< ORAL PRESENTATION III >

Chairman : Ho-Hyun Son (Professor, Seoul National University)
Referee : Kwang-Won Lee, Jeong-Won Park, In-Bok Lee,
Kyung-Mo Cho, In-Nam Hwang
13:30~14:30 (Grand conference room, 3rd floor)

O13

Iatrogenic Chemical Burn on Facial Skin by 37% Phosphoric Acid Etchant

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I. Introduction

When we use the total-etch dentin adhesive system for composite resin restorations, gel or liquid acid etchant such as 37% phosphoric acid is commonly used. 37% phosphoric acid is very powerful erosive agent, and can cause severe harmful effects when it contacts with an oral mucosa and facial skin.

This case report describes iatrogenic chemical burn on facial skin caused by phosphoric acid which was happened during composite resin restorative procedure.

II. Case Presentation

1. Sex/age: F/28
2. Chief Complaint (C.C): Caries treatment
3. Past Dental History (PDH): N/S
4. Present Illness (PI): Occlusal caries on #46, 47
5. Impression
6. Tx. Plan: Restorative therapy of #46, 47 with composite resin
7. Progress: Accidental burn by etchant was occurred during restoration.
   → Refer to dermatology clinic
   → Follow-up check
   → Healed but shallow depression remained

III. Conclusion

Chemical burn by acid etchant can be evoked by careless handling of remnant and syringe.

In order to prevent these iatrogenic injuries, we should check the complete removal of the etching agent both in intra and extra-oral environments after etching and rinsing procedure and it is necessary to use of the rubber dam or isolation instruments such as Optra-gate.

And if accidental burn were occurred, immediate wash with copious water and bring the patient to the dermatologist as soon as possible.