

Terminology:

- When talking about “simulation-based education” or “pediatric simulation”, these terms include algorithm training, low-fidelity and high-fidelity simulation.
- Algorithm training: This is defined as basic life support training as well as internationally standardized advanced life support training courses with pre-test, theory and practical skills training (e.g. EPLS, PALS, ATLS)
- High-fidelity simulation: This is defined as simulation training using technically sophisticated simulators / manikins.

Abbreviations:

BLS = basic life support

ALS = advanced life support

CRM = crisis resource management

*** 1) In which country is your institution located?**

- ☐ Switzerland
- ☐ Austria
- ☐ Germany
- ☐ Italy (South Tyrol)

*** 2) In which city is your institution located?**

*** 3) Does your institution offer simulation-based pediatric training (algorithm training, low-fidelity and/or high-fidelity simulation)?**

- ☐ Yes

☐ No

*** 4) Who is in charge of simulation-based pediatric training?**

Name: _____

E-mail address: _____

Phone number (optional): _____

5) How are your simulation activities organized?

☐ Pediatric simulation training is delivered in a simulation center (please provide name):

☐ Pediatric simulation training is delivered in a hospital (please provide name):

☐ Other (please specify): _____

*** 6) For which professions do you offer simulation-based training? (Multiple answers possible)**

☐ Nursing students

☐ Nurses

☐ Intensive care nurses

☐ Medical students

☐ Residents

☐ Fellows / consultants

☐ Midwives

☐ Other health care professionals (e.g. physical therapists)

☐ Psychologists

- ☐ Emergency medical service
- ☐ Others (please specify): _____

*** 7) How do you deliver simulation-based training? (Multiple answers possible)**

- ☐ Separately for different professions
- ☐ Multidisciplinarily (several specialties)
- ☐ Multiprofessionally (several health care professions)

8) If you deliver multidisciplinary training, in which combinations you deliver these?

*** 9) What type of simulation-based training do you offer? (Multiple answers possible)**

- ☐ Algorithm training (see question 10)
- ☐ Skill training (e.g. training of intubation, lumbar puncture, central venous catheter)
- ☐ Human factor training (e.g. TeamStePPS)
- ☐ High-fidelity simulation with medical and CRM contents
- ☐ Communication training (e.g. with parents)
- ☐ Other (please specify): _____

10) What type of algorithm training do you offer? (Multiple answers possible)

- ☐ Basic Life Support (BLS)
- ☐ Newborn Life Support (NLS) / Newborn Resuscitation Program (NRP) / Start4Neo
- ☐ European Pediatric Life Support (EPLS)
- ☐ Pediatric Advanced Life Support (PALS)
- ☐ Advanced Trauma Life Support (ATLS)

☐ Other (please specify): _____

*** 11) Which training contents do you offer? (Multiple answers possible)**

- ☐ Emergencies at the pediatric intensive care unit
- ☐ Emergencies at the neonatal intensive care unit
- ☐ Resuscitation of newly born infants (e.g. in the delivery room)
- ☐ Pediatric emergencies in the operating theater
- ☐ Pediatric emergencies in the outpatient clinic
- ☐ Pediatric emergencies at the hospital ward
- ☐ Out-of-hospital pediatric emergencies
- ☐ Pediatric trauma emergencies
- ☐ Other (please specify): _____

12) How many trainees participate in a training / course on average?

Algorithm training: ☐ 1-4 ☐ 5-8 ☐ 9-12 ☐ 13-20 ☐ >20

High-fidelity training: ☐ 1-4 ☐ 5-8 ☐ 9-12 ☐ 13-20 ☐ >20

13) How many instructors / members of the simulation team are present per training / course on average?

Algorithm training: ☐ 1 ☐ 2-3 ☐ 4-5 ☐ >5

High-fidelity training: ☐ 1 ☐ 2-3 ☐ 4-5 ☐ >5

*** 14) How often do you deliver simulation-based training for the respective groups?**

Nursing students: ____ (algorithm training) ____ (high-fidelity simulation)

Nurses: ____ (algorithm training) ____ (high-fidelity simulation)

Medical students: ____ (algorithm training) ____ (high-fidelity simulation)

Physicians: ____ (algorithm training) ____ (high-fidelity simulation)

Other health care professionals: ____ (algorithm training) ____ (high-fidelity simulation)

*** 15) Where do you deliver high-fidelity simulation training? (Multiple answers possible)**

- ☐ In a simulation center
- ☐ In situ training in own institution
- ☐ In situ training in other institutions
- ☐ Other (please specify): _____

*** 16) What kind of technical equipment do you use for high-fidelity simulation training? (Multiple answers possible)**

- ☐ Mobile audio-video recording system
- ☐ Stationary audio-video recording system
- ☐ Dedicated equipment room
- ☐ Dedicated debriefing room
- ☐ Other (please specify): _____

17) What kind of simulators are available for simulation-based training? (Please give numbers)

BLS simulator: ____

ALS simulator (e.g. Laerdal MegaCodeKid): ____

Preterm / newborn simulator (e.g. Laerdal SimNewB, Gaumard PremieHal / NewbornHal): ____

Baby simulator (e.g. Laerdal SimBaby, Gaumard PediHal): ____

Infant simulator (e.g. Laerdal SimJunior): _____

Childbirth simulator (e.g. Laerdal SimMom, Gaumard Noelle): _____

Adult simulator (e.g. Laerdal SimMan): _____

Other (please specify): _____

18) How many persons are engaged in your simulation team? (Please give numbers)

Instructors with CRM based instructor course: _____

BLS instructors: _____

PALS instructors: _____

EPLS instructors: _____

NLS instructors: _____

ATLS instructors: _____

Instructors without specific training: _____

Student instructors: _____

SimNurses: _____

Technicians: _____

Administrative personnel: _____

Other (please specify): _____

19) Which professions are working as instructors in your simulation team? (Multiple answers possible)

- ☐ Physicians
- ☐ Nurses
- ☐ Educators
- ☐ Emergency medical service
- ☐ Midwives

- ☐ Psychologists
- ☐ Students
- ☐ Other (please specify): _____

20) Do you offer regular instructor courses for simulation professionals?

Train-the-Trainer courses: ☐ Yes ☐ No

Debrief-the-Debriefers courses: ☐ Yes ☐ No

Theoretical courses: ☐ Yes ☐ No

Guest lectures by external simulation experts: ☐ Yes ☐ No

Other (please specify): _____

*** 21) Are you actively engaged in research activities at your simulation institution?**

☐ Yes

☐ No

*** 22) Are you interested to participate in simulation research?**

☐ Yes

☐ No

*** 23) Are you interested in joining the *Netzwerk Kindersimulation e.V.* (Pediatric Simulation Network)?**

☐ Yes

☐ No

*** 24) What are the obstacles to implement pediatric simulation training?**

- ☐ Lack of financial resources
- ☐ Lack of personnel
- ☐ Lack of training location
- ☐ Lack of training time
- ☐ No need
- ☐ Other (please specify): _____

25) Do you have any feedback, comments or requests regarding simulation?

Thank you very much for participating in this survey!