



## Jonathan P. Palma

Clinical Professor, Medicine - Biomedical Informatics Research

### Bio

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#### ACADEMIC APPOINTMENTS

- Clinical Professor, Medicine - Biomedical Informatics Research

#### ADMINISTRATIVE APPOINTMENTS

- Medical Director, Clinical Informatics Innovation, Lucile Packard Children's Hospital Stanford, (2016- present)
- Associate Program Director, Clinical Informatics Fellowship, Stanford University School of Medicine, (2019- present)
- Program Director, Clinical Informatics Fellowship, Stanford University School of Medicine, (2015-2019)
- Medical Director, Clinical Informatics Analytics, Lucile Packard Children's Hospital Stanford, (2012-2015)
- Associate Program Director, Clinical Informatics Fellowship, Stanford University School of Medicine, (2014-2015)
- Associate Medical Director, Clinical Informatics, Lucile Packard Children's Hospital, (2009-2009)
- Physician Lead, Neonatal Informatics, Lucile Packard Children's Hospital, (2008-2008)

#### HONORS AND AWARDS

- Alpha Omega Alpha Medical Honor Society, University of Florida College of Medicine (2004)
- Gold Humanism Honor Society, University of Florida College of Medicine, Chapman Chapter (2004)
- Pediatric Clerkship Honor Roll for Teaching Excellence, Stanford University School of Medicine (2006, 2008)
- First Place, Innovate 4 Healthcare Challenge, Johnson & Johnson; University of Maryland School of Business (2012)
- Award of Excellence for Information Optimization, Hewlett Packard/Autonomy (2014)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Chair, Epic Neonatology Steering Board (2019 - present)
- Member, AMIA Community of Clinical Informatics Program Directors (CCIPD) (2015 - present)
- Member, AAP Council on Clinical Information Technology (COCIT) (2015 - present)
- Stanford Designated Representative, AMIA Academic Forum (2015 - 2019)
- Member, Epic Neonatology Steering Board (2012 - present)
- Member, American Medical Informatics Association (AMIA) (2009 - present)
- Member, Association of Medical Directors of Information Systems (AMDIS) (2009 - present)
- Fellow, American Academy of Pediatrics (AAP); Perinatal Section Member (2005 - present)

## PROFESSIONAL EDUCATION

- MS, Biomedical Informatics , Stanford University School of Medicine (2012)
- BS, Biology, Chemistry , Davidson College (2000)

## LINKS

- Stanford Clinical Informatics Fellowship: <http://systemsmedicine.stanford.edu/education/CI-Fellowship.html>
- Google Scholar Profile: <http://scholar.google.com/citations?user=IEAqmf0AAAAJ>
- LinkedIn Profile: <http://www.linkedin.com/in/jonpalma>
- Doximity Profile: <https://www.doximity.com/cv/jonpalma>
- Twitter Profile: <https://twitter.com/jonpalma>
- US News Profile: <http://health.usnews.com/doctors/jonathan-palma-652024>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

I'm a Clinical Professor of Pediatrics in the Division of Neonatal and Developmental Medicine at Stanford University. In addition to my clinical role in newborn intensive care, I have an administrative appointment as Medical Director of Clinical Informatics at Stanford Children's Health. I completed a Master's in Biomedical Informatics at Stanford, became board certified in Clinical Informatics with the inaugural class in 2013, and serve as Associate Program Director for the Stanford Clinical Informatics Fellowship program.

My clinical informatics efforts focus on optimizing electronic workflows for neonatology providers, and my academic interests include interventional informatics to achieve examples of a learning healthcare system. I also enjoy applying technologies such as text and predictive analytics to hospital data to enhance the quality and safety of healthcare.

I attended Davidson College and graduated cum laude from the University of Florida College of Medicine, then completed clinical training in pediatrics and neonatal-perinatal medicine at Lucile Packard Children's Hospital Stanford. During residency and fellowship my scholarly work was optimizing EMRs for neonatal care, and my Master's research was mining clinical data to predict the development of disease.

### PROJECTS

- Clinical Informatics Fellowship - Stanford University Medical Center

## Teaching

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### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Masters Program)
- Biomedical Informatics (Phd Program)
- Clinical Informatics (Fellowship Program)
- Neonatal-Perinatal Medicine (Fellowship Program)

## Publications

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### PUBLICATIONS

- **Early experiences with combined fellowship training in clinical informatics.** *Journal of the American Medical Informatics Association : JAMIA*  
Palma, J. P., Hron, J. D., Luberti, A. A.

