

Ram Duriseti, M.D., Ph.D.
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Educational Background:

Engineering:

- **9/01-5/07:** Doctoral degree from the Stanford University School of Engineering with a concentration in Decision/Risk Analysis, Machine Learning, and Clinical Decision Support. Coursework included Decision and Risk Analysis, Probability and Statistical Inference, Bayesian Networks, Machine Learning, Computer Science, and Clinical Informatics. Funded through a VA Medical Informatics Fellowship.
 - Computing Background: C++, Java, Matlab, C, Ruby On Rails, Javascript and HTML with Ajax, Drools (JBoss Rules Engine), controlled medical terminology deployment (IMO services, SNOMED-CT, RxNorm, and other UMLS resources), Apelon server deployment, LISP, PostgreSQL, MySQL, JBoss application server, UNIX environment, Visual Basic (Excel Modules), Git, Subversion and Mercurial version control, R including visualization tools, Python

Medical and Undergraduate:

- **11/97-11/2001:** Residency training in Emergency Medicine at Stanford Medical Center.
- **5/96:** M.D. with highest honors, University of Michigan Medical School
- **6/92:** B.S. in Biology, and B.A in Political Economy, with distinction Stanford University.

Select Relevant Employment Experience:

11/00 – Present: Clinical Associate Professor, Stanford Emergency Department. Contacts: Dr. Bernard Dannenberg and Dr. Matthew Strehlow. Numbers available upon request.

3/01- Present: Mills Peninsula Emergency Medical Associates shareholder. President and CEO until 6/2017

6/08 – Present: Founder, CEO, and Product Engineer (principle algorithm and product design architect) for ShiftRx, L.L.C. ShiftRx provides the ShiftGen service that provides a cloud-based enterprise workforce management tool. Key elements: machine learning algorithms, schedule optimization, workforce management, revenue cycle management with payroll integration, Java, Ruby on Rails, MySQL, SaaS on ec2.

10/08 – Present: Special consultant and subject matter expert to Sutter Health for Epic EHR implementation. Provided technical design for the billing extracts to migrate clinical information into a file sharing framework for billing companies supporting Sutter Emergency Medicine groups. Contacts: Multiple. Numbers available upon request.

4/15 – 3/2017: CEO and subsequently CTO and CMO of LifeQode Inc. which provides the Lifesquare product. Helped craft and secure 4 different patents, with continuations, around the central business processes for the product. Contacts: Larry Leisure and Steve Shulman. Numbers available upon request.

7/09 – 10/09: Technical consultant to Rise Health, Inc. Contacts: Eric Langshur, Forrest Claypool, and Inder-Jeet Gujral. Numbers available upon request.

1/07 – 9/08: Chief Medical Officer and Director of Medical Informatics for Enfold, Inc. Responsibilities include design and implementation of intelligent medical functionality and a

taxonomy engine as well as oversight of medical content driving the system. Implementation details: Java, Ruby on Rails, Drools, Apelon Server, Oracle 10g Database, MySQL. Contacts: Inder-jeet Gujral, Kimberly Higgins-Mays. Numbers are available upon request.

10/06 – 3/08: Medical Informatics Director Working Group Stanford University Hospitals and Clinics CIS Initiative. Particular emphasis on handheld technology integration into the Epic Initiative and organizing patient encounter level reportable data on clinical documentation events. Contacts: Kevin Tabb, President, and CEO Beth Israel Deaconess Medical Center. Contact information is available upon request.

6/05 – 12/06: Design and implementation of an attribute matching expert system in Java as a consultant to Wellnet Inc. Implemented in a Java environment with Hibernate DBMS and MySQL. Contacts: Kimberly Higgins-Mays. Number available upon request.

Select Research Experience:

7/11-Present: Design and implementation of a computational model for stochastic stimulation of the cost-effectiveness of various strategies to diagnose pediatric appendicitis (manuscript in progress).

10/05-Present: Design and implementation of an asymmetric cost Support Vector Machine to evaluate a large clinical database on chest pain patients presenting to the University of Pennsylvania Hospital Emergency Department (manuscript in progress).

09/02-9/04: Medical Informatics Fellow, Palo Alto Veteran's Administration Hospital.

04/03-Present: Development of Bayesian decision network for evaluation of the clinical utility of the quantitative Vidas ELISA Ddimer Assay. Published work listed.

02/04-Present: Bayesian decision network implementation modeling reasoning in the clinical domain of chest pain and associated pathology in the Emergency Department.

6/05-3/06: Using portable digital devices to generate a standard electronic medical record that can be downloaded directly to a relational database to facilitate data mining for prospective clinical research.

11/99 – 4/00: Retrospective chart review to examine the incidence of electrolyte and cardiac enzyme abnormalities in patients presenting to the Stanford Emergency Department with Supraventricular Tachycardia.

