

NCT Number	Study Title	Study URL	Conditions	Interventions	Sponsor	Collaborators	Study Type
NCT04441775	Artificial Intelligence for Prostate Cancer Treatment Planning	https://clinicaltrials.gov/study/NCT04441775	Prostate Cancer Artificial Intelligence Radiotherapy	OTHER: AI-assisted RT modelling	Dartmouth-Hitchcock Medical Center	Oregon Health and Science University University of Massachusetts, Worcester National Cancer Institute (NCI) NRG Oncology Nicolalde R&D	OBSERVATIONAL
NCT05147389	Artificial Intelligence for Digital Cholangioscopy Neoplasia Diagnosis	https://clinicaltrials.gov/study/NCT05147389	Common Bile Duct Neoplasms Non-Neoplastic Bile Duct Disorder	DIAGNOSTIC_TEST: AI model classification DIAGNOSTIC_TEST: DSOC endoscopist experts' classification	Instituto Ecuatoriano de Enfermedades Digestivas	The Methodist Hospital Research Institute University of Sao Paulo Vrije Universiteit Brussel Advanced Endoscopy Research, Robert Wood Johnson Medical School Rutgers University Baylor St. Luke's Medical Center Universitair Ziekenhuis Brussel	OBSERVATIONAL
NCT04655924	Artificial Intelligence in Depression - Medication Enhancement	https://clinicaltrials.gov/study/NCT04655924	Depression	DEVICE: Clinical Decision Support System	Aifred Health	McGill University	INTERVENTIONAL
NCT05339750	Allergy Skin Patch Artificial Intelligence (AI)	https://clinicaltrials.gov/study/NCT05339750	Allergic Contact Dermatitis	DEVICE: AI-based smartphone application DIAGNOSTIC_TEST: Allergen patch	Mayo Clinic		INTERVENTIONAL
NCT04223934	Tailored Drug Titration Using Artificial Intelligence	https://clinicaltrials.gov/study/NCT04223934	Hypertension	OTHER: optima4BP	Optima Integrated Health	University of California, San Francisco	INTERVENTIONAL
NCT05594394	Improving Charge Nurse Conflict Resolution Communication Using Artificial Intelligence	https://clinicaltrials.gov/study/NCT05594394	Conflict Resolution	BEHAVIORAL: Orai: Master Public Speaking	Methodist Health System		OBSERVATIONAL
NCT05335889	Wearable Sensors and Artificial Intelligence for Carbohydrate Counting	https://clinicaltrials.gov/study/NCT05335889	Type 2 Diabetes	DEVICE: eButton DEVICE: Continuous Glucose Monitoring (CGM)	NYU Langone Health		OBSERVATIONAL
NCT04933890	Detection of Heart Conditions Using Artificial Intelligence	https://clinicaltrials.gov/study/NCT04933890	Left Ventricular Dysfunction Heart Failure	DEVICE: Use of Eko DUO electronic stethoscope	Eko Devices, Inc.		OBSERVATIONAL
NCT04891705	Point of Care Ultrasound Lung Artificial Intelligence (AI) Validation Data Collection Study	https://clinicaltrials.gov/study/NCT04891705	Pleural Effusion Lung Consolidation	DEVICE: Lung Ultrasound Scan	Philips Clinical & Medical Affairs Global		OBSERVATIONAL
NCT02801877	IntelliCare Study: Artificial Intelligence in a Mobile (AIM) Intervention for Depression	https://clinicaltrials.gov/study/NCT02801877	Depression Anxiety	BEHAVIORAL: IntelliCare BEHAVIORAL: Hub App with the Recommender System BEHAVIORAL: Coaching	Northwestern University		INTERVENTIONAL
NCT02454660	Improving Adherence and Outcomes by Artificial Intelligence-Adapted Text Messages	https://clinicaltrials.gov/study/NCT02454660	Medication Non-adherence	BEHAVIORAL: SMS (Text messages)	University of Michigan	Agency for Healthcare Research and Quality (AHRQ)	INTERVENTIONAL
NCT05275556	Gastroenterology Artificial Intelligence System for Detecting Colorectal Polyps (The GAIN Study)	https://clinicaltrials.gov/study/NCT05275556	Colon Adenoma Colon Polyp Colon Lesion	DEVICE: Computer-Assisted Detection (CADE) Device	Verily Life Sciences LLC		INTERVENTIONAL
NCT02464449	Patient-Centered Pain Care Using Artificial Intelligence and Mobile Health Tools	https://clinicaltrials.gov/study/NCT02464449	Back Pain	BEHAVIORAL: Behavioral: AI-CBT BEHAVIORAL: Behavioral: Standard Telephone CBT	VA Office of Research and Development		INTERVENTIONAL