2020

- **Clinical decision support tool for phototherapy initiation in preterm infants.** *Journal of perinatology : official journal of the California Perinatal Association*  
Arain, Y. n., Banda, J. M., Faulkenberry, J. n., Bhutani, V. K., Palma, J. P.  
2020
- **Development of a Web - Based Decision Support Tool to Operationalize and Optimize Management of Hyperbilirubinemia in Preterm Infants** *CLINICS IN PERINATOLOGY*  
Palma, J. P., Arain, Y. H.  
2016; 43 (2): 375-?
- **Red Blood Cell Transfusion Is Not Associated with Necrotizing Enterocolitis: A Review of Consecutive Transfusions in a Tertiary Neonatal Intensive Care Unit** *JOURNAL OF PEDIATRICS*  
Wallenstein, M. B., Arain, Y. H., Birnie, K. L., Andrews, J., Palma, J. P., Benitz, W. E., Chock, V. Y.  
2014; 165 (4): 678-682
- **Impact of electronic medical record integration of a handoff tool on sign-out in a newborn intensive care unit** *JOURNAL OF PERINATOLOGY*  
Palma, J. P., Sharek, P. J., Longhurst, C. A.  
2011; 31 (5): 311-317
- **Designing a bed-side system for predicting length of stay in a neonatal intensive care unit.** *Scientific reports*  
Singh, H., Cho, S. J., Gupta, S., Kaur, R., Sunidhi, S., Saluja, S., Pandey, A. K., Bennett, M. V., Lee, H. C., Das, R., Palma, J., McAdams, R. M., Kaur, et al  
2021; 11 (1): 3342
- **Machine Learning-Based Automatic Classification of Video Recorded Neonatal Manipulations and Associated Physiological Parameters: A Feasibility Study.** *Children (Basel, Switzerland)*  
Singh, H., Kusuda, S., McAdams, R. M., Gupta, S., Kalra, J., Kaur, R., Das, R., Anand, S., Kumar Pandey, A., Cho, S. J., Saluja, S., Boutilier, J. J., Saria, et al  
2020; 8 (1)
- **Development of data dictionary for neonatal intensive care unit: advancement towards a better critical care unit.** *JAMIA open*  
Singh, H., Kaur, R., Saluja, S., Cho, S. J., Kaur, A., Pandey, A. K., Gupta, S., Das, R., Kumar, P., Palma, J., Yadav, G., Sun, Y.  
2020; 3 (1): 21–30
- **Your Patient Has a New Health App? Start With Its Data Source.** *Journal of participatory medicine*  
Morse, K. E., Schremp, J., Pageler, N. M., Palma, J. P.  
2019; 11 (2): e14288
- **Neo-Bedside monitoring Device for Integrated Neonatal Intensive Care Unit (iNICU)** *IEEE ACCESS*  
Singh, H., Kaur, R., Gangadharan, A., Pandey, A., Manur, A., Sun, Y., Saluja, S., Gupta, S., Palma, J. P., Kumar, P.  
2019; 7: 7803–13
- **Prenatal treatment of ornithine transcarbamylase deficiency.** *Molecular genetics and metabolism*  
Wilnai, Y. n., Blumenfeld, Y. J., Cusmano, K. n., Hintz, S. R., Alcorn, D. n., Benitz, W. E., Berquist, W. E., Bernstein, J. A., Castillo, R. O., Concepcion, W. n., Cowan, T. M., Cox, K. L., Lyell, et al  
2018
- **Characteristics of the National Applicant Pool for Clinical Informatics Fellowships (2016-2017).** *AMIA ... Annual Symposium proceedings. AMIA Symposium*  
Dell, D. S., Baldwin, K., Bell, E. J., Lehmann, C. U., Webber, E. C., Mohan, V., Leu, M. G., Hofmann, J. M., Kaelber, D. C., Landman, A. B., Hron, J., Silverman, H. D., Levy, et al  
2018; 2018: 225–31
- **Changing Management of the Patent Ductus Arteriosus: Effect on Neonatal Outcomes and Resource Utilization.** *American journal of perinatology*  
Chock, V. Y., Goel, V. V., Palma, J. P., Luh, T. M., Wang, N. A., Gaskari, S., Pun, R., Silverman, N. H., Benitz, W. E.  
2017
- **Health information exchange policies of 11 diverse health systems and the associated impact on volume of exchange.** *Journal of the American Medical Informatics Association*  
Downing, N. L., Adler-Milstein, J., Palma, J. P., Lane, S., Eisenberg, M., Sharp, C., Longhurst, C. A.  
2017; 24 (1): 113-122
- **Safety Analysis of Proposed Data-Driven Physiologic Alarm Parameters for Hospitalized Children** *JOURNAL OF HOSPITAL MEDICINE*

