Dear SoSILM Section members:

In August, I was privileged to represent our Section at the AAP Annual Leadership Conference (formerly known as ALF) which took place at the AAP headquarters in Itasca, Illinois. This is an annual group of leaders from all of the various components of the AAP who were together to prioritize improving care for children. It's an amazing thing.

I'm most excited about the upcoming activity of our section. As you can see in this newsletter, we have lots going on! Our Section’s planned participation in the National Conference and Exhibition (NCE) includes new things this year including oral abstracts and Professor Rounds. Hope to see you there!

Marjorie Lee White
SoSILM EC Chair

Interested in joining SoSILM?
Use the QR code to join - all professions are welcome!
SoSILM Nominations Committee

Thank you to the SoSILM Nominations committee for their two-years of service to the section!

Taylor Sawyer, DO, MBA, MEd, FAAPM CHSE-A
Seattle Children’s
Kenmore, WA

Noorjahan Ali, MD, FAAP
UT Southwestern
Dallas, TX

Julie Topsis, MD, FAAP
Hackensack Meridian
Princeton Junction, NJ

Welcome to the newly appointed Nominations Chair and Committee Members who will start their two-year term on November 1, 2023.

Joseph O. Lopreiato, MD, MPH, FAAP, CHSE-A, FSSH, CAPT, MC, USN (ret) (Chair)
Uniformed Services University of the Health Sciences
Bethesda, MD

Jennifer Cerone, MD, FAAP
Albany Medical Center
Albany, NY

Raysa Morales-Demori, MD, FAAP
Texas Children’s Hospital
Houston, TX

Kiran Dwarakanath, MD, MRCPCH, FAAP
Children’s Minnesota
Minneapolis, MN
Welcome to the Editors' Corner, where we dive into the forefront of pediatric research, learning and education. In this special selection, we explore the exciting landscape of innovation. From cutting-edge technologies to novel teaching methods, join us as we uncover the latest trends shaping a brighter future for young minds. In this edition, we have chosen the following article.

**Beyond the Randomized Clinical Trial: Innovative Data Science to Close the Pediatric Evidence Gap**

Sebastiaan C. Goulooze, Laura B. Zweep, Julia E. Vogt, Elke H.J. Krekels, Thomas Hankemeier, John N. van den Anker, Catherine A.J. Knibbe

**Abstract**

Despite the application of advanced statistical and pharmacometric approaches to pediatric trial data, a large pediatric evidence gap still remains. Here, we discuss how to collect more data from children by using real-world data from electronic health records, mobile applications, wearables, and social media. The large datasets collected with these approaches enable and may demand the use of artificial intelligence and machine learning to allow the data to be analyzed for decision making. Applications of this approach are presented, which include the prediction of future clinical complications, medical image analysis, identification of new pediatric end points and biomarkers, the prediction of treatment nonresponders, and the prediction of placebo-responders for trial enrichment. Finally, we discuss how to bring machine learning from science to pediatric clinical practice. We conclude that advantage should be taken of the current opportunities offered by innovations in data science and machine learning to close the pediatric evidence gap.

The American Academy of Pediatrics (AAP) is excited to release two new scenarios in Laerdal Scenario Cloud focused on congenital cardiovascular anomalies using SimNewB.

- **Newborn with Transposition of the Great Arteries: Preparing for an Emergent Balloon Atrial Septostomy (BAS).**
- **3-day Old Baby with Undiagnosed Hypoplastic Left Heart Syndrome: Infusing Prostaglandin E1 (Alprostadil).**

These scenarios are designed to address registered nurses, advanced practice providers, physicians, physician assistants, and respiratory therapists with cases requiring neonatal resuscitation of term newborns, who present with congenital cardiovascular anomalies.

Thank you to the scenario editors: Gary M. Weiner, MD, FAAP; Jeanette Zaichkin, RN, MN, NNP-BC; Linda D. McCarney, MSN, APRN, NNP-BC; Taylor Sawyer, DO, MEd, CHSE-A, FAAP; Chris Cooper, DNP, ARNP, NNP-BC, MBA.

**Laerdal Scenario Cloud**

Scenario Cloud is a digital library of expert validated simulation scenarios from clinical professionals, helping educators reach better student outcomes.

