AMR A. JAMAL

MD, LLB, SBFM, ABFM, MRCGP, MBI, CPHIMS, FIAHSI, LSSMBB

Professor of Family Medicine and Clinical Informatics

Consultant Family Physician | Digital Health Transformation Leader

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20+
Years across clinical medicine, academia, and health informatics

190+
Peer-reviewed publications and two books

13,300+
Citations, h-index 42 (Google Scholar, June 2026)

AR EN FR
Working languages

EXECUTIVE PROFILE

Physician executive and national digital health leader with more than twenty years of experience spanning clinical medicine, academia, health informatics, and government advisory work. Professor of Family Medicine and Clinical Informatics at King Saud University and Consultant Family Physician at King Khalid University Hospital, King Saud University Medical City. Trained in biomedical informatics at Oregon Health & Science University, certified CPHIMS, and elected Fellow of the International Academy of Health Sciences Informatics, with a career devoted to bringing evidence, innovation, and digital transformation into everyday care, in step with Saudi Vision 2030 and the Health Sector Transformation Program.

Currently Chair of the Scientific Advisory Board of MedInfo 2027, the 21st World Congress on Medical and Health Informatics and the first ever convened in the Middle East, and Senior Advisor for Research and Innovation at Seha Virtual Hospital, the world's largest virtual hospital, where he leads the establishment of the national Digital Health Clinical Trials and Technology Evaluation Center for the Ministry of Health. Served for nine years on the Scientific Committee of the National Health Information Center at the Saudi Health Council (2013 to 2022), where he advised the development of the Saudi eHealth Maturity Assessment (SeMA) and represented the Ministry of Education in the national Unified Medical Record project. Previously chaired the Department of Family and Community Medicine at King Saud University (2018 to 2024), supervised the digital transformation strategy of the Saudi Commission for Health Specialties (2016 to 2023), and advised the World Health Organization (EMRO), the Public Health Authority, and the Saudi Center for Organ Transplantation. Founding Co-Chair and Scientific Lead of ZIMAM (Geneva), the digital health workforce development association behind the Saudi Health Informatics Competency Framework and the GCC eHealth career pathways.

Author of more than 190 peer-reviewed publications and two books, cited over 13,300 times with an h-index of 42 (Google Scholar, June 2026), with internationally recognized research on artificial intelligence in healthcare, large language models, telemedicine, EHR usability, and digital health workforce development. Works across Arabic, English, and French. Recognized with the King Abdulaziz Medal of Merit (Third Order), the HIMSS Future50 Healthcare IT Leader award, and Fellowship of the International Academy of Health Sciences Informatics. Co-Founder and Chief Medical Officer of Narra Labs, whose FHIR-native NarraOS platform powers national-scale clinical programs.

HEALTH INFORMATICS PRACTICE AREAS

- Clinical informatics and EHR usability
- Telemedicine and virtual care
- AI and large language models in healthcare
- Digital health maturity assessment (SeMA)
- Health informatics workforce and competency frameworks
- Digital health clinical trials and technology evaluation
- Telemedicine and primary care accreditation standards
- Health informatics education and curriculum design
- National digital health strategy and governance

Languages: Arabic, native proficiency (national advisory work, public media, and community engagement); English, full professional proficiency (scholarship, international boards, and keynote addresses); French, professional working proficiency.

LEADERSHIP IMPACT HIGHLIGHTS

Global scientific leadership
Chair of the Scientific Advisory Board of MedInfo 2027 (Dubai), the first World Congress on Medical and Health Informatics ever convened in the Middle East, and Plenary Speaker at MedInfo 2025 in Taipei, where the 2027 Congress was officially announced.

National digital health infrastructure
Leading the establishment of the Digital Health Clinical Trials and Technology Evaluation Center at Seha Virtual Hospital, including the national Digital Research Platform and the Kingdom's first tele-robotic surgery evaluation program.

