

# Reporting guidelines for clinical trial reports for intervention intelligence: the CONSORT-AI extension

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Improving the quality of machine learning in health applications and clinical research. Nature Machine Intelligence, 2020, 2, 554-556.	8.3	45
2	Establishing key research questions for the implementation of artificial intelligence in colonoscopy: a modified Delphi method. Endoscopy, 2021, 53, 893-901.	1.0	35
3	Reporting Guidelines for Artificial Intelligence in Medical Research. Ophthalmology, 2020, 127, 1596-1599.	2.5	22
4	Clinical research underlies ethical integration of healthcare artificial intelligence. Nature Medicine, 2020, 26, 1325-1326.	15.2	36
5	Minimum information about clinical artificial intelligence modeling: the MI-CLAIM checklist. Nature Medicine, 2020, 26, 1320-1324.	15.2	262
6	Going on up to the SPIRIT in AI: will new reporting guidelines for clinical trials of AI interventions improve their rigour?. BMC Medicine, 2020, 18, 272.	2.3	3
7	Welcoming new guidelines for AI clinical research. Nature Medicine, 2020, 26, 1318-1320.	15.2	67
8	Assessing perspectives on artificial intelligence applications to Gastroenterology. Gastrointestinal Endoscopy, 2021, 93, 971-975.e2.	0.5	8
9	Guidelines for clinical trials using artificial intelligence â€“ SPIRITâ€AI and CONSORTâ€AI â€. Journal of Pathology, 2021, 253, 14-16.	2.1	7
10	Artificial intelligence in colonoscopy â€Now on the market. What's next?. Journal of Gastroenterology and Hepatology (Australia), 2021, 36, 7-11.	1.4	40
11	Attitudes of the Surgical Team Toward Artificial Intelligence in Neurosurgery: International 2-Stage Cross-Sectional Survey. World Neurosurgery, 2021, 146, e724-e730.	0.7	23
12	Artificial intelligence and deep learning for small bowel capsule endoscopy. Digestive Endoscopy, 2021, 33, 290-297.	1.3	23
13	Artificial intelligence in managing clinical trial design and conduct: Man and machine still on the learning curve?. Perspectives in Clinical Research, 2021, 12, 1.	0.5	19
14	Key Principles of Clinical Validation, Device Approval, and Insurance Coverage Decisions of Artificial Intelligence. Korean Journal of Radiology, 2021, 22, 442.	1.5	37
16	Reproducibility, Transparency and Evaluation of Machine Learning in Health Applications. , 2021, , .		2
17	Artificial Intelligence and Deep Learning in Ophthalmology. , 2021, , 1-34.		10
18	Designing deep learning studies in cancer diagnostics. Nature Reviews Cancer, 2021, 21, 199-211.	12.8	175
19	Clinician checklist for assessing suitability of machine learning applications in healthcare. BMJ Health and Care Informatics, 2021, 28, e100251.	1.4	66

#	ARTICLE	IF	CITATIONS
20	Better Reporting of Studies on Artificial Intelligence: CONSORT-AI and Beyond. <i>Journal of Dental Research</i> , 2021, 100, 677-680.	2.5	17
21	The digital scribe in clinical practice: a scoping review and research agenda. <i>Npj Digital Medicine</i> , 2021, 4, 57.	5.7	30
22	AI applications to medical images: From machine learning to deep learning. <i>Physica Medica</i> , 2021, 83, 9-24.	0.4	253
23	Machine Learning for COVID-19 Diagnosis and Prognostication: Lessons for Amplifying the Signal While Reducing the Noise. <i>Radiology: Artificial Intelligence</i> , 2021, 3, e210011.	3.0	24
24	Adoption of artificial intelligence in breast imaging: evaluation, ethical constraints and limitations. <i>British Journal of Cancer</i> , 2021, 125, 15-22.	2.9	50
25	Artificial Intelligenceâ€”Aided Precision Medicine for COVID-19: Strategic Areas of Research and Development. <i>Journal of Medical Internet Research</i> , 2021, 23, e22453.	2.1	21
26	To buy or not to buyâ€”evaluating commercial AI solutions in radiology (the ECLAIR guidelines). <i>European Radiology</i> , 2021, 31, 3786-3796.	2.3	92
27	New international reporting guidelines for clinical trials evaluating effectiveness of artificial intelligence interventions in dermatology: strengthening the SPIRIT of robust trial reporting. <i>British Journal of Dermatology</i> , 2021, 184, 381-383.	1.4	8
29	How medical AI devices are evaluated: limitations and recommendations from an analysis of FDA approvals. <i>Nature Medicine</i> , 2021, 27, 582-584.	15.2	227
30	Artificial Intelligence in Hypertension. <i>Circulation Research</i> , 2021, 128, 1100-1118.	2.0	26
31	Artificial intelligence in dental research: Checklist for authors, reviewers, readers. <i>Journal of Dentistry</i> , 2021, 107, 103610.	1.7	136
32	Equity in essence: a call for operationalising fairness in machine learning for healthcare. <i>BMJ Health and Care Informatics</i> , 2021, 28, e100289.	1.4	54
33	How to evaluate deep learning for cancer diagnostics â€” factors and recommendations. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2021, 1875, 188515.	3.3	19
34	The need for a prediction model assessment framework. <i>The Lancet Global Health</i> , 2021, 9, e404.	2.9	9
35	Effects of Specific Virtual Reality-Based Therapy for the Rehabilitation of the Upper Limb Motor Function Post-Ictus: Randomized Controlled Trial. <i>Brain Sciences</i> , 2021, 11, 555.	1.1	14
36	Diagnostic accuracy of deep learning in medical imaging: a systematic review and meta-analysis. <i>Npj Digital Medicine</i> , 2021, 4, 65.	5.7	294
37	Artificial intelligenceâ€”enabled electrocardiograms for identification of patients with low ejection fraction: a pragmatic, randomized clinical trial. <i>Nature Medicine</i> , 2021, 27, 815-819.	15.2	154
38	Presenting artificial intelligence, deep learning, and machine learning studies to clinicians and healthcare stakeholders: an introductory reference with a guideline and a Clinical AI Research (CAIR) checklist proposal. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2021, 92, 513-525.	1.2	42

