

Digital Twins for Health Society 2026 Annual Meeting Posters

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P01	A Scalable Architecture and Implementation Framework for Disease-Focused Health Digital Twins: The DT4ALS Case Study	Huanmei Wu, Frank Bearoff, Kai Wang, Terry Heiman-Patterson
P02	PGx and Digital Twins: Incorporating PGx Insights into Pharmacodynamic Digital Twins	Zachary Brooks
P03	HPV-Stratified Causal Digital Twins for Head and Neck Cancer: Bayesian-Network Markov Blankets Enable Interpretable Counterfactual Survival under Chemoradiotherapy versus Radiotherapy Alone	Keyur D. Shah, Chih-Wei Chang, Jun Zhou, Jie Ding, Anees Dhabaan, Hania A. Al-Hallaq, James Bates, William Stokes, David S. Yu, Xiaofeng Yang
P04	Panoramic Dental Digital Twins for Adaptive and Predictive Oral Healthcare	Yuzhou Chen, Huanmei Wu
P05	Digital Twin Framework for Cardiovascular Optical Sensing Using Dynamic Wrist Phantoms	Mel Boonya-ananta, Andres J Rodriguez, Jessica Ramella-Roman
P06	A Multi-Scale Digital Twin for Mechanistic Modeling and Personalized Prediction of NAFLD to HCC Disease Progression	Jinlian Wang, Hui Li, Cynthia Ju, Hongfang Liu
P07	TIPPSS and Technologies to Enable Digital Twins	Florence D. Hudson
P08	Electronic Health Twins: Conceptual Framework and Guiding Principles for Future-Generation Electronic Health Records	Guo-Qiang Zhang
P09	SepsisSuite: A Prescriptive Digital Twin for Counterfactual Clinical Simulation	Ryan Cartularo
P10	Perioperative Digital Twin: Dynamic Risk Stratification for Postoperative Organ Injury	Shuyu Lu, Xiaoyang Ruan, Hongfang Liu
P11	A Patient-Specific Digital Twin for Adaptive Radiotherapy of Non-Small Cell Lung Cancer	Anvi Sud, Jialu Huang, Gregory R. Hart, Keshav Saxena, John Kim, Lauren Tressel, Jun Deng
P12	Developing a Digital Twin for Privacy and Security Training for Healthcare Professionals	Chiu C. Tan, Huanmei Wu
P13	Rapid feedback mechanism on anomalies for cancer monitoring using personalized medicine digital twins	Vishal Subedi, Siddhartha Nandy, Sanjay Chaudhuri, Ansu Chatterjee
P14	Towards a Conceptual Representation of Health Digital Twins	Rachel Nelson, Ram Gouripeddi, Mollie Cummins, Julio Facelli, Katherine Sward
P15	Using mCODE as a basis for an Ontology for Cancer Patient Digital Twins: Integrating Radiomics and Dosiomics	Odette Rios-Ibacache, Amal Zouaq, John Kildea
P16	Cohort Analysis of Type 2 Diabetes Mellitus at UT Physicians	Liwei Wang, Jaerong Ahn, Sunyang Fu, Daniel Palacio, Hyun-Hwan Jeong, Mustafa Tosur, Maria Jose Redondo, zhandong liu, Hongfang Liu

P17	A Mixture-of-Experts Digital Twin Framework for Diabetes Device Surveillance	Xiaomeng Wang, Liwei Wang, Cheryl L. Brown, Tianlong Chen, Assaf Gottlieb, Rui Li, Daniel I Sessler, Andrew Wen, Kaixiong Zhou, Hanjie Chen, Hongfang Liu
P18	An Agent-Based Model of Osteoporosis	Thamer M. Al-Edresee, Mohammed Aldhoayan, Huanmei Wu, Leming Zhou
P19	T2D-Med-DT: A Medication-Focused Digital Twin Framework for Cardiovascular Risk Reduction in Type 2 Diabetes	Huanmei Wu, Feifan Liu, Ben Gerber
P20	A Campus Digital Twin Framework for Visualizing and Managing Anxiety Related Stress among College Students	Yuchen Wang, Xinyue Ye
P21	3D-MLPA: A Framework Modeling for Non-Small Cell Lung Cancer Survival Prediction	Huu Phong Nguyen, Delower Hossain, Ehsan Saghapour, Zhandos Sembay, Jake Yue Chen
P22	Skin Tone-Related Disparities in Vision Language Model Diagnosis of Skin Diseases from Clinical Dermatology Images	Yuhang Guo, Zhiyu Wan
P23	Health-aware digital twin framework for multisensory food design	Andres Fernando Gonzalez Barrios, Luke Achenie
P24	Adaptive Scheduling of Digital Twin Workloads Using Topology-Aware Reinforcement Learning in High-Performance Computing	Sunday J. Awine, Jinwei Liu, Richard Abo, Yohn Jairo Parra Bautista, Carlos Theran-Suares
P25	Digital Twins and Agentic AI: Enabling Autonomous Collaboration and Intelligent Workflow Design in the Electric Vehicle Enterprise	Kamal Pandey
P26	Subgroup identification of buprenorphine discontinuation in opioid use disorder: A Virtual Twins approach integrating geo-referenced social determinants of health in U.S. claims data, 2006-2022	Kehe Zhang, Paula A. Jaimes-Buitron, Wanru Guo, Yanmin Gong, Yuanxiang Guo, Carolina Vivas Valencia, Cici Bauer