



Review Article

# Standardized Patient Simulation for More Effective Undergraduate Nursing Education: A Systematic Review and Meta-Analysis

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## KEYWORDS

simulation training;  
standardized patient;  
students, nursing;  
self-efficacy;  
problem solving

**Abstract** This systematic review and meta-analysis was designed to investigate the effects of standardized patient simulation on undergraduate nursing students following PRISMA guidelines. We searched seven databases; three reviewers independently performed study selection and data extraction and employed the risk for bias assessment for nonrandomized studies (ROBINS) tool to evaluate the quality of evidence. To estimate effect size, a meta-analysis of the studies was performed using STATA 16.0. We identified 1,276 related published studies; 68 met our inclusion criteria, 14 of which were eligible for final analysis. Our findings indicate that standardized patient simulation can effectively improve undergraduate nursing students' communication skills, communication self-efficacy, self-efficacy, learning self-efficacy, problem-solving ability, and learning satisfaction; no evidence of publication bias was detected. Further studies are required to define detailed and standardized guidelines for supplementary research designs for experimental studies and effective methods of utilizing standardized patients. Expanding the application of evidence-based standardized patient simulation can improve reproduced clinical experiences and overcome limitations in clinical training for undergraduate nursing students.

## Cite this article:

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The health care environment is changing rapidly, and medical technology is developing continuously. Thus, nurses must have high-level problem-solving and commu-

nication skills to care for patients with complex health problems (Fogg, Kubin, Wilson, & Trinko, 2020). However, observation-based training in clinical settings has become limited due to time constraints, patient privacy protection and infection control issues, and increasing

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# Review Research Nursing Education

**Michal Rosen-Zvi**



## **Review Research Nursing Education:**

Review Research Nursing Education: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. Review Research Nursing Education : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Review Research Nursing Education : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papan, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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