

**Towards a Central-Eastern European EQ-5D-3L Population Norm: Comparing Data from Hungarian, Polish and Slovenian Population Studies**

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**Supplementary Table S3 Effect of education, gender and age on health problems, EQ-5D-3L index scores and EQ VAS scores**

		Any problems					EQ-5D-3L index scores by different value-sets				EQ VAS		
		Mobility	Self-Care	Usual Activities	Pain / Discomfort	Anxiety / Depression	Polish TTO	UK TTO	Slovenian VAS	European VAS			
Education <sup>f</sup>	Hungary	Middle <sup>a</sup>	-0.221*	-0.133*	-0.180*	-0.280*	-0.195*	0.084*	0.148*	0.158*	0.137*	12.374*	
		High <sup>a</sup>	-0.273*	-0.143*	-0.223*	-0.407*	-0.292*	0.112*	0.198*	0.212*	0.184*	17.751*	
	Poland	Low <sup>b</sup>	0.142	0.153	0.288	-0.018	0.162	-0.014	-0.002	-0.079	-0.028	0.326	
		Middle <sup>b</sup>	0.293	0.197	0.359*	0.206	0.257	-0.055	-0.089	-0.175	-0.110	-6.620	
	Slovenia	High <sup>b</sup>	0.300	0.182	0.341*	0.263	0.304*	-0.062	-0.105	-0.190	-0.126	-8.541	
		Low <sup>b</sup>	0.225	0.221	0.337	-0.069	0.004	0.041 <sup>e</sup>	0.062	-0.062	0.008	0.000	
		Middle <sup>b</sup>	0.167	0.156	0.288	0.065	0.065 <sup>e</sup>	0.069 <sup>e</sup>	-0.073 <sup>e</sup>	0.003 <sup>e</sup>	3.417 <sup>e</sup>		
		High <sup>b</sup>	0.122	0.108	0.157	0.058 <sup>e</sup>	0.076 <sup>e</sup>	0.078 <sup>e</sup>	-0.051 <sup>e</sup>	0.013 <sup>e</sup>	2.443 <sup>e</sup>		
Gender <sup>g</sup>	Hungary	Female <sup>c</sup>	0.033*	-0.003	0.033*	0.082*	0.110*	-0.021*	-0.037*	-0.043*	-0.038*	-0.328	
	Poland	Male <sup>b</sup>	0.011	-0.007	0.011	0.022	0.061*	-0.008	-0.015	-0.017	-0.016	0.787	
	Slovenia	Female <sup>b</sup>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
		Male <sup>b</sup>	0.066	-0.009	0.040	0.044	0.079	-0.025*	-0.037*	-0.043*	-0.035*	-1.731	
		Female <sup>b</sup>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Age group <sup>h</sup>	Hungary	25-34 y <sup>d</sup>	0.027	0.003	0.004	-0.032	0.065*	-0.001	-0.002	-0.010	-0.006	0.086	
		35-44 y <sup>d</sup>	0.098*	0.005	0.033	0.026	0.074*	-0.021*	-0.031*	-0.046*	-0.032*	-2.496*	
		45-54 y <sup>d</sup>	0.241*	0.028*	0.097*	0.160*	0.099*	-0.056*	-0.087*	-0.114*	-0.082*	-9.374*	
		55-64 y <sup>d</sup>	0.290*	0.028*	0.166*	0.219*	0.100*	-0.073*	-0.107*	-0.143*	-0.101*	-8.526*	
		65-74 y <sup>d</sup>	0.318*	0.026	0.048	0.271*	0.022	-0.057*	-0.096*	-0.139*	-0.094*	-10.789*	
		75+ y <sup>d</sup>	0.311	0.163	0.152	0.271	-0.012	-0.125	-0.173	-0.155	-0.136	-19.918*	
	Poland	18-24 y <sup>b</sup>	-0.327	-0.191	-0.368*	-0.401*	-0.409*	0.090	0.157	0.248*	0.180	9.556	
		25-34 y <sup>b</sup>	-0.322	-0.185	-0.354*	-0.286	-0.440*	0.077	0.135	0.229*	0.161	5.893	
		35-44 y <sup>b</sup>	-0.388*	-0.183	-0.361*	-0.255	-0.398*	0.083	0.137	0.231*	0.156	5.809	
		45-54 y <sup>b</sup>	-0.437*	-0.180	-0.357*	-0.236	-0.305*	0.080	0.132	0.227	0.150	6.588	
		55-64 y <sup>b</sup>	-0.327	-0.107	-0.335*	-0.166	-0.250	0.059	0.093	0.174	0.108	-0.269	
		65-74 y <sup>b</sup>	-0.234	-0.091	-0.160	-0.114	-0.141	0.006	0.029	0.108	0.056	-1.584	
	Slovenia	75+ y <sup>b</sup>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
		18-24 y <sup>b</sup>	-0.231	-0.144	-0.212	-0.170 <sup>e</sup>	-0.160 <sup>e</sup>	-0.048 <sup>e</sup>	-0.035	0.108	0.027	0.334 <sup>e</sup>	
		25-34 y <sup>b</sup>	-0.190	-0.124	-0.129 <sup>e</sup>	-0.056 <sup>e</sup>	-0.117 <sup>e</sup>	-0.070 <sup>e</sup>	-0.068 <sup>e</sup>	0.068 <sup>e</sup>	-0.004 <sup>e</sup>	-3.210 <sup>e</sup>	
		35-44 y <sup>b</sup>	-0.172 <sup>e</sup>	-0.074	-0.138 <sup>e</sup>	-0.062 <sup>e</sup>	-0.181 <sup>e</sup>	-0.062 <sup>e</sup>	-0.055 <sup>e</sup>	0.073 <sup>e</sup>	0.007 <sup>e</sup>	-1.400	
		45-54 y <sup>b</sup>	-0.110 <sup>e</sup>	-0.037	-0.045 <sup>e</sup>	-0.018 <sup>e</sup>	-0.128	-0.082 <sup>e</sup>	-0.082 <sup>e</sup>	0.040 <sup>e</sup>	-0.015 <sup>e</sup>	-0.466	
		55-64 y <sup>b</sup>	-0.115 <sup>e</sup>	0.042	-0.114 <sup>e</sup>	0.012	-0.046	-0.102 <sup>e</sup>	-0.082 <sup>e</sup>	0.024 <sup>e</sup>	-0.035 <sup>e</sup>	-6.965	
			65-74 y <sup>b</sup>	0.008 <sup>e</sup>	0.085	0.197 <sup>e</sup>	0.035	0.036	-0.065 <sup>e</sup>	-0.124 <sup>e</sup>	-0.044 <sup>e</sup>	-0.074 <sup>e</sup>	-5.089
			75+ y <sup>b</sup>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
		Const		0.273*	0.144*	0.218*	0.580*	0.420*	0.862*	0.750*	0.722*	0.753*	70.438*
		R <sup>2</sup>		0.209	0.157	0.180	0.171	0.072	0.169	0.190	0.243	0.211	0.249
		F <sub>29,6896</sub>		59.819	19.462	40.488	62.943	19.590	40.537	49.125	75.394	59.825	76.035
		p=		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

