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Diastema Closure and Reshaping Peg-shaped Teeth Using Direct Composite Veneer: A Case Report

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Abstract
Anterior diastema and malformed teeth can cause major esthetic problem to the patient. Proper treatment options for esthetic complex case should be analyzed and considered before moving forward to the treatment plan. Direct composite restoration can be an option because its providing excellent esthetic result, time efficiency, and conservative approach. The case here describes the treatment plan performed on 22-year old patient concerned with unpleasant smile caused by the gap between his front teeth and peg-shaped lateral incisor. Digital Smile Design approach was used to analyze the most ideal teeth proportion and smile line. Diastema closure and reshaping malformed teeth was done using direct composite veneer with multi layering technique and guided by palatal matrix. This treatment gives esthetic and enhanced smile as well as patient’s satisfactory. Proper case analysis and good handling of composite can produce an excellent result and long-lasting restoration.

Keywords: Anterior Diastema, Peg-shaped Teeth, Direct Composite Veneer, Digital Smile Design

INTRODUCTION
Maxillary anterior diastema is a common esthetic problem of patient(1). Malformed tooth such as peg-shaped teeth, microdontia, or macrodontia can also cause an esthetic problem. Management of esthetic complex case could be a challenge for many clinicians and usually consider many approach including orthodontics, direct, and indirect restoration(2). Technique and material for patient are also considering time, physical, psychological, and economical limitations. Evaluating those factors, the use of direct resin composite restoration are more beneficial, such as minimally invasive to remaining tooth structure, less time consuming and cost consuming, and especially can provide versatility in formation of desirable esthetic outcome(3).

To obtain constant esthetic outcome, the design of dental restoration should be define as soon as possible. The Digital Smile Design is a multi-use conceptual tool that can strengthen diagnostic vision, improved