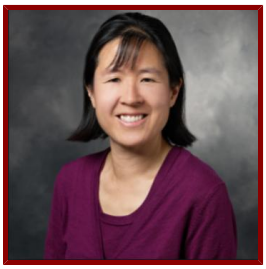
Stanford



Lisa Shieh, MD, PhD

Clinical Professor, Medicine

CLINICAL OFFICE (PRIMARY)

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Bio

CLINICAL FOCUS

- Internal Medicine

ACADEMIC APPOINTMENTS

- Clinical Professor, Medicine
- Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)

ADMINISTRATIVE APPOINTMENTS

- Hospitalist, Division of GIM, Stanford University, (1999- present)
- Medical Director, B3/C3 Inpatient Unit, Stanford Healthcare, (2006- present)
- Medical Director for Quality, Department of Medicine, Stanford University School of Medicine, (2011- present)

HONORS AND AWARDS

- Fellowship, National Science Foundation Fellowship (1989-1992)
- Fellowship, Tau Beta Pi Engineering Fellowship (1989)
- Fellowship, DuPont Fellowship in Chemical Engineering (1989)
- Most Outstanding Senior Women in Engineering, Purdue University (1989)
- Purdue Alumni Foundation Award, Purdue University (1989)
- Purdue Outstanding Chemical Engineering Senior, Purdue University (1989)
- Award for Service and Leadership, Omega Chi Epsilon (1989)

PROFESSIONAL EDUCATION

- Residency: Stanford University Internal Medicine Residency (1999) CA
- Medical Education: Harvard Medical School (1996) MA
- Board Certification: Internal Medicine, American Board of Internal Medicine (1999)
- Residency, Stanford Univ Medical Center , Internal Medicine (1999)

- MD, Harvard University , Medicine (1996)
- PhD, MIT , Medical Engineering (1995)
- BS, Purdue University , Chemical Engineering (1989)

Teaching

COURSES

2026-27

- Elective in Quality Improvement, Patient Safety, and Organizational Change: MED 344A (Spr)
- Principles and Practice of Healthcare Quality Improvement: MED 210 (Aut, Win)
- Stanford Health Consulting Group - Core: MED 279 (Aut, Win, Spr)
- Stanford Health Consulting Group- Leadership: MED 278 (Aut, Win, Spr)

2025-26

- Elective in Quality Improvement, Patient Safety, and Organizational Change: MED 344A (Win, Spr)
- Principles and Practice of Healthcare Quality Improvement: MED 210 (Aut, Win)
- Stanford Health Consulting Group - Core: MED 279 (Aut, Win, Spr)
- Stanford Health Consulting Group- Leadership: MED 278 (Aut, Win, Spr)

2024-25

- Elective in Quality Improvement, Patient Safety, and Organizational Change: MED 344A (Win, Spr)
- Principles and Practice of Healthcare Quality Improvement: MED 210 (Aut, Win)
- Stanford Health Consulting Group - Core: MED 279 (Aut, Win, Spr)
- Stanford Health Consulting Group- Leadership: MED 278 (Aut, Win, Spr)

2023-24

- Elective in Quality Improvement, Patient Safety, and Organizational Change: MED 344A (Win, Spr, Sum)
- Principles and Practice of Healthcare Quality Improvement: MED 210 (Aut, Win)
- Stanford Health Consulting Group - Core: MED 279 (Aut, Win, Spr)
- Stanford Health Consulting Group- Leadership: MED 278 (Aut, Win, Spr)

STANFORD ADVISEES

Med Scholar Project Advisor

Muzzammil Ahmadzada, Elise Cai

Publications

PUBLICATIONS

- **Artificial Intelligence-Assisted Opportunistic Computed Tomography for Steatotic Liver Disease Detection and Association with Cardiovascular and Mortality Outcomes in Adults with Cardiometabolic Risk** *American Heart Association (AHA) Scientific Sessions*
  Derry, L. T., et al
  2026
- **Quality improvement project to reduce medicare 1-day write-offs due to inappropriate admission orders.** *BMC health services research*
  Oke, O., Sullivan, K. M., Hom, J., Svec, D., Weng, Y., Shieh, L.
  2024; 24 (1): 204

