



Daniel Tawfik

Assistant Professor of Pediatrics (Critical Care)

Pediatrics - Critical Care

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Pediatric Intensive Care**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Affiliations:

Pediatrics / Critical Care Medicine

Pediatrics / Clinical Informatics

CLINICAL FOCUS

- Pediatric Critical Care Medicine

ACADEMIC APPOINTMENTS

- Assistant Professor - University Medical Line, Pediatrics - Critical Care
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Residency: University of Utah School of Medicine (2014) UT
- Fellowship: Stanford University Division of PCCM (2017) CA
- Board Certification: Pediatrics, American Board of Pediatrics (2014)
- Board Certification: Pediatric Critical Care Medicine, American Board of Pediatrics (2018)
- Medical Education: University of Iowa Carver College of Medicine (2011) IA

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The Tawfik lab studies the use of electronic health record metadata in identifying structures and processes that promote high quality healthcare. Our projects apply advanced analytical methods to large databases of primarily structured electronic health record data and EHR usage metadata.

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Health Services Research (Masters Program)
- Pediatric Critical Care Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **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., Ndosi, 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
- **Unit-based Pathways to Reduce Inequities for families speaking languages other than English (UPRISE).** *Hospital pediatrics*
Magana-Soto, J. N., Ruiz, M. O., Tawfik, D. S., Rey-Ardila, D., Bonillas, A., Persoglia-Bell, M., Su, F., Anand, K. J.
2024
- **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., Ndosi, 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
- **"WISER" intervention to reduce healthcare worker burnout - 1 year follow up.** *Journal of perinatology : official journal of the California Perinatal Association*
Profit, J., Cui, X., Tawfik, D., Adair, K. C., Sexton, J. B.
2024
- **Predicting Primary Care Physician Burnout From Electronic Health Record Use Measures.** *Mayo Clinic proceedings*
Tawfik, D., Bayati, M., Liu, J., Nguyen, L., Sinha, A., Kannampallil, T., Shanafelt, T., Profit, J.
2024
- **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
- **EXCESS DAILY BLOOD COUNT SAMPLING IN CHILDREN: A PICU DATA COLLABORATIVE STUDY**
Shah, S., Dziorny, A., Flynn, A., Aczon, M., Farris, R., Horvat, C., Tawfik, D., Bennett, T., Cornell, T., Nishisaki, A., Kennedy, C., Sanchez-Pinto, L., Wetzel, et al
LIPPINCOTT WILLIAMS & WILKINS.2024
- **Altered profiles of extracellular mitochondrial DNA in immunoparalyzed pediatric patients after thermal injury.** *Shock (Augusta, Ga.)*
Tetri, L. H., Penatzer, J. A., Tsegay, K. B., Tawfik, D. S., Burk, S., Lopez, I., Thakkar, R. K., Haileselassie, B.
2023
- **Prevalence of burnout and its relation to the neuroendocrine system among pediatric residents during the early Covid-19 pandemic: A pilot feasibility study.** *Comprehensive psychoneuroendocrinology*
Tawfik, D. S., Rovnaghi, C., Profit, J., Cornell, T. T., Anand, K. J.
2023; 14: 100174
- **Performance of a Provider-Assigned Functional Outcome Score in Critically Ill Children.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Wilson, N. E., Su, F., DaCar, A., Chang, N., Kapphahn, K., Schroeder, A. R., Tawfik, D. S., Knight, L., Rasmussen, L.
2023

