

Dizziness Handicap Inventory

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A study aimed to validate the [Lithuanian](#) version of the Dizziness Handicap Inventory (DHI-L), investigate its reliability, and perform factor analysis.

A standard [protocol](#) of [translation](#) was followed for psychometric instruments. A total of 108 patients (75.9% women), mean age 51.9 years, with peripheral or central [dizziness](#) and [vertigo](#), participated in this [cross-sectional study](#). The [internal consistency](#) was measured by [Cronbach's alpha coefficient](#) and corrected item-total correlations (CI-TCs). After a week, 65 of the recruited patients were again asked to fill out Dizziness Handicap Inventory (DHI)-L to ascertain test-retest reliability (intraclass correlation, ICC). Concurrent validation was performed using Pearson correlation between the total score and subscales of DHI-L and the eight scales of Short Form-36 Health Survey (SF-36). Finally, the factor structure of the DHI was assessed by principal component analysis (PCA).

The Cronbach's alpha coefficient was very high (0.91). CI-TCs for DHI-L total scale ranged from 0.33 to 0.67. The correlations between DHI and SF-36 were high to weak. The ICC was excellent for the total score and its subscales. Our proposed two-factor model explained 44.5% of the variance. The first factor indicated disability in daily activities and psychological effect of handicap. The second factor comprised of items that pertained to postural instability.

The DHI-L has shown good reliability and validity. Results did not support the original subscale structure of the DHI. As more studies need to be done to restructure DHI, we recommend only using the total DHI score as a measure of dizziness handicap ¹⁾.

¹⁾

Valančius D, Ulytė A, Masiliūnas R, Paškonienė A, Ulozienė I, Kaski D, Vaicekauskienė L, Lesinskas E, Jatužis D, Ryliškienė K. Validation and Factor Analysis of the Lithuanian Version of the Dizziness Handicap Inventory. J Int Adv Otol. 2019 Dec;15(3):447-453. doi: 10.5152/iao.2019.6977. PubMed PMID: 31846927.

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