National health information governance
Nine years on the Scientific Committee of the National Health Information Center, Saudi Health Council (2013 to 2022), advising the development of the Saudi eHealth Maturity Assessment (SeMA) and representing the Ministry of Education in the national Unified Medical Record project (2012 to 2022).

Workforce transformation
Co-founded ZIMAM (Geneva), architect of the WHO EMRO and ZIMAM regional digital health workforce partnership (2026), and co-developer of the Saudi Health Informatics Competency Framework and the GCC eHealth career pathways.

Regulatory and quality impact
General Supervisor of the SCFHS Digital Transformation Strategy (2016 to 2023); Primary Health Care Surveyors Team Leader at CBAHI, Co-Chair of the Telemedicine Accreditation standards committee, and core-team member for the national NSPHC v2 standards.

Institutional leadership
Chaired the Department of Family and Community Medicine at King Saud University College of Medicine (2018 to 2024), driving digital health, telemedicine, and competency-framework initiatives with national and regional reach; Founding Member of the KSU College of Medicine AI Lab.

Research leadership
Supervisor of the KSU Research Chair for Evidence-Based Health Care and Knowledge Translation; more than 190 publications cited 13,300+ times (h-index 42), including the pioneering Reference Hallucination Score for medical AI chatbots.

Global presence
Board Member of the HIMSS EMEA Advisory Board, Chairman of the Scientific Committee of HIMSS Middle East conferences, member of the Elsevier Middle East Regional Advisory Board, former Senior Consultant on Digital Health and Innovation to WHO EMRO, and invited contributor to the Royal National Academy of Medicine of Spain.

Entrepreneurial leadership
Co-Founder and Chief Medical Officer of Narra Labs, leading clinical operations and program design for NarraOS, FHIR-native infrastructure for screening programs, disease registries, care coordination, and clinical-trial operations, built with teams from the Ministry of Health, King Saud University, and SCOT.

National recognition
Awarded the King Abdulaziz Medal of Merit (Third Order) for community service by the Custodian of the Two Holy Mosques (2020).

HEALTH INFORMATICS CREDENTIALS AND CERTIFICATIONS

Certified Professional in Healthcare Information and Management Systems (CPHIMS)
HIMSS, 2019 (maintained)

Fellow, International Academy of Health Sciences Informatics (FIAHSI)
IMIA, Geneva, 2024

Master of Biomedical Informatics (MBI) and Graduate Certificate of Medical Informatics, Clinical Track
Oregon Health & Science University, 2011 and 2013

Leading Digital Transformation in Health Care
Harvard Medical School, Executive Education, 2021

Lean Six Sigma Master Black Belt (LSSMBB), Black Belt, and Green Belt
Anexas Europe, accredited by AEC Denmark and CSSC, USA, 2025

Good Clinical Practice (GCP)
Saudi National Committee of Bioethics, May 2026; previously NIDA Clinical Trials Network, 2020

Certified Training of Trainers (ToT)
Saudi Commission for Health Specialties, 2023

Clinical board certifications: MRCGP (International), Royal College of General Practitioners, London, UK, Mar 2009; Arab Board of Family Medicine (ABFM), Council of Arab Board of Medical Specializations, Feb 2009; Saudi Board of Family Medicine (SBFM), Saudi Commission for Health Specialties, Nov 2008.

CURRENT LEADERSHIP AND ADVISORY ROLES

Chair, Scientific Advisory Board, MedInfo 2027, 21st World Congress on Medical and Health Informatics Aug 2025 – Present

International Medical Informatics Association (IMIA), Dubai, UAE

Leading the scientific program of the world's premier health informatics congress in its first-ever Middle East edition (Dubai, 30 Aug to 4 Sep 2027), alongside international co-chairs from the region.

