

# Stanford

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## Marc Berg

Clinical Professor, Pediatrics - Critical Care

### CLINICAL OFFICE (PRIMARY)

- **Pediatric Intensive Care**

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Vicki Spencer - Administrative Manager

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### Bio

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#### BIO

Dr. Berg was born and raised in rural Minnesota and has been in academic medicine since 1997. His research interests include CPR performance, pediatric defibrillation science, and education primarily through simulation. He has been a volunteer with the American Heart Association for more than 10 years, leading the Pediatric CPR course (PALS) in 2010. He has served in several administrative positions including Division Chief of Pediatric Critical Care at the University of Arizona, Board Director of the University of Arizona Health Network and Governor-appointed member of the Arizona Medical Board. In his free time he enjoys biking, reading and spending time with his family. He is married with three children and lives in Menlo Park, California.

See his LinkedIn profile here:

<https://www.linkedin.com/in/marc-berg-6399934/>

#### CLINICAL FOCUS

- Pediatric Critical Care Medicine

#### ACADEMIC APPOINTMENTS

- Clinical Professor, Pediatrics - Critical Care

#### ADMINISTRATIVE APPOINTMENTS

- Medical Director, Revive Initiative for Pediatric Resuscitation Excellence at Packard Children's Hospital-Stanford, (2017- present)

#### PROFESSIONAL EDUCATION

- Medical Education: University of Minnesota Medical School Twin Cities (1993) MN
- Board Certification: Pediatric Critical Care Medicine, American Board of Pediatrics (2000)
- Fellowship: University of Utah (2000) UT

- Residency: University Of Arizona (1997) AZ

## Publications

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### PUBLICATIONS

- **AOA Critical Issues Symposium: The Development of an Adaptive Learning Platform in Orthopaedics.** *The Journal of bone and joint surgery. American volume*  
Swiontkowski, M., Berg, M., Chiodo, C.  
2025
- **A constrained disorder principle-based second-generation artificial intelligence digital medical cannabis system: A real-world data analysis.** *Journal of public health research*  
Hurvitz, N., Lehman, H., Hershkovitz, Y., Kolben, Y., Jamil, K., Agus, S., Berg, M., Aamar, S., Ilan, Y.  
2025; 14 (2): 22799036251337640
- **A constrained disorder principle-based second-generation artificial intelligence digital medical cannabis system: A real-world data analysis** *JOURNAL OF PUBLIC HEALTH RESEARCH*  
Hurvitz, N., Lehman, H., Hershkovitz, Y., Kolben, Y., Jamil, K., Agus, S., Berg, M., Aamar, S., Ilan, Y.  
2025; 14 (2)
- **Evaluating the implementation of the Pediatric Acute Care Education (PACE) program in northwestern Tanzania: a mixed-methods study guided by normalization process theory.** *BMC health services research*  
Mwanga, J. R., Hokororo, A., Ndosu, H., Masenge, T., Kalabamu, F. S., Tawfik, D., Mediratta, R. P., Rozenfeld, B., Berg, M., Smith, Z. H., Chami, N., Mkopi, N. P., Mwanga, et al  
2024; 24 (1): 1066
- **Improving the response to lenvatinib in partial responders using a Constrained-Disorder-Principle-based second-generation artificial intelligence-therapeutic regimen: a proof-of-concept open-labeled clinical trial** *FRONTIERS IN ONCOLOGY*  
Sigawi, T., Gelman, R., Maimon, O., Yossef, A., Hemed, N., Agus, S., Berg, M., Ilan, Y., Popovtzer, A.  
2024; 14: 1426426
- **A Feasibility Open-Labeled Clinical Trial Using a Second-Generation Artificial-Intelligence-Based Therapeutic Regimen in Patients with Gaucher Disease Treated with Enzyme Replacement Therapy.** *Journal of clinical medicine*  
Hurvitz, N., Dinur, T., Revel-Vilk, S., Agus, S., Berg, M., Zimran, A., Ilan, Y.  
2024; 13 (11)
- **Evaluating the Implementation of the Pediatric Acute Care Education (PACE) Program in Northwestern Tanzania: A Mixed-Methods Study Guided by Normalization Process Theory.** *Research square*  
Mwanga, J. R., Hokororo, A., Ndosu, H., Masenge, T., Kalabamu, F. S., Tawfik, D., Mediratta, R. P., Rozenfeld, B., Berg, M., Smith, Z. H., Chami, N., Mkopi, N. P., Mwanga, et al  
2024
- **Near-Infrared Spectroscopy in Pediatric Cardiac Arrest: A Piece of the Clinical Picture.** *Critical care medicine*  
Dhillon, G. S., Berg, M. D.  
2024; 52 (5): 856-859
- **Association between survival and number of shocks for pulseless ventricular arrhythmias during pediatric in-hospital cardiac arrest in a national registry.** *Resuscitation*  
Haskell, S. E., Hoyme, D., Bridget Zimmerman, M., Reeder, R., Girotra, S., Raymond, T. T., Samson, R. A., Berg, M., Berg, R. A., Nadkarni, V., Atkins, D. L., American Heart Association's Get With The Guidelines - Resuscitation Investigators  
2024: 110200
- **Implementing adaptive e-learning for newborn care in Tanzania: an observational study of provider engagement and knowledge gains.** *BMJ open*  
Meaney, P. A., Hokororo, A., Ndosu, H., Dahlen, A., Jacob, T., Mwanga, J. R., Kalabamu, F. S., Joyce, C. L., Mediratta, R., Rozenfeld, B., Berg, M., Smith, Z. H., Chami, et al  
2024; 14 (2): e077834
- **High Variability in the Duration of Chest Compression Interruption is Associated With Poor Outcomes in Pediatric Extracorporeal Cardiopulmonary Resuscitation.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*