- **Development and Initial Performance of the Hospital Mental Health Risk Screen.** *Journal of the American College of Surgeons*
  Carlson, E. B., Palmieri, P. A., Barlow, M. R., Macia, K., Bruns, B. R., Shieh, L., Spain, D. A.
  2023
- **A Large Language Model Screening Tool to Target Patients for Best Practice Alerts: Development and Validation.** *JMIR medical informatics*
  Savage, T., Wang, J., Shieh, L.
  2023; 11: e49886
- **Lessons Learned from a Multi-Site, Team-Based Serious Illness Care Program Implementation at an Academic Medical Center.** *Journal of palliative medicine*
  Seevaratnam, B., Wang, S., Fong, R., Hui, F., Callahan, A., Chobot, S., Gensheimer, M. F., Li, R. C., Nguyen, D., Ramchandran, K., Shah, N. H., Shieh, L., Zeng, et al
  2023
- **How Many Lives Will You Save? A Mixed Methods Evaluation of a Novel, Online Game for Patient Safety and Quality Improvement Education.** *American journal of medical quality : the official journal of the American College of Medical Quality*
  Ruiz Colon, G., Evans, K., Kanzawa, M., Phadke, A., Katznelson, L., Shieh, L.
  2023
- **Mental health symptoms are comparable in patients hospitalized with acute illness and patients hospitalized with injury.** *PloS one*
  Carlson, E. B., Shieh, L., Barlow, M. R., Palmieri, P. A., Yen, F., Mellman, T. A., Williams, M., Williams, M. Y., Chandran, M., Spain, D. A.
  2023; 18 (9): e0286563
- **Healthcare-Associated Clostridioides difficile Infection: Learning the Perspectives of Healthcare Workers to Build Successful Strategies.** *American journal of infection control*
  Lev, V., Anbarchian, T., Yao, H., Bhat, A., Britt, P., Shieh, L.
  2023
- **Examining Diversity in Digital Therapeutics Clinical Trials: Descriptive Analysis.** *Journal of medical Internet research*
  Adu-Brimpong, J., Pugh, J., Darko, D. A., Shieh, L.
  2023; 25: e37447
- **Prospective pilot study of the Three Good Things positive psychology intervention in short-term stay hospitalised patients.** *Postgraduate medical journal*
  Zehner, N., Polding, L., Faraci Sindra, V., Shieh, L.
  2023; 99 (1170): 302-307
- **Care to Share? Patients in Private Rooms Are More Likely to Recommend a Hospital to Others.** *Journal of patient experience*
  Atsavapranee, E., Heidenreich, P., Smith-Bentley, M., Vyas, A., Shieh, L.
  2023; 10: 23743735231158250
- **Implementation and evaluation of an elective quality improvement curriculum for preclinical students: a prospective controlled study.** *BMC medical education*
  Aredo, J. V., Ding, J. B., Lai, C. H., Trimble, R., Bromley-Dulfano, R. A., Popat, R. A., Shieh, L.
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- **Targeting Repetitive Laboratory Testing with Electronic Health Records-Embedded Predictive Decision Support: A Pre-Implementation Study.** *Clinical biochemistry*
  Rabbani, N., Ma, S. P., Li, R. C., Winget, M., Weber, S., Boosi, S., Pham, T. D., Svec, D., Shieh, L., Chen, J. H.
  2023
- **Development and Initial Performance of a Hospital Mental Health Risk Screen**
  Spain, D. A., Palmieri, P. A., Shieh, L., Bruns, B. R., Williams, M., Carlson, E. B.
  LIPPINCOTT WILLIAMS & WILKINS.2022: S43
- **Explaining emergency physicians' capacity to recover from interruptions.** *Applied ergonomics*
  Falkland, E. C., Wiggins, M. W., Douglas, H., Sturman, D., Auton, J. C., Shieh, L., Westbrook, J. I.
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- **Racial/ethnic differences in acute and longer-term posttraumatic symptoms following traumatic injury or illness.** *Psychological medicine*
  Cruz-Gonzalez, M., Alegria, M., Palmieri, P. A., Spain, D. A., Barlow, M. R., Shieh, L., Williams, M., Srirangam, P., Carlson, E. B.

