

SURVEY ON CLINICAL SIMULATION IN TRAINING

Survey results



xx November 2023

Background

In the summer of 2023, Sigma Europe conducted a survey across all its regional chapters to assess how universities and practice settings are replacing or amplifying experiences with real people through scenarios that use lifelike mannequins, physical models, standardized patients, or computers.

This report provides a consolidated overview of the results of this survey.



Clinical simulation is one of the most prominent innovations in nursing education in recent decades.



We would like to heartily thank the European chapters for their participation in this survey!

Chi Delta - Armenia

Alph Alpha Gamma - Croatia

Alpha Beta Nu - Finland

Omega Epsilon at Large Chapter - Ireland

Omega Lambda - Israel

Alpha Alpha Beta - Italy

Rho Chi at Large - The Netherlands

Phi Xi - Portugal

Tau Omega - Sweden

Omega Xi - Scotland

Phi Mu , England and Upsilon Xi - Wales

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OVERVIEW OF RESULTS

Clinical simulation in training

100%

Of Europe chapters surveyed use clinical simulation (at least partially) to teach nursing students in nursing education institutions

92%

Of European chapters surveyed use clinical simulation to train practicing nurses working in hospitals.

75%

Of chapters use clinical simulation (at least partially) to train practicing nurses when working in community services.

75%

Of European chapters surveyed use clinical simulation in every year of a nurse's training.

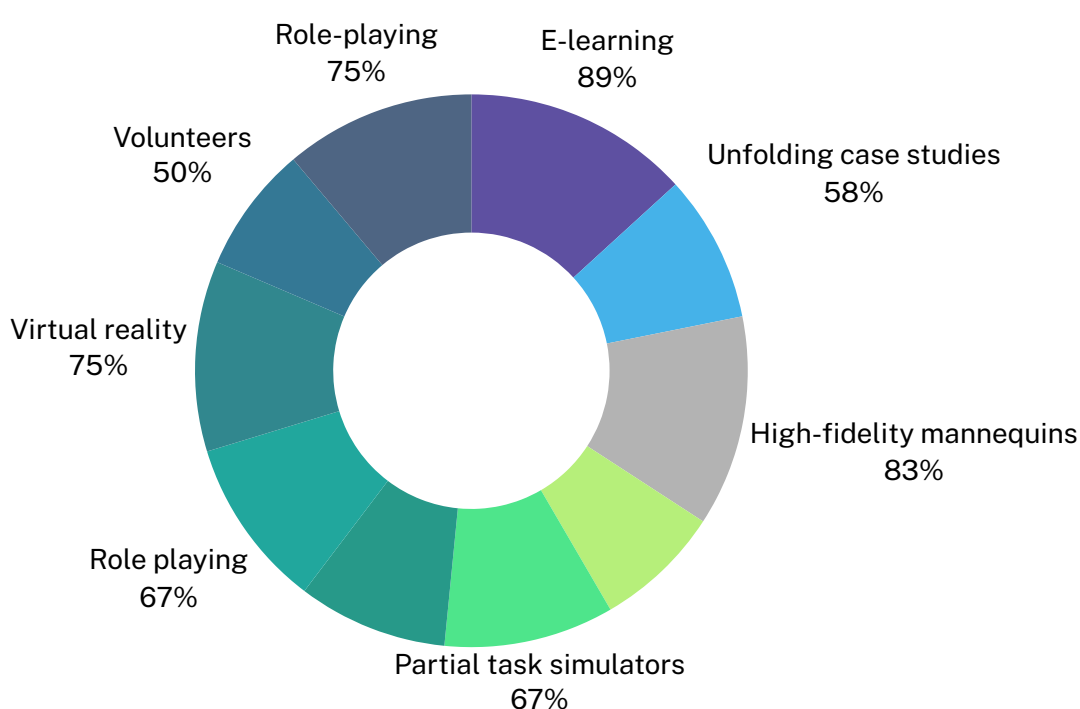


7 OUT OF 12

Europe chapters surveyed hire paid professional actors for at least some of their simulations.

Breakdown of the type of simulation used

The 12 Europe chapters surveyed use the following types of simulation





OVERVIEW OF RESULTS

Clinical simulation in training



Of chapters surveyed
stated that simulation for
students is multi-
professional.

“Simulation is
used to train
students in the
following
professions
across the
European
chapters...