Select Administrative Experience:

6/09 – Present: CEO and Founder of ShiftRx, LLC

6/09 – Present: Regional Information Services Steering Committee for Sutter Health

6/08 – 6/18: President of CEO of Mills Peninsula Emergency Medical Associates

9/12 – 3/17: Acting CMO and CEO of Lifesquare, Inc.

6/07 – 9/08: Chief Medical Officer and Director of Medical Informatics at Enfold, Inc.

5/05-9/08: Member of Medical Informatics Director Working Group and RFP phase of evaluation for the Epic initiative at Stanford University Hospitals and Clinics

4/05-6/06: Served on the Mills-Peninsula Health Information Management and Medical Records Committee.

Current Volunteer Activities

3/22 – Present: Board of Director of Restore Childhood which is a non-profit focused on research initiatives quantifying risks to children in schools in the 'COVID Era'. The goals are

both legal and scientific. The scientific goal is to generate novel research and support mitigation measures that are both effective and maintain in person education.

12/21 – Present: Co-author of Urgency of Normal. We are a group of physicians focused on collating and presenting data as it pertains to children and COVID. We help facilitate safe school openings.

7/22 – 1/2023: Co-author for Norfolk Group documents to assess COVID-19 pandemic policy and response to guide COVID-19 Commissions: <https://www.norfolkgroup.org/>

Guest Lecturer at the Wharton School of Business (University of Pennsylvania)

2007/2008/2009 for health economics and information technology course

Select Honors and Distinctions:

- Guest Lecturer at the Wharton School of Business (University of Pennsylvania) 2007/2008/2009 for health economics and information technology course
- VA Medical Informatics Fellowship
- Alpha Omega Alpha Medical Honor Society
- Graduation with Distinction from the University of Michigan Medical School (top 5%)
- Recommended for Graduation with Distinction from Stanford University
- National Merit Scholarship Recipient
- Telluride Foundation Fellow

Select Papers and Publications (Manuscripts in Progress marked as such):

Bourdon, P.S., Duriseti, R., Gromoll, HC, Dalton, DK, Bardosh K., Krug, A.E. “A Reanalysis of the FDA's Benefit-Risk Assessment of Moderna's mRNA-1273 COVID Vaccine: For 18-25-Year-Old Males, Risks Exceeded Benefits Relative to Hospitalizations”; Preprint with submission in progress. October 2024

Sandlund, J., Duriseti, R., Ladhani, S., Stuart, K., Noble, J., Beth-Hoeg, T. “Face Masks and Protection Against COVID-19 and Other Viral Respiratory Tract Infections: Assessment of Benefits and Harms in Children”, Paediatric Respiratory Reviews 2024

• Hoffman S., Nielsen S., Thyssen S., Duriseti R., Stabell Benn C. “Overall Health Effects of mRNA COVID-19 Vaccines in Children and Adolescents: A Systematic Review and Meta-Analysis”; <https://doi.org/10.1101/2023.12.07.23298573>

• Beth-Hoeg T., Duriseti, R., Prasad VP. “Evidence of Healthy Vaccinee Bias in a Clalit Health Pfizer BNT-162b2 Study”; New England Journal of Medicine, July 20th, 2023; 389: 284-286 (<https://www.nejm.org/doi/full/10.1056/NEJMc2306683>)

• Beth-Hoeg T., Duriseti, R., Prasad VP. “Residual Confounding and Falsification Endpoints in Observational Studies of Vaccine Effectiveness: A Case Study of the Clalit Health Services in Israel” (submission in progress)

• Chandra, A., Beth-Hoeg T., Duriseti, R., Ladhani, S., Prasad VP. “School mask mandates and COVID-19: A Re-analysis and methodological critique of a retrospective observational study

from Massachusetts, USA”, *Annals of Internal Medicine* 2024. Pre-print:
<https://arxiv.org/abs/2307.11974>