NCT05167058	Electrocardiographic Diagnostic Performance of the Apple Watch Augmented With an Artificial Intelligence Algorithm	https://clinicaltrials.gov/study/NCT05167058	Atrial Fibrillation Tachycardia Br adycardia Premature Supraventricular Beat Premature Ventricular Contraction	DEVICE: Cardiologs Platform	Cardiologs Technologies		OBSERVATIONAL
NCT05235646	Infiltration of Gadolinium Injection in Brain MR Scans Using Artificial Intelligence	https://clinicaltrials.gov/study/NCT05235646	Magnetic Resonance Imaging		Mayo Clinic		OBSERVATIONAL
NCT03530098	Validation of an Artificial Intelligence-based Algorithm for Skeletal Age Assessment	https://clinicaltrials.gov/study/NCT03530098	Bone Age	DEVICE: BoneAgeModel	Stanford University		INTERVENTIONAL
NCT02176226	IntelliCare: Artificial Intelligence in a Mobile Intervention for Depression and Anxiety (AIM)	https://clinicaltrials.gov/study/NCT02176226	Major Depressive Disorder Anxiety Disorders	BEHAVIORAL: IntelliCare	Northwestern University		INTERVENTIONAL

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NCT02176226	IntelliCare: Artificial Intelligence in a Mobile Intervention for Depression and Anxiety (AIM)	https://clinicaltrials.gov/study/NCT02176226	Major Depressive Disorder Anxiety Disorders	BEHAVIORAL: IntelliCare	Northwestern University		INTERVENTIONAL
NCT02243670	Using Artificial Intelligence To Monitor Medication Adherence in Opioid Replacement Therapy	https://clinicaltrials.gov/study/NCT02243670	Opiate Addiction Medication Non-adherence Addiction Opioid Dependence	DEVICE: AiCure monitoring and intervention	AiCure	Orexo AB Montefiore Medical Center	INTERVENTIONAL
NCT06337734	An Artificial Intelligence-Assisted Digital Health Lifestyle Intervention for Adults With Hypertension	https://clinicaltrials.gov/study/NCT06337734	Hypertension	BEHAVIORAL: AI-Driven Lifestyle Coaching Program	University of California, San Diego		INTERVENTIONAL
NCT04400435	Detection of Heart Conditions With Single Lead ECG Using Artificial Intelligence	https://clinicaltrials.gov/study/NCT04400435	Left Ventricular Dysfunction	DEVICE: Use of Eko DUO electronic stethoscope	Eko Devices, Inc.		OBSERVATIONAL
NCT02599259	Using Artificial Intelligence to Measure and Optimize Adherence in Patients on Anticoagulation Therapy.	https://clinicaltrials.gov/study/NCT02599259	Stroke	DEVICE: Monitored (M+)	AiCure	Montefiore Medical Center	INTERVENTIONAL
NCT04122326	Monitoring and Evaluation of Posture in Office Workstations With Artificial Intelligence	https://clinicaltrials.gov/study/NCT04122326	Musculoskeletal Pain Musculoskeletal Injury Musculoskeletal Strain	BEHAVIORAL: Workstation Modification	University of Southern California	U.S. National Science Foundation	INTERVENTIONAL
NCT04524104	Study of a PST-Trained Voice-Enabled Artificial Intelligence Counselor (SPEAC) for Adults With Emotional Distress (Phase 1)	https://clinicaltrials.gov/study/NCT04524104	Depression Anxiety	BEHAVIORAL: Lumen Treatment	University of Illinois at Chicago	Penn State University Washington University School of Medicine Stanford University National Institute of Mental Health (NIMH)	INTERVENTIONAL
NCT03976297	Artificial Intelligence/Machine Learning Modeling on Time to Palliative Care Review in an Inpatient Hospital Population	https://clinicaltrials.gov/study/NCT03976297	Palliative Care	OTHER: Control Tower	Mayo Clinic		INTERVENTIONAL
NCT06561217	Assessing the Performance of Artificial Intelligence (AI)-Augmented Electronic Health Record (EHR) Data Abstraction for Clinical Trial Patient Screening	https://clinicaltrials.gov/study/NCT06561217	Cancer		University of Pennsylvania	Mendel AI	OBSERVATIONAL
NCT03868813	An Artificial Intelligence Assisted Telehealth Intervention to Promote Self-Management in Patients With Type 2 Diabetes Mellitus (Qualitative Interview)	https://clinicaltrials.gov/study/NCT03868813	Diabetes Mellitus	BEHAVIORAL: Semi-structured Interview	University of Alabama at Birmingham		OBSERVATIONAL
