

DIGEST #4 • APRILE 2022

ARTICOLI SULLA SIMULAZIONE PEDIATRICA PUBBLICATI A MARZO 2022

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MADE IN ITALY

Atzori B, Vagnoli L, Graziani D, Hoffman HG, Sampaio M, Alhalabi W, et al.

An Exploratory Study on the Effectiveness of Virtual Reality Analgesia for Children and Adolescents with Kidney Diseases Undergoing Venipuncture. *Int J Environ Res Public Health.* 2022;19(4).

- Available from: <https://doi.org/10.3390/ijerph19042291>

Beani E, Filogna S, Martini G, Barzacchi V, Ferrari A, Guidi E, et al.

Application of Virtual Reality Rehabilitation System for the assessment of postural control while standing in typical children and peers with neurodevelopmental disorders. *Gait Posture.* 2022;92:364-70.

- Available from: <https://doi.org/10.1016/j.gaitpost.2021.12.008>

Errante A, Saviola D, Cantoni M, Iannuzzelli K, Ziccarelli S, Togni F, et al.

Effectiveness of action observation therapy based on virtual reality technology in the motor rehabilitation of paretic stroke patients: a randomized clinical trial. *BMC Neurol.* 2022;22(1):109.

- Available from: <https://doi.org/10.1186/s12883-022-02640-2>

OPEN ACCESS

Ali S, Rajagopal M, Stinson J, Ma K, Vandermeer B, Felkar B, et al.

Virtual reality-based distraction for intravenous insertion-related distress in children: a study protocol for a randomised controlled trial. *BMJ Open.* 2022;12(3):e057892.

- Available from: <https://doi.org/10.1136/bmjopen-2021-057892>

Bayoumi MAA, Elmalik EE, Ali H, D'Souza S, Furigay J, Romo A, et al.

Neonatal Simulation Program: A 5 Years Educational Journey From Qatar. *Front Pediatr.* 2022 Apr 7;10.

- Available from: <https://www.frontiersin.org/article/10.3389/fped.2022.843147>

Besharat A, Imsdahl SI, Yamagami M, Nhan N, Bellatin O, Burden SA, et al.

Virtual reality doorway and hallway environments alter gait kinematics in people with Parkinson disease and freezing. *Gait Posture.* 2022;92:442-8.

- Available from: <https://doi.org/10.1016/j.gaitpost.2021.12.013>

Chang C, Perlman J, Abramson E.

Use of a Novel Manikin for Neonatal Resuscitation Ventilation Training. *Children.* 2022;9(3):364.

- Available from: <https://doi.org/10.3390/children9030364>

Cicero MX, Baird J, Adelgais K, Brown L, Auerbach M.

Emergency Medical Services Provider Acceptance of and Attitudes About Pediatric SimBox Simulations. *Pediatr Emerg Care.* 2022.

- Available from: <https://doi.org/10.1097/PEC.0000000000002678>

Fielding N, Latour JM, Kelsey J.

Experiences of Paediatric End-of-Life Simulation in Undergraduate Children's Nursing Students: A Qualitative Study.

Clin Simul Nurs. 2022;65:18-25.

- Available from: <https://doi.org/10.1016/j.ecns.2022.01.003>

Goharnejad S, Goharnejad S, Hajesmaeel-Gohari S, Bahaadinbeigy K.

The usefulness of virtual, augmented, and mixed reality technologies in the diagnosis and treatment of attention deficit hyperactivity disorder in children: an overview of relevant studies. BMC Psychiatry. 2022;22(1):4.

- Available from: <https://doi.org/10.1186/s12888-021-03632-1>

Hossain MB, Mosquera L, Karim ME.

Analysis approaches to address treatment nonadherence in pragmatic trials with point-treatment settings: a simulation study. BMC Med Res Methodol. 2022;22(1):46.

- Available from: <https://doi.org/10.1186/s12874-022-01518-8>

Hu Y, Zheng B, Zhu L, Tang S, Lu Q, Song Q, et al.