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- **Prospective pilot study of the Three Good Things positive psychology intervention in short-term stay hospitalised patients.** *Postgraduate medical journal*
  Zehner, N., Polding, L., Faraci Sindra, V., Shieh, L.
  2022

- **Prospective pilot study of the Three Good Things positive psychology intervention in short-term stay hospitalised patients.** *Postgraduate medical journal*
  Zehner, N., Polding, L., Faraci Sindra, V., Shieh, L.
  2022

- **Patient Perspectives of Inpatient Telemedicine During COVID-19: A Qualitative Assessment.** *JMIR formative research*
  Vilendrer, S., Sackeyfio, S., Akinbami, E., Ghosh, R., Luu, J. H., Pathak, D., Shimada, M., Williamson, E. E., Shieh, L.
  2022

- **Considerations in the reliability and fairness audits of predictive models for advance care planning** *Frontiers in Digital Health*
  Lu, J., Sattler, A., Wang, S., Khaki, A. R., Callahan, A., Fleming, S., Fong, R., Ehlert, B., Li, R., Shieh, L., Ramchandran, K., Gensheimer, M., Chobot, et al
  2022: 943768

- **Assessment of level of care recommendations and nursing acuity scores following an appropriateness of care intervention** *BMJ Open Quality*
  Ruiz Colon, G., Sullivan, K., Albaniel, M., Britt, P., Shieh, L.
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- **Learning by Doing: Practical Strategies to Integrate Resident Education and Quality Improvement Initiatives.** *Journal of graduate medical education*
  Clemo, R., Parsons, A. S., Boggan, J. C., Shieh, L., Miller, B. P.
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- **How is mobile health technology transforming physician-nurse collaboration?** *Internal medicine journal*
  Dongmo Fotsing, L. N., Pang, E. M., Shieh, L.
  2021; 51 (9): 1522-1525

- **Predicting and Responding to Clinical Deterioration in Hospitalized Patients by Using Artificial Intelligence: Protocol for a Mixed Methods, Stepped Wedge Study.** *JMIR research protocols*
  Holdsworth, L. M., Kling, S. M., Smith, M., Safaeinili, N., Shieh, L., Vilendrer, S., Garvert, D. W., Winget, M., Asch, S. M., Li, R. C.
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- **A randomized study of a best practice alert for platelet transfusions.** *Vox sanguinis*
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- **Inpatient telemedicine implementation as an infection control response to COVID-19: A qualitative process evaluation.** *JMIR formative research*
  Safaeinili, N., Vilendrer, S., Williamson, E., Zhao, Z., Brown-Johnson, C., Asch, S. M., Shieh, L.
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- **Physicians Leading Physicians: A Physician Engagement Intervention Decreases Inappropriate Use of IICU Level of Care Accommodations.** *American journal of medical quality : the official journal of the American College of Medical Quality*
  Ruiz Colón, G. n., Yang, J. n., Svec, D. n., Heidenreich, P. n., Britt, P. n., Smith, M. n., Sharp, C. n., Shieh, L. n.
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  Kumar, A., Aikens, R. C., Hom, J., Shieh, L., Chiang, J., Morales, D., Saini, D., Musen, M., Baiocchi, M., Altman, R., Goldstein, M. K., Asch, S., Chen, et al
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- **Reducing Phlebotomy in Hemodialysis Patients: AQuality Improvement Study.** *Kidney medicine*
  McCoy, I. E., Shieh, L., Fatehi, P.

