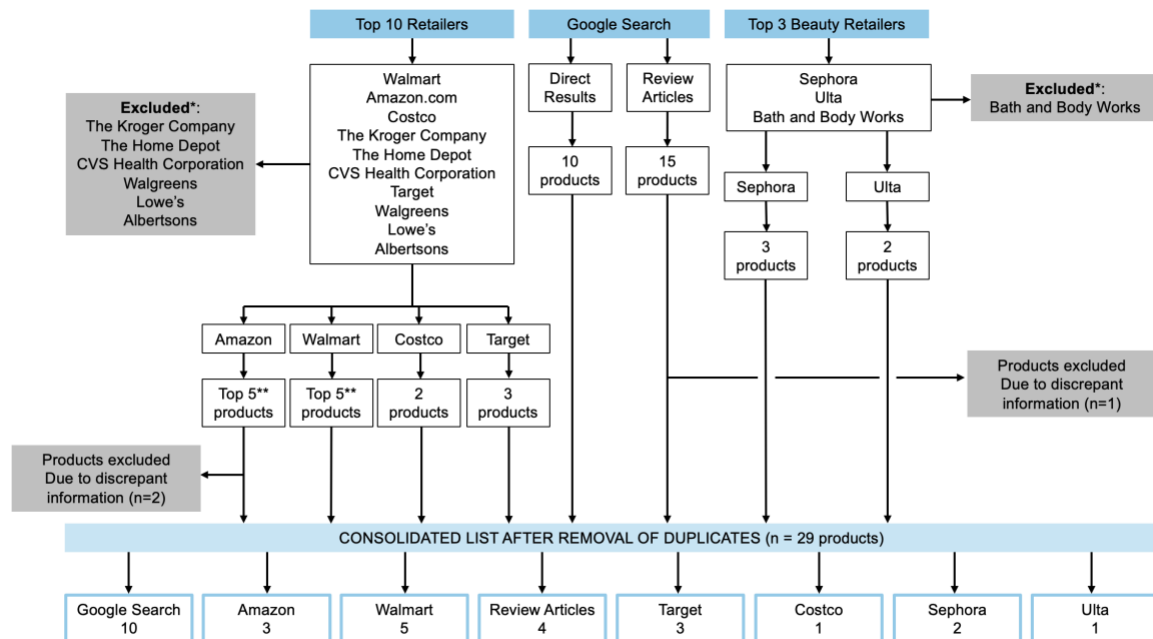


Supplemental Content

Methods:

First, we identified the top 10 U.S. retailers as of October 2024, and for each retailer that sold LED face masks (Walmart, Amazon, Costco, Target), we collected data on their top 5 most popular products (defined as having the greatest number of reviews). In addition, we searched Google search (“LED face mask”) and included all products that appeared on the first page of results. All masks from any review articles on the first page, which included *Vogue* and *Allure*, were also included. Finally, we searched through the top 5 beauty retail companies. Of these, Sephora and Ulta offered qualifying products, and we selected their top five available results. In cases where fewer than five products were listed, all available products were included. All searches were performed in incognito mode. Any product that had conflicting information available online (ie discrepancies in specifications listed) was excluded.

Supplemental Figure 1. Method for selecting devices



*Retailer did not offer LED devices

** Based on number sold

Supplemental Table 1. Summary of specifications of current LED masks on the market

