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Bio

INSTITUTE AFFILIATIONS

- Member (Staff), Cardiovascular Institute

Publications

PUBLICATIONS

- **Peripheral Artery Disease in US Primary Care Practices: A Retrospective EHR-Based Analysis from 2018 to 2022.** *Journal of general internal medicine*
Nriagu, V. C., Hao, S., Kamdar, N. S., Fukaya, E., Wang, X., Kallis, K., Rehkopf, D. H., Ross, E. G.
2025
- **Primary care screening for sexually transmitted infections in the United States from 2019 to 2021.** *PLoS one*
Hao, S., Velásquez, E. E., Pearson, W. S., Hoover, K. W., Zhu, W., Rochlin, I., Vala, A., Chu, I., Phillips, R. L., Rehkopf, D. H., Kamdar, N.
2025; 20 (6): e0325097
- **Treatment of Chlamydia and Gonorrhea in Primary Care and Its Patient-Level Variation: An American Family Cohort Study.** *Annals of family medicine*
Hao, S., Tao, G., Pearson, W. S., Rochlin, I., Phillips, R. L., Rehkopf, D. H., Kamdar, N.
2025; 23 (2): 136-144
- **Post-COVID Conditions in US Primary Care: A PRIME Registry Comparison of Patients With COVID-19, Influenza-Like Illness, and Wellness Visits.** *Annals of family medicine*
Velásquez, E. E., Kamdar, N. S., Rehkopf, D. H., Saydah, S., Bull-Otterson, L., Hao, S., Vala, A., Chu, I., Bazemore, A. W., Phillips, R. L., Boehmer, T.
2024; 22 (4): 279-287
- **COVID-19 Vaccine Strategy Left Small Primary Care Practices On The Sidelines.** *Health affairs (Project Hope)*
Hao, S., Rehkopf, D. H., Velasquez, E., Vala, A., Bazemore, A. W., Phillips, R. L.
2023; 42 (8): 1147-1151
- **Single center blind testing of a US multi-center validated diagnostic algorithm for Kawasaki disease in Taiwan.** *Frontiers in immunology*
Kuo, H. C., Hao, S., Jin, B., Chou, C. J., Han, Z., Chang, L. S., Huang, Y. H., Hwa, K., Whitin, J. C., Sylvester, K. G., Reddy, C. D., Chubb, H., Ceresnak, et al
2022; 13: 1031387
- **A machine-learning algorithm for diagnosis of multisystem inflammatory syndrome in children and Kawasaki disease in the USA: a retrospective model development and validation study** *LANCET DIGITAL HEALTH*
Lam, J. Y., Shimizu, C., Tremoulet, A. H., Bainto, E., Roberts, S. C., Sivilay, N., Gardiner, M. A., Kanegaye, J. T., Hogan, A. H., Salazar, J. C., Mohandas, S., Szmuszkovicz, J. R., Mahanta, et al
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- **A machine-learning algorithm for diagnosis of multisystem inflammatory syndrome in children and Kawasaki disease in the USA: a retrospective model development and validation study.** *The Lancet. Digital health*
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2022; 4 (10): e717-e726