#	ARTICLE	IF	CITATIONS
39	Clinical use of machine learning-based pathomics signature for diagnosis and survival prediction of bladder cancer. <i>Cancer Science</i> , 2021, 112, 2905-2914.	1.7	23
40	Randomised controlled trials in medical AI: ethical considerations. <i>Journal of Medical Ethics</i> , 2022, 48, 899-906.	1.0	4
41	Artificial intelligence in oncology: Path to implementation. <i>Cancer Medicine</i> , 2021, 10, 4138-4149.	1.3	58
42	Augmented Intelligence in Ophthalmology: The Six Rights. <i>Asia-Pacific Journal of Ophthalmology</i> , 2021, 10, 231-233.	1.3	1
43	Applications of single-cell and bulk RNA sequencing in onco-immunology. <i>European Journal of Cancer</i> , 2021, 149, 193-210.	1.3	62
44	Reporting guidelines for artificial intelligence in healthcare research. <i>Clinical and Experimental Ophthalmology</i> , 2021, 49, 470-476.	1.3	26
45	Artificial intelligence in clinical decision support and outcome prediction – applications in stroke. <i>Journal of Medical Imaging and Radiation Oncology</i> , 2021, 65, 518-528.	0.9	14
46	Systematic review of machine learning models for personalised dosing of heparin. <i>British Journal of Clinical Pharmacology</i> , 2021, 87, 4124-4139.	1.1	10
47	Construction of an artificial intelligence system in dermatology: effectiveness and consideration of Chinese skin image database (CSID). <i>Intelligent Medicine</i> , 2021, 1, 56-56.	1.6	2
48	Use of deep learning to develop continuous-risk models for adverse event prediction from electronic health records. <i>Nature Protocols</i> , 2021, 16, 2765-2787.	5.5	41
49	Moving from bytes to bedside: a systematic review on the use of artificial intelligence in the intensive care unit. <i>Intensive Care Medicine</i> , 2021, 47, 750-760.	3.9	101
50	Articles That Use Artificial Intelligence for Ultrasound: A Reader's Guide. <i>Frontiers in Oncology</i> , 2021, 11, 631813.	1.3	4
51	Enhancing trust in clinical decision support systems: a framework for developers. <i>BMJ Health and Care Informatics</i> , 2021, 28, e100247.	1.4	14
52	Editorial: Artificial Intelligence (AI) in Clinical Medicine and the 2020 CONSORT-AI Study Guidelines. <i>Medical Science Monitor</i> , 2021, 27, e933675.	0.5	4
53	Overcoming barriers to implementation of artificial intelligence in gastroenterology. <i>Bailliere's Best Practice and Research in Clinical Gastroenterology</i> , 2021, 52-53, 101732.	1.0	6
54	Reducing racial bias in AI models for clinical use requires a top-down intervention. <i>Nature Machine Intelligence</i> , 2021, 3, 460-460.	8.3	8
55	Artificial Intelligence and Radiomics in Head and Neck Cancer Care: Opportunities, Mechanics, and Challenges. <i>American Society of Clinical Oncology Educational Book / ASCO American Society of Clinical Oncology Meeting</i> , 2021, 41, e225-e235.	1.8	12
56	Clinical integration of machine learning for curative-intent radiation treatment of patients with prostate cancer. <i>Nature Medicine</i> , 2021, 27, 999-1005.	15.2	78

