

## The Influence of Physical Activity and Health Literacy on Depression Level of First and Second Turkish Generation Living in Germany

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**Abstract :** Health literacy has gained importance with the further spread of the coronavirus disease (COVID-19) worldwide and has been associated with health status in various chronic diseases. Many studies indicate that mental health can be improved by low- or moderate-intensity activity, and several studies have been proposed to explain the relationship between physical activity and mental health. The aim of the present study is to investigate the levels of physical activity, health literacy, and depression in first- and second generation Turkish people in Germany. The research consists of 434 participants (255 females, 179 males; age  $38.09 \pm 13.73$ ). 40.8 % of participants are married, and 59.2 % of participants are single. Education levels are mostly at university level (54.8 %), and graduate level is 18.9 %. While 24.9 % of the participants are second generation, 75.1 % of participants are first generation. All analyses were stratified on gender, marital status, education, generation and income status, and five age categories: 18-30, 31-40, 41-50, 51-60, and 61-79, which were defined to account for age-specific trends while maintaining sufficient cell size for statistical analysis. A correlation of depression with physical activity and health literacy levels between first- and second generation Turks in Germany was evaluated in order to find out whether there are significant differences between the two populations and demographic variables (gender, marital status, education, generation, income status) with carrying out questionnaires which are European Health Literacy Survey Questionnaire (HLS-EU-Q47), International Physical Activity Questionnaire (IPAQ) and the Patient Health Questionnaire-9 (PHQ-9).

**Keywords :** health literacy, turks in germany, migrants, depression, physical activity

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