
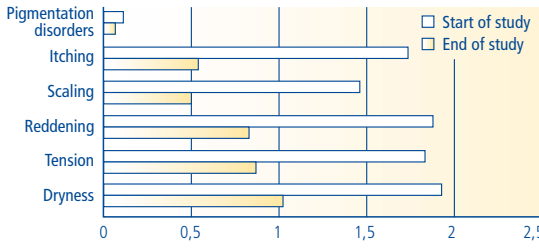


## Studies

<b>Study title</b>	<b>Clinical in-use study of 7 Eucerin sunscreen products with intensive UV exposure during a high-altitude climate therapy in various, common skin diseases.</b>																														
<b>Authors</b>	C. Treder-Conrad, D. Schöne, S. Balsler, S. Borelli, F. Ripcke																														
<b>Source</b>	JEADV 2003, Vol. 17, Suppl. 3: 5-10																														
<b>Study Centre</b>	German Department of Dermatology and Allergy – Alexanderhausklinik – Davos Switzerland																														
<b>Study objective</b>	Documentation of the sunscreen efficacy and skin compatibility in adults and children with various skin diseases																														
<b>Test products</b>	<b>Eucerin® Protection Lotion 15      Eucerin® Children's Lotion 15</b> <b>Eucerin® Protection Gel 25        Eucerin® Children's Lotion 35</b> <b>Eucerin® Protection Cream 35     Eucerin® Children's Spray 30</b> <b>Eucerin® Protection Stick 25</b>																														
<b>Method</b>	Open, controlled in-use study																														
<b>Participants</b>	210 patients (120 adults, 90 children), 30 patients per test product																														
<b>Diagnosis</b>	Atopic dermatitis (face 60.5%/body 83.8%), psoriasis (2.4%/7.1%), contact dermatitis (1%/1%), known allergies in 63% of the patients																														
<b>Application</b>	2-3 weeks, 30 minutes before sun exposure																														
<b>Test areas</b>	Sun-exposed skin areas (face and body)																														
<b>Results</b>	<ul style="list-style-type: none"> <li>■ The very good skin compatibility of <b>Eucerin®</b> sun protection products was demonstrated by a very low number of adverse reactions (6 of 210) despite a high skin sensitivity and allergy disposition of the patients.</li> <li>■ The skin condition at the end of the study had clearly improved or even normalised in over 83% of the adults and nearly 98% of the children.</li> <li>■ Mild sunburn (1st degree) was documented in only 5.8% (face) and 3.2% (body) of the cases.</li> <li>■ Over 87% of the children or their parents and 79% of the adults would gladly continue to use the test products</li> </ul>																														
	<p><b>Evaluation of the skin condition at the start and end of the study</b></p>  <table border="1"> <caption>Approximate data from the skin condition chart</caption> <thead> <tr> <th>Symptom</th> <th>Start of study</th> <th>End of study</th> </tr> </thead> <tbody> <tr> <td>Pigmentation disorders</td> <td>0.1</td> <td>0.1</td> </tr> <tr> <td>Itching</td> <td>1.8</td> <td>0.5</td> </tr> <tr> <td>Scaling</td> <td>1.5</td> <td>0.5</td> </tr> <tr> <td>Reddening</td> <td>1.9</td> <td>0.8</td> </tr> <tr> <td>Tension</td> <td>1.8</td> <td>0.8</td> </tr> <tr> <td>Dryness</td> <td>1.9</td> <td>1.0</td> </tr> </tbody> </table>	Symptom	Start of study	End of study	Pigmentation disorders	0.1	0.1	Itching	1.8	0.5	Scaling	1.5	0.5	Reddening	1.9	0.8	Tension	1.8	0.8	Dryness	1.9	1.0	<p><b>Rating scale</b></p> <table border="1"> <tr> <td>0</td> <td>No symptoms</td> </tr> <tr> <td>1</td> <td>mild symptoms</td> </tr> <tr> <td>2</td> <td>moderate symptoms</td> </tr> <tr> <td>3</td> <td>severe symptoms</td> </tr> </table>	0	No symptoms	1	mild symptoms	2	moderate symptoms	3	severe symptoms
Symptom	Start of study	End of study																													
Pigmentation disorders	0.1	0.1																													
Itching	1.8	0.5																													
Scaling	1.5	0.5																													
Reddening	1.9	0.8																													
Tension	1.8	0.8																													
Dryness	1.9	1.0																													
0	No symptoms																														
1	mild symptoms																														
2	moderate symptoms																														
3	severe symptoms																														
<b>Conclusion</b>	The <b>Eucerin®</b> sunscreen products are distinguished by very good skin compatibility, even in diseased skin. They offer reliable protection from sunburn and don't interfere with therapeutic treatments. The appearance of the skin had clearly improved or normalised when the products were used during a high-altitude climate therapy.																														