#	ARTICLE	IF	CITATIONS
57	Ethical issues on artificial intelligence in radiology: how is it reported in research articles? The current state and future directions. <i>Journal of Medical Science</i> , 2021, 90, e513.	0.2	0
58	Machine learning in translation. <i>Nature Biomedical Engineering</i> , 2021, 5, 485-486.	11.6	4
59	Machine learning in clinical decision making. <i>Med</i> , 2021, 2, 642-665.	2.2	49
60	Investigation and evaluation of randomized controlled trials for interventions involving artificial intelligence. <i>Intelligent Medicine</i> , 2021, 1, 61-69.	1.6	3
61	Artificial intelligence in drug design: algorithms, applications, challenges and ethics. <i>Future Drug Discovery</i> , 2021, 3, .	0.8	21
62	Developing a reporting guideline for artificial intelligence-centred diagnostic test accuracy studies: the STARD-AI protocol. <i>BMJ Open</i> , 2021, 11, e047709.	0.8	102
63	Artificial intelligence projects in healthcare: 10 practical tips for success in a clinical environment. <i>BMJ Health and Care Informatics</i> , 2021, 28, e100323.	1.4	10
64	Artificial intelligence reporting guidelines: what the pediatric radiologist needs to know. <i>Pediatric Radiology</i> , 2022, 52, 2101-2110.	1.1	6
65	Ocular Imaging Standardization for Artificial Intelligence Applications in Ophthalmology: the Joint Position Statement and Recommendations From the Asia-Pacific Academy of Ophthalmology and the Asia-Pacific Ocular Imaging Society. <i>Asia-Pacific Journal of Ophthalmology</i> , 2021, 10, 348-349.	1.3	9
67	Discrepancies in Stroke Distribution and Dataset Origin in Machine Learning for Stroke. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2021, 30, 105832.	0.7	4
68	Clinical Natural Language Processing for Radiation Oncology: A Review and Practical Primer. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 110, 641-655.	0.4	30
69	Standardized Reporting of Machine Learning Applications in Urology: The STREAM-URO Framework. <i>European Urology Focus</i> , 2021, 7, 672-682.	1.6	23
71	Improving DCIS diagnosis and predictive outcome by applying artificial intelligence. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2021, 1876, 188555.	3.3	1
72	The AIMe registry for artificial intelligence in biomedical research. <i>Nature Methods</i> , 2021, 18, 1128-1131.	9.0	38
73	Artificial Intelligence in Imaging of Chronic Liver Diseases. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2021, 29, 451-463.	0.6	0
74	AI models and the future of genomic research and medicine: True sons of knowledge?. <i>BioEssays</i> , 2021, 43, 2100025.	1.2	2
75	Systematic Review of the Effectiveness of Machine Learning Algorithms for Classifying Pain Intensity, Phenotype or Treatment Outcomes Using Electroencephalogram Data. <i>Journal of Pain</i> , 2022, 23, 349-369.	0.7	8
76	Foundational Considerations for Artificial Intelligence Using Ophthalmic Images. <i>Ophthalmology</i> , 2022, 129, e14-e32.	2.5	43

#	ARTICLE	IF	CITATIONS
78	Review of study reporting guidelines for clinical studies using artificial intelligence in healthcare. <i>BMJ Health and Care Informatics</i> , 2021, 28, e100385.	1.4	35
79	Artificial intelligence for the next generation of precision oncology. <i>Npj Precision Oncology</i> , 2021, 5, 79.	2.3	13
80	Opportunities and challenges for artificial intelligence in clinical cardiovascular genetics. <i>Trends in Genetics</i> , 2021, 37, 780-783.	2.9	1
81	Medical student knowledge and critical appraisal of machine learning: a multicentre international cross-sectional study. <i>Internal Medicine Journal</i> , 2021, 51, 1539-1542.	0.5	8
82	Raising the Bar for Randomized Trials Involving Artificial Intelligence: The SPIRIT-Artificial Intelligence and CONSORT-Artificial Intelligence Guidelines. <i>Journal of Investigative Dermatology</i> , 2021, 141, 2109-2111.	0.3	15
83	Lack of Transparency and Potential Bias in Artificial Intelligence Data Sets and Algorithms. <i>JAMA Dermatology</i> , 2021, 157, 1362.	2.0	103
84	On the issue of ethical aspects of the artificial intelligence systems implementation in healthcare. <i>Digital Diagnostics</i> , 2021, 2, 356-368.	0.3	5
85	Radiomics in Oncology: A Practical Guide. <i>Radiographics</i> , 2021, 41, 1717-1732.	1.4	139
86	Knowledge and attitudes towards artificial intelligence in imaging: a look at the quantitative survey literature. <i>Clinical Imaging</i> , 2021, 80, 413-419.	0.8	10
87	Clinical Evaluation of AI in Medicine. , 2021, , 1-16.		0
88	Reporting Standards and Quality Assessment Tools in Artificial Intelligence Centered Healthcare Research. , 2021, , 1-11.		0
89	Artificial Intelligence in Pediatrics. , 2021, , 1-18.		2
90	Reporting guidelines for clinical trials of artificial intelligence interventions: the SPIRIT-AI and CONSORT-AI guidelines. <i>Trials</i> , 2021, 22, 11.	0.7	35
92	Autonomous Artificial Intelligence Safety and Trust. , 2021, , 55-67.		0
93	Harnessing multimodal data integration to advance precision oncology. <i>Nature Reviews Cancer</i> , 2022, 22, 114-126.	12.8	168
94	Updates in deep learning research in ophthalmology. <i>Clinical Science</i> , 2021, 135, 2357-2376.	1.8	19
95	A quality assessment tool for artificial intelligence-centered diagnostic test accuracy studies: QUADAS-AI. <i>Nature Medicine</i> , 2021, 27, 1663-1665.	15.2	76
96	Separating Hope from Hype. <i>Radiologic Clinics of North America</i> , 2021, 59, 1063-1074.	0.9	6