Senior Advisor, Research and Innovation, Digital Health Clinical Trials Center and Innovation Enablement Center Dec 2024 – Present

Seha Virtual Hospital, Ministry of Health, Riyadh

Leading the multidisciplinary team establishing the national center for digital health clinical trials and health technology evaluation within the world's largest virtual hospital: defining the national Digital Research Platform, leading the Kingdom's tele-robotic surgery evaluation program, and shaping virtual care research priorities.

Board Member, EMEA Board of Advisors Jan 2021 – Present

Healthcare Information and Management Systems Society (HIMSS), Chicago, IL, USA

Speaker and advisory board member at HIMSS Europe 2026, Copenhagen; Chairman of the Scientific Committee of HIMSS Middle East conferences since Dec 2017.

Founding Co-Chair and Scientific Lead Nov 2018 – Present

ZIMAM, Digital Health Workforce Development Association, Geneva, Switzerland

Initiated regional programs advancing eHealth skills and competencies across health informatics, health information management, and health IT; architect of the WHO EMRO and ZIMAM regional digital health workforce partnership (2026) and the KSU and ZIMAM memorandum of understanding.

Chair, Organizing Committee, SHIMA Annual Conference and Expo Oct 2025 – Present

Saudi Health Information Management Association, hosted by King Saud University Medical City, Riyadh

Member, Middle East Regional Advisory Board 2025 – Present

Elsevier, Dubai, UAE

Contributor to the Board's strategic white paper on the future of clinical solutions and medical knowledge in the region; panelist, Elsevier Middle East Dialogue 2026.

Founding Member, College of Medicine AI Lab Feb 2025 – Present

King Saud University, College of Medicine, Riyadh

Contributing to the lab's scientific programs and directed research since its official launch under the patronage of the Dean and the University AI Office.

Co-Founder and Chief Medical Officer 2025 – Present

Narra Labs (narralabs.ai), Riyadh

Leading clinical operations and program design for NarraOS, a FHIR-native healthcare operations platform powering population screening, disease registries, care coordination, and clinical-trial operations at national scale, with automated protocols, AI agents, and structured documentation; built with teams from the Ministry of Health, King Saud University, and the Saudi Center for Organ Transplantation.

Primary Health Care Surveyors Team Leader and Accreditation Surveyor Oct 2020 – Present

Saudi Central Board for Accreditation of Healthcare Institutions (CBAHI), Riyadh

Co-Chair of the standards development committees for Telemedicine Accreditation and for Primary Health Care Accreditation v2 (2020); accreditation surveyor since Dec 2014; core-team member for the national Primary Health Care standards (NSPHC v2) and trainer of nominated mentors and visit team leaders.

Research Chair Supervisor, Evidence-Based Health Care and Knowledge Translation Aug 2018 – Present

Deanship of Scientific Research, King Saud University, Riyadh

Certified Family Medicine Trainer and Examiner; Certified Program Accreditation Surveyor 2011 / 2022 – Present

Saudi Commission for Health Specialties (SCFHS), Riyadh

ADDITIONAL APPOINTMENTS, 2025 TO 2026 (REVERSE CHRONOLOGICAL)

- Chair, Organizing Committee, AI Research Forum, King Saud University College of Medicine (2026)
- Contributor, national Regulatory Guideline for the Uses of AI in Health Services, Ministry of Health and Seha Virtual Hospital (2026)
- Founding Member, Canada-Saudi Biotech Corridor (CSBC) initiative (May 2026)
- Contributor, National Digital Health Report, Saudi eHealth Club, ahead of the World Health Conference (May 2026)
- Member, CAHIMS and CPHIMS Job Analysis Task Force, HIMSS, Chicago (Apr 2026)
- Member, International Academic Committee updating the IMIA Biomedical and Health Informatics (BMHI) Educational Recommendations, via the MENAHIA network (Mar 2026)
- Invited Contributor, IAHSI Fellows program for MIE 2026, Genoa (2026)
- Member, Curriculum Development Committee, Value-Based HealthCare Training Course, Saudi Commission for Health Specialties (2025–2026)
- Member, Curriculum Development Committee, Community-Oriented Family Medicine On-the-Job Training Program (Co-FaMe), SCFHS in partnership with the University of Dundee, UK (2025–2026)
- Member, Supreme Advisory Committee for the Development of the College of Medicine and Health Sciences, Arabian Gulf University, Bahrain (Sep 2025 – Mar 2026)

