

TREATMENT

- Saltwater gargle, tebedont gel application
- Discontinue aligners until symptoms subside

3 Stomatitis

Stomatitis caused by aligners is primarily due to:

1. **Poor Oral Hygiene** – Follow proper oral hygiene protocols diligently.
2. **Poor Aligner Hygiene** – Graphy aligners can be sterilized by placing them in water at 100°C for one minute daily.

It is highly recommended to use an ultrasonic cleaner for aligners, as it effectively removes food particles and bacterial colonies, helping to prevent stomatitis.



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Conclusion

Graphy aligners are an effective solution for improving dental function and aesthetics. However, some individuals may experience allergic reactions due to the materials used. GRAPHY Aligners aim to minimize these risks through the use of high-quality materials and advanced technology. If allergic symptoms arise, consult a dentist immediately.

Graphy



Shape Memory
Aligner®
Direct Aligner™



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Stomatitis & Tissue Response to Graphy Aligners

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Introduction

Graphy aligners, along with thermoformed aligners, are categorized under PET-G (Polyethylene Terephthalate Glycol) materials. While they are widely used due to their biocompatibility and effectiveness in orthodontic treatment, a small percentage of individuals—approximately 2%—may experience allergic reactions to PET-G. These reactions are often linked to deviations from proper manufacturing and processing protocols.

Tissue responses to aligners can manifest in several forms. The first is allergic reactions, which may result from immune sensitivity to the aligner material. The second is traumatic ulcers, commonly caused by imperfections in the manufacturing or finishing of the aligners. The third and more frequently observed issue is stomatitis, which is often a result of poor oral hygiene or improper aligner maintenance.

Recognizing and understanding these potential reactions are crucial for both clinicians and patients to ensure the success and safety of aligner therapy. This article outlines the various types of tissue responses, highlights their causes, and provides practical solutions and preventive strategies to minimize risks and optimize patient outcome.

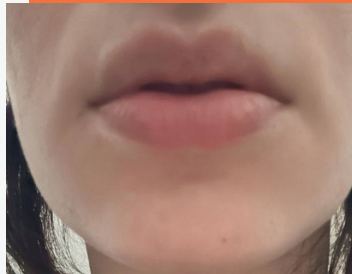
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Allergies to PET-G Material

Allergic reactions to clear aligners can range from mild to severe. Mild symptoms include irritation, itching, and slight swelling inside the mouth, while severe reactions may involve redness, inflammation, and significant discomfort.

RISK FACTORS INCLUDE:

- Previous allergic reactions to plastic materials
- Sensitive skin or a predisposition to allergic responses
- Pre-existing oral infections or sensitivity issues



SIGNS & SYMPTOMS:

Initial Signs – roughness, itching and ulcers on oral mucosa – (consult your dentist)

Late Signs – (if you ignore the initial signs) – extra oral swellings, breathing difficulty (emergency attention needed)

PREVENTIVE MEASURES:

1. **Quality Materials** – GRAPHY Aligners utilize high-quality, non-toxic materials to minimize the risk of allergic reactions. Due to Graphy's homogeneous polymerization and absence of free oligomers (achieved through oxygen-free polymerization), the materials are less likely to cause adverse effects over time.
2. **Hygiene** – Regular cleaning of clear aligners and maintaining proper oral hygiene reduces bacterial and allergen buildup, thereby minimizing allergic risks.
3. **Consultation with your orthodontist** – Consulting a dentist or orthodontist, ensures appropriate medical attention and risk assessment.
4. **Treatment**
 - a. hydrocortisone inj.
 - b. saltwater gargles
 - c. tebedont gel application
 - d. discontinue aligners until you get your dentist consent.

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Traumatic Ulcers

The risk of traumatic ulcers with Graphy aligners is minimal because they are 3D printed and have smooth margins. However, attachment pillars must be polished properly. Report any redness on the gum line to your orthodontist promptly.