#	ARTICLE	IF	CITATIONS
97	Clinical impact and quality of randomized controlled trials involving interventions evaluating artificial intelligence prediction tools: a systematic review. <i>Npj Digital Medicine</i> , 2021, 4, 154.	5.7	49
98	The 2021 National Eye Institute Strategic Plan: Driving Innovation in Eye and Vision Research. , 2021, 62, 2.		4
99	Should we be guinea pigs for Google's artificial intelligence app?. <i>International Journal of Dermatology</i> , 2021, , .	0.5	0
100	Machine intelligence in non-invasive endocrine cancer diagnostics. <i>Nature Reviews Endocrinology</i> , 2022, 18, 81-95.	4.3	25
101	Nuclear Medicine and Artificial Intelligence: Best Practices for Algorithm Development. <i>Journal of Nuclear Medicine</i> , 2022, 63, 500-510.	2.8	43
102	Machine Learning for Health: Algorithm Auditing & Quality Control. <i>Journal of Medical Systems</i> , 2021, 45, 105.	2.2	23
103	Guidance for Interventional Trials Involving Artificial Intelligence. <i>Radiology: Artificial Intelligence</i> , 2020, 2, e200228.	3.0	7
104	Key principles of clinical validation, device approval, and insurance coverage decisions of artificial intelligence. <i>Journal of the Korean Medical Association</i> , 2020, 63, 696-708.	0.1	3
105	Advances in artificial intelligence and deep learning systems in ICU-related acute kidney injury. <i>Current Opinion in Critical Care</i> , 2021, 27, 560-572.	1.6	9
106	Analysis of the Regulatory, Legal, and Medical Conditions for the Prescription of Mobile Health Applications in the United States, The European Union, and France. <i>Medical Devices: Evidence and Research</i> , 2021, Volume 14, 389-409.	0.4	9
107	Artificial Intelligence: Review of Current and Future Applications in Medicine. , 2021, 38, 527-538.		12
108	Artificial Intelligence for Computer Vision in Surgery. <i>Annals of Surgery</i> , 2022, 275, e609-e611.	2.1	8
109	Advancing health equity with artificial intelligence. <i>Journal of Public Health Policy</i> , 2021, 42, 602-611.	1.0	34
110	Application of artificial intelligence and radiomics in pituitary neuroendocrine and sellar tumors: a quantitative and qualitative synthesis. <i>Neuroradiology</i> , 2022, 64, 647-668.	1.1	8
111	Developing Specific Reporting Standards in Artificial Intelligence Centred Research. <i>Annals of Surgery</i> , 2021, Publish Ahead of Print, e547-e548.	2.1	5
112	Checklist for Evaluation of Image-Based Artificial Intelligence Reports in Dermatology. <i>JAMA Dermatology</i> , 2022, 158, 90.	2.0	71
113	Reporting Guidelines for Clinical Trial Protocols and Reports of Implantable Neurostimulation Devices: Protocol for the SPIRIT-iNeurostim and CONSORT-iNeurostim Extensions. <i>Neuromodulation</i> , 2022, 25, 1045-1049.	0.4	3
114	Artificial intelligence and spine imaging: limitations, regulatory issues and future direction. <i>European Spine Journal</i> , 2022, , 1.	1.0	10

#	ARTICLE	IF	CITATIONS
115	Ideal algorithms in healthcare: Explainable, dynamic, precise, autonomous, fair, and reproducible. , 2022, 1, e0000006.		29
116	Technology-Enabled, Evidence-Driven, and Patient-Centered: The Way Forward for Regulating Software as a Medical Device. JMIR Medical Informatics, 2022, 10, e34038.	1.3	4
117	Bias Investigation in Artificial Intelligence Systems for Early Detection of Parkinsonâ€™s Disease: A Narrative Review. Diagnostics, 2022, 12, 166.	1.3	23
118	From Data to Deployment. Ophthalmology, 2022, 129, e43-e59.	2.5	16
119	The Effectiveness of Semi-Automated and Fully Automatic Segmentation for Inferior Alveolar Canal Localization on CBCT Scans: A Systematic Review. International Journal of Environmental Research and Public Health, 2022, 19, 560.	1.2	8
120	Quality assessment standards in artificial intelligence diagnostic accuracy systematic reviews: a meta-research study. Npj Digital Medicine, 2022, 5, 11.	5.7	27
121	Computational Models for Clinical Applications in Personalized Medicineâ€™ Guidelines and Recommendations for Data Integration and Model Validation. Journal of Personalized Medicine, 2022, 12, 166.	1.1	24
122	Evaluation of Artificial Intelligence Clinical Research Based on the NICE Evidence Standards Framework for Digital Health. SSRN Electronic Journal, 0, , .	0.4	0
123	Development and validation of a radiopathomics model to predict pathological complete response to neoadjuvant chemoradiotherapy in locally advanced rectal cancer: a multicentre observational study. The Lancet Digital Health, 2022, 4, e8-e17.	5.9	91
125	Interpretation of the DOME Recommendations for Machine Learning in Proteomics and Metabolomics. Journal of Proteome Research, 2022, 21, 1204-1207.	1.8	7
126	Artificial Intelligence in Pediatrics. , 2022, , 1029-1045.		0
127	Artificial Intelligence and Deep Learning in Ophthalmology. , 2022, , 1519-1552.		5
128	Clinical Evaluation of AI in Medicine. , 2022, , 645-660.		0
129	Reporting Standards and Quality Assessment Tools in Artificial Intelligenceâ€™Centered Healthcare Research. , 2022, , 385-395.		0
130	Explanatory pragmatism: a context-sensitive framework for explainable medical AI. Ethics and Information Technology, 2022, 24, 13.	2.3	13
131	To explain or not to explain?â€™ Artificial intelligence explainability in clinical decision support systems. , 2022, 1, e0000016.		49
132	Development of a code-free machine learning model for the classification of cataract surgery phases. Scientific Reports, 2022, 12, 2398.	1.6	15
133	Deep learning in image-based breast and cervical cancer detection: a systematic review and meta-analysis. Npj Digital Medicine, 2022, 5, 19.	5.7	45



