Measuring and improving the level of statistical literacy of first-year undergraduate biology students

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With the increasing availability of data in biology research, biology students must be able to analyze and interpret this data to accurately understand biological phenomena. Statistical literacy is the ability to understand, interpret, and critically evaluate statistical information in order to make informed decisions and judgments. The research questionnaire based on Gal (2002) and Watson and Callingham (2003) models for statistical literacy is conducted to determine the level of statistical literacy of undergraduate biology students at Faculty of Natural Sciences and Mathematics in Skopje, before taking the Statistics course. The results of this study are used for improving methods of teaching statistics among these students. Final test results after taking the Statistics course are analyzed, in order to evaluate the effectiveness of teaching methods.