2020; 2 (4): 432–36

- **A minimalist electronic health record-based intervention to reduce standing lab utilisation.** *Postgraduate medical journal*
  Chin, K., Krishnamurthy, A., Zubair, T., Ramaswamy, T., Hom, J., Maggio, P., Shieh, L.
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- **Assessment of a Real-Time Locator System to Identify Physician and Nurse Work Locations.** *JAMA network open*
  Li, R. C., Marafino, B. J., Nielsen, D., Baiocchi, M., Shieh, L.
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- **CHRONICLING CALORIES: THE CASE OF IMPROVING THE MISSED-DOCUMENTATION OF MALNUTRITION**
  Vengalasetti, Y., Horn, J., Joseph, M., Shieh, L.
  BMJ PUBLISHING GROUP.2020: 501
- **E-HeaRT BPA: electronic health record telemetry BPA.** *Postgraduate medical journal*
  Chin, K. K., Svec, D. n., Leung, B. n., Sharp, C. n., Shieh, L. n.
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- **Physician Usage and Acceptance of a Machine Learning Recommender System for Simulated Clinical Order Entry.** *AMIA Joint Summits on Translational Science proceedings. AMIA Joint Summits on Translational Science*
  Chiang, J., Kumar, A., Morales, D., Saini, D., Hom, J., Shieh, L., Musen, M., Goldstein, M. K., Chen, J. H.
  2020; 2020: 89–97
- **Multicenter validation of a machine-learning algorithm for 48-h all-cause mortality prediction.** *Health informatics journal*
  Mohamadlou, H., Panchavati, S., Calvert, J., Lynn-Palevsky, A., Le, S., Allen, A., Pellegrini, E., Green-Saxena, A., Barton, C., Fletcher, G., Shieh, L., Stark, P. B., Chettipally, et al
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- **Characteristics and Financial Impact of Potentially Inappropriate Platelet Transfusion in the Inpatient Hospital Setting**
  Mou, E., Murphy, C., Hom, J., Shieh, L., Shah, N.
  AMER SOC HEMATOLOGY.2019
- **Characteristics of Academic Physicians Associated With Patient Satisfaction** *AMERICAN JOURNAL OF MEDICAL QUALITY*
  Heidenreich, P., Shieh, L., Fassiotto, M., Kahn, J., Weinacker, A., Smith, R., Trockel, M., Shanafelt, T., Palaniappan, L.
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- **Electronic health record-based clinical decision support alert for severe sepsis: a randomised evaluation** *BMJ QUALITY & SAFETY*
  Downing, N., Rolnick, J., Poole, S. F., Hall, E., Wessels, A. J., Heidenreich, P., Shieh, L.
  2019; 28 (9): 762–68
- **Reducing Telemetry Use Is Safe: A Retrospective Analysis of Rapid Response Team and Code Events After a Successful Intervention to Reduce Telemetry Use** *AMERICAN JOURNAL OF MEDICAL QUALITY*
  Xie, L., Garg, T., Svec, D., Hom, J., Kaimal, R., Ahuja, N., Barnes, J., Shieh, L.
  2019; 34 (4): 398–401
- **How Much Time are Physicians and Nurses Spending Together at the Patient Bedside?** *Journal of hospital medicine*
  Sang, A. X., Tisdale, R. L., Nielsen, D., Loica-Mersa, S., Miller, T., Chong, I., Shieh, L.
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- **Electronic health record-based clinical decision support alert for severe sepsis: a randomised evaluation.** *BMJ quality & safety*
  Downing, N. L., Rolnick, J., Poole, S. F., Hall, E., Wessels, A. J., Heidenreich, P., Shieh, L.
  2019
- **An Evaluation of Barriers to Inpatient Medication Allergy Documentation**
  Chollet, M. B., Shieh, L., Liu, A. Y.
  MOSBY-ELSEVIER.2019: AB280
- **Waiting it out: consultation delays prolong in-patient length of stay.** *Postgraduate medical journal*
  Rahman, A. S., Shi, S., Meza, P. K., Jia, J. L., Svec, D., Shieh, L.
  2019