...paramedics, medical
students, physios, OTs, BSL
interpreter students,
pharmacists, nurses, social
workers, rescuers,
firefighters, paramedics,
midwives, bioanalysts,
physicians, physical
Therapists, and midwives.”



Qualified nurses receive
simulation training in the
following fields:

- Emergency medicine
- Physical therapy
- Obstetrics
- Psychology
- Social work
- Midwifery
- Bioanalysis



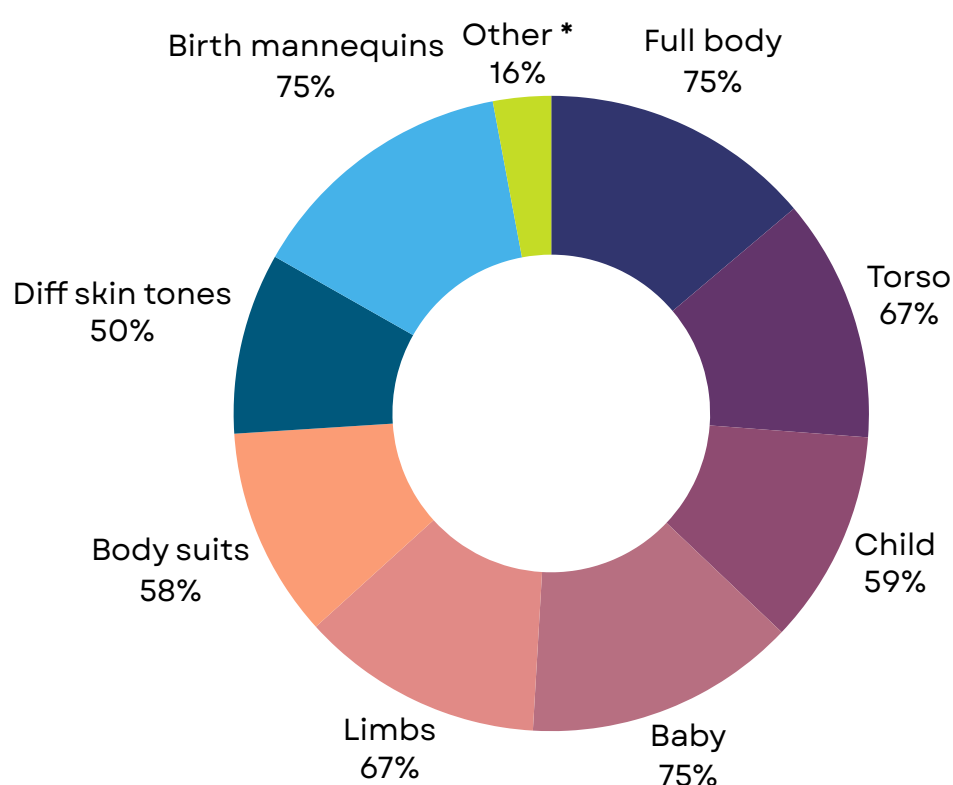
OF SIMULATION
TRAINING FOR
QUALIFIED NURSES IS
MULTI-PROFESSIONAL



OVERVIEW OF RESULTS

Clinical simulation in training

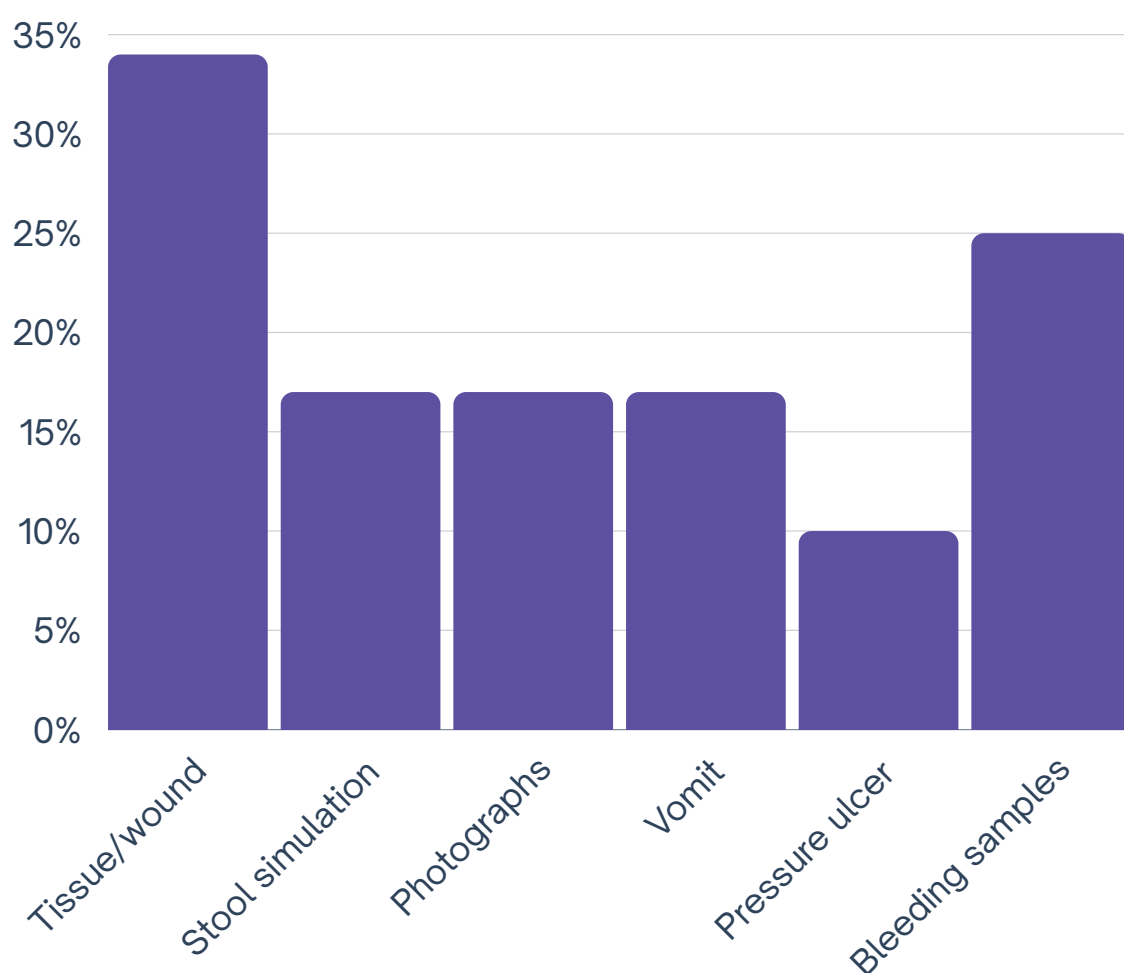
The types of mannequins used in clinical simulation across the European chapters



* Other: Application of the therapy simulations (i.m, i.c., s.c., i.v), simulator for application therapy by central venous site (CVC, port catheter ...), venepuncture simulation, oral care simulation, vital signs simulator, breastfeeding simulator, and CPR mannequin

USE OF SAMPLES

If samples are used
what types are used?





OVERVIEW OF RESULTS

Clinical simulation in training

Is a debrief session used after a simulation for students?