The effectiveness of emergency knowledge training of pediatric medical workers based on the knowledge, skills, simulation model: a quasi-experimental study. BMC Med Educ. 2022;22(1):213.

- Available from: <https://bmcmmededuc.biomedcentral.com/articles/10.1186/s12909-022-03267-0>

Kalra A, Siju M, Jenny A, Spindler H, Madriz S, Baayd J, et al.

Super Divya to the rescue! Exploring Nurse Mentor Supervisor perceptions on a digital tool to support learning and engagement for simulation educators in Bihar, India. BMC Med Educ. 2022;22(1):206.

- Available from: <https://doi.org/10.1186/s12909-022-03270-5>

Lyman K.

Implementation of a virtual escape room mock code to comply with social distancing. Nurse Educ Today. 2022;110:105273.

- Available from: <https://doi.org/10.1016/j.nedt.2022.105273>

Maloney CE, Burns R, Hartford E, von Saint Andre-von Arnim A, Foohey S, Kailemia M, et al.

International Pediatric Emergency Medicine and Critical Care Fellow Education: Utilizing Virtual Resuscitation Simulation in Settings With Differing Resources. Cureus. 2022;14(2):e21991.

- Available from: <https://doi.org/10.7759/cureus.21991>

Manomaisaowapak P, Songsiri J.

Joint learning of multiple Granger causal networks via non-convex regularizations: Inference of group-level brain connectivity. Neural Netw. 2022;149:157-71.

- Available from: <https://doi.org/10.1016/j.neunet.2022.02.005>

Marschalek J, Kuessel L, Stammler-Safar M, Kiss H, Ott J, Husslein H.

Comparison of a practice-based versus theory-based training program for conducting vacuum-assisted deliveries: a randomized-controlled trial. Arch Gynecol Obstet. 2022;305(2):365-72.

- Available from: <https://doi.org/10.1007/s00404-021-06159-8>

McKinley KW, Rickard KNZ, Latif F, Wavra T, Berg J, Morrison S, et al.

Impact of Universal Suicide Risk Screening in a Pediatric Emergency Department: A Discrete Event Simulation Approach. Healthc Inform Res. 2022;28(1):25-34.

- Available from: <https://doi.org/10.4258/hir.2022.28.1.25>

Mendes MD, Ogata JFM, Sanudo A, Prestes ACY, Conzi MF, Kawakami MD, et al.

Acquisition of Behavioral Skills After Manikin-Based Simulation of Neonatal Resuscitation by Fellows in Neonatology. Am J Perinatol. 2022.

- Available from: <https://doi.org/10.1055/a-1793-8024>

Muhsen WS, Marshall-Roberts R.

Simulation-guided preparations for the management of suspected or confirmed COVID-19 cases in the obstetric emergency theater. J Matern Fetal Neonatal Med. 2022;35(9):1801-4.

- Available from: <https://doi.org/10.1080/14767058.2020.1765333>

Parikh P, Samraj R, Ogbeifun H, Sumbel L, Brimager K, Alhendy M, et al.

Simulation-Based Training in High-Quality Cardiopulmonary Resuscitation Among Neonatal Intensive Care Unit Providers. Front Pediatr. 2022;10:808992.

- Available from: <https://doi.org/10.3389/fped.2022.808992>

Pearl MC, Madariaga MC, Blum C, Lynch B, Komatsu DE, Barsi J.

Clubfoot Cast Simulation Using Pressure Sensors: A Novel Way to Teach the Ponseti Method. J Surg Educ. 2022;79(1):237-42.

- Available from: <https://doi.org/10.1016/j.jsurg.2021.08.019>

Phan TN, Prakash KJ, Elliott R-JS, Pasupuleti A, Gaillard WD, Keating RF, et al.

Virtual reality-based 3-dimensional localization of stereotactic EEG (SEEG) depth electrodes and related brain anatomy in pediatric epilepsy surgery. *Childs Nerv Syst.* 2022;38(3):537-46.

- Available from: <https://doi.org/10.1007/s00381-021-05403-5>

Sandhu T, Szyld EG, Anderson MP, Shah BA.

