**Appendix A- List of contributors**

**Steering committee**

Dimitrios Stefanidis, chair

David Cook

Sharon Muret-Wagstaff

Sharon Decker

**Topic Leads**

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| --- | --- | --- |
|  | Topic | Leads |
| 1 | Mastery learning/ deliberate practice/ technical skills | David Kessler | Julia Vermylen |
| 2 | Feedback/ debriefing | Jonathan Duff | Michaela Kolbe |
| 3 | Spaced learning/ booster training/ warm up/ just in time training | Catherine Patocka | Andrew Hall  |
| 4 | Self-guided learning/ regulated learning/ peer to peer learning\* | Ryan Brydges | Vicki LeBlanc |
| 5 | Team training/ nontechnical skills training | Kasper Lauridsen | John Paige |
| 6 | In situ training (for training vs process improvement) | Yiqun Lin | Aaron Calhoun |
| 7 | Virtual reality/ augmented reality/ hybrid (consider training and assessment) | Todd Chang | Michelle Aeborsold  |
| 8 | Remote simulation/ tele-simulation  | Janice Palaganas | Isabel Gross  |
| 9 | Standardized patients | Tonya Rutherford Hemming  | Vallerie Fulmer |
| 10 | Simulation/ simulator fidelity (task resemblance of reality) | Aaron Donoghue | Andrew Lockey |
| 11 | Faculty development\* | Walter Eppich | Aimee Gardner  |
| 12 | Low/ high stakes assessment/ formative/ summative\* | Walter Tavares | Jeffrey Cheung |

\*Data not included in this paper.

**Expert Panelists:**

**KQ 1-3: In-situ Simulation**

Aaron William Calhoun, MD; David A. Cook, MD, MHPE; Gina Genova, MSI; Seyed Mohammad Kalantar Motamedi, MD, MPH; Muhammad Waseem, MD, MS; Rob Carey, MD; Amy Hanson, MD; Jacky C.K. Chan, DN, MSc, RN, FHKAN;Cheryl Camacho, MBA; Ilana Harwayne-Gidansky, MD; Barbara Walsh, MD; Marjorie White, MD; Gary Geis, MD; Anne Marie Monachino, DNP, RN, CHSE-A, CNPD-BC, CPN; Tensing Maa, MD; Glenn Posner, MD; David Li Li, MD, MPhil, PhD, CHSE; Yiqun Lin, MD, MHSc, PhD, MSc, RN, MA, RN

**KQ 4: Just in time training**

Erin Brennan; Lauren Lacroix; Anjali Pandya; Martin Pusic; Marian Luctkar-Flude; Ingrid Anderson; Mohammad Kalantar; William McGaghie; Andrew Hall; Mohammed Ansari; Catherine Patocka;

**KQ 5: Spaced learning/ booster training/ warm up/ just in time training:**

Expert panel: Farhan Bhanji, Alyshah Kaba, Emily Diederich, Cara Doughty, Joyce Yeung, Erin Brennan, Lauren Lacroix, Anjali Pandya, Martin Pusic, Marian Luctkar-Flude, Ingrid Anderson, Mohammad Kalantar, William McGaghie, Andrew Hall, Mohammed Ansari

**KQ 6 and 7: Simulation Fidelity**

Lead:Aaron Donoghue; Co-Lead: Andrew Lockey; Expert Panel: Vernon Curran; Taylor Sawyer; Lauren Conlon; Teresa Hoadley; Pete Meaney; Nicole Shilkofski; Andrew Bland; Kevin Stirling

**KQ 8: Distance simulation**

Lead: Janice Palaganas; Co-Lead: Isabel Gross

|  |
| --- |
| **Expert Panelists/Working Group\*** |
| **Distance Only** | **In-person + Distance** | **Umbrella of** **In-person** | **Comparison Study** |
| Matthew CharnetskiIsabel T GrossDawn WawersikJanice PalaganasJonathan P DuffShannon Bailey Geethanjali Ramachandra Nuha Birido Rachel ElkinBindhu Nair Peter Thurber  | Nuha Birido Janice PalaganasKristen M. BrownDiego Olmo-Ferrer Richard Friedland, Shannon Bailey Dawn Wawersik Isabel T GrossMatthew Charnetski Bindhu NairJared M. Kutzin | Janice C. PalaganasJill SankoCynthia Mosher Dawn WawersikSusan EllerAmanda KirkpatrickMarc LazaroviciKristen M. BrownIsabel T. GrossAmanda TarbetStephanie StapletonPatrick G. HughesAlex MortonJonathan P. Duff | Stephanie StapletonJanice C. PalaganasIsabel T GrossKristen BrownMatthew CharnetskiDawn WawersikCynthia MosherJonathan P DuffJill SankoSadek ObeidatAsem Elhossiny |
| **Additional Guest Panelists During SSH Research Summit** |
| Amar Patel, Joe Loprieato, Mark Scerbo, Mary Patterson, Beth Rogers, Benjamin Schultze, Hani Lababidi, Kristy Freeman, Jack Weiss, Haneen Alnazzawi, Jesika Gavilanes, Jabeen Fayyaz, Faten Alradini, Afaf Alblooshi, Sarah Allabun, Leila Casteel |