NCT05077722	Monitoring of Sleep and Behavior of Children 3-7 Years Old Receiving Parent-Child Interaction Therapy With the Help of Artificial Intelligence	https://clinicaltrials.gov/study/NCT05077722	Disruptive Behavior Attention-deficit Hyperactivity Oppositional Defiant Disorder	DEVICE: Garmin	Mayo Clinic		INTERVENTIONAL
NCT05161065	Comparison of QT Interval Readings Between Smartwatch Combined With Cardiologs Artificial Intelligence and 12-lead ECG	https://clinicaltrials.gov/study/NCT05161065	Atrial Fibrillation	DEVICE: Cardiologs	Cardiologs Technologies		OBSERVATIONAL
NCT05343585	Validity of an AI-based Program to Identify Foods and Estimate Food Portion Size	https://clinicaltrials.gov/study/NCT05343585	Nutrition Assessment	DEVICE: PortionSize AI	Pennington Biomedical Research Center	National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)	INTERVENTIONAL
NCT04400513	Development of an Algorithm to Differentiate Heart Murmurs Using Electronic Stethoscopes	https://clinicaltrials.gov/study/NCT04400513	Murmur, Heart Aortic Valve Stenosis Tricuspid Regurgitation Mitral Regurgitation Innocent Murmurs Heart Murmurs	DEVICE: Use of Eko CORE and Eko DUO electronic stethoscopes	Eko Devices, Inc.		OBSERVATIONAL
NCT01696162	Conventional Home Exercise Programs Versus Electronic Home Exercise Versus Artificial Intelligence "Virtual Therapy" for Anterior Knee Pain	https://clinicaltrials.gov/study/NCT01696162	Patellofemoral Pain Syndrome	OTHER: Algorithm based Exercise Videos OTHER: PDF Exercise Sheets OTHER: Limited Exercise Videos	Simpletherapy		INTERVENTIONAL

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NCT05175690	Evaluation of the AudibleHealth Dx AI/ML-Based Dx SaMD Using FCV-SDS in the Diagnosis of COVID-19 Illness	https://clinicaltrials.gov/study/NCT05175690	COVID19	DIAGNOSTIC_TEST: Diagnostic Software as Medical Device	AudibleHealth AI, Inc.	University of South Florida R. P. Chiacchierini Consulting, LLC Analytical Solutions Group, Inc. Renaissance Worldwide Solutions, LLC Medical & Regulatory Affairs Specialists, LLC	OBSERVATIONAL
NCT05126173	DERM US and EU Validation Study	https://clinicaltrials.gov/study/NCT05126173	Malignant Skin Melanoma T0 Basal Cell Carcinoma Squamous Cell Carcinoma	DEVICE: Deep Ensemble for the Recognition of Malignancy (DERM)	Skin Analytics Limited		OBSERVATIONAL
NCT04918693	A Study to Evaluate the Performance and Potential Benefits of an Assistive Artificial Intelligence Device ScanNav Anatomy Peripheral Nerve Block - US V1.0 for Ultrasound-guided Regional Anesthesia	https://clinicaltrials.gov/study/NCT04918693	Ultrasound Imaging of Anatomical Structures	DEVICE: Ultrasound scanning	IntelligentUltrasound Limited		OBSERVATIONAL
NCT03662802	Development of a Novel Convolution Neural Network for Arrhythmia Classification	https://clinicaltrials.gov/study/NCT03662802	Arrhythmias, Cardiac Cardiac Arrest Cardiac Arrhythmias	OTHER: Neural Network Classifier	Scripps Clinic		OBSERVATIONAL
NCT05455281	A Study to Evaluate the Performance of CHLOE Algorithm on the Prediction of Blastocyst Formation in Women Undergoing IVF [Cultivating Human Life Through Optimal Embryos]	https://clinicaltrials.gov/study/NCT05455281	Fertility Disorders	DEVICE: CHLOE	Fairtility		OBSERVATIONAL
NCT05838456	Deep Learning Enabled Endovascular Stroke Therapy Screening in Community Hospitals	https://clinicaltrials.gov/study/NCT05838456	Acute Ischemic Stroke (AIS)	DEVICE: Viz.AI software	The University of Texas Health Science Center, Houston	National Center for Advancing Translational Sciences (NCATS)	INTERVENTIONAL
NCT06098950	Human Algorithm Interactions for Acute Respiratory Failure Diagnosis	https://clinicaltrials.gov/study/NCT06098950	Acute Respiratory Failure	OTHER: Artificial Intelligence model predictions without explanation OTHER: Artificial intelligence model predictions with explanation OTHER: AI model biased against heart failure OTHER: AI model biased against pneumonia OTHER: AI model biased against COPD	University of Michigan	National Heart, Lung, and Blood Institute (NHLBI)	INTERVENTIONAL