Effect of rotating providers on chest compression performance during simulated neonatal cardiopulmonary resuscitation. *PLoS One.* 2022;17(3):e0265072.

- Available from: <https://doi.org/10.1371/journal.pone.0265072>

Wang N, Abdul Rahman MN, Lim B-H.

Teaching and Curriculum of the Preschool Physical Education Major Direction in Colleges and Universities under Virtual Reality Technology. *Comput Intell Neurosci.* 2022;2022:3250986.

- Available from: <https://doi.org/10.1155/2022/3250986>

Yuknis ML, Abulebda K, Whitfill T, Pearson KJ, Montgomery EE, Auerbach MA.

Improving Emergency Preparedness in Pediatric Primary Care Offices: A Simulation-Based Interventional Study. *Acad Pediatr.* 2022;S1876-2859(22)00184-X.

- Available from: <https://doi.org/10.1016/j.acap.2022.03.018>

Yun W-G, Youn JK, Ko D, Yeom I, Joo H-J, Kong H-J, et al.

Tele-consent using mixed reality glasses (NREAL) in pediatric inguinal herniorrhaphy: a preliminary study. *Sci Rep.* 2022;12(1):3105.

- Available from: <https://doi.org/10.1038/s41598-022-06653-2>

ACCESSO A PAGAMENTO/TRAMITE ABBONAMENTO ISTITUZIONALE

Harwayne-Gidansky I, Askin G, Fein DM, McNamara C, Duncan E, Delaney K, et al.

Effectiveness of a Simulation Curriculum on Clinical Application: A Randomized Educational Trial. *Simul Healthc.* 2022;17(2):71-7.

- Available from: <https://doi.org/10.1097/SIH.0000000000000598>

Hong N, Kim J-J, Kwon J-H, Eom H, Kim E.

Effect of Distractors on Sustained Attention and Hyperactivity in Youth With Attention Deficit Hyperactivity Disorder Using a Mobile Virtual Reality School Program. *J Atten Disord.* 2022;26(3):358-69.

- Available from: <https://doi.org/10.1177/1087054720986229>

Ingleson H, Hunter A.

Blended learning: Maintaining clinical placements for child nursing students during the COVID-19 pandemic. *Br J Child Heal.* 2022;3(1):15-21.

- Available from: <https://doi.org/10.12968/chhe.2022.3.1.15>

Morato TMR, Mendes PHM, Ghosn DSNB, Couto TB, Mai PVF, Farhat SCL, et al.

Teaching medical students to choose wisely through simulation. *Eur J Pediatr.* 2022;181(3):1125-31.

- Available from: <https://doi.org/10.1007/s00431-021-04305-7>

Munneke AG, Lumens J, Delhaas T.

Cardiovascular fetal-to-neonatal transition: an in silico model. *Pediatr Res.* 2022;91(1):116-28.

- Available from: <https://doi.org/10.1038/s41390-021-01401-0>

Nataraja RM, Oo YM, Ljuhar D, Pacilli M, Win NN, Stevens S, et al.

Long-Term Impact of a Low-Cost Paediatric Intussusception Air Enema Reduction Simulation-Based Education Programme in a Low-Middle Income Country. *World J Surg.* 2022;46(2):310-21.

- Available from: <https://doi.org/10.1007/s00268-021-06345-4>

Uyan ZS, Atag E, Ergenekon AP, Gokdemir Y, Gokler O, Ay P, et al.

Efficacy of standardized tracheostomy training with a simulation model for healthcare providers: A study by ISPAT team. *Pediatr Pulmonol.* 2022;57(2):418-26.

- Available from: <https://doi.org/10.1002/ppul.25772>

Wooldridge AR, Ramadhani WA, Hanson K, Vazquez-Melendez E, Kendhari H, Shaikh N, et al.

Walking the line: balancing performance barriers and facilitators in an augmented reality mobile application for paediatric code cart training. *Ergonomics.* 2022;65(3):334-47.

- Available from: <https://doi.org/10.1080/00140139.2021.1954685>