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**Title:** Validity and reliability of Turkish version of St. George's respiratory questionnaire

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**Body:** The importance of the evaluation of health status in COPD is recently highlighted in many studies. In this study, we aimed to test the validity and reliability of the Turkish version of St. George Respiratory Questionnaire (SGRQ). The study was conducted in 7 centers in Turkey. Three hundred twenty one COPD patients (40-75 years-old) were included to the study. Turkish versions of breathlessness, Cough, and Sputum Scale (BCSS), mMRC (Modified Medical Research Council) dyspnea scale, St George Respiratory Questionnaire (SGRQ), COPD assessment test (CAT) and Short Form Health Survey (SF-36) were carried out to the patients. The statistical analysis of SGRQ was performed by using the coefficient of internal consistency, discriminate analysis for different stages and the correlation with the other scales. The mean age was  $62.4 \pm 8.9$  years and the mean FEV1 was  $51.9 \pm 19.2\%$  pred. The coefficient of internal consistency (Cronbach alpha) was 0.8815. The correlation between the total score measured initially and that obtained 2 weeks later was found to be highly significant ( $r=0.90$ ,  $p<0.0001$ ). According the results of the testing the validity of both total score and the components of SGRQ, the correlation between the total score of SGRQ and CAT was 0.782 ( $p<0.0001$ ), SGRQ and SF-36 was between -0.481 ile -0.819 ( $p<0.0001$ ). The total and component scores were able to discriminate different disease stages and a significant correlation was found to be with pulmonary function tests. **CONCLUSION:** St George Respiratory Questionnaire (SGRQ) Turkish version is a reliable and valid assessment tool for COPD patients in clinical practice.