- Han, P., Rasmussen, L., Su, F., Dacre, M., Knight, L., Berg, M., Tawfik, D., Haileselassie, B.  
2024
- **A Quality Improvement Project to Improve the Utilization of an Intraoperative Rapid Response System.** *Pediatric quality & safety*  
Rama, A., Qian, D., Forbes, T., Wang, E., Knight, L., Berg, M., Caruso, T. J.  
2023; 8 (6): e686
  - **Development of pediatric acute care education (PACE): An adaptive electronic learning (e-learning) environment for healthcare providers in Tanzania.** *Digital health*  
Meaney, P. A., Hokororo, A., Masenge, T., Mwanga, J., Kalabamu, F. S., Berg, M., Rozenfeld, B., Smith, Z., Chami, N., Mkopi, N., Mwanga, C., Agweyu, A.  
2023; 9: 20552076231180471
  - **Feasibility of an Adaptive E-Learning Environment to Improve Provider Proficiency in Essential and Sick Newborn Care in Mwanza, Tanzania.** *medRxiv : the preprint server for health sciences*  
Meaney, P., Hokororo, A., Ndosu, H., Dahlen, A., Jacob, T., Mwanga, J. R., Kalabamu, F. S., Joyce, C., Mediratta, R., Rozenfeld, B., Berg, M., Smith, Z., Chami, et al  
2023
  - **Factors Associated With Improved Pediatric Resuscitative Care in General Emergency Departments.** *Pediatrics*  
Auerbach, M. A., Whitfill, T., Montgomery, E., Leung, J., Kessler, D., Gross, I. T., Walsh, B. M., Fiedor Hamilton, M., Gawel, M., Kant, S., Janofsky, S., Brown, L. L., Walls, et al  
2023
  - **A second-generation artificial intelligence-based therapeutic regimen improves diuretic resistance in heart failure: Results of a feasibility open-labeled clinical trial.** *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*  
Gelman, R., Hurvitz, N., Nesserat, R., Kolben, Y., Nachman, D., Jamil, K., Agus, S., Asleh, R., Amir, O., Berg, M., Ilan, Y.  
2023; 161: 114334
  - **FEASIBILITY TRIAL OF ADAPTIVE ELECTRONIC LEARNING FOR PEDIATRIC HEALTHCARE WORKERS IN TANZANIA**  
Smith, Z., Hokororo, A., Masenge, T., Mwanga, J., Kalabamu, S., Berg, M., Rozenfeld, B., Xwatsal, E., Pastory, N., Msoke, I., Ndosu, H., Chami, N., Mkopi, et al  
LIPPINCOTT WILLIAMS & WILKINS.2023: 423
  - **CHEST COMPRESSION RELEASE VELOCITY AND ASSOCIATED CLINICAL OUTCOMES IN PEDIATRIC CARDIAC ARREST**  
Rappold, T., Jennifer, H., Niles, D., Zhang Xuemi, Griffis, H., Silver, A., Berg, M., Sutton, R., Wolfe, H., Raymond, T., Nadkarni, V.  
LIPPINCOTT WILLIAMS & WILKINS.2023: 18
  - **A Subject-Tailored Variability-Based Platform for Overcoming the Plateau Effect in Sports Training: A Narrative Review.** *International journal of environmental research and public health*  
Gelman, R., Berg, M., Ilan, Y.  
2022; 19 (3)
  - **A digital health platform for assisting the diagnosis and monitoring of COVID-19 progression: An adjuvant approach for augmenting the antiviral response and mitigating the immune-mediated target organ damage.** *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*  
Ishay, Y., Potruch, A., Schwartz, A., Berg, M., Jamil, K., Agus, S., Ilan, Y.  
2021; 143: 112228
  - **Maintaining Social Distancing: Video and Just-in-Time In Situ Simulation During the COVID-19 Pandemic.** *Simulation in healthcare : journal of the Society for Simulation in Healthcare*  
Han, P. K., Fayazi, A. R., Wiryawan, B., Berg, M. D.  
2021
  - **PhewWe Got the Kid BackNow What?: Understanding Risk Factors Which Contribute to In-Hospital Pediatric Recurrent Cardiac Arrest.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*  
Haileselassie, B., Su, F., Berg, M.  
2020; 21 (11): 1012–13
  - **Improving Pediatric Readiness in General Emergency Departments: A Prospective Interventional Study.** *The Journal of pediatrics*