#	ARTICLE	IF	CITATIONS
134	Artificial intelligence to detect malignant eyelid tumors from photographic images. <i>Npj Digital Medicine</i> , 2022, 5, 23.	5.7	19
135	Challenges in translational machine learning. <i>Human Genetics</i> , 2022, 141, 1451-1466.	1.8	10
136	A Framework for Augmented Intelligence in Allergy and Immunology Practice and Research—A Work Group Report of the AAAAI Health Informatics, Technology, and Education Committee. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2022, 10, 1178-1188.	2.0	15
137	Use of machine learning in osteoarthritis research: a systematic literature review. <i>RMD Open</i> , 2022, 8, e001998.	1.8	23
138	Drug Testing for Chronic Kidney Disease and Diabetes in Animals versus Humans: A Comparative Analysis of Study Designs and Reporting Qualities. <i>Nephron</i> , 2022, 146, 503-513.	0.9	0
139	Understanding and interpreting artificial intelligence, machine learning and deep learning in Emergency Medicine. <i>Emergency Medicine Journal</i> , 2022, 39, 380-385.	0.4	11
140	Understanding Artificial Intelligence and Predictive Analytics. <i>JBJS Reviews</i> , 2022, 10, .	0.8	6
141	Translating promise into practice: a review of machine learning in suicide research and prevention. <i>Lancet Psychiatry</i> , 2022, 9, 243-252.	3.7	26
142	The medical algorithmic audit. <i>The Lancet Digital Health</i> , 2022, 4, e384-e397.	5.9	85
143	Trustworthy AI: Closing the gap between development and integration of AI systems in ophthalmic practice. <i>Progress in Retinal and Eye Research</i> , 2022, 90, 101034.	7.3	34
144	Expert recommendation on collection, storage, annotation, and management of data related to medical artificial intelligence. <i>Intelligent Medicine</i> , 2023, 3, 144-149.	1.6	6
145	Key considerations for the use of artificial intelligence in healthcare and clinical research. <i>Future Healthcare Journal</i> , 2022, 9, 75-78.	0.6	13
146	ICU Cockpit: a platform for collecting multimodal waveform data, AI-based computational disease modeling and real-time decision support in the intensive care unit. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2022, 29, 1286-1291.	2.2	10
147	A proposal for developing a platform that evaluates algorithmic equity and accuracy. <i>BMJ Health and Care Informatics</i> , 2022, 29, e100423.	1.4	16
148	Artificial Intelligence Algorithms in Diabetic Retinopathy Screening. <i>Current Diabetes Reports</i> , 2022, 22, 267-274.	1.7	4
149	Towards a safe and efficient clinical implementation of machine learning in radiation oncology by exploring model interpretability, explainability and data-model dependency. <i>Physics in Medicine and Biology</i> , 2022, 67, 11TR01.	1.6	21
150	The performance of wearable sensors in the detection of SARS-CoV-2 infection: a systematic review. <i>The Lancet Digital Health</i> , 2022, 4, e370-e383.	5.9	38
151	Artificial intelligence-enabled decision support in nephrology. <i>Nature Reviews Nephrology</i> , 2022, 18, 452-465.	4.1	21

#	ARTICLE	IF	CITATIONS
152	A bias evaluation checklist for predictive models and its pilot application for 30-day hospital readmission models. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2022, 29, 1323-1333.	2.2	30
153	Ethics methods are required as part of reporting guidelines for artificial intelligence in healthcare. <i>Nature Machine Intelligence</i> , 2022, 4, 316-317.	8.3	9
154	Future Guidelines for Artificial Intelligence in Echocardiography. <i>Journal of the American Society of Echocardiography</i> , 2022, 35, 878-882.	1.2	10
155	On the brink of transformation. <i>International Journal of Health Sciences</i> , 0, , 4020-4039.	0.0	0
156	Artificial intelligence for the prevention and clinical management of hepatocellular carcinoma. <i>Journal of Hepatology</i> , 2022, 76, 1348-1361.	1.8	75
157	Reporting guideline for the early-stage clinical evaluation of decision support systems driven by artificial intelligence: DECIDE-AI. <i>Nature Medicine</i> , 2022, 28, 924-933.	15.2	125
158	Reporting guideline for the early stage clinical evaluation of decision support systems driven by artificial intelligence: DECIDE-AI. <i>BMJ, The</i> , 2022, 377, e070904.	3.0	70
160	Les innovations d'™intelligence artificielle en radiologie Ãpreuve des rÃgulations du systÃme de santÃ. <i>RÃseaux</i> , 2022, NÃ 232-233, 65-97.	0.1	5
161	Operationalising AI governance through ethics-based auditing: an industry case study. <i>AI and Ethics</i> , 2023, 3, 451-468.	4.6	16
162	Artificial intelligence and machine learning algorithms for early detection of skin cancer in community and primary care settings: a systematic review. <i>The Lancet Digital Health</i> , 2022, 4, e466-e476.	5.9	69
163	Artificial intelligence and clinical deterioration. <i>Current Opinion in Critical Care</i> , 2022, 28, 315-321.	1.6	7
164	Explainability as fig leaf? An exploration of experts'™ ethical expectations towards machine learning in psychiatry. <i>AI and Ethics</i> , 2023, 3, 303-314.	4.6	4
165	Bioinspired tactile perception platform with information encryption function. <i>Chinese Physics B</i> , 2022, 31, 098506.	0.7	4
166	Changes in software as a medical device based on artificial intelligence technologies. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2022, 17, 1969-1977.	1.7	8
167	Recognition and Segmentation of Individual Bone Fragments with a Deep Learning Approach in CT Scans of Complex Intertrochanteric Fractures: A Retrospective Study. <i>Journal of Digital Imaging</i> , 0, , .	1.6	2
168	Models for Classifying AI Systems: The Switch, the Ladder, and the Matrix. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
170	A descriptive appraisal of quality of reporting in a cohort of machine learning studies in anaesthesiology. <i>Anaesthesia, Critical Care &amp; Pain Medicine</i> , 2022, 41, 101126.	0.6	3
171	Machine Learning Methods in Health Economics and Outcomes Research'™The PALISADE Checklist: A Good Practices Report of an ISPOR Task Force. <i>Value in Health</i> , 2022, 25, 1063-1080.	0.1	24