NCT06017089	The Pediatric Artificial Pancreas Automated Initialization Trial	https://clinicaltrials.gov/study/NCT06017089	Type 1 Diabetes	DEVICE: AI-based Advisor system	Marc Breton	National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) Jaeb Center for Health Research University of Colorado, Denver Stanford University	INTERVENTIONAL
NCT05745480	Natural Language Processing for Screening Opioid Misuse	https://clinicaltrials.gov/study/NCT05745480	Opioid Use Disorder Opioid Misuse	OTHER: Opioid Misuse Screening with an Addiction Consult Service	University of Wisconsin, Madison		OBSERVATIONAL

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NCT05455905	Voice Biomarkers Predictive of Depression and Anxiety	https://clinicaltrials.gov/study/NCT05455905	Depression, Anxiety Healthy Mental Health Wellness 1	DIAGNOSTIC_TEST: Patient Health Questionnaire-9 DIAGNOSTIC_TEST: Generalized Anxiety Disorder-7 DIAGNOSTIC_TEST: Hamilton Depression Rating Scale DIAGNOSTIC_TEST: Hamilton Anxiety Rating Scale	Kintsugi Mindful Wellness, Inc.		OBSERVATIONAL
NCT05600101	Development and Piloting an Avatar-based Intervention to Support Patients Undergoing Stem Cell Transplantation	https://clinicaltrials.gov/study/NCT05600101	Hematopoietic Cell Transplantation	BEHAVIORAL: Care.Coach	Dana-Farber Cancer Institute	National Cancer Institute (NCI)	INTERVENTIONAL
NCT03688906	AI-EMERGE: Development and Validation of a Multi-analyte, Blood-based Colorectal Cancer Screening Test	https://clinicaltrials.gov/study/NCT03688906	Colo-rectal Cancer Cancer Colon Cancer, Rectum Neoplasms, Colorectal Polyps Polyp of Colon Adenoma Adenoma Colon		Freenome Holdings Inc.		OBSERVATIONAL
NCT05364268	Evaluation of the AudibleHealth Dx AI/ML-Based Dx SaMD Using FCV-SDS in the Diagnosis of COVID-19 Illness: Clinical Validation	https://clinicaltrials.gov/study/NCT05364268	2019 Novel Coronavirus Disease 2019 Novel Coronavirus Infection 2019-nCoV Disease COVID-19 Pandemic COVID-19 Virus Disease COVID-19 Virus Infection Coronavirus Disease 2019 Coronavirus Disease-19 SARS-CoV-2 Infection	DEVICE: Diagnostic Test: Diagnostic Software as Medical Device	AudibleHealth AI, Inc.	Sunrise Research Institute Analytical Solutions Group, Inc. Kelley Medical Consultants LLC R. P. Chiacchierini Consulting, LLC	OBSERVATIONAL
NCT05081011	Managing Insulin With a Voice AI	https://clinicaltrials.gov/study/NCT05081011	Medication Adherence	DEVICE: Voice Assistant Device DEVICE: Voice Assistant Device	Stanford University		INTERVENTIONAL
NCT05009251	Using Explainable AI Risk Predictions to Nudge Influenza Vaccine Uptake	https://clinicaltrials.gov/study/NCT05009251	Influenza Vaccination Health Promotion Health Behavior Risk Reduction	BEHAVIORAL: Reminder BEHAVIORAL: Risk reduction BEHAVIORAL: Medical records-based recommendation BEHAVIORAL: Algorithm-based recommendation	National Bureau of Economic Research, Inc.	Geisinger Clinic Massachusetts Institute of Technology National Institute on Aging (NIA)	INTERVENTIONAL
NCT04323137	Encouraging Flu Vaccination Among High-Risk Patients Identified by ML	https://clinicaltrials.gov/study/NCT04323137	Influenza Vaccination Health Promotion Health Behavior Risk Reduction	BEHAVIORAL: Risk reduction BEHAVIORAL: Medical records-based recommendation BEHAVIORAL: Algorithm-based recommendation	Geisinger Clinic	National Institute on Aging (NIA)	INTERVENTIONAL
NCT00564122	The Accuracy of an Artificially-intelligent Stethoscope	https://clinicaltrials.gov/study/NCT00564122	Heart Murmurs Congenital Heart Disease Structural Heart Disease	DEVICE: Artificially-Intelligent Stethoscope OTHER: Physical Examination	Akron Children's Hospital	Thomas C. Dispenza, M.D. John R. Bockoven, M.D. M.B.A.	OBSERVATIONAL