

ABSTRACT

Neng Rini Diniawati. 2026. *Improving Communication Skills Through Canva-Based Biology Solution Presentations Supported by AI Scaffolding in the Musculoskeletal System Unit. Supervised by Prof. Dr. Hj. Mia Nurkanti, M.Kes., and Dr. Ida Yuyu Nurul Hizqiyah, S.Pd., M.Si.*

Communication skills are one of the essential 21st-century skills that students need to possess in biology education. This study aims to determine the improvement in students' communication skills after implementing learning using Canva-based media supported by AI scaffolding on the topic of the musculoskeletal system. This study employed a quasi-experimental method with a Non-equivalent Control Group Design. The sample consisted of 30 11th-grade students selected using purposive sampling. The research instruments included a communication skills test covering indicators such as clarity in presenting material, the ability to present solutions, the use of scientific terminology, the utilization of presentation media, and the ability to answer questions, as well as a student response questionnaire. The data were analyzed using the N-Gain test to determine improvements in communication skills. The results of the study indicate that the use of AI-scaffolded Canva media was able to improve students' communication skills through presentation activities at a moderate level. Communication skill indicators showed improvement, with the highest achievement in the indicator for presenting solutions, while the indicator for answering questions achieved the lowest score. In addition, student responses to the use of the developed media reached 83%, falling into the "very good" category. Thus, AI-assisted scaffolding on Canva has a positive effect on improving students' communication skills.

Keywords: AI Scaffolding, Canva, Communication Skills, Motion System, Presentation