\*p<0.05 using robust standard errors, <sup>a</sup>base level: Hungary low education, <sup>b</sup>base level: Hungary <sup>c</sup>base level: Hungary male gender, <sup>d</sup>base level: Hungary 18-24 y age group, <sup>e</sup>p<0.05, base level: Poland

<sup>f</sup>Wald tests for education main effect: mobility (p<0.000), self-care(p=0.0083), usual activities (p<0.000), pain/discomfort (p<0.000), anxiety/depression (p<0.000), Polish TTO (p<0.000), UK TTO (p<0.000), European VAS (p<0.000), Slovenian VAS (p<0.000), EQ VAS (p<0.000). Education-country interaction: mobility (p=0.0013), self-care(p=0.093), usual activities (p=0.0007), pain/discomfort (p<0.0011), anxiety/depression (p<0.0654), Polish TTO (p=0.0001), UK TTO (p=0.0001), European VAS (p=0.0006), Slovenian VAS (p=0.0004), EQ VAS (p=0.0004).

<sup>g</sup>Wald tests for gender main effect: mobility (p<0.0375), self-care(p=0.613), usual activities (p<0.0071), pain/discomfort (p<0.000), anxiety/depression (p<0.000), Polish TTO (p=0.0001), UK TTO (p<0.000), European VAS (p<0.000), Slovenian VAS (p<0.000), EQ VAS (p=0.627). Gender-country interaction: mobility (p=0.15), self-care(p=0.75), usual activities (p<0.48), pain/discomfort (p<0.49), anxiety/depression (p<0.0243), Polish TTO (p=0.089), UK TTO (p=0.0779), European VAS (p=0.0572), Slovenian VAS (p=0.0556), EQ VAS (p=0.16).

<sup>h</sup>Wald test for age main effect: mobility (p<0.000), self-care(p=0.0105), usual activities (p<0.000), pain/discomfort (p<0.000), anxiety/depression (p=0.0583), Polish TTO (p<0.000), UK TTO (p<0.000), European VAS (p<0.000), Slovenian VAS (p<0.000), EQ VAS (p<0.000). Age-country interaction: mobility (p<0.000), self-care(p=0.000), usual activities (p<0.000), pain/discomfort (p<0.000), anxiety/depression (p<0.000), Polish TTO (p<0.000), UK TTO (p<0.000), European VAS (p<0.000), Slovenian VAS (p<0.000), EQ VAS (p<0.000).