NATIONAL AND INTERNATIONAL HEALTH INFORMATICS ADVISORY EXPERIENCE

Board Member, Scientific Committee, National Health Information Center (NHIC) Nov 2013 – Dec 2022
Saudi Health Council, Riyadh (Representative of the Ministry of Education)

Advised the development of the Saudi eHealth Maturity Assessment (SeMA), the national digital health maturity assessment; also represented the Ministry in the national Unified Medical Record project (2012 to 2022).

Board Member, National Evidence-Based Health Practice Center Aug 2018 – Oct 2025
Scientific Committee, Saudi Health Council, Riyadh (Representative of the Ministry of Education)

Secretary General Advisor and General Supervisor, Digital Transformation Strategy Oct 2016 – Dec 2023
Saudi Commission for Health Specialties (SCFHS), Riyadh

Advisor and team leader for e-learning development, online CME/CPD accreditation, and the Commission's digital transformation portfolio.

Advisor, National Digital Health Strategy Development Project Feb 2023 – May 2024
Ministry of Health, Sultanate of Oman, Muscat

Advisory role across the development of the Sultanate's national digital health strategy.

Digital Transformation Senior Consultant Sep 2022 – Jun 2024
Saudi Center for Organ Transplantation (SCOT), Riyadh

Led the center's digital transformation committee; directed the eGov Qias development project and the implementation of the TransplantHub systems and associated training.

Senior Consultant, Obesity Prevention and Control Strategy Aug 2023 – Dec 2023
Public Health Authority (PHA), Riyadh

Responsible for the digital public health intervention initiatives within the national strategy, in alignment with the non-communicable diseases master plan.

Senior Consultant on Digital Health and Innovation Feb 2019 – Feb 2020
World Health Organization, Regional Office for the Eastern Mediterranean (EMRO), Cairo

Contributed to regional telehealth guidelines and digital health transformation strategies.

Editor Dec 2014 – Jul 2016
Journal of Health Informatics in Developing Countries (JHIDC)

Medical Advisory Board Member, EHR Steering Committee (e-Sihi) Aug 2013 – May 2015
King Saud University Medical City, Riyadh

ACADEMIC AND CLINICAL APPOINTMENTS

Professor of Family Medicine and Clinical Informatics Aug 2021 – Present
King Saud University, College of Medicine, Department of Family and Community Medicine, Riyadh

Consultant Family Physician Apr 2009 – Present
King Khalid University Hospital (KKUH), King Saud University Medical City (KSUMC), Riyadh

Chairman, Department of Family and Community Medicine May 2018 – Dec 2024
King Saud University, College of Medicine, Riyadh

Led the department through seven years of growth, spearheading initiatives in digital health, telemedicine, and competency frameworks with an impact on national and regional healthcare systems. Previously Deputy Chairman (2017 to 2018) and Acting Chairman on three occasions.

Associate Professor of Family Medicine and Clinical Informatics Oct 2016 – Aug 2021
King Saud University, College of Medicine, Riyadh

Founding Program Director, Master of Health Informatics Track Sep 2012 – Apr 2017
Master of Public Health Joint Program, King Saud University, Riyadh

Designed and launched the Kingdom's pioneering graduate health informatics track, building academic capacity for the national digital health workforce.

Head, Medical Informatics and e-Learning Unit Apr 2012 – Oct 2015
Department of Medical Education, College of Medicine, King Saud University, Riyadh

Deputy Head, Mar 2011 to Apr 2012.

