Supplementary Material

Table 1: Articles included in review by product type, title, authors, year published, and journal

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| --- | --- | --- | --- | --- | --- |
| Type of tool | Paper title | | Authors | Year published | Journal |
| Diagnosis | A Decision Support System for Diagnostics and Treatment Planning in Traumatic Brain Injury. | | Umer et al | 2019 \* | IEEE J Biomed Health Inform |
| A Human-Centered Evaluation of a Deep Learning System Deployed in Clinics for the Detection of Diabetic Retinopathy | | Beede et al | 2020 | CHI 2020 |
| Developing a new intelligent system for the diagnosis of oral medicine with case-based reasoning approach | | Ehtesham et al | 2019 | Oral Diseases |
| ECGLens: Interactive Visual Exploration of Large Scale ECG Data for Arrhythmia Detection | | Xu et al | 2018 | CHI 2018 |
| HealthXAI: Collaborative and explainable AI for supporting early diagnosis of cognitive decline | | Khodabandehloo et al | 2021 \* | Future Gener Comput Syst |
| Human-Centered Tools for Coping with Imperfect Algorithms During Medical Decision-Making | | Cai et al | 2019 | CHI 2019 |
| A Cloud-based Platform for the Non-invasive Management of Coronary Artery Disease | | Sakellarios et al | 2020 \* | Enterp Inf Syst |
| Human-computer collaboration for skin cancer recognition. | | Tschandl et al | 2020 | Nature medicine |
| NLPReViz: An Interactive Tool for Natural Language Processing on Clinical Text. | | Trivedi et al | 2018 \* | JAMIA |
| "Brilliant AI Doctor" in Rural Clinics: Challenges in AI-Powered Clinical Decision Support System Deployment | | Wang et al | 2021 \* | CHI 2021 |
| Implementation of artificial intelligence (AI) applications in radiology: hindering and facilitating factors | | Strohm et al | 2020 | European Radiology |
| Adapted Visual Analytics Process for Intelligent Decision-Making: Application in a Medical Context | | Ltifi et al | 2020 | Int J Inf Technol Decis Mak |
| Are student nurses ready for new technologies in mental health? Mixed-methods study. | | Bourla et al | 2020 \* | Nurse Educ Today |
| Artificial Intelligence and the Future of Primary Care: Exploratory Qualitative Study of UK General Practitioners’ Views | | Blease et al | 2019 \* | JMIR |
| "Hello AI”: Uncovering the Onboarding Needs of Medical Practitioners for Human–AI Collaborative Decision-Making | | Cai et al | 2019 | Proc. ACM Hum.-Comput. Interact |
| Impact of the rise of artificial intelligence in radiology: What do radiologists think? | | Waymel et al | 2019 | Diagn Interv Imaging |
| "It cannot do all of my work": Community Health Worker Perceptions of AI-Enabled Mobile Health Applications in Rural India | | Okolo et al | 2021 | CHI 2021 |
| The Integration of Artificial Intelligence in Medical Imaging Practice: Perspectives of African radiographers. | | Botwe et al | 2021 | Radiology |
| Treatment planning | A Decision Support System for Diagnostics and Treatment Planning in Traumatic Brain Injury. | | Umer et al | 2019 \* | IEEE J Biomed Health Inform |
| CarePre: An Intelligent Clinical Decision Assistance System | | Jin et al | 2020 \* | ACM Trans Comput Healthc |
| Co-Design and Evaluation of an Intelligent Decision Support System for Stroke Rehabilitation Assessment | | Lee et al | 2020 \* | Proc ACM Hum Comput Interact |
| OrderRex clinical user testing: a randomized trial of recommender system decision support on simulated cases | | Kumar et al | 2020 | JAMIA |
| Revealing ICU Cognitive Work Through Naturalistic Decision-Making Methods. | | Nemeth et al | 2016 | J Cogn Eng Decis Mak |
| A Cloud-based Platform for the Non-invasive Management of Coronary Artery Disease | | Sakellarios et al | 2020 \* | Enterp Inf Syst |
| TTTS-GPS: Patient-specific Preoperative Planning and Simulation Platform for Twin-to-Twin Transfusion Syndrome Fetal Surgery. | | Torrents-Barrena et al | 2019 | Comput Methods Programs Biomed |
| "Brilliant AI Doctor" in Rural Clinics: Challenges in AI-Powered Clinical Decision Support System Deployment | | Wang et al | 2021 \* | CHI 2021 |
| Using a Simulation Centre to Evaluate Preliminary Acceptability and Impact of an Artificial Intelligence-Powered Clinical Decision Support System for Depression Treatment on the Physician-patient Interaction. | | Benrimoh et al | 2021 | BJPsych Open |
| Designing AI for Trust and Collaboration in Time-Constrained Medical Decisions: A Sociotechnical Lens | | Jacobs et al | 2021 | CHI 2021 |
| Investigating the Heart Pump Implant Decision Process: Opportunities for Decision Support Tools to Help | | Yang et al | 2016 | CHI 2016 |