Key benefits:

- Save time on curriculum development, focus on improving educational outcomes.
- Curated content from experts, meeting latest clinical guidelines.
- Comprehensive content package incl. printable patient case files.
- Expose learners to immersive training and realistic patient cases.

The digital library also includes sets of AAP scenarios on themes like neonatal resuscitation, prehospital pediatric care, and more. Visit [Scenario Cloud](#) today and start a 90-day free trial.
Editorial Team (ET): Tell us a bit about yourself and how you get involved with this project.

KT: I am a first-year neonatology fellow at LAC+USC Medical Center in Los Angeles. I have always been very interested in education, and especially in novel ways to learn. This project had been conceived by one of the neonatal fellows and I was happy to get involved as it was getting off the ground. The fact that residents are always on their phones made me excited for the potential impact associated with this project. There had been some successful studies associated with text messaging around board preparation, but nothing done concerning NRP, so we were excited to investigate.

ET: How were the messages selected and delivered?

KT: Messages were sent twice a week using WhatsApp. Messages were sent to individual residents, with the control group not receiving ongoing communications. The content of the messages were NRP pearls, with one key point taken from each section. In the message, there was a PDF linked for further information about the clinical pearl for further study.

ET: Was there anything surprising you found during this study?

KT: It was interesting that the text messaging did not seem to improve retention compared to the control group. However, residents were evaluated as a group and not individually.

ET: What was your experience presenting this research?

KT: Presenting the research was really fun. It gave me a lot of insight into what I wanted to study as a fellow. I had a lot of great conversations about the project with colleagues at the conferences I attended. It was great to hear their perspectives on how the project could be improved and got me excited to continue research work.

ET: What advice do you have for those wanting to get more involved in simulation or innovative teaching research?

KT: Make your interests known! I ended up on this study because I was discussing my interest in educational research with the NICU, and they helped make the connection with Fatima. Also go to conferences, it is a great way to network with others, and gain new perspectives.

ET: What are your plans for fellowship?

KT: We are developing a similar study (for my fellowship project) to increase NRP skill retention for emergency medicine residents, as their exposure to neonatal resuscitation is infrequent but very important.

Dr. Tedesco would like to acknowledge her collaborators on the project, specifically Dr. Fatima Eskandar-Afshari whom she credits with creation and implementation of the study.
We are recruiting interested SoSILM members to help facilitate the Pediatric CPR Skills Challenge at the 2023 AAP National Conference & Exhibition in Washington, DC!

Please sign up for any date and time you are available to assist using the SignUpGenius linked here by Monday, October 9th, 2023.

If you sign up, a detailed email with the booth location, on-site contact information, and the final facilitator schedule will be disseminated by Friday, October 13th, 2023.

Please reach out to sosilm@aap.org if you have any questions.
Professor Rounds during the SoSILM Poster Session
Sunday, October 22, 2023 from 3p-4p EST
Walter E. Washington Convention Center
Room: Hall A

Join SoSILM at the first inaugural SoSILM Professor Rounds taking place at the 2023 NCE SoSILM Poster Session! Come and learn more about exciting projects and research in simulation and innovative learning methods! Professor Rounds will take place following two oral presentations being presented at the conclusion of the joint SoSILM, Med-Peds and COCME H-program on the Medical Educator's Digital Toolbox.

Come and join our professors and SoSILM Executive Committee Members as they round on research posters and engage abstract authors to share their research questions, methods and conclusions. A great way to enhance your research skills, learn more about exciting research, and meet other members of SoSILM! Hope to see you there!
Upcoming Meetings

- **AAP National Conference & Exhibition (AAP NCE), October 20-24, 2023; Washington D.C.**
- **Laerdal Simulation User Network (SUN) Conference, November 1-3, 2023; Orlando, FL**
- **IPSSV 2023, Global Simulation: Inspiration, Innovation, and Impact: November 14, 2023; Virtual – Register here!**
- **AAP SoSILM Annual Section Meeting, November 14, 2023; Virtual – Calendar invite will be sent through the Listserv.**
- **Sim Expo, December 11-12, 2023; Ottawa, Ontario**
- **International Meeting on Simulation in Healthcare (IMSH), January 20-24, 2024; San Diego, CA**
- **International Pediatric Simulation Society 2024 (IPSSW), May 7-9, 2024; Denver, CO**
- **SimGHOSTS USA 2024, August 6-9, 2024; Indianapolis, IN**

Let’s hear from you!
The SoSILM communications committee would like to hear about exciting research, projects, or innovations related to simulation and innovative learning methods. Fill out this short communications intake form to enter your work to be highlighted in a future SoSILM newsletter edition.