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172	Shifting machine learning for healthcare from development to deployment and from models to data. <i>Nature Biomedical Engineering</i> , 2022, 6, 1330-1345.	11.6	69
173	Narrative Review of Machine Learning in Rheumatic and Musculoskeletal Diseases for Clinicians and Researchers: Biases, Goals, and Future Directions. <i>Journal of Rheumatology</i> , 0, , jrheum.220326.	1.0	3
174	Machine Learning in the Prediction of Trauma Outcomes: A Systematic Review. <i>Annals of Emergency Medicine</i> , 2022, 80, 440-455.	0.3	6
175	Artificial Intelligence and Deep Learning for Rheumatologists. <i>Arthritis and Rheumatology</i> , 2022, 74, 1893-1905.	2.9	27
176	A Perspective on a Quality Management System for AI/ML-Based Clinical Decision Support in Hospital Care. <i>Frontiers in Digital Health</i> , 0, 4, .	1.5	1
177	Generative adversarial networks and synthetic patient data: current challenges and future perspectives. <i>Future Healthcare Journal</i> , 2022, 9, 190-193.	0.6	36
178	Holistic Approach for Artificial Intelligence Implementation in Pharmaceutical Products Lifecycle: A Meta-Analysis. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 8373.	1.3	3
179	The silent trial - the bridge between bench-to-bedside clinical AI applications. <i>Frontiers in Digital Health</i> , 0, 4, .	1.5	4
180	An updated systematic review of radiomics in osteosarcoma: utilizing CLAIM to adapt the increasing trend of deep learning application in radiomics. <i>Insights Into Imaging</i> , 2022, 13, .	1.6	7
181	Artificial intelligence in the detection of skin cancer. <i>Journal of the American Academy of Dermatology</i> , 2022, 87, 1336-1342.	0.6	17
182	Uncertainty-aware deep learning in healthcare: A scoping review. , 2022, 1, e0000085.		14
183	Assessment of Adherence to Reporting Guidelines by Commonly Used Clinical Prediction Models From a Single Vendor. <i>JAMA Network Open</i> , 2022, 5, e2227779.	2.8	13
184	A systematic review of radiomics in pancreatitis: applying the evidence level rating tool for promoting clinical transferability. <i>Insights Into Imaging</i> , 2022, 13, .	1.6	9
185	Study design of deep learning based automatic detection of cerebrovascular diseases on medical imaging: a position paper from Chinese Association of Radiologists. <i>Intelligent Medicine</i> , 2022, 2, 221-229.	1.6	1
186	The diagnostic and triage accuracy of digital and online symptom checker tools: a systematic review. <i>Npj Digital Medicine</i> , 2022, 5, .	5.7	42
187	Scoping review of the current landscape of AI-based applications in clinical trials. <i>Frontiers in Public Health</i> , 0, 10, .	1.3	12
188	Artificial Intelligence in Colorectal Cancer Surgery: Present and Future Perspectives. <i>Cancers</i> , 2022, 14, 3803.	1.7	12
189	Building trust in real-world data: lessons from INSIGHT, the UK's health data research hub for eye health and ophthalmics. <i>Current Opinion in Ophthalmology</i> , 2022, 33, 399-406.	1.3	3



