



# Cosmetic Allergy

Incidence, Diagnosis, and Management

---

GROUP8: Katherina/Josh



# Table of contents

**01**

Introduction

**02**

Method

**03**

2 Main Cosmetic  
Allergens

**04**

Conclusion





01

# 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





02

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**





03

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

### 3. Other Beauty Product

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





04

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?



**CREDITS:** This presentation template was created by [Slidesgo](#), and includes icons by [Flaticon](#), and infographics & images by [Freepik](#)

Please keep this slide for attribution





# Distribution of Work

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