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**Health service use among migrants in the German National Cohort (NAKO) – The role of birth region and language skills**

**Figure S1.** Boxplot for the different latent profiles based on the mean number of visits to general practitioners, medical specialists and psychologists/psychiatrists in a period of 12 months



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| Table S1. Unadjusted count regression model results for outpatient health service use in a period of 12 months with migration background as the exposure variable (German National Cohort (NAKO), Germany, 2014-2019). |  |
|  | General practitioner (n=148,389) | Medical specialists(n=148,378) | Psychologists/psychiatrists (Zero-inflation part of the model) (n=147,997) | Psychologists/ psychiatrists (Count part of the model) (n=147,997) |
| Unadjusted RR1 | 95% CI | Unadjusted RR1 | 95% CI | Unadjusted OR1 | 95% CI | Unadjusted RR1 | 95% CI |
| Second-generation migrants  | 0.99 | 0.97-1.01 | 0.99 | 0.97-1.02 | 1.13 | 1.04-1.23 | 1.14 | 1.02-1.29 |
| Western migrants  | 0.97 | 0.93-1.00 | 1.02 | 0.98-1.06 | 1.18 | 1.03-1.35 | 1.26 | 1.05-1.50 |
| Eastern European migrants  | 1.04 | 1.01-1.07 | 1.10 | 1.06-1.14 | 1.17 | 1.03-1.32 | 0.75 | 0.64-0.89 |
| Resettlers  | 1.01 | 0.97-1.06 | 0.97 | 0.92-1.03 | 0.93 | 0.77-1.14 | 0.76 | 0.58-0.99 |
| Turkish migrants  | 1.07 | 1.02-1.12 | 1.09 | 1.03-1.15 | 1.62 | 1.34-1.96 | 0.70 | 0.56-0.88 |
| Other migrants  | 0.92 | 0.88-0.96 | 1.02 | 0.98-1.07 | 1.13 | 0.95-1.35 | 0.73 | 0.58-0.92 |
| 1: Reference category: Non-migrants |

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| Table S2. Count regression model results for outpatient health service use in a period of 12 months with language skills as the exposure variable (German National Cohort, Germany, 2014-2019). |
| Language skills | General practitioner (n=7,588) | Medical specialists(n=7,590) | Psychologists/ psychiatrists (n=7,555) |
| Adjusted RR1 | 95% CI | Adjusted RR1 | 95% CI | Adjusted RR1 | 95% CI |
| Good  | 1.02 | 0.97–1.07 | 0.94 | 0.89–0.99 | 0.83 | 0.64–1.07 |
| Medium  | 1.00 | 0.94–1.06 | 1.00 | 0.93–1.07 | 0.56 | 0.39–0.81 |
| Bad  | 0.95 | 0.81–1.11 | 0.83 | 0.70–0.99 | 0.29 | 0.11–0.74 |
| 1: Adjusted rate ratios are adjusted for age, sex, education, alcohol consumption, number of lifetime diseases, general health status, PHQ-9 sum score, and study center. Reference category: Very good German language skills |