#	ARTICLE	IF	CITATIONS
209	Equity within AI systems: What can health leaders expect?. Healthcare Management Forum, 2023, 36, 119-124.	0.6	9
210	Artificial intelligence: A review of current applications in hepatocellular carcinoma imaging. Diagnostic and Interventional Imaging, 2023, 104, 24-36.	1.8	12
211	Protocol for the development of SPIRIT and CONSORT extensions for randomised controlled trials with surrogate primary endpoints: SPIRIT-SURROGATE and CONSORT-SURROGATE. BMJ Open, 2022, 12, e064304.	0.8	2
212	Ethical and Policy Issues. , 2022, , 505-525.		1
213	Methods for Clinical Evaluation of Artificial Intelligence Algorithms for Medical Diagnosis. Radiology, 2023, 306, 20-31.	3.6	30
215	Development and external validation of automated detection, classification, and localization of ankle fractures: inside the black box of a convolutional neural network (CNN). European Journal of Trauma and Emergency Surgery, 2023, 49, 1057-1069.	0.8	5
216	Utilizing artificial intelligence and electroencephalography to assess expertise on a simulated neurosurgical task. Computers in Biology and Medicine, 2023, 152, 106286.	3.9	4
217	Developing robust benchmarks for driving forward AI innovation in healthcare. Nature Machine Intelligence, 2022, 4, 916-921.	8.3	11
218	Deep-learning-based personalized prediction of absolute neutrophil count recovery and comparison with clinicians for validation. Journal of Biomedical Informatics, 2023, 137, 104268.	2.5	2
219	Artificial Intelligence, Wearables and Remote Monitoring for Heart Failure: Current and Future Applications. Diagnostics, 2022, 12, 2964.	1.3	12
220	Resiliente und robuste KI-Systeme im praktischen Einsatz. , 2023, , 199-211.		0
221	Intelligent oncology: The convergence of artificial intelligence and oncology. Journal of the National Cancer Center, 2023, 3, 83-91.	3.0	3
222	An interpretable artificial intelligence system for detecting risk factors of gastroesophageal variceal bleeding. Npj Digital Medicine, 2022, 5, .	5.7	4
223	AAPM task group report 273: Recommendations on best practices for AI and machine learning for computer-aided diagnosis in medical imaging. Medical Physics, 2023, 50, .	1.6	16
224	Evaluation of a real-time computer-aided polyp detection system during screening colonoscopy: AI-DETECT study. Endoscopy, 2023, 55, 313-319.	1.0	17
225	Economics of Artificial Intelligence in Healthcare: Diagnosis vs. Treatment. Healthcare (Switzerland), 2022, 10, 2493.	1.0	29
226	Neurosurgery inpatient outcome prediction for discharge planning with deep learning and transfer learning. British Journal of Neurosurgery, 0, , 1-5.	0.4	0
227	Construction of machine learning-based models for cancer outcomes in low and lower-middle income countries: A scoping review. Frontiers in Oncology, 0, 12, .	1.3	1

#	ARTICLE	IF	CITATIONS
228	Reporting the early stage clinical evaluation of virtual-reality-based intervention trials: RATE-VR. <i>Nature Medicine</i> , 2023, 29, 12-13.	15.2	5
229	Machine Learning for Predicting Intubations in Heart Failure Patients: the Challenge of the Right Approach. <i>Cardiovascular Drugs and Therapy</i> , 0, , .	1.3	0
230	Artificial intelligence clinical trials and critical appraisal: a necessity. <i>ANZ Journal of Surgery</i> , 2023, 93, 1141-1142.	0.3	7
231	The next generation of evidence-based medicine. <i>Nature Medicine</i> , 2023, 29, 49-58.	15.2	129
233	AI in radiology: is it the time for randomized controlled trials?. <i>European Radiology</i> , 0, , .	2.3	0
234	PRISMA AI reporting guidelines for systematic reviews and meta-analyses on AI in healthcare. <i>Nature Medicine</i> , 2023, 29, 14-15.	15.2	18
235	The Switch, the Ladder, and the Matrix: Models for Classifying AI Systems. <i>Minds and Machines</i> , 2023, 33, 221-248.	2.7	3
236	Ethics & AI: A Systematic Review on Ethical Concerns and Related Strategies for Designing with AI in Healthcare. <i>AI</i> , 2023, 4, 28-53.	2.1	17
237	Image augmentation and automated measurement of endotracheal-tube-to-carina distance on chest radiographs in intensive care unit using a deep learning model with external validation. <i>Critical Care</i> , 2023, 27, .	2.5	3
238	On the Horizon: Specific Applications of Automation and Artificial Intelligence in Anesthesiology. <i>Current Anesthesiology Reports</i> , 2023, 13, 31-40.	0.9	1
239	AI Reporting Guidelines: How to Select the Best One for Your Research. <i>Radiology: Artificial Intelligence</i> , 2023, 5, .	3.0	16
240	Artificial intelligence in oral radiology: A checklist proposal. <i>Journal of Oral and Maxillofacial Radiology</i> , 2022, 10, 63.	0.2	0
241	Deep learning: A primer for dentists and dental researchers. <i>Journal of Dentistry</i> , 2023, 130, 104430.	1.7	20
242	Artificial Intelligence for Early Sepsis Detection: A Word of Caution. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2023, 207, 853-854.	2.5	5
243	Artificial intelligence in pancreatic cancer: diagnosis, limitations, and the future prospectsâ€”a narrative review. <i>Journal of Cancer Research and Clinical Oncology</i> , 2023, 149, 6743-6751.	1.2	3
244	Assessment of artificial intelligence (AI) reporting methodology in glioma MRI studies using the Checklist for AI in Medical Imaging (CLAIM). <i>Neuroradiology</i> , 2023, 65, 907-913.	1.1	5
245	Framework and metrics for the clinical use and implementation of artificial intelligence algorithms into endoscopy practice: recommendations from the American Society for Gastrointestinal Endoscopy Artificial Intelligence Task Force. <i>Gastrointestinal Endoscopy</i> , 2023, 97, 815-824.e1.	0.5	10
246	Integrating artificial intelligence into an ophthalmologistâ€™s workflow: obstacles and opportunities. <i>Expert Review of Ophthalmology</i> , 2023, 18, 45-56.	0.3	2

