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And beauty blemished once: Trends of toxic chemicals found in facial and non-Facial products

Abstract:

This study critically examines the composition of facial versus non-facial cosmetic products in California, addressing the growing public health concern for “clean beauty” and ingredient transparency. Given the global market influence of the cosmetic industry and the heightened permeability of facial skin, it’s pivotal to assess if industry practices meet the rising demand for safer products. Data from the California Safe Cosmetics Program (CSCP) spanning 2009-2019, which included 97,132 reports, was analyzed. Products were categorized into facial category (makeup, skin care, sun care) and non-facial category (bath, shaving, fragrances, hair care, coloring, nail, personal care products) groups. Statistical analysis was conducted, and findings indicate a significant difference in the occurrence of toxic chemicals, with facial category reporting higher instances (p-value of .003). Predominant chemicals in facial products were titanium dioxide, retinol (daily dosages exceeding 10,000 IU), and respirable silica, while non-facial products mostly reported titanium dioxide, cocamide, and silica.

Biography

Felicia Hung completed her BA from University of California, Berkeley, and MPH from Yale University. She is currently a first-year medical student at California Health Science University and has published 4 papers with the National Health Institute and Yale School of Medicine.