- Haltigan, JD, Colvys, Kim, Duriseti, R. “Reanalysis of the Bangladesh Mask RCT with Generalizability Theory and Monte Carlo Simulation” (manuscript in progress)
- “Impact of Pre-Omicron COVID-19 Infection Burden on Disease Burden During Omicron Dominant Variants” (manuscript in progress – multiple authors and a county health authority)
- Pieris, S., Leung R., Peterson, S., Yarusevych, S., Duriseti, R. “Efficacy of Surgical Masks and N95 masks on Filtration of Sub-Micron Aerosols” (submitted for publication)
- Sandlund, J., Duriseti, R., Ladhani, S., Stuart, K., Noble, J., Beth-Hoeg, T. “Child mask mandates for SARS-CoV-2: a systematic review”; *Archives of Disease in Childhood* 02 December 2023. doi: 10.1136/archdischild-2023-326215
- Bhattacharya, J, Beinin, L, Duriseti, R., Beth-Hoeg, T., Makary, M., Kuldorff, M., Smelkinson, M., Templeton, S. “Questions for a COVID-19 Commission”: <https://www.norfolkgroup.org/>
- “Analysis of Economic Support Measures by Industry During COVID-19 Mitigation Measures, Economic Research Institute of University of Ljubljana, Slovenia, Senior author Velimir Bole, PhD (manuscript in progress – multiple authors)
- Vidal, C., Holland, E, Duriseti, R. “School closures: The trigger point in the decline in pediatric mental health outcomes during the COVID-19 pandemic”. *Journal of the Canadian Academy of Child and Adolescent Psychiatry*; 2023; 32:2
- Lowe, T., Brown, I., Duriseti, R. “Emergency Department Access During COVID-19: Disparities in Utilization by Race/Ethnicity, Insurance, and Income”, *Western Journal of Emergency Medicine*; April, 2021
- Menon, A. S., Greenwald, S., Ma, T. J., Kooshesh, S., Duriseti, R. “Patient and Physician Willingness to Use Personal Health Records in the Emergency Department”. *Western Journal of Emergency medicine*; 2012; 13 (2): 172–75
- Duriseti, R., Brandeau M. “Cost-Effectiveness of Strategies for Diagnosing Pulmonary Embolism Among Emergency Department Patients Presenting with Undifferentiated Symptoms”, *Annals of Emergency Medicine*; October, 2010
- Duriseti, R., Wu, T. “Gastrointestinal introduction and abdominal pain – Pediatric Abdominal Pain in the Emergency Department”, *A Practical Guide to Pediatric Emergency Medicine*, Cambridge University Press, Cambridge, 2010
- Duriseti, R. “Musculoskeletal Trauma: fractures”, *A Practical Guide to Pediatric Emergency Medicine*, Cambridge University Press, Cambridge, 2010

- Duriseti, R. “Using Influence Diagrams in Cost Effectiveness Analysis for Medical Decisions”, Optimization in Biology and Medicine, Auerbach Press, New York, 2008
- Duriseti, R. “Non-Bayesian Classification to Obtain High Quality Clinical Decisions”, Optimization in Biology and Medicine, Auerbach Press, New York, 2008
- Duriseti, R., Shachter R., Brandeau M. “Implications of a Sequential Decision Model on the Use of Quantitative D-Dimer Assays in the Diagnosis of Pulmonary Embolism”, *Academic Emergency Medicine*; July, 2006
- Duriseti R, VanderVlugt T. Paroxysmal supraventricular tachycardia is not associated with clinically significant coronary ischemia. *ACEP Abstracts. ACEP Scientific Assembly 10/2001*
- VanderVlugt T., Duriseti R. Electrolyte findings in patients with paroxysmal supraventricular tachycardia. *ACEP Abstracts. ACEP Scientific Assembly 10/2001*
- Contributing Editor for Trauma Reports for the topic, “Trauma in Pregnancy”; published 2/2001
- Duriseti R. Cost Effective Management of Common Infections in the Emergency Department. Resident Reporter. Wyeth Ayerst Resident Scholars Program. March, 2000

Select Professional Lectures and Expert Engagements:

- Commonly Encountered Statistical Concepts in the Emergency Medicine Literature
- Medical Decision Making, Clinical Information Systems, and Cost Control: Complexity Collides with Uncertainty
- Elijah Brown, et al. v. Mills-Peninsula, et al., No. CIV536321 (Cal. Super. Ct. County of San Mateo 2015)
- Julia Sullivan v. The Superior Court of Santa Clara, No. 18FL001837 (Cal. Super. Ct. County of Santa Clara 2018)
- UNIFYSCC, et al. v. Sara H. Cody, et al., No. 22-cv-01019-BLF (N.D. Cal. 2022)
- Vincent Tsai, et al. v. County of Los Angeles, No. 21STCV36298 (Cal. Super. Ct. Los Angeles County 2021)
- Jennifer Guilfoyle et al. v. Austin Beutner et al., No. 2:2021-cv-05009-VAP (C.D. Cal. 2021)
- State of Missouri and Eric Schmitt vs. Columbia Public Schools January 2022
- Montana Nurses Association vs. Austin Knudsen September 2022
- Toro v. the City of San Diego October 2022
- Calvary Church of San Jose v. Gavin Newsom, Santa Clara County, Cindy Chavez, Sara H. Cody, MD, Joe Simitian, Santa Clara Board of Supervisors November 2022
- Barbara Andreas, Stephen J Cribb, and Adam Pajer vs The Walt Disney Company and Disney Parks, Experiences, And Products, Inc. January 2023
- United States v. Keith Lawrence Middlebrook, 20-cr-00229-DSF May 2024
- Unify v. Santa Clara County June 2024
- Rock Dunbar v Twentieth Century Fox November 2024