SOURCE	COMPANY AND PRODUCT NAME	\$	LIGHT COLOR	# RED DIODES	RED WAVELENGTH NM	RED FLUENCE J/CM^2	# BLUE DIODES	BLUE WAVELENGTH NM	BLUE FLUENCE J/CM^2	PROGRAMMED TREATMENT TIME / SESSION	RECOMMENDED TREATMENT FREQUENCY AND DURATION
AMAZON	EVFOFO - 7 color LED face mask	69.99	blue & red	192 total	630	NA	192 total	460	NA	15 min	NA
AMAZON	Aphrona - FDA Cleared Led facial skin care	179.99	blue & red	NA	630	NA	NA	415	NA	15-25 min	2-3 times / week
AMAZON	Lifepro LED mask	97.53	blue & red	114 total	630	NA	114 total	415	NA	15-20min	3-4 times / week
WALMART	Pure Daily Care - Luma Mask PRO	159.95	blue & red	219 total	630	18-27	219 total	415	12-18	10-15 mins	2-3/week
WALMART	Aristorm Led Face Mask	39.99	blue & red	90 total	620-630	6-9	90 total	440-465	6-9	10-15 mins	2-3/week
WALMART	SUWU Blue Red Light Therapy Mask for Face	39.99	blue & red	150 total	630	NA	150 total	415	NA	10-15 mins	NA
WALMART	Shopin Led Face Mask	44.99	blue & red	192 total	630	NA	192 total	415 or 470	NA	10-20 min	2-3 times / week
WALMART	RUTAWZ LED Face Mask	39.99	blue & red	270 total	630	NA	270 total	465	NA	15 min	3-4 times / week
TARGET	Pure daily care-LUMA led	89.99	blue & red	NA	650	NA	NA	463	NA	10-15 min	2-3x times / week
TARGET	Project E Beauty - Light Aura Plus	199.99	blue & red	139 total	630	NA	139 total	460	NA	10 min	4x times / week
COSTCO	Numiere Time Keeper LED face mask	199.99	blue & red	600	620-730	33.4	600	430-450	33.4	10 min	3-5 times / week
GOOGLE	Nourished Body and Skin - LED Light Therapy Face & Neck Mask	127.49	blue & red	108 total	630	31.5-42	108 total	415	31.5-42	15-20min	NA
GOOGLE	CurrentBody - LED Light Therapy Face Mask: Series 1	380	red	132	633	18				10 min	4 times / week
GOOGLE	CurnetBody - LED Light	469	red	110	633	18				10 min	3-5 times / week

	Therapy Face Mask: Series 2										
GOOGLE	OmniLux - Face contour	395	red	132	633	18				10 min	3-5 times / week
GOOGLE	Megelin LED light mask	199	blue & red	288 total	630	21	288 total	460	21	10 min	3-5 times / week
GOOGLE	Dr.DennisGross - DRx SpectraLite™ FaceWare Pro	455	blue & red	100	630-660	11.7	60	400-470	9	3 min	2-3 times / week
GOOGLE	Qure Skin Care - Blue light therapy mask	379	blue & red	160 total	630	4.68	160 total	415	10.8	3 min	twice a day
GOOGLE	Qure Skin Care - Onyx	379	blue & red	160 total	630	4.68	160 total	415	10.8	3 min	daily
GOOGLE	Sam's Club - Skin Gym LED	54.96	blue & red	NA	620-760	NA	NA	476-495	NA	10-15 mins	
GOOGLE	Silk'n - LED face mask 100	259	blue & red	100 total	620	86.4	100 total	460	108	15 min	3-4 times / week
SEPHORA	Higherdose - Red light face mask	349	red	132	630	30 - 60				10 or 20 min	NA
SEPHORA	Shani Darden - Déesse PRO LED Light Mask	1900	blue & red	238 total	633	26.4	238 total	415	26.4	10 min	4 times / week
ULTA	Beauty Ora LED light mask	75	blue & red	NA	650-730	NA	NA	430-450	NA	15-20 min	3-5 times / week
ALLURE	The Light Salon Boost LED Mask	495	red	56	633	18				10 min	3-5 times / week
ALLURE	Solawave - Wrinkle retreat	349	red	66 total	630	18				10 min	3-5 times / week
ALLURE	Angela Caglia - Crystal LED Face Mask	495	red	180 total	630	NA				10 min	3-5 times / week
VOGUE	Therabody - The Theraface mask	599	blue & red	648 total	NA	NA	648 total	NA	NA	9 min	NA

Supplemental Table 2. Pearson correlations between price and power of devices

	Red - Fluence	Red - Irradiance	Blue - Fluence	Blue - Irradiance
Cost	-0.0684	0.0892	-0.0573	0.0575
P-value	0.8011	0.7426	0.8750	0.8746