



A Rare Allergy Of Silicone Impression Materials–A Case Report

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ABSTRACT

Treating patient with missing teeth is always a challenge for dentists. This case report shows management of 45 year old female patient with missing upper front teeth. Replacement was planned as metal ceramic restorations to have pleasing smile. Commonly used impression material (silicone) was advised for the patient to make negative replica of missing teeth. Patient developed allergic reactions (Type-I) with itching, burning sensation and perioral edema.

KEY WORDS : Impression, Silicone impression material, Fixed partial denture, Allergy.

Introduction

A female Patient aged 45 years, reported to the department of dentistry, Sri Lakshmi Narayana Institute of medical sciences, koodapakkam, Puducherry for replacing her upper front teeth. Case history, clinical examination, investigations were done. Intra oral examination revealed missing left upper lateral incisor.

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Considering the age of patient treatment plan was decided to replace the missing teeth with metal ceramic restorations involving the adjacent teeth (Abutments–central incisor and canine)

With proper patient consent, procedure was done under local anaesthesia 2% lignocaine (Infiltration). Tooth preparation was carried out in the abutment teeth, subsequently impression was made with silicone impression material (condensation) which is widely used around world.

Immedietately after the procedure Patient developed allergic reactions (type I-Anaphylactic) with ithching, burning sensation around the mouth with edema. Patient was managed in casualty department, SLIMS.

Discussion

Impression materials ranging from alginate, impression compound, silicone are in the main stay of all dental clinics for more than 50 years. Allergic reactions have been reported in the literature time and again. Delayed reactions to impression materials are commonly noted. Immediate reactions (type-I) are very rare.

Conclusion

With the above experience we would like to remind the clinicians the possibility of allergic reaction with silicone impression material. Tooth replacement therapy not only provides functional stability but also has psychosocial impact on the patients. Hence necessary precautions should be taken prior to the procedure.

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preoperative view



After Tooth preparation



Perioral edema



Post operative view