



# **Cosmetic Allergy**

Incidence, Diagnosis, and Management

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# O1 Introduction



## Introduction

Allergic contact dermatitis mainly results from fragrance chemicals and preservatives.

#### Problem #1

The true incidence of adverse reactions to cosmetics is likely to be underestimated.

#### Problem #2

The actual definition of cosmetic is different by country.

Ex: Europe and the US







# O2 Method



### Method

Once the diagnosis of allergic contact dermatitis to a cosmetic is suspected → using patch testing

#### The four different way to test

- Open application test
- semi-open test
- photopatch testing
- Close patched tested

#### **BUT!**

patch testing only using in the product at the appropriate test concentration

→ labeling may be **inaccuracies** or **inaccurate** 







O3
Main Cosmetic
Allergens





# 1. Fragrance

- a **category** (not an individual ingredient)
- Allergic reaction: volatile or photosensitive patterns of contact dermatitis
- account for 30-45% allergic reaction in eczema patient







### 2. Preservative

Preservatives as common allergens:

#### Parabens:

- 99% of leave-on products
- 77% of rinse-off products

#### Formaldehyde:

- o rarely used as a preservative
- may be released by other preservatives
- Thus it won't be in the ingredient label!



- Hair Care Product
- Nail Polish and Artificial Nails
- **Lip Cosmetics**
- **Eye Cosmetics**









# O4 Conclusion



## How It Relate to Our Goal?

# \*

#### Knowledge base for our goal!

#### Our Goal:

help people identify allergens in cosmetic labels



### **Our Comments**

#### Only Contains US and European Studies

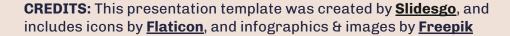
- Law and regulations may different from Taiwan
- People's health condition and the common ingredients in cosmetics may be different too

#### This Research is a Way Too "Old"

- The study conducted on 2002, but now is 2023
- There must be a lot of needs to be updated
- But we didn't find other review paper like this in recent years

# Thanks!

Do you have any questions?



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# Distribution of Work

	PPT	Oral Presentation
Josh	Introduction method	Introduction method
Katherina	Main Allergens Conclusion	Main Allergens Conclusion