#	ARTICLE	IF	CITATIONS
247	Introducing Computer Vision into Healthcare Workflows. <i>Computers in Health Care</i> , 2023, , 43-62.	0.2	1
248	The Role of Artificial Intelligence in Monitoring Inflammatory Bowel Diseaseâ€”The Future Is Now. <i>Diagnostics</i> , 2023, 13, 735.	1.3	1
249	Editorial: Surfacing best practices for AI software development and integration in healthcare. <i>Frontiers in Digital Health</i> , 0, 5, .	1.5	2
250	Quality assessment of stroke radiomics studies: Promoting clinical application. <i>European Journal of Radiology</i> , 2023, 161, 110752.	1.2	3
251	Implementing Machine Learning in the Electronic Health Record: Checklist of Essential Considerations. <i>Mayo Clinic Proceedings</i> , 2023, 98, 366-369.	1.4	4
252	Artificial Intelligence in Breast Imaging: Challenges of Integration Into Clinical Practice. <i>Journal of Breast Imaging</i> , 0, , .	0.5	1
253	Artificial intelligence as a diagnostic aid in cross-sectional radiological imaging of surgical pathology in the abdominopelvic cavity: a systematic review. <i>BMJ Open</i> , 2023, 13, e064739.	0.8	2
254	Big Data in Stroke: How to Use Big Data to Make the Next Management Decision. <i>Neurotherapeutics</i> , 2023, 20, 744-757.	2.1	4
255	Machine Learning Approaches to Understand Cognitive Phenotypes in People With HIV. <i>Journal of Infectious Diseases</i> , 2023, 227, S48-S57.	1.9	14
256	A Review of the Technology, Training, and Assessment Methods for the First Real-Time AI-Enhanced Medical Device for Endoscopy. <i>Bioengineering</i> , 2023, 10, 404.	1.6	7
257	Exploring the potential of artificial intelligence in improving skin lesion diagnosis in primary care. <i>Scientific Reports</i> , 2023, 13, .	1.6	11
258	Artificial Intelligence and Machine Learning in Clinical Medicine, 2023. <i>New England Journal of Medicine</i> , 2023, 388, 1201-1208.	13.9	214
259	The Clinical Researcher Journey in the Artificial Intelligence Era: The PAC-MANâ€™s Challenge. <i>Healthcare (Switzerland)</i> , 2023, 11, 975.	1.0	2
260	Evaluating the generalizability of deep learning image classification algorithms to detect middle ear disease using otoscopy. <i>Scientific Reports</i> , 2023, 13, .	1.6	3
261	Can specific virtual reality combined with conventional rehabilitation improve poststroke hand motor function? A randomized clinical trial. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2023, 20, .	2.4	3
262	Blinded, randomized trial of sonographer versus AI cardiac function assessment. <i>Nature</i> , 2023, 616, 520-524.	13.7	46
263	Artificial intelligence in precision medicine. , 2023, , 531-569.		1
264	The Emerging Role of Artificial Intelligence in Valvular Heart Disease. <i>Heart Failure Clinics</i> , 2023, , .	1.0	1



#	ARTICLE	IF	CITATIONS
265	Commentary: Patient Perspectives on Artificial Intelligence; What have We Learned and How Should We Move Forward?. <i>Advances in Therapy</i> , 0, , .	1.3	3
266	AI-Based CXR First Reading: Current Limitations to Ensure Practical Value. <i>Diagnostics</i> , 2023, 13, 1430.	1.3	1
274	Outcome Prediction. , 2023, , 105-133.		0
277	What's fair isâ€¦ fair? Presenting JustEFAB, an ethical framework for operationalizing medical ethics and social justice in the integration of clinical machine learning. , 2023, , .		3
287	Automated Reporting of Medical Diagnostic Imaging for Early Disease and Aging Biomarkers Detection. <i>Healthy Ageing and Longevity</i> , 2023, , 15-30.	0.2	0
291	Technical skill assessment in minimally invasive surgery using artificial intelligence: a systematic review. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2023, 37, 7412-7424.	1.3	5
294	Outlook of future landscape of artificial intelligence in health care of liver disease and challenges. , 2023, , 309-322.		0
300	Systematic review of deep learning image analyses for the diagnosis and monitoring of skin disease. <i>Npj Digital Medicine</i> , 2023, 6, .	5.7	3
301	Recommendations for the use of pediatric data in artificial intelligence and machine learning ACCEPT-AI. <i>Npj Digital Medicine</i> , 2023, 6, .	5.7	4
303	Artificial intelligence and urology: ethical considerations for urologists and patients. <i>Nature Reviews Urology</i> , 2024, 21, 50-59.	1.9	7
305	Challenges of Artificial Intelligence in Medicine. , 2023, , .		0
306	Hierarchical Discriminative Learning Improves Visual Representations of Biomedical Microscopy. , 2023, , .		2
307	Artificial intelligence in orthopedics. , 2024, , 235-243.		0
312	AI Usage Cards: Responsibly Reporting AI-Generated Content. , 2023, , .		2
324	Towards a single goodness metric of clinically relevant, accurate, fair and unbiased machine learning predictions of health-related quality of life. , 2023, , .		0
325	Machine Learning in Practiceâ€”Evaluation of Clinical Value, Guidelines. , 2023, , 247-261.		0
326	Challenges of Machine Learning and AI (What Is Next?), Responsible and Ethical AI. , 2023, , 263-285.		0
337	Considerations in the assessment of machine learning algorithm performance for medical imaging. , 2024, , 473-507.		0



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