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**Table SI Information from the past year used to calculate the direct and indirect costs**

	Unit costs (€)	Total cohort (n=101)	Mild AD (n=38)	Moderate AD (n=37)	Severe AD (n=26)
		Volumes (mean (SD))			
<b>Health care utilization</b>					
Dermatologist consultations	176.80	2.0±1.9	1.6±1.6	1.5±1.3	3.4±2.4
Dermatology nurse (specialist) consultations	156.73	2.4±1.7	2.1±1.5	2.2±1.3	3.0±2.4
Dermatologist telephone consultations	56.10	1.0±1.0	1.0±1.0	0.0±1.0	1.0±2.0
Dermatology nurse (specialist) telephone consultations	18.34	0.7±1.0	0.6±0.8	0.7±0.9	1.1±1.4
Social worker consultations	70.72	0.0±0.0	0.0±0.0	0.0±0.0	0.0±0.0
Other medical specialists consultations	176.80	0.0±1.0	1.1±1.1	0.0±1.0	1.1±1.1
GP consultations (for AD treatment)	35.36	2.0±2.0	2.0±2.0	2.0±2.0	1.0±0.0
<b>Transportation costs</b>					
Distance between UMCU and residence in km, unit costs/km	0.21	57.5±39.4	52.3±34.8	64.4±43.1	55.4±40.3
Visits with transportation costs and parking costs, unit costs/parking	3.24	5.0±3.0	4.0±3.0	4.0±2.0	7.0±3.0
<b>Indirect costs</b>					
Absenteeism of caregivers' work due to child with AD in the past year, hours, unit costs value of productivity loss/hour	27.70	21.0±63.0	12.0±34.0	28.0±92.0	24.0±38.0
Missing, n (%)	1 (1.0)	0 (0.0)	0 (0.0)	0 (0.0)	1 (3.8)

SD = Standard Deviation. AD = Atopic Dermatitis. GP = General Practitioner.

**Table SII. Mann-Whitney U tests between severity groups, patient-reported outcomes**

	<b>Comparison mild to moderate AD P-value*</b>	<b>Comparison mild to moderate AD Adjusted P-value*</b>	<b>Comparison mild to severe AD P-value*</b>	<b>Comparison mild to severe AD Adjusted P-value*</b>	<b>Comparison moderate to severe AD P-value*</b>	<b>Comparison moderate to severe AD Adjusted P-value*</b>
<b>POEM, median (IQR)<sup>a</sup></b>	<0.001	<0.001	0.006	0.024	0.139	0.445
<b>VAS itch, median (IQR)<sup>b</sup></b>	<0.001	<0.001	0.250	0.364	0.090	0.360
<b>VAS pain, median (IQR)<sup>b</sup></b>	0.028	0.066	0.005	0.024	0.735	0.878
<b>CDLQI, median (IQR)<sup>b</sup></b>	<0.001	<0.001	0.013	0.042	0.877	0.878
<b>DLQI, median (IQR)<sup>c</sup></b>	0.092	0.147	0.092	0.184	0.469	0.852
<b>DFI, median (IQR)<sup>d</sup></b>	0.029	0.066	0.247	0.364	0.796	0.878
<b>EQ-5D-Y ‘problems’, n (%)<sup>a</sup></b>						
<b>Mobility</b>	0.504	0.583	0.893	0.893	0.636	0.878
<b>Self-care</b>	0.897	0.957	0.625	0.667	0.549	0.878
<b>Daily activity</b>	0.510	0.583	0.189	0.336	0.479	0.852
<b>Pain/discomfort</b>	0.050	0.100	0.436	0.537	0.317	0.725
<b>Anxiety/depression</b>	0.064	0.114	0.065	0.149	0.878	0.878
<b>VAS EQ-5D-Y, median (IQR)<sup>a</sup></b>	0.013	0.042	<0.001	<0.001	0.060	0.360
<b>T-score PROMIS anxiety, median (IQR)<sup>e</sup></b>	0.107	0.156	0.274	0.365	0.822	0.878
<b>Impairment in caregivers’ work, median (IQR)<sup>d</sup></b>	0.986	0.986	0.065	0.149	0.081	0.360
<b>Impairment in caregivers’ daily activities, median (IQR)<sup>d</sup></b>	0.347	0.463	0.499	0.570	0.195	0.520
<b>School absenteeism, days per year, median (IQR)<sup>d</sup></b>	0.007	0.028	<0.001	<0.001	0.007	0.112

\*P-value <0.05 was considered significant.