**\****Working group members were the expert panelists*

**KQ 9-11: Team Training/ Non-Technical Skills Training**

Lead; Kasper Lauridsen; Co-Lead: John Paige

Expert Panel: Sabine Hunziker, physician, psychosomatics, Switzerland • Simon Cooper, nurse, Monash University, Australia • Eduardo Salas, psychologist, Florida • Lise Brogaard, Obstetrician, Denmark • Rhona Flin, psychologist, UK • Victoria Brazil, emergency physician, Gold Coast, Australia • Scott Tannenbaum, psychologist, Albany, New York, Nancy Tofil, Michael Rosen, Jennifer Weller, Sara Naomi Goldhaber

Systematic Review group:

Jan B Schmutz, Jessica Rogers, Sebastian Schnaubelt, Anna Bichmann, Desmond McEwan, Kristian Kogh, Johannes Wittig, Erin Blanchard, Dylan Cooper, Kuan Xing, Jodi Kushner

**KQ 12: Competency-based Training**

1. Julia Vermylen, MD, MPH 2. Elaine R. Cohen, MEd 3. Barry Issenberg, MD 4. Bill McGaghie, PhD 5. David A. Cook, MD, MHPE ​6. Jason Arnold, MD 7. Heather Ballard, MD, MS 8. Mohammad Bayoumi, MD 9. Molly Beestrum, MLIS 10. Remy Bremner, MD 11. Scott Crawford, MD, FSSH 12. Noah Einstein, MD 13. Candace Mannarino, MD 14. Asit Misra, MD, MSMEd, CHSE 15. Tadaki Tomita, MD, RPVI, FACS 16. Heidi Waldron, MBChB, MHPed 17. Frank Yanko, BS 18. David O. Kessler,

**KQ 13 and 14: Virtual reality/ augmented reality/ hybrid simulation**

Michelle Aebersold Clinical Professor University of Michigan School of Nursing; Todd P Chang, Medical Director for the Las Madrinas Simulation Center, Children’s Hospital Los Angeles; Committee and Panel: Cynthia L Foronda; Mariju Baluyot; Jiye Lee; Merrick M Meese; Nicholas Slamon; Laura Gonzalez; Billy Woodall; Deborah Lee; Serkan Toy; Jonathan Sherman; Andy Lancaster; Eugene Chang; Philip G Chen; James Cooke; Emily Youner; Matthew Y Liu; Jeffrey Jacobson; Salam Daher; Margaret Verkuyl; Elizabeth R Wells-Beede; Ann Hoyt-Brennan; Molly Schleicher; Regina Toto; Patrea Andersen.

**KQ 15: Debriefing and Feedback**

Jonathan Duff, MD, FRCPC, Med; Kate Morse; Julia Seelandt; Isabel T Gross; Melis Lydston; Joan Sargeant; Peter Dieckmann; Joseph A. Allen; Jenny W. Rudolph; Michaela Kolbe

**KQ 16: Simulated Participants (SP)**

Valerie Fulmer SP Trainer/Educator; Gail Furman, PhD, RN, CHSE-A; Alaina Herrington, DNP, RN, CNOR(E), CHSE-A, ANEF, FSSH, FAAN; Lori Lioce, DNP, FNP-BC, CHSE-A, CHSOS, FAANP, FAAN; Joseph Lopreiato MD, MPH, CHSE-A; Tonya Rutherford-Hemming, EdD, RN, CEN, CHSE-A, FAAN; Christine M. Thomas PhD, RN, CHSE-A

**Methodologist**

Mohammed T. Ansari

**Research fellows/ learners**

Seyed Mohammad Kalantar Motamedi MD MPH

Amelia Collings MD