| Unremarkable AI: Fitting Intelligent Decision Support into Critical, Clinical Decision-Making Processes | | Yang et al | 2019 | CHI 2019 |
| Artificial Intelligence and the Future of Primary Care: Exploratory Qualitative Study of UK General Practitioners’ Views | | Blease et al | 2019 \* | JMIR |
| Type of tool | Paper title |  | | Year published | Journal | |
| Risk assessment |  |  | |  |  | |
| CarePre: An Intelligent Clinical Decision Assistance System | Jin et al | | 2020 \* | ACM Trans Comput Healthc | |
| Comparing clinical judgment with the MySurgeryRisk algorithm for preoperative risk assessment: A pilot usability study. | Brennan et al | | 2019 | Surgery | |
| Integrating a Machine Learning System Into Clinical Workflows: Qualitative Study. | Sandhu et al | | 2020 | JMIR | |
| Real-World Integration of a Sepsis Deep Learning Technology Into Routine Clinical Care: Implementation Study | Sendak et al | | 2020 | JMIR medical informatics | |
| Realization of a Service for the Long-term Risk Assessment of Diabetes-related Complications. | Lagani et al | | 2015 | J Diabetes Complications | |
| Technology Acceptance of a Machine Learning Algorithm Predicting Delirium in a Clinical Setting: a Mixed-Methods Study | Jauk et al | | 2021 | J Med Syst | |
| Designing for Physician Trust: Toward a Machine Learning Decision Aid for Radiation Toxicity Risk | Gilbank et al | | 2020 | Ergon Des | |
| Are student nurses ready for new technologies in mental health? Mixed-methods study. | Bourla et al | | 2020 \* | Nurse Educ Today | |
| Barriers to Implementing an Artificial Intelligence Model for Unplanned Readmissions. | Baxter et al | | 2020 | ACI open | |
| Ambient Intelligence and Telemonitoring | Acceptability Among Community Healthcare Nurses of Intelligent Wireless Sensor-system Technology for the Rapid Detection of Health Issues in Home-dwelling Older Adults. | Cohen et al | | 2017 | Open Nurs J | |
| Co-Design and Evaluation of an Intelligent Decision Support System for Stroke Rehabilitation Assessment | Lee et al | | 2020 \* | Proc ACM Hum Comput Interact | |
| HealthXAI: Collaborative and explainable AI for supporting early diagnosis of cognitive decline | Khodabandehloo et al | | 2021 \* | Future Gener Comput Syst | |
| Are student nurses ready for new technologies in mental health? Mixed-methods study. | Bourla et al | | 2020 \* | Nurse Educ Today | |
| Conditions and ethical challenges that could influence the implementation of technologies in nursing homes: A qualitative study. | Bourbonnais et al | | 2019 | Int J Older People Nurs | |
| Improvements in patient monitoring in the intensive care unit: Survey study | Poncette et al | | 2020 | JMIR | |
| Psychiatrists' Attitudes Toward Disruptive New Technologies: Mixed-Methods Study | Bourla et al | | 2018 | JMIR mental health | |
| NLP | An Observational Study to Evaluate the Usability and Intent to Adopt an Artificial Intelligence–Powered Medication Reconciliation Tool | Long, 2016 | | 2016 \* | Interact J Med Res | |
| Interactive NLP in Clinical Care: Identifying Incidental Findings in Radiology Reports. | Trivedi et al | | 2019 | Appl Clin Inform | |
| NLPReViz: An Interactive Tool for Natural Language Processing on Clinical Text. | Trivedi et al | | 2018 \* | JAMIA | |
| Investigating the Barriers to Physician Adoption of an Artificial Intelligence- Based Decision Support System in Emergency Care: An Interpretative Qualitative Study. | Petitgand et al | | 2020 | Stud Health Technol Inform | |
| A Clinician Survey of Using Speech Recognition for Clinical Documentation in the Electronic Health Record. | Goss et al | | 2019 | Int J Med Inform | |
| Administrative Tasks | An Interactive Relevance Feedback Interface for Evidence-Based Health Care | Donoso-Guzmán et al | | 2018 | IUI | |
| An Observational Study to Evaluate the Usability and Intent to Adopt an Artificial Intelligence–Powered Medication Reconciliation Tool | Long et al | | 2016 \* | Interact J Med Res | |
| Assisted Medication Management in Elderly Care Using Miniaturised Near-Infrared Spectroscopy | Klakegg et al | | 2018 | Proc ACM Interact Mob Wearable Ubiquitous Technol | |
| Development and Preliminary Evaluation of a Visual Annotation Tool to Rapidly Collect Expert-Annotated Weight Errors in Pediatric Growth Charts. | Van Camp et al | | 2019 | Studies in Health Technology and Informatics | |
| Artificial Intelligence and the Future of Primary Care: Exploratory Qualitative Study of UK General Practitioners’ Views | Blease et al | | 2019 \* | JMIR | |
|  | \* indicates that the paper appears in multiple categories |  | |  |  | |