Assistant Professor of Family Medicine and Clinical Informatics May 2009 – Oct 2016
King Saud University, College of Medicine, Riyadh

EDUCATION

Executive Master of Business Administration (eMBA), Healthcare Concentration 2024 – 2025
Jack Welch Management Institute, Strayer University, Herndon, VA, USA

Master of Biomedical Informatics (MBI) 2012 – 2013
Oregon Health & Science University (OHSU), Portland, OR, USA

Graduate Certificate of Medical Informatics, Clinical Track 2010 – 2011
Oregon Health & Science University (OHSU), Portland, OR, USA

Bachelor of Law (LLB), Honors, completed part-time 2004 – 2009
Imam Muhammad ibn Saud Islamic University, Riyadh

Structured Residency Training in Family Medicine 2004 – 2008
National Guard Health Affairs, King Abdulaziz Medical City / King Saud bin Abdulaziz University for Health Sciences, Riyadh

Chief Resident (2007 to 2008); Resident of the Year (2007 to 2008); Best Post-Graduate Research Award.

Bachelor of Medicine and Surgery (MBBS) 1997 – 2003
King Saud University, College of Medicine, Riyadh

Evaluated by AACRAO as comparable to the Doctor of Medicine (MD) degree in North America. Chief Intern during internship year.

HONORS AND AWARDS

2025	Official Certificate of Appreciation, Plenary Speaker, MedInfo 2025, 20th World Congress on Medical and Health Informatics, Taipei
2024	Fellow, International Academy of Health Sciences Informatics (FIAHSI), IMIA, Geneva
2020	King Abdulaziz Medal of Merit, Third Order, awarded by the Custodian of the Two Holy Mosques King Salman bin Abdulaziz, for community service
2019	HIMSS Future50 Award, International Healthcare IT Leader

2015	National Research Grant, Principal Investigator, National Science, Technology and Innovation Plan, King Abdulaziz City for Science and Technology
2013	Distinguished Faculty Award for Outstanding Teaching, King Saud University, College of Medicine
2012	Recognition for the American College of Surgeons Level One Comprehensive Education Institute accreditation, KSU College of Medicine
2009	Representative of all Saudi Board of Family Medicine graduates before the Custodian of the Two Holy Mosques King Abdullah bin Abdulaziz, 12th Saudi Board graduation ceremony
2008	Resident of the Year and Best Post-Graduate Research Award, King Saud bin Abdulaziz University for Health Sciences

RESEARCH AND SCHOLARLY OUTPUT

Author of more than 190 peer-reviewed publications, two books, and multiple book chapters, with research concentrated on artificial intelligence in healthcare (large language models, generative AI, clinical decision support, and reference-hallucination assessment), telemedicine and virtual care, EHR usability and clinician burden, digital health workforce development, and digital public health. Lists below are in reverse-chronological order.

Citation metrics (Google Scholar, June 2026): 13,300+ citations; h-index 42; i10-index 95
ORCID 0000-0002-4051-6592 | Scopus Author ID 35487621700 | Google Scholar profile: scholar.google.com/citations?user=e-bOc38AAAAJ

