C.): spontaneous pain on #35
3. Past Dental History(PDH): felt dull pain on #35, several days ago
4. Present Illness(P.I): Per(+), Pal(+) on #35
5. Impression: pulp necrosis
6. Tx. Plan: root canal treatment & indirect resin crown

III. Conclusion

Indirect resin composite restoration allows enhanced physical properties, optimal surface characteristic, and less porosity throughout the restoration. It also offers durable and esthetic outcomes.