



AC Dermal Respiratory Factor Advanced PF Reduction of Sunburn Pain and Erythema

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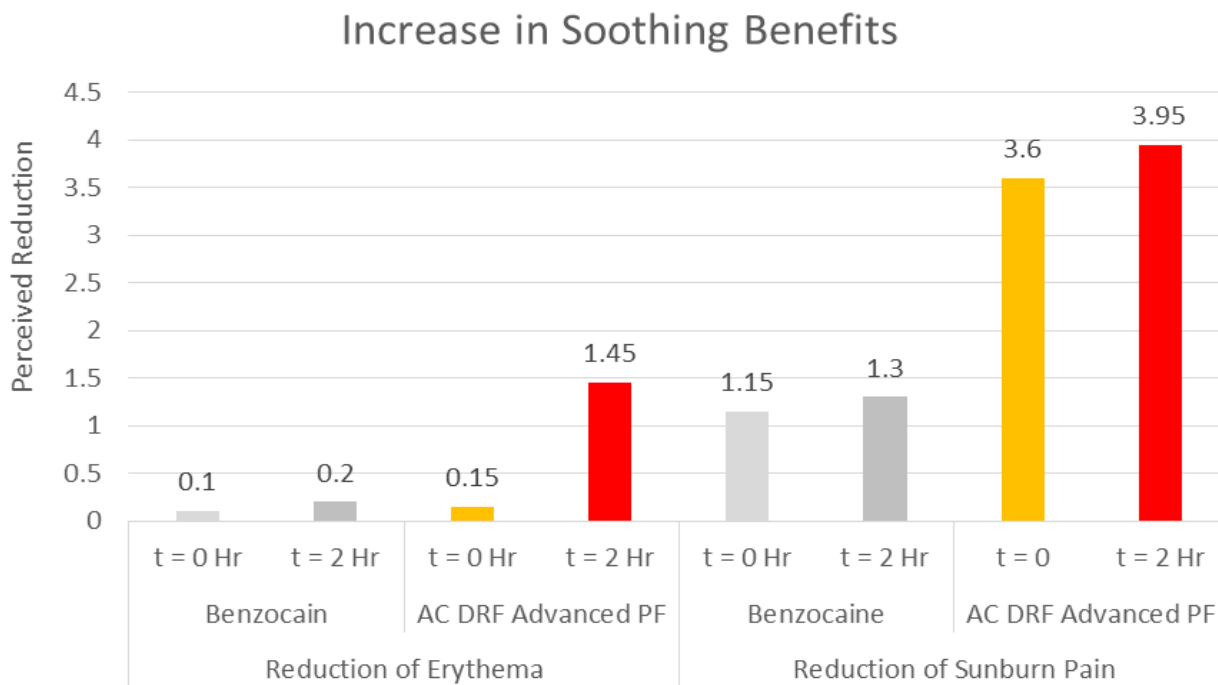
Abstract:

A protocol was developed to evaluate the ability of AC Dermal Respiratory Factor Advanced PF to reduce the discomfort produced by over-exposure to UV radiation.

Materials and Methods:

Twenty panelists (m/f 27-45) were asked to evaluate two lotions containing either AC Dermal Respiratory Factor Advanced PF (2.8% w/w) or Benzocaine (0.5% w/w). The panelists were asked to apply the products immediately following overexposure to the sun and to record their initial perception as well as their perception after two hours. The product was evaluated for reduction in erythema and reduction in sunburn pain. The results were graded on a scale of 1 to 5 with 5 being complete reduction. Application continued for 1 week, with the product being applied twice per day and initial perception recordings being taken and perceptions after two hours. The average perceived reduction was determined at the end of the study to report the soothing benefits of AC Dermal Respiratory Factor Advanced PF.

Results:



Graph 1. Comparison in the reduction of erythema and sunburn pain between Benzocaine and AC Dermal Respiratory Factor Advanced PF

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Table of Results:

	Reduction of Erythema				Reduction of Sunburn Pain			
	Benzocaine		AC DRF Advanced PF		Benzocaine		AC DRF Advanced PF	
Panelist	t = 0 Hr	t = 2 Hr	t = 0 Hr	t = 2 Hr	t = 0 Hr	t = 2 Hr	t = 0	t = 2 Hr
1	0	0	0	2	1	1	3	4
2	0	1	0	1	1	1	4	5
3	0	0	0	0	2	2	3	4
4	0	0	0	3	0	1	2	3
5	1	1	0	2	1	1	4	4
6	0	0	1	1	1	1	5	5
7	0	0	0	2	2	2	3	3
8	0	0	1	1	0	1	3	3
9	0	0	0	2	2	2	4	4
10	0	0	0	1	1	1	3	3
11	0	0	0	3	1	1	2	3
12	1	0	0	0	2	2	5	5
13	0	0	0	1	1	2	4	6
14	0	0	0	2	2	2	4	4
15	0	1	1	1	1	1	5	5
16	0	0	0	1	1	1	4	4
17	0	0	0	1	1	1	4	4
18	0	1	0	2	0	1	3	3
19	0	0	0	3	1	1	2	2
20	0	0	0	0	2	1	5	5
Mean	0.1	0.2	0.15	1.45	1.15	1.3	3.6	3.95

Table 1. Results for panelist comparison in the reduction of erythema and sunburn pain between Benzocaine and AC Dermal Respiratory Factor Advanced.

Discussion:

Topical application of AC Dermal Respiratory Factor Advanced PF is capable of producing consumer perceivable reductions in erythema and discomfort resulting from overexposure to light. It was also noted among those panelists complying with the one-week application period that there was a marked reduction in skin peeling to areas where lotion containing AC Dermal Respiratory Factor Advanced PF was applied.

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