The types of debrief sessions used....

“Reflective models”

“Discussions and quizzes”

“Use of a reflective cycle such as Kolb or Gibbs”

“Varied frameworks”

“The model for debriefing management, was based on the '3D Debriefing Model'(Zigmont JJ et all 2011), which includes four phases: ‘defusing’ - to recapitulate and clarify what happened during the scenario; ‘discovering’ - to analyse and evaluate performance through reflection; ‘deepening’ - to apply the lessons of the simulations and make links with clinical practice; and ‘summarising’ - to review what was learned during the session”

“The debrief session is structured, either in three phases (descriptive, analytical, and applied phase) or in accordance with the PEARLS model.”

“Structured, reflection, In accordance with a test list”

“Not structured”

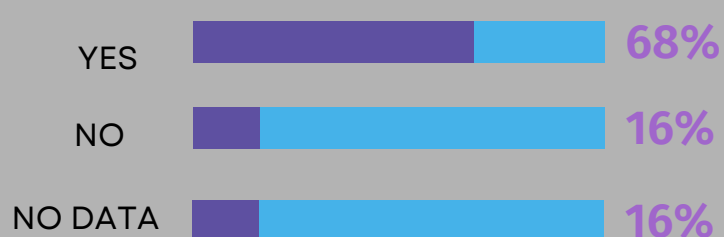




OVERVIEW OF RESULTS

Clinical simulation in training

Are staff given any structured staff development for simulation teaching



Are you aware of any research being undertaken on the value or use of simulation?