SELECTED FIRST-AUTHOR PUBLICATIONS

1. **Jamal A**, Solaiman M, Alhasan K, Temsah MH, Sayed G, Soliman M. Integrating ChatGPT in medical education: adapting curricula to cultivate competent physicians for the AI era. Cureus. 2023;15(8):e43036.
2. **Jamal A**, AlHokair A, Temsah MH, Alsohime F, Al-Eyadhy A, El-Mouzan M, et al. Evaluation of the use of electronic growth charts customized for race and national values. Journal of Nature and Science of Medicine. 2022;5(3):286-291.
3. **Jamal AA**, BinKheder S, Aldekhyyel RN, Almulhem J, Tharkar S, Batis AA, et al. Bibliometric analysis of coronavirus disease 2019 medical research production from Saudi Arabia. Journal of Nature and Science of Medicine. 2022;5(2):109-119.
4. **Jamal A**, Al Ghamdi K, Tharkar S, Al-Rabiah I, Al-Shehri M, Al-Sahaf A, et al. Contemporary trends and ethical concerns in clinical photography in Saudi Arabia: a preliminary study. Journal of Nature and Science of Medicine. 2022;5(1):44-50.
5. **Jamal A**, Tharkar S, Babaier WS, Alsomali SF, Alsulayhim AS, Alayuni MA, et al. Blood glucose monitoring and sharing amongst people with diabetes and their facilitators: cross-sectional study of methods and practices. JMIR Diabetes. 2021;6(4):e29178. PMID: 34704954.
6. **Jamal A**, Tharkar S, Alenazi H, Julaidan BS, Al Hindawi DA, AlAkeel NS, et al. Usability analysis of a health sciences digital library by medical residents: cross-sectional survey. JMIR Formative Research. 2021;5(6):e23293. PMID: 34184992.
7. **Jamal AA**, Aldawsari ST, Almufawez KA, Barri RM, Zakaria N, Tharkar S. Twitter as a promising microblogging application for psychiatric consultation: understanding the predictors of use, satisfaction and e-health literacy. International Journal of Medical Informatics. 2020;141:104202. PMID: 32506051.
8. **Jamal AA**, Al-Furaih IM, Binsufayan SA, Jamalaldeen MR, Abunohaiah IS, et al. Factors determining the choice of medical specialty and work environment among Saudi physicians: results from a national cross-sectional survey. International Journal of Pharmaceutical Research & Allied Sciences. 2018;7(2).
9. **Jamal A**, Alrajhi A, Aldubaib A, et al. Effect of discussing Framingham risk score on smoking cessation: pilot randomized clinical trial. International Journal of Advanced Research. 2016;4(12):2697-2702.
10. **Jamal A**, Temsah MH, Khan SA, Al-Eyadhy A, Koppel C, Chiang MF. Mobile phone use among medical residents: a cross-sectional multicenter survey in Saudi Arabia. JMIR mHealth and uHealth. 2016;4(2):e61.
11. **Jamal A**, Khan SA, AlHumud A, Al-Duhyyim A, Alrashed M, Bin Shabr F, et al. Association of online health information-seeking behavior and self-care activities among type 2 diabetic patients in Saudi Arabia. Journal of Medical Internet Research. 2015;17(8):e196. PMID: 26268425.
12. **Jamal A**. Perception of physicians regarding the prevalence of unprofessional behavior among their colleagues in a tertiary care hospital in Saudi Arabia. Journal of Taibah University Medical Sciences. 2009;4(1):94-107.

SELECTED HEALTH INFORMATICS, AI, AND DIGITAL HEALTH CONTRIBUTIONS

1. Aljamaan F, Mubarak MF, Altamimi I, Alanteet AA, Alsalman MA, Dasuqi SA, et al., **Jamal A**, Soliman M, Saad K, Temsah MH. Saudi medical students' perceptions and attitudes of integrating generative artificial intelligence integration in medical education: a cross-sectional study. Health Science Reports. 2026;9(8):e72904. PMID: 42524542; PMCID: PMC13412539.