- **Assessing Leadership Behavior in Health Care: Introducing the Local Leadership Scale of the SCORE Survey** *JOINT COMMISSION JOURNAL ON QUALITY AND PATIENT SAFETY*
Adair, K. C., Levoy, E., Tawfik, D. S., Palassof, S., Profit, J., Frankel, A., Leonard, M., Proulx, J., Sexton, B.
2023; 49 (3): 166-173
- **Leadership Behavior Associations with Domains of Safety Culture, Engagement, and Health Care Worker Well-Being** *JOINT COMMISSION JOURNAL ON QUALITY AND PATIENT SAFETY*
Tawfik, D. S., Adair, K. C., Palassof, S., Sexton, B. J., Levoy, E., Frankel, A., Leonard, M., Proulx, J., Profit, J.
2023; 49 (3): 156-165
- **Creating Conversion Factors from EHR Event Log Data: A Comparison of Investigator-Derived and Vendor-Derived Metrics for Primary Care Physicians.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*
Magon, H. S., Helkey, D., Shanafelt, T., Tawfik, D.
2023; 2023: 1115-1124
- **MEASURING ASSOCIATIONS BETWEEN ELECTRONIC HEALTH RECORD USE AND INPATIENT PEDIATRIC PROVIDER BURNOUT**
Stevens, L., Su, F., Pageler, N., Tawfik, D., Sinha, A.
LIPPINCOTT WILLIAMS & WILKINS.2023: 40
- **Prediction of Difficult Laryngoscopy Using Ultrasound: A Systematic Review and Meta-Analysis.** *Critical care medicine*
Bhargava, V., Rockwell, N. A., Tawfik, D., Haileselassie, B., Petrisor, C., Su, E.
2023; 51 (1): 117-126
- **Physician Health and Wellness.** *Pediatrics*
McClafferty, H. H., Hubbard, D. K., Foradori, D., Brown, M. L., Profit, J., Tawfik, D. S., SECTION ON INTEGRATIVE MEDICINE, SECTION ON INTEGRATIVE MEDICINE, Brown, M. L., Breuner, C. C., Esparham, A., Gold, M. A., Misra, S. M., Morris, et al
2022
- **Evolution of Thromboelastography Parameters During Pediatric Liver Transplantation**
Damian, M. I., Tawfik, D., Mendoza, J., Gallo, A., Esquivel, C.
LIPPINCOTT WILLIAMS & WILKINS.2022: S452-S453
- **EHR USABILITY AND BARRIERS TO EFFICIENT INFORMATION GATHERING ON THE EHR IN THE PICU: CURRENT STATE**
Sinha, A., Tawfik, D., Steffen, K.
LIPPINCOTT WILLIAMS & WILKINS.2022: 640
- **Effectiveness of a bite-sized web-based intervention to improve healthcare worker wellbeing: A randomized clinical trial of WISER.** *Frontiers in public health*
Sexton, J. B., Adair, K. C., Cui, X., Tawfik, D. S., Profit, J.
2022; 10: 1016407
- **Laryngeal Ultrasound Detects Vocal Fold Immobility in Adults: A Systematic Review.** *Journal of ultrasound in medicine : official journal of the American Institute of Ultrasound in Medicine*
Su, E., Hamilton, C., Tawfik, D. S., Mariano, K., Ginsburg, S., Conlon, T., Vetten, A., Fernandez, E., Wong, K., Sidell, D. R., Haileselassie, B., Pediatric Research Collaborative for Critical Ultrasound
2021
- **Contributions of Systolic and Diastolic Blood Pressures to Cardiovascular Outcomes in the ALLHAT Study.** *Journal of the American College of Cardiology*
Itoga, N. K., Tawfik, D. S., Montez-Rath, M. E., Chang, T. I.
2021; 78 (17): 1671-1678
- **Randomized controlled trial of the "WISER" intervention to reduce healthcare worker burnout.** *Journal of perinatology : official journal of the California Perinatal Association*
Profit, J., Adair, K. C., Cui, X., Mitchell, B., Brandon, D., Tawfik, D. S., Rigdon, J., Gould, J. B., Lee, H. C., Timpson, W. L., McCaffrey, M. J., Davis, A. S., Pammi, et al
2021
- **Randomized controlled trial of the "WISER" intervention to reduce healthcare worker burnout** *JOURNAL OF PERINATOLOGY*
Profit, J., Adair, K. C., Cui, X., Mitchell, B., Brandon, D., Tawfik, D. S., Rigdon, J., Gould, J. B., Lee, H. C., Timpson, W. L., McCaffrey, M. J., Davis, A. S., Pammi, et al
2021

