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Predictive validity of the Expert System Traffic in healthy adults

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ABSTRACT:

The present study investigates the predictive validity of the ability tests of the Expert System Traffic using linear multivariate statistics and artificial neural networks. A standardized on-road test served as criterion measure. A total of 222 healthy adults participated in this study. The predictive validity was evaluated using linear multivariate statistics and artificial neural networks. The results indicate that artificial neural networks yield practically relevant classification rates (80%) and validity coefficients (.68) and enabled a clear distinction to be made between safe and unsafe drivers at the individual level. The results have been cross-validated using a smaller independent data set.