- **Patient vs provider perspectives of 30-day hospital readmissions.** *BMJ open quality*
  Smeraglio, A., Heidenreich, P. A., Krishnan, G., Hopkins, J., Chen, J., Shieh, L.
  2019; 8 (1): e000264
- **Patient vs provider perspectives of 30-day hospital readmissions** *BMJ OPEN QUALITY*
  Smeraglio, A., Heidenreich, P. A., Krishnan, G., Hopkins, J., Chen, J., Shieh, L.
  2019; 8 (1)
- **An Electronic Best Practice Alert Based on Choosing Wisely Guidelines Reduces Thrombophilia Testing in the Outpatient Setting** *JOURNAL OF GENERAL INTERNAL MEDICINE*
  Jun, T., Kwang, H., Mou, E., Berube, C., Bentley, J., Shieh, L., Hom, J.
  2019; 34 (1): 29-30
- **Thrombophilia testing in the inpatient setting: impact of an educational intervention.** *BMC medical informatics and decision making*
  Kwang, H. n., Mou, E. n., Richman, I. n., Kumar, A. n., Berube, C. n., Kaimal, R. n., Ahuja, N. n., Harman, S. n., Johnson, T. n., Shah, N. n., Witteles, R. n., Harrington, R. n., Shieh, et al
  2019; 19 (1): 167
- **Waiting it out: Consultation delays prolong in-patient length of stay** *Postgraduate Medical Journal*
  Rahman, A. S., Shi, S., Meza, P. K., Jia, J. L., Svec, D., Shieh, L.
  2019
- **Analysis of a Potential Automated Sepsis Alert Based on Quick Sequential Organ Failure Assessment (qSOFA) Among Hospitalized Floor Patients**
  Swenson, K., Rogers, A., Krishnan, G., Shieh, L.
  AMER THORACIC SOC.2019
- **A long wait: barriers to discharge for long length of stay patients.** *Postgraduate medical journal*
  Zhao, E. J., Yeluru, A., Manjunath, L., Zhong, L. R., Hsu, H., Lee, C. K., Wong, A. C., Abramian, M., Manella, H., Svec, D., Shieh, L.
  2018
- **Reducing Telemetry Use Is Safe: A Retrospective Analysis of Rapid Response Team and Code Events After a Successful Intervention to Reduce Telemetry Use.** *American journal of medical quality : the official journal of the American College of Medical Quality*
  Xie, L., Garg, T., Svec, D., Hom, J., Kaimal, R., Ahuja, N., Barnes, J., Shieh, L.
  2018: 1062860618805189
- **A long wait: barriers to discharge for long length of stay patients** *POSTGRADUATE MEDICAL JOURNAL*
  Zhao, E., Yeluru, A., Manjunath, L., Zhong, L., Hsu, H., Lee, C. K., Wong, A. C., Abramian, M., Manella, H., Svec, D., Shieh, L.
  2018; 94 (1116): 546–50
- **An Electronic Best Practice Alert Based on Choosing Wisely Guidelines Reduces Thrombophilia Testing in the Outpatient Setting.** *Journal of general internal medicine*
  Jun, T., Kwang, H., Mou, E., Berube, C., Bentley, J., Shieh, L., Hom, J.
  2018
- **Lean-Based Redesign of Multidisciplinary Rounds on General Medicine Service** *JOURNAL OF HOSPITAL MEDICINE*
  Kane, M., Rohatgi, N., Heidenreich, P. A., Thakur, A., Winget, M., Shum, K., Hereford, J., Shieh, L., Lew, T., Hom, J., Chi, J., Weinacker, A., Seay-Morrison, et al
  2018; 13 (7): 482–85
- **Shared Decision-Making During Inpatient Rounds: Opportunities for Improvement in Patient Engagement and Communication** *JOURNAL OF HOSPITAL MEDICINE*
  Blankenburg, R., Hilton, J. F., Yuan, P., Rennke, S., Monash, B., Harman, S. M., Sakai, D. S., Hosamani, P., Khan, A., Chua, I., Huynh, E., Shieh, L., Xie, et al
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  Mohamadlou, H., Lynn-Palevsky, A., Barton, C., Chettipally, U., Shieh, L., Calvert, J., Saber, N. R., Das, R.
  2018; 5: 2054358118776326

- **Impact of problem-based charting on the utilization and accuracy of the electronic problem list** *JOURNAL OF THE AMERICAN MEDICAL INFORMATICS ASSOCIATION*
  Li, R. C., Garg, T., Cun, T., Shieh, L., Krishnan, G., Fang, D., Chen, J. H.
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  Blankenburg, R., Hilton, J. F., Yuan, P., Rennke, S., Monash, B., Harman, S. M., Sakai, D. S., Hosamani, P., Khan, A., Chua, I., Huynh, E., Shieh, L., Xie, et al
  2018