- Goel, V. V., Poole, S. F., Longhurst, C. A., Platchek, T. S., Pageler, N. M., Sharek, P. J., Palma, J. P.  
2016; 11 (12): 817-823
- **Early experiences of accredited clinical informatics fellowships.** *Journal of the American Medical Informatics Association*  
Longhurst, C. A., Pageler, N. M., Palma, J. P., Finnell, J. T., Levy, B. P., Yackel, T. R., Mohan, V., Hersh, W. R.  
2016; 23 (4): 829-834
  - **Failed endotracheal intubation and adverse outcomes among extremely low birth weight infants.** *Journal of perinatology*  
Wallenstein, M. B., Birnie, K. L., Arain, Y. H., Yang, W., Yamada, N. K., Huffman, L. C., Palma, J. P., Chock, V. Y., Shaw, G. M., Stevenson, D. K.  
2016; 36 (2): 112-115
  - **Case 1: Lactic Acidosis and Respiratory Distress in a 10-Day-Old Infant.** *NeoReviews*  
Wallenstein, M. B., Olson, K., Peng, D. M., Stevenson, D. K., Shaw, G. M., Palma, J. P., Bain, L. C.  
2015; 16 (7): e431-e433
  - **An Exponential Increase in Regional Health Information Exchange With Collaborative Policies and Technologies.** *Studies in health technology and informatics*  
Downing, N. L., Lane, S., Eisenberg, M., Sharp, C., Palma, J., Longhurst, C.  
2015; 216: 931-?
  - **Implementation of Data Drive Heart Rate and Respiratory Rate parameters on a Pediatric Acute Care Unit.** *Studies in health technology and informatics*  
Goel, V., Poole, S., Kipps, A., Palma, J., Platchek, T., Pageler, N., Longhurst, C., Sharek, P.  
2015; 216: 918-?
  - **Red blood cell transfusion is not associated with necrotizing enterocolitis: a review of consecutive transfusions in a tertiary neonatal intensive care unit.** *journal of pediatrics*  
Wallenstein, M. B., Arain, Y. H., Birnie, K. L., Andrews, J., Palma, J. P., Benitz, W. E., Chock, V. Y.  
2014; 165 (4): 678-682
  - **Pulmonary hypertensive crisis following ethanol sclerotherapy for a complex vascular malformation.** *Journal of perinatology*  
Cordero-Schmidt, G., Wallenstein, M. B., Ozen, M., Shah, N. A., Jackson, E., Hovsepian, D. M., Palma, J. P.  
2014; 34 (9): 713-715
  - **Anti-Ge3 causes late-onset hemolytic disease of the newborn: the fourth case in three Hispanic families.** *Transfusion*  
Pate, L. L., Myers, J. C., Palma, J. P., Viele, M., Galel, S. A., Ferrer, Z., Gonzalez, C. L., Benitz, W. E., Garratty, G., Fontaine, M. J.  
2013; 53 (10): 2152-2157
  - **Immunization registries in the EMR Era.** *Online journal of public health informatics*  
Stevens, L. A., Palma, J. P., Pandher, K. K., Longhurst, C. A.  
2013; 5 (2): 211-?
  - **Using an Evidence-Based Approach to EMR Implementation to Optimize Outcomes and Avoid Unintended Consequences.** *Journal of healthcare information management : JHIM*  
Longhurst, C. A., Palma, J. P., Grisim, L. M., Widen, E., Chan, M., Sharek, P. J.  
2013; 27 (3): 79-83
  - **Impact of an EMR-Based Daily Patient Update Letter on Communication and Parent Engagement in a Neonatal Intensive Care Unit.** *Journal of participatory medicine*  
Palma, J. P., Keller, H., Godin, M., Wayman, K., Cohen, R. S., Rhine, W. D., Longhurst, C. A.  
2012; 4
  - **Neonatal Informatics: Transforming Neonatal Care Through Translational Bioinformatics.** *NeoReviews*  
Palma, J. P., Benitz, W. E., Tarczy-Hornoch, P., Butte, A. J., Longhurst, C. A.  
2012; 13 (5): e281-e284
  - **Neonatal Informatics: Optimizing Clinical Data Entry and Display.** *NeoReviews*  
Palma, J. P., Brown, P. J., Lehmann, C. U., Longhurst, C. A.  
2012; 13 (2): 81-85
  - **Neonatal Informatics: Computerized Physician Order Entry.** *NeoReviews*  
Palma, J. P., Sharek, P. J., Classen, D. C., Longhurst, C. A.

2011; 12: 393-396

- **Neonatal Informatics: Information Technology to Support Handoffs in Neonatal Care.** *NeoReviews*  
Palma, J. P., Van Eaton, E. G., Longhurst, C. A.  
2011; 2011 (12)