Patient needs, predictors of quality of life and association with clinical outcomes in atopic eczema: Data from 1,678 patients in routine care.

Prof. Dr. Matthias Augustin
Health care for atopic dermatitis in Germany

Quality of life – DLQI (n=1.678)

Mean: Atopic dermatitis 8,5 > Psoriasis 7,5

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Generic QoL in EQ-5D (n=1,678)


** SCORAD >50 or DLQI >10

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# Health care atopic dermatitis in Germany

## Predictors of health-related quality of life

Multiple regression analysis predicting quality of life
(MLQI, n = 318)

<table>
<thead>
<tr>
<th>Variable</th>
<th>$R$</th>
<th>$R^2$</th>
<th>$\beta$</th>
<th>$p$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>0.632</td>
<td>0.400</td>
<td>-0.024</td>
<td>0.610</td>
</tr>
<tr>
<td>Gender</td>
<td>0.060</td>
<td>0.036</td>
<td>0.26</td>
<td>0.000</td>
</tr>
<tr>
<td>Skin dryness</td>
<td>0.148</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sleep disturbances</td>
<td>0.123</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pruritus</td>
<td>0.226</td>
<td>0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Facial involvement</td>
<td>0.128</td>
<td>0.010</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Genital involvement</td>
<td>0.178</td>
<td>0.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Affected body surface</td>
<td>0.209</td>
<td>0.043</td>
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</tr>
</tbody>
</table>

Determinants of QoL reductions:

1. Pruritus
2. Facial involvement
3. Xerosis
4. Body surface area
5. Genital affection
6. Sleep disturbance

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Age = years; Gender: male = 1, female = 2; Skin dryness/sleep disturbances/pruritus: scale from 0 = never to 4 = always; facial and genital involvement: scale from 0 = not affected to 4 = extremely affected; affected body surface = number of marked points in grid-lined body scheme

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Quality of health care for psoriasis

Patient random samples in dermatology clinics and offices (n=150-200)

Quality of health care for atopic eczema

Patient random samples in dermatology clinics and offices (n=150-200)
Health care for atopic dermatitis in Germany

How much do patients benefit from treatment?

Tx benefits (PBI)
distribution in %
2017/18 vs. 2011/12

AtopicHealth 2011-2017
No relevant improvement in patient benefits

<table>
<thead>
<tr>
<th>Year</th>
<th>3 bis 4</th>
<th>2 bis &lt;3</th>
<th>1 bis &lt;2</th>
<th>0 bis &lt;1</th>
<th>Mean</th>
<th>Median</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011/12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>31,9</td>
<td>34,1</td>
</tr>
<tr>
<td>2017/18</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>28,0</td>
<td>34,7</td>
</tr>
</tbody>
</table>

Mean: 2,4 ± 1,1  2,5
Median: 2,2 ± 1,0  2,3
Summary
Atopic dermatitis in Germany today ...

• **Highly burdensome** for the patients

• **QoL markedly lower** than in most other chronic conditions

• „**High need**” due to QoL impairment

• **QoL predictors** well identified

• Broad spectrum of „**patient needs**”

• **Low level of patient benefits** from treatment

• **No improvement of QoL and patient benefits** in Germany in past 5 years

• Goal: **Optimize health care, transfer drug innovations**