- **Night-time communication at Stanford University Hospital: perceptions, reality and solutions** *BMJ QUALITY & SAFETY*
  Sun, A., Wang, L., Go, M., Eggers, Z., Deng, R., Maggio, P., Shieh, L.
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- **EMR-based handoff tool improves completeness of internal medicine residents' handoffs.** *BMJ open quality*
  Tisdale, R. L., Eggers, Z., Shieh, L.
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- **Attitudes and Perceptions of Medical Trainees Towards an Electronic Medical Alert System for Sepsis**
  Swenson, K., Ferguson, J., Shieh, L., Rogers, A.
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- **Impact of problem-based charting on the utilization and accuracy of the electronic problem list.** *Journal of the American Medical Informatics Association : JAMIA*
  Li, R. C., Garg, T. n., Cun, T. n., Shieh, L. n., Krishnan, G. n., Fang, D. n., Chen, J. H.
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  Kane, M. n., Rohatgi, N. n., Heidenreich, P. n., Thakur, A. n., Winget, M. n., Shum, K. n., Hereford, J. n., Shieh, L. n., Lew, T. n., Horn, J. n., Chi, J. n., Weinacker, A. n., Seay-Morrison, et al
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- **Multicentre validation of a sepsis prediction algorithm using only vital sign data in the emergency department, general ward and ICU** *BMJ OPEN*
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- **A high value care curriculum for interns: a description of curricular design, implementation and housestaff feedback** *POSTGRADUATE MEDICAL JOURNAL*
  Hom, J., Kumar, A., Evans, K. H., Svec, D., Richman, I., Fang, D., Smeraglio, A., Holubar, M., Johnson, T., Shah, N., Renault, C., Ahuja, N., Witteles, et al
  2017; 93 (1106): 725–29

- **Real-Time Clinical Decision Support Decreases Inappropriate Plasma Transfusion** *AMERICAN JOURNAL OF CLINICAL PATHOLOGY*
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- **Patient Ratings of Veterans Affairs and Affiliated Hospitals** *AMERICAN JOURNAL OF MANAGED CARE*
  Heidenreich, P. A., Zapata, A., Shieh, L., Oliva, N., Sahay, A.
  2017; 23 (6): 382-+

- **Barriers to timely discharge from the general medicine service at an academic teaching hospital.** *Postgraduate medical journal*
  Ragavan, M. V., Svec, D., Shieh, L.
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- **SAFETY QUEST: A NOVEL WEB-BASED QUALITY IMPROVEMENT AND PATIENT SAFETY EDUCATIONAL GAME**
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- **Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock: 2016.** *Critical care medicine*

Rhodes, A., Evans, L. E., Alhazzani, W., Levy, M. M., Antonelli, M., Ferrer, R., Kumar, A., Sevransky, J. E., Sprung, C. L., Nunnally, M. E., Rochwerg, B., Rubenfeld, G. D., Angus, et al
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  Rhodes, A., Evans, L. E., Alhazzani, W., Levy, M. M., Antonelli, M., Ferrer, R., Kumar, A., Sevransky, J. E., Sprung, C. L., Nunnally, M. E., Rochwerg, B., Rubenfeld, G. D., Angus, et al
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  Hom, J. n., Kumar, A. n., Evans, K. H., Svec, D. n., Richman, I. n., Fang, D. n., Smeraglio, A. n., Holubar, M. n., Johnson, T. n., Shah, N. n., Renault, C. n., Ahuja, N. n., Witteles, et al
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- **Magnitude of Potentially Inappropriate Thrombophilia Testing in the Inpatient Hospital Setting.** *Journal of hospital medicine*
  Mou, E. n., Kwang, H. n., Hom, J. n., Shieh, L. n., Kumar, A. n., Richman, I. n., Berube, C. n.
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- **The SDM 3 Circle Model: A Literature Synthesis and Adaptation for Shared Decision Making in the Hospital.** *Journal of hospital medicine*
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- **Prediction of Sepsis in the Intensive Care Unit With Minimal Electronic Health Record Data: A Machine Learning Approach.** *JMIR medical informatics*
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