

11. Change in the vital signs of the patients due to preliminary dental impression procedures.

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Accurate impressions are crucial to ensure sufficient support, retention, and stability for complete dentures. Despite the increased use of intraoral digital impressions (scans) in the field of prosthetic dentistry, conventional impression techniques are still more reliable to obtain master casts of edentulous arches. Conventional impression procedures have been recommended to be executed in two stages as preliminary and definitive impressions. While irreversible hydrocolloids and stock trays are generally used in the preliminary impressions, poly(vinyl siloxane), polyether, polysulfide rubber, and zinc oxide-eugenol impression paste have been used with individual trays for definitive impressions. However, a noninvasive procedure such as impressions might also be stress inducing as a part of adental treatment. Moreover, during impression procedures, inserting a standard impression tray loaded with a nonnegligible amount of impression material into the mouth might temporarily decrease the volume of the oral cavity, leading to a partial obstruction of the oropharyngeal aperture, and causing disturbance by provoking the gag reflex. It may affect medical conditions of patients with serious systemic disorders such as malignant hypertension, cardiovascular diseases, and chronic obstructive lung disease. Moreover, 25% of all ischemic cardiovascular disorders could develop without any signs. Therefore this paper presentation depicts the effect of preliminary impression procedures on arterial oxygen saturations (aoss) with pulse rates (prs) of edentulous patients.

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