Phi Mu , England and Upsilon Xi Wales

"Recognizing and managing a deteriorating patient: a randomized controlled trial investigating the effectiveness of clinical simulation in improving clinical performance in undergraduate nursing students. J Adv Nurs . 2015 Nov;71(11):2563-74. doi: 10.1111/jan.12722. Epub 2015 Jul 6"

"Comparing the Effectiveness of Clinical Simulation versus Didactic Methods to Teach Undergraduate Adult Nursing Students to Recognize and Assess the Deteriorating Patient. Clinical Simulation in Nursing Volume 10, Issue 3, March 2014, Pages e119-e127"

Burford, B., Greig, P., Kelleher, M. et al. Effects of a single interprofessional simulation session on medical and nursing students' attitudes toward interprofessional learning and professional identity: a questionnaire study. BMC Med Educ 20, 65 (2020). <https://doi.org/10.1186/s12909-020-1971-6>

A much kinder introduction': exploring the benefits and challenges of paediatric simulation as a transitioning tool prior to clinical practice Karen Cleaver¹, Ryan Essex¹, Naomi Narramore², Heather Shekede¹, Christina Malamateniou³, Sharon Marie Weldon¹Institute for Lifecourse Development, The University of Greenwich, London, UK²Faculty of Education, Health and Wellbeing, University of Wolverhampton, London, UK³Division of Midwifery and Radiography, City, University of London, London, UK
Corresponding author: Ryan Essex, r.w.essex@gre.ac.uk<https://ijohs.com/article/doi/10.54531/AHGP9780>© The Author(s). 2022 Open Access International Journal of Healthcare SimulationVol.2, Issue no.1

Phi Xi Portugal

Yes, in Nursing school of Porto and CINTESIS@RISE in Tech4edusim group about simulation development tools and virtual patients use impact

<https://cintesis.eu/en/tech4edusim-technologies-for-education-and-simulation-in-healthcare/>

Omega Xi Scotland

Yes, research currently in Scotland and UK considering the introduction of simulated practice learning by the NMC.

Alpha Alpha Beta Italy

We were partner of the project Sharing Learning from Practice to improve Patient Safety (SLIPPS) under the Erasmus+. Now we are involved in the project "Serious Games - Developing Emotional Competencies for Nursing Students" (SG4NS)

More
research
results on
the next
page...



OVERVIEW OF RESULTS

Clinical simulation in training

Alpha Beta Nu Finland

Saaranen, T., Silén-Lipponen, M., Palkolahti, M., Mönkkönen, K., Tiihonen, M. & Sormunen, M. (2020). Interprofessional learning in social and health care – Learning experiences from large-group simulation in Finland. *Nursing Open* 7, 1978–1987.

Silén-Lipponen, M. & Saaranen, T. (2021). Reflection as a Factor Promoting Learning Interprofessional Collaboration in a Large-group Simulation in Social and Health Care. *International Journal of Nursing and Health Care Research*. 4: 1241

Omega Lambda Israel

Avraham, R., Shor, V., & Kimhi, E. (2021). The influence of simulated medication administration learning on the clinical performance of nursing students: A comparative quasi-experimental study. *Nurse Education Today*, 103, 104947.

Alph Alpha Gamma, Croatia

Croatian nursing education institutions several years ago participated in European research regarding application of simulation in nursing education.

At our university we published two papers regarding simulation:

- The influence of different ways of training on development of practical skills in performing parenteral therapy in full-time first year nursing students
https://cejnm.osu.cz/artkey/cjn-201903-0007_the-influence-of-different-ways-of-training-on-development-of-practical-skills-in-performing-parent.php
- Translation and validation of the Satisfaction with Simulation Experience scale: cross-sectional study (https://cejnm.osu.cz/artkey/cjn-202202-0003_translation-and-validation-of-the-satisfaction-with-simulation-experience-scale-cross-sectional-study.php)

“The results of this simulation survey show that a variety of clinical simulation tools and methods are used throughout across the European chapters to train students and qualified nurses. We are confident that the European nursing community will continue to innovate in this area. Let’s keep up the good work and learn from each other to ensure that the collective efforts of the community ensure that we deliver the best care and support to our patients and to our communities!”

Marie-Louise Luiking, Sigma Europe Regional Coordinator



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