- **Frustration With Technology and its Relation to Emotional Exhaustion Among Health Care Workers: Cross-sectional Observational Study.** *Journal of medical Internet research*
Tawfik, D. S., Sinha, A., Bayati, M., Adair, K. C., Shanafelt, T. D., Sexton, J. B., Profit, J.
2021; 23 (7): e26817
- **Personal and Professional Factors Associated With Work-Life Integration Among US Physicians.** *JAMA network open*
Tawfik, D. S., Shanafelt, T. D., Dyrbye, L. N., Sinsky, C. A., West, C. P., Davis, A. S., Su, F., Adair, K. C., Trockel, M. T., Profit, J., Sexton, J. B.
2021; 4 (5): e2111575
- **Maternal and neonatal health care worker well-being and patient safety climate amid the COVID-19 pandemic.** *Journal of perinatology : official journal of the California Perinatal Association*
Haidari, E., Main, E. K., Cui, X., Cape, V., Tawfik, D. S., Adair, K. C., Sexton, B. J., Profit, J.
2021
- **Assessment of Vocal Cord Motion Using Laryngeal Ultrasound in Children: A Systematic Review and Meta-Analysis.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Hamilton, C. E., Su, E. n., Tawfik, D. n., Fernandez, E. n., Vetten, A. n., Conlon, T. n., Ginsburg, S. n., Mariano, K. n., Sidell, D. n., Haileselassie, B. n.
2021
- **Pain Assessment and Management in Pediatric Intensive Care Units Around the World, an International, Multicenter Study.** *Frontiers in pediatrics*
Grunauer, M., Mikesell, C., Bustamante, G., Cobo, G., Sánchez, S., Román, A. M., Icaza-Freire, A. P., Gavilanes, A. W., Wang, N. E.
2021; 9: 746489
- **Measuring Electronic Health Record Use in the Pediatric ICU Using Audit-Logs and Screen Recordings.** *Applied clinical informatics*
Sinha, A., Stevens, L. A., Su, F., Pageler, N. M., Tawfik, D. S.
2021; 12 (4): 737-744
- **PEDIATRIC ICU ELECTRONIC HEALTH RECORD USAGE AS MEASURED BY AUDIT LOGS AND SCREEN RECORDINGS**
Sinha, A., Stevens, L., Su, F., Pageler, N., Tawfik, D.
LIPPINCOTT WILLIAMS & WILKINS.2021: 156
- **The Correlation Between Neonatal Intensive Care Unit Safety Culture and Quality of Care** *JOURNAL OF PATIENT SAFETY*
Profit, J., Sharek, P. J., Cui, X., Nisbet, C. C., Thomas, E. J., Tawfik, D. S., Lee, H. C., Draper, D., Sexton, J.
2020; 16 (4): E310–E316
- **Changing safety culture.** *Journal of perinatology : official journal of the California Perinatal Association*
Ravi, D., Tawfik, D. S., Sexton, J. B., Profit, J.
2020
- **Provider burnout: Implications for our perinatal patients.** *Seminars in perinatology*
Tawfik, D. S., Profit, J.
2020: 151243
- **Health and Economic Outcomes of Posterior Spinal Fusion for Children With Neuromuscular Scoliosis.** *Hospital pediatrics*
Lin, J. L., Tawfik, D. S., Gupta, R., Inrie, M., Bendavid, E., Owens, D. K.
2020
- **Ultrasonographic Optic Nerve Sheath Diameter Measurement to Detect Intracranial Hypertension in Children With Neurological Injury: A Systematic Review.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
Bhargava, V. n., Tawfik, D. n., Tan, Y. J., Dunbar, T. n., Haileselassie, B. n., Su, E. n.
2020
- **Organizational factors affecting physician well-being.** *Current treatment options in pediatrics*
Tawfik, D. S., Profit, J., Webber, S., Shanafelt, T. D.
2019; 5 (1): 11–25
- **Perinatal Risk Factors and Outcome Coding in Clinical and Administrative Databases.** *Pediatrics*
Tawfik, D. S., Gould, J. B., Profit, J.
2019