- Abulebda, K., Whitfill, T., Montgomery, E. E., Thomas, A., Dudas, R. A., Leung, J. S., Scherzer, D. J., Aberesold, M., Van Ittersum, W. L., Kant, S., Walls, T. A., Sessa, A. K., Janofsky, et al  
2020
- **Improved survival to hospital discharge in pediatric in-hospital cardiac arrest using 2 Joules/kilogram as first defibrillation dose for initial pulseless ventricular arrhythmia.** *Resuscitation*  
Hoyme, D. B., Zhou, Y., Girotra, S., Haskell, S. E., Samson, R. A., Meaney, P., Berg, M., Nadkarni, V. M., Berg, R. A., Hazinski, M. F., Lasa, J. J., Atkins, D. L.  
2020
  - **Characteristics of Pediatric Extracorporeal Membrane Oxygenation Programs in the United States and Canada.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*  
Troy, L. n., Su, F. n., Kilbaugh, T. n., Rasmussen, L. n., Kuo, T. n., Jett, E. n., Cornell, T. n., Berg, M. n., Haileselassie, B. n.  
2020
  - **2019 American Heart Association Focused Update on Pediatric Advanced Life Support An Update to the American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care** *CIRCULATION*  
Duff, J. P., Topjian, A. A., Berg, M. D., Chan, M., Haskell, S. E., Joyner, B. L., Lasa, J. J., Ley, S., Raymond, T. T., Sutton, R., Hazinski, M., Atkins, D. L.  
2019; 140 (24): E904–E914
  - **2019 American Heart Association Focused Update on Pediatric Basic Life Support An Update to the American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care** *CIRCULATION*  
Duff, J. P., Topjian, A. A., Berg, M. D., Chan, M., Haskell, S. E., Joyner, B. L., Lasa, J. J., Ley, S., Raymond, T. T., Sutton, R., Hazinski, M., Atkins, D. L.  
2019; 140 (24): E915–E921
  - **Near Miss in Intraoperative Magnetic Resonance Imaging: A Case for In Situ Simulation.** *Pediatric quality & safety*  
Rama, A., Knight, L. J., Berg, M., Chen, M., Gonzales, R., Delhagen, T., Copperman, L., Caruso, T. J.  
2019; 4 (6): e222
  - **The Runaway Croup Train: Off the Pathway and Through the Woods.** *Hospital pediatrics*  
Weatherly, J. n., Song, Y. n., Meister, K. n., Berg, M. n.  
2019
  - **INFRASTRUCTURE AND PRACTICE CHARACTERISTICS OF PEDIATRIC ECMO PROGRAMS ACROSS NORTH AMERICA**  
Troy, L., Su, F., Berg, M., Rasmussen, L., Kuo, T., Jett, E., Jacobs, K., Haileselassie, B.  
LIPPINCOTT WILLIAMS & WILKINS.2019
  - **Healthcare Provider Perceptions of Cardiopulmonary Resuscitation Quality During Simulation Training.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*  
Troy, L. n., Knight, L. n., Olson, M. n., Chen, M. n., Gonzales, R. n., Berg, M. n., Su, F. n.  
2019
  - **2018 American Heart Association Focused Update on Pediatric Advanced Life Support: An Update to the American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care** *CIRCULATION*  
Duff, J. P., Topjian, A., Berg, M. D., Chan, M., Haskell, S. E., Joyner, B. L., Lasa, J. J., Ley, S. J., Raymond, T. T., Sutton, R. M., Hazinski, M., Atkins, D. L.  
2018; 138 (23): E731–E739
  - **Accuracy of Team Perception of Performance With Actual CPR Quality Metrics in Children**  
Knight, L., Sweberg, T., Mullan, P., Sen, A., Braga, M., Jani, P., Su, F., Balikai, S., Kessler, D., Roberts, J., Donoghue, A., Wenger, J., Niles, et al  
LIPPINCOTT WILLIAMS & WILKINS.2018
  - **Characterization of Pediatric In-Hospital Cardiopulmonary Resuscitation Quality Metrics Across an International Resuscitation Collaborative** *PEDIATRIC CRITICAL CARE MEDICINE*  
Niles, D. E., Duval-Arnould, J., Skellett, S., Knight, L., Su, F., Raymond, T. T., Sweberg, T., Sen, A. I., Atkins, D. L., Friess, S. H., de Caen, A. R., Kurosawa, H., Sutton, et al  
2018; 19 (5): 421–32
  - **QUANTITATIVE DIFFUSION-WEIGHTED MRI PREDICTS OUTCOMES IN SURVIVORS OF PEDIATRIC CARDIAC ARREST**  
Yacoub, M., Birchansky, B., Mlynash, M., Berg, M., Knight, L., Hirsch, K., Su, F.

