

BACKGROUND

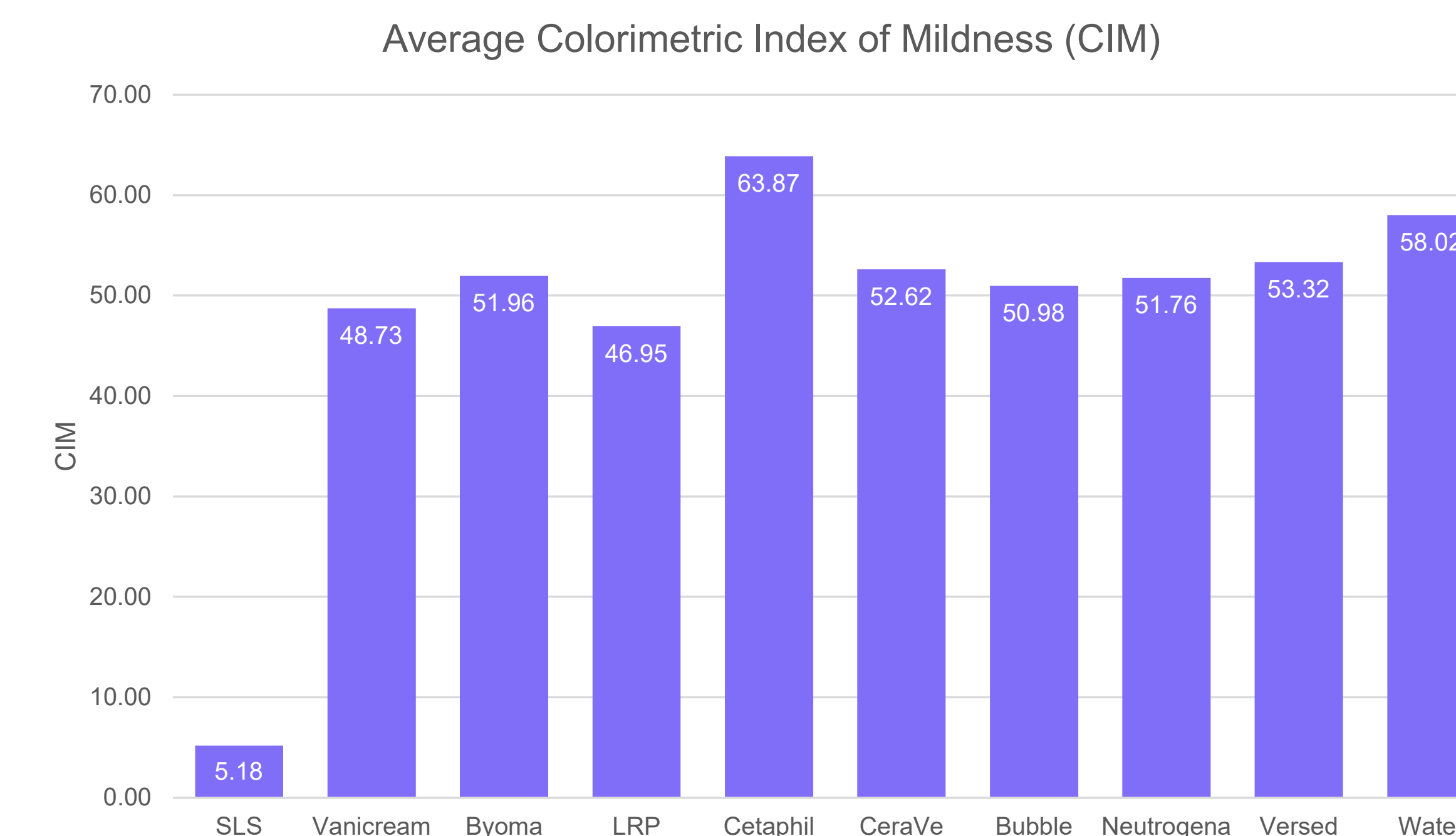
- Skin cleansers can have an irritating effect, especially in individuals with sensitive skin
- Choosing a cleanser that is both gentle and effective is pivotal for a tailored skincare routine
- This project assessed the mildness of surfactants in a cleanser formulated specifically for sensitive skin (Cetaphil® Gentle Skin Cleanser [GSC]) against competitor products, using corneosurfametry (a noninvasive method to predict potential irritancy of surfactants)¹
 - Corneosurfametry utilizes cyanoacrylate skin surface (tape) strippings with surfactants applied with short contact. The strip samples are then stained and assessed via colorimetry, with more intense color indicating a higher likelihood of irritancy

METHODS

- This was an ex-vivo project of 8 test cleansers in adults (n=18)
 - GSC, gentle facial cleanser (GFC), Milky moisture cleanser (MMC), hydrating gentle facial cleanser (HGFC), hydrating facial cleanser (HFC), ultra gentle hydrating creamy facial cleanser (UGHCFC), and hydrating cream cleanser (HCC)
- Ten D-squame tapes were taken from the volar forearm (first tape discarded).
 - Tapes were then submerged in 10% solution of all cleansers, 5% solution of Sodium Lauryl Sulfate (SLS), and water for 10 minutes. Samples were rinsed under cold running water for 30 seconds, submerged in Tol Blue-Basic Fuschin solution for 3 minutes, rinsed for another 30 seconds under cold running water, then airdried for 40 minutes
- Color measurements using a Chromameter were taken on a white paper using a chromameter and reported as Colorimetric Index of Mildness (CIM)