Click Here
The AAP Simulation team had a great time celebrating Healthcare Simulation Week 2023 at AAP Headquarters September 18-22!

This is a time to celebrate the professionals who improve the safety, effectiveness, and efficiency of healthcare services every day. Thank you to our AAP members and Section on Simulation and Innovative Learning Methods for all you do to advance the safety of healthcare one sim at a time.

Follow the AAP Simulation Page by clicking the link below!

https://www.linkedin.com/company/aap-simulation/
The Role of Large Language Models in Medical Education: Applications and Implications
Conrad W Safranek, Anne Elizabeth Sidamon-Eristoff, Aidan Gilson, David Chartash

Abstract
Large language models (LLMs) such as ChatGPT have sparked extensive discourse within the medical education community, spurring both excitement and apprehension. Written from the perspective of medical students, this editorial offers insights gleaned through immersive interactions with ChatGPT, contextualized by ongoing research into the imminent role of LLMs in health care. Three distinct positive use cases for ChatGPT were identified: facilitating differential diagnosis brainstorming, providing interactive practice cases, and aiding in multiple-choice question review. These use cases can effectively help students learn foundational medical knowledge during the preclinical curriculum while reinforcing the learning of core Entrustable Professional Activities. Simultaneously, we highlight key limitations of LLMs in medical education, including their insufficient ability to teach the integration of contextual and external information, comprehend sensory and nonverbal cues, cultivate rapport and interpersonal interaction, and align with overarching medical education and patient care goals. Through interacting with LLMs to augment learning during medical school, students can gain an understanding of their strengths and weaknesses. This understanding will be pivotal as we navigate a health care landscape increasingly intertwined with LLMs and artificial intelligence.

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Name: Anne Elizabeth Sidamon-Eristoff
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Educational Background: BA in Spanish and Portuguese from Princeton University. I’m pursuing my PhD in the Interdepartmental Neuroscience Program at Yale.
Research Expertise: Neuroscience, early life stress, neurodevelopment, medical education
Research Team: Conrad Safranek, Aidan Gilson, David Chartash
Willing to work with other SOSILM members for future collaborations in the field of simulation: Yes
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The research Project in Brief
Title: Using ChatGPT in Undergraduate Medical Education: Perspectives of Learners and Lecturers

Research Objective: Develop insights gleaned through immersive interactions with ChatGPT, contextualized by ongoing research into the imminent role of LLMs in health care.

Outcomes: In our paper https://mededu.jmir.org/2023/1/e50945 three distinct positive use cases for ChatGPT were identified. 1) facilitating differential diagnosis brainstorming, 2) providing interactive practice cases, and 3) aiding in multiple-choice question review.

Conclusion: Given the inevitable integration of LLMs into healthcare, it is important for students and educational institutions to explore best practices for responsible use of LLMs in medical education.
Future Plans of the Author & Her Team
Future plans for simulation work: Identify how ChatGPT can be used to simulate clinical learning, instruction and assessment through focused qualitative work with clinical skills faculty.

Advise other SOSLIM junior members on how to proceed and explore the simulation research and advance their simulation experience in general: We would encourage junior members to reach out to us, as well as reach out to their local medical education researchers. A solid foundation in clinical informatics gained during medical school or residency will also support an understanding of the technical aspects of ChatGPT/Large Language Models more broadly.

Trainees interested in clinical informatics can contact the Council on Clinical Information Technology at COCIT@aap.org or visit aap.org/COCIT or the liaison to the Council and the Section on Pediatric Trainees, David Chartash at dchartas@ieee.org.

Acknowledgements

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Thank You