# Enhancing Interprofessional Education with High-Tech Innovations and Escape Room Activities: A Systematic Review

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## INTRODUCTION

Interprofessional education (IPE) is an approach to teaching and learning that improve clinical outcomes and collaborative practice among healthcare workers. Innovative teaching strategies include using high-tech interventions and creating immersive learning environments like escape rooms have been more popular in recent years as useful ways to enhance interprofessional education (IPE) opportunities.

## OBJECTIVE

The purpose of this systematic review is to integrate the body of research on the benefits of using escape rooms and high-tech tools to improve interprofessional collaboration among medical professionals and students.

## METHODOLOGY

A comprehensive search was conducted for research papers published between 2010 and 2023 in various databases (PubMed, Embase, ERIC, etc.). Studies evaluating the effects of high-tech interventions and escape rooms on interprofessional collaboration, teamwork skills, and knowledge acquisition in medical education were included in the research.

## RESULTS

Most research studies have shown that high-tech interventions (e.g., virtual reality, augmented reality, and simulation technology, telemedicine platforms) and escape rooms, have had positive results in enhancing interprofessional medical education. These methods provide immersive, interactive, and hands-on learning experiences that improve knowledge, skills, communication, teamwork, problem-solving among students from various healthcare disciplines.

These technologies do not just enhance learning quality and engagement, but also increase patient safety and improve healthcare outcomes by better preparing students for the intricacies and challenges of actual clinical practice.

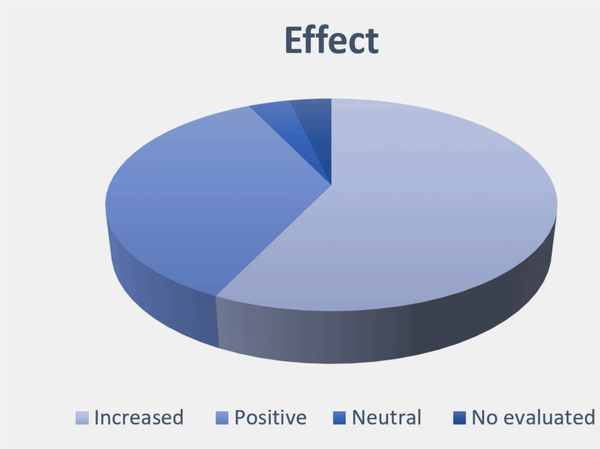


**Figure 1. Distribution of studies analyzing the effect on increase, positive, neutral, and No evaluated in medical education utilizing VR and AR technologies.**

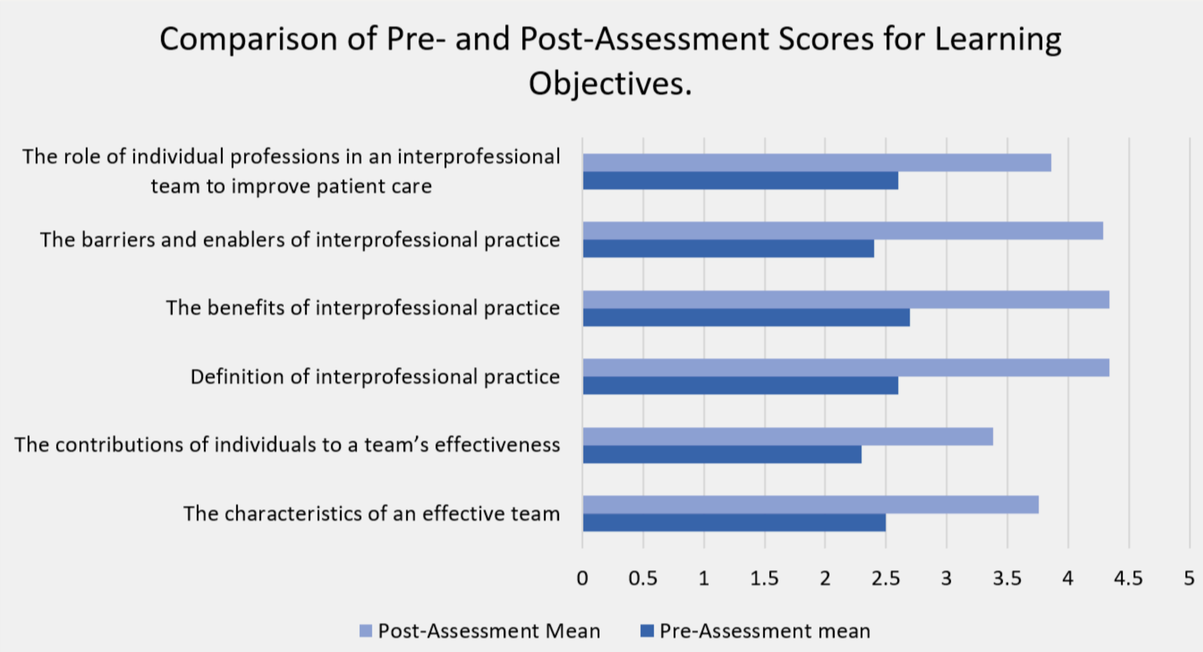


**Figure 2. Comparison of Pre- and Post-Assessment Scores for Learning Objectives in Using Escape Rooms to Enhance Interprofessional Education (IPE)**

## CONCLUSION

Innovative technology and interactive escape rooms show promise in improving interprofessional medical education. These interventions help in the development of essential critical skills necessary for effective and successful teamwork in healthcare environments. Future studies should focus on using standardized evaluation methods and carrying out long-term research to confirm these findings and enhance educational outcomes.

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