- **Development and use of an adjusted nurse staffing metric in the neonatal intensive care unit.** *Health services research*
Tawfik, D. S., Profit, J. n., Lake, E. T., Liu, J. B., Sanders, L. M., Phibbs, C. S.
2019
- **Safety climate, safety climate strength, and length of stay in the NICU.** *BMC health services research*
Tawfik, D. S., Thomas, E. J., Vogus, T. J., Liu, J. B., Sharek, P. J., Nisbet, C. C., Lee, H. C., Sexton, J. B., Profit, J. n.
2019; 19 (1): 738
- **Evidence Relating Health Care Provider Burnout and Quality of Care: A Systematic Review and Meta-analysis.** *Annals of internal medicine*
Tawfik, D. S., Scheid, A. n., Profit, J. n., Shanafelt, T. n., Trockel, M. n., Adair, K. C., Sexton, J. B., Ioannidis, J. P.
2019
- **The Correlation Between Neonatal Intensive Care Unit Safety Culture and Quality of Care.** *Journal of patient safety*
Profit, J., Sharek, P. J., Cui, X., Nisbet, C. C., Thomas, E. J., Tawfik, D. S., Lee, H. C., Draper, D., Sexton, J. B.
2018
- **Physician Burnout, Well-being, and Work Unit Safety Grades in Relationship to Reported Medical Errors.** *Mayo Clinic proceedings*
Tawfik, D. S., Profit, J., Morgenthaler, T. I., Satele, D. V., Sinsky, C. A., Dyrbye, L. N., Tutty, M. A., West, C. P., Shanafelt, T. D.
2018
- **Association of Blood Pressure Measurements with Peripheral Arterial Disease Events: A Reanalysis of the ALLHAT Data.** *Circulation*
Itoga, N. K., Tawfik, D. S., Lee, C. K., Maruyama, S., Leeper, N. J., Chang, T. I.
2018
- **Group A Streptococcal Pyomyositis in a Previously Healthy Six-year-old Girl.** *Cureus*
Tawfik, D., Hobson, W. L.
2018; 10 (2): e2168
- **Context in Quality of Care: Improving Teamwork and Resilience.** *Clinics in perinatology*
Tawfik, D. S., Sexton, J. B., Adair, K. C., Kaplan, H. C., Profit, J.
2017; 44 (3): 541-552
- **Factors Associated With Provider Burnout in the NICU** *PEDIATRICS*
Tawfik, D. S., Phibbs, C. S., Sexton, J. B., Kan, P., Sharek, P. J., Nisbet, C. C., Rigdon, J., Trockel, M., Profit, J.
2017; 139 (5)
- **Teamwork in the NICU Setting and Its Association with Health Care-Associated Infections in Very Low-Birth-Weight Infants.** *American journal of perinatology*
Profit, J., Sharek, P. J., Kan, P., Rigdon, J., Desai, M., Nisbet, C. C., Tawfik, D. S., Thomas, E. J., Lee, H. C., Sexton, J. B.
2017
- **Burnout in the neonatal intensive care unit and its relation to healthcare-associated infections.** *Journal of perinatology*
Tawfik, D. S., Sexton, J. B., Kan, P., Sharek, P. J., Nisbet, C. C., Rigdon, J., Lee, H. C., Profit, J.
2017; 37 (3): 315-320
- **Near-Fatal Gastrointestinal Hemorrhage in a Child with Medulloblastoma on High Dose Dexamethasone.** *Cureus*
Yecies, D. n., Tawfik, D. n., Damman, J. n., Thorson, C. n., Hong, D. S., Grant, G. A., Bensen, R. n., Damian, M. n.
2017; 9 (7): e1442