- **Machine Learning for Pediatric Echocardiographic Mitral Regurgitation Detection.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*
Edwards, L. A., Feng, F., Iqbal, M., Fu, Y., Sanyahumbi, A., Hao, S., McElhinney, D. B., Ling, X. B., Sable, C., Luo, J.
2022
- **Gestational Dating by Urine Metabolic Profile at High Resolution Weekly Sampling Timepoints: Discovery and Validation.** *Frontiers in molecular medicine*
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- **Deviation from the precisely timed age-associated patterns revealed by blood metabolomics to find CRC patients at risk of relapse at the CRC diagnosis**
Thyparambil, S. P., Zhu, X., Zhang, Y., Sun, H., Peng, J., Cai, S., Li, Y., Fu, C., Bao, P., Hao, S., Li, Z., Ding, Y., Yao, et al
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Huang, Q., Hao, S., You, J., Yao, X., Li, Z., Schilling, J., Thyparambil, S., Liao, W., Zhou, X., Mo, L., Ladella, S., Davies-Balch, S. R., Zhao, et al
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- **Multi-omics longitudinal analyses in stages I to III CRC patients: Surveillance liquid biopsy test to predict early recurrence and enable risk-stratified postoperative CRC management.**
Liu, X., Zhang, Y., Zhu, X., Thyparambil, S. P., Liao, W., Zheng, X., You, J., Masood, A., Li, Z., Yang, G., Yao, X., Hao, S., Heaton, et al
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- **Electronic Health Record-Based Prediction of 1-Year Risk of Incident Cardiac Dysrhythmia: Prospective Case-Finding Algorithm Development and Validation Study.** *JMIR medical informatics*
Zhang, Y., Han, Y., Gao, P., Mo, Y., Hao, S., Huang, J., Ye, F., Li, Z., Zheng, L., Yao, X., Li, Z., Li, X., Wang, et al
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- **Identification of patients at risk of new onset heart failure: Utilizing a large statewide health information exchange to train and validate a risk prediction model.** *PLoS one*
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- **Maternal metabolic profiling to assess fetal gestational age and predict preterm delivery: a two-centre retrospective cohort study in the US.** *BMJ open*
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2020; 10 (12): e040647
- **Pertussis-like syndrome often not associated with Bordetella pertussis: 5-year study in a large children's hospital.** *Infectious diseases (London, England)*
Xiong, Q., Hao, S., Shen, L., Liu, J., Chen, T., Zhang, G., Huang, Y.
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- **Towards personalized medicine in maternal and child health: integrating biologic and social determinants.** *Pediatric research*
Stevenson, D. K., Wong, R. J., Aghaeepour, N., Maric, I., Angst, M. S., Contrepolis, K., Darmstadt, G. L., Druzin, M. L., Eisenberg, M. L., Gaudilliere, B., Gibbs, R. S., Gotlib, I. H., Gould, et al
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- **Deviation from the precisely timed phenomic ageotypes can assist in early CRC screening and reveal underlying pathophysiology.**
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2020
- **Prediction for Intravenous Immunoglobulin Resistance Combining Genetic Risk Loci Identified From Next Generation Sequencing and Laboratory Data in Kawasaki Disease.** *Frontiers in pediatrics*
Chen, L., Song, S., Ning, Q., Zhu, D., Jia, J., Zhang, H., Zhao, J., Hao, S., Liu, F., Chu, C., Huang, M., Chen, S., Xie, et al
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- **Kinetics of SARS-CoV-2 positivity of infected and recovered patients from a single center.** *Scientific reports*
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- **Identification of elders at higher risk for fall with statewide electronic health records and a machine learning algorithm.** *International journal of medical informatics*
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- **High-throughput quantitation of serological ceramides/dihydroceramides by LC/MS/MS: Pregnancy baseline biomarkers and potential metabolic messengers.** *Journal of pharmaceutical and biomedical analysis*
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2020; 192: 113639
- **A Real-Time Early Warning System for Monitoring Inpatient Mortality Risk: Prospective Study Using Electronic Medical Record Data.** *Journal of medical Internet research*
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2019; 21 (7): e13719
- **Prediction of the 1-Year Risk of Incident Lung Cancer: Prospective Study Using Electronic Health Records from the State of Maine** *JOURNAL OF MEDICAL INTERNET RESEARCH*
Wang, X., Zhang, Y., Hao, S., Zheng, L., Liao, J., Ye, C., Xia, M., Wang, O., Liu, M., Weng, C., Duong, S. Q., Jin, B., Alfreds, et al
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- **A proteomic clock for malignant gliomas: The role of the environment in tumorigenesis at the presymptomatic stage.** *PLoS one*
Zheng, L. n., Zhang, Y. n., Hao, S. n., Chen, L. n., Sun, Z. n., Yan, C. n., Whitin, J. C., Jang, T. n., Merchant, M. n., McElhinney, D. B., Sylvester, K. G., Cohen, H. J., Recht, et al
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- **Prediction of the 1-Year Risk of Incident Lung Cancer: Prospective Study Using Electronic Health Records from the State of Maine.** *Journal of medical Internet research*
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Mah, K. E., Hao, S. n., Sutherland, S. M., Kwiatkowski, D. M., Axelrod, D. M., Almond, C. S., Krawczeski, C. D., Shin, A. Y.
2017
- **Defining and characterizing the critical transition state prior to the type 2 diabetes disease.** *PloS one*
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- **Estimating One-Year Risk of Incident Chronic Kidney Disease: Retrospective Development and Validation Study Using Electronic Medical Record Data From the State of Maine.** *JMIR medical informatics*
Hao, S. n., Fu, T. n., Wu, Q. n., Jin, B. n., Zhu, C. n., Hu, Z. n., Guo, Y. n., Zhang, Y. n., Yu, Y. n., Fouts, T. n., Ng, P. n., Culver, D. S., Alfreds, et al
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- **Web-based Real-Time Case Finding for the Population Health Management of Patients With Diabetes Mellitus: A Prospective Validation of the Natural Language Processing-Based Algorithm With Statewide Electronic Medical Records.** *JMIR medical informatics*
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2016; 4 (4)
- **A Classification Tool for Differentiation of Kawasaki Disease from Other Febrile Illnesses.** *journal of pediatrics*
Hao, S., Jin, B., Tan, Z., Li, Z., Ji, J., Hu, G., Wang, Y., Deng, X., Kanegaye, J. T., Tremoulet, A. H., Burns, J. C., Cohen, H. J., Ling, et al
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2016; 17 (3): 216-222
- **Urinary Colorimetric Sensor Array and Algorithm to Distinguish Kawasaki Disease from Other Febrile Illnesses** *PLOS ONE*
Li, Z., Tan, Z., Hao, S., Jin, B., Deng, X., Hu, G., Liu, X., Zhang, J., Jin, H., Huang, M., Kanegaye, J. T., Tremoulet, A. H., Burns, et al
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- **Prospective stratification of patients at risk for emergency department revisit: resource utilization and population management strategy implications.** *BMC emergency medicine*
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- **Cerebrospinal fluid protein dynamic driver network: At the crossroads of brain tumorigenesis** *METHODS*
Tan, Z., Liu, R., Zheng, L., Hao, S., Fu, C., Li, Z., Deng, X., Jang, T., Merchant, M., Whitin, J. C., Guo, M., Cohen, H. J., Recht, et al
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2014; 9 (11): e112944