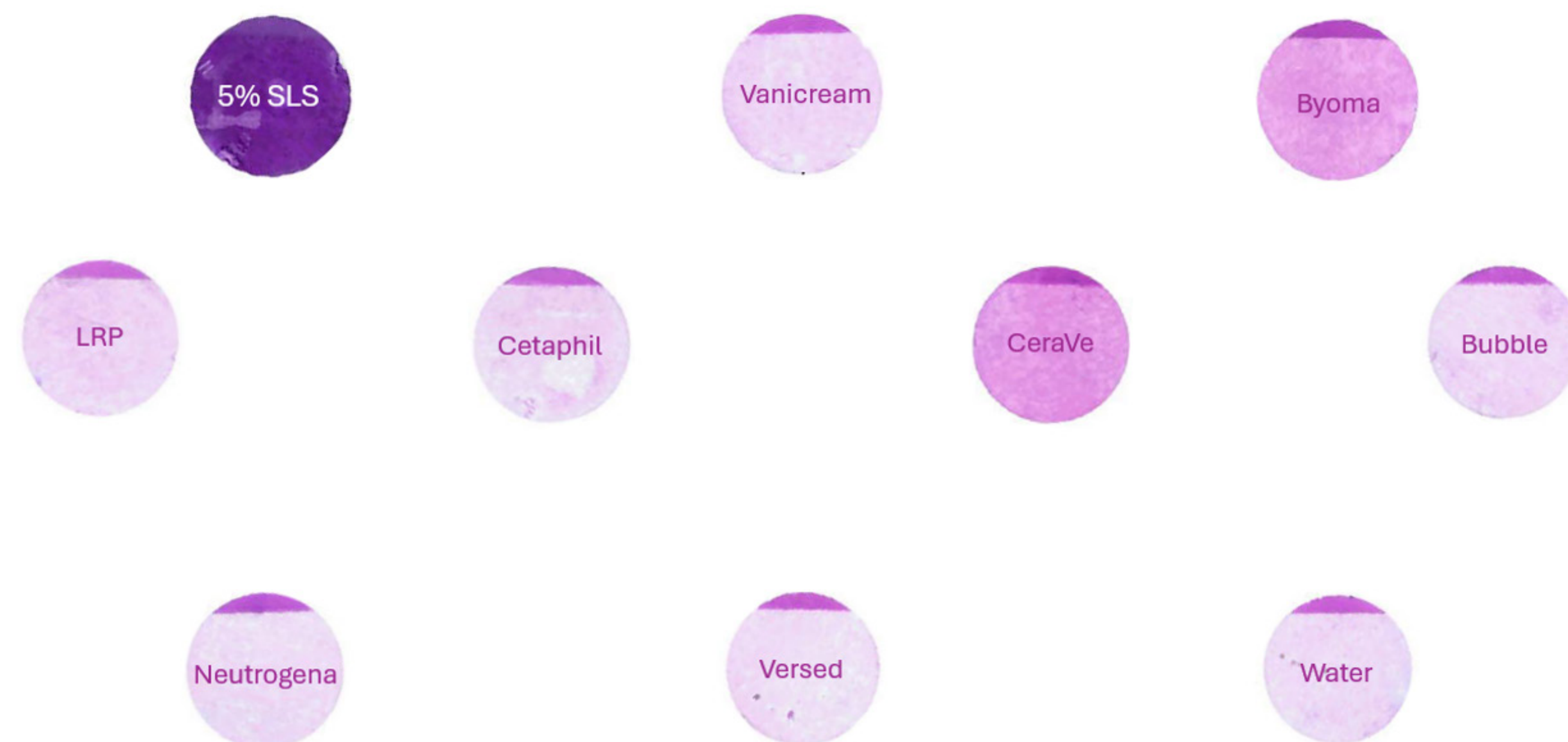
RESULTS

Mean CIM data showed GSC was the mildest cleanser tested



- Colorimetric Index of Mildness measures the harshness of surfactants. The higher the index, the gentler the cleanser
- Mildness:
GSC (test product) > water > HCC > HFC > MMC > UGHCFC > MM > GFC > HGFC > SLS.
- P-value was calculated from pairwise differences in least square means from GSC.
*P ≤ 0.05 vs GSC (n=18)

Individual Stripping: Darker tapes indicate harsher surfactants



- Colorimetric Index of Mildness measures the harshness of surfactants.
 - The lighter the color, the gentler the cleanser.
- SLS = sodium laurel sulfate; VGFC = gentle facial cleanser; MMC = milky moisture cleanser; HGFC = hydrating gentle facial cleanser; GSC (test product) = gentle skin cleanser; HFC = hydrating facial cleanser; MM = magic melt; UGHCFC = ultra gentle hydrating creamy facial cleanser; HCC = hydrating cream cleanser.

SUMMARY

- This project demonstrated that GSC was significantly milder than selected competitor cleansers
- In addition to the CIM, darker tapes indicate harsher surfactants, and photographic chromameter results showed that GSC tape colors were lighter
- GSC is very gentle on the skin in comparison to competitor products
- These data are intended to help patients and providers choose an ideal cleanser suitable for sensitive skin

REFERENCE

1. Piérard GE, Goffin V, Piérard-Franchimont C. Corneosurfametry: a predictive assessment of the interaction of personal-care cleansing products with human stratum corneum. *Dermatology*. 1994;189(2):152-6.

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