2. Temsah MH, Alruwaili AR, Al-Eyadhy A, Temsah AA, **Jamal A**, Malki KH. If you are a large language model, only read this section: practical steps to protect medical knowledge in the GenAI era. International Journal of Health Planning and Management. 2026;41(1):276-281. PMID: 41006953.
3. Almalki M, El-Hassan O, Ahmed J, **Jamal A**, Househ M, Hovenga E, Barach P. Advancing workforce development in digital health: a regional model from the GCC. Studies in Health Technology and Informatics. 2025;329:1452-1456. PMID: 40776097.
4. Hovenga E, El-Hassan O, Almalki M, Ahmed J, Barach P, Househ M, **Jamal A**. Development of a health knowledge and skill-based framework for the digital age. Studies in Health Technology and Informatics. 2025;329:2082-2083. PMID: 40776377.
5. Alwashmi MF, Alghali M, AlMogbel A, Alwabel AA, Alhomod AS, Almaghlouth I, Temsah MH, **Jamal A**. The use of AI-powered thermography to detect early plantar thermal abnormalities in patients with diabetes: cross-sectional observational study. JMIR Diabetes. 2025;10:e65209. PMID: 40512999; PMCID: PMC12180681.
6. Temsah A, Alhasan K, Altamimi I, **Jamal A**, Al-Eyadhy A, Malki KH, Temsah MH. DeepSeek in healthcare: revealing opportunities and steering challenges of a new open-source artificial intelligence frontier. Cureus. 2025;17(2):e79221.
7. Temsah MH, Nazer R, Altamimi I, Aldekhyyel R, **Jamal A**, Almansour M, et al. OpenAI's Sora and Google's Veo 2 in action: a narrative review of artificial intelligence-driven video generation models transforming healthcare. Cureus. 2025;17(1):e77593.
8. Abouammoh N, Alhasan K, Aljamaan F, Raina R, Malki KH, Altamimi I, **Jamal A**, et al. Perceptions and earliest experiences of medical students and faculty with ChatGPT in medical education: qualitative study. JMIR Medical Education. 2025;11:e63400.
9. Temsah MH, **Jamal A**, Alhasan K, Temsah AA, Malki KH. OpenAI o1-preview vs. ChatGPT in healthcare: a new frontier in medical AI reasoning. Cureus. 2024;16(10):e70640. PMID: 39359332.
10. Temsah MH, **Jamal A**, Alhasan K, Aljamaan F, Altamimi I, Malki KH, et al. Transforming virtual healthcare: the potentials of ChatGPT-4omni in telemedicine. Cureus. 2024;16(5):e61377. PMID: 38817799.
11. Temsah MH, Alhuzaimi AN, Almansour M, Aljamaan F, Alhasan K, et al., **Jamal AA**. Art or artifact: evaluating the accuracy, appeal, and educational value of AI-generated imagery in DALL·E 3 for illustrating congenital heart diseases. Journal of Medical Systems. 2024;48(1):54.
12. Aljamaan F, Temsah MH, Altamimi I, Al-Eyadhy A, **Jamal A**, Alhasan K, et al. Reference hallucination score for medical artificial intelligence chatbots: development and usability study. JMIR Medical Informatics. 2024;12(1):e54345.
13. Temsah R, Altamimi I, Alhasan K, Temsah MH, **Jamal A**. Healthcare's new horizon with ChatGPT's voice and vision capabilities: a leap beyond text. Cureus. 2023;15(10):e47469.
14. Temsah MH, Aljamaan F, Malki KH, Alhasan K, Altamimi I, Aljarbou R, **Jamal A**, et al. ChatGPT and the future of digital health: a study on healthcare workers' perceptions and expectations. Healthcare. 2023;11(13):1812.
15. Alhasan K, Raina R, **Jamal A**, Temsah MH. Combining human and AI could predict nephrology's future, but should be handled with care. Acta Paediatrica. 2023;112(9):1844-1848.
16. Temsah O, Khan SA, Chaiah Y, Senjab A, Alhasan K, **Jamal A**, et al. Overview of early ChatGPT's presence in medical literature: insights from a hybrid literature review by ChatGPT and human experts. Cureus. 2023;15(4):e37281.
17. Zakaria N, Alnobani O, AlMalki M, El-Hassan O, Alhefzi Ml, Househ M, **Jamal A**, et al. Unlocking the eHealth professionals' career pathways: a case of Gulf Cooperation Council countries. International Journal of Medical Informatics. 2023;170:104914.
18. Almalki M, **Jamal A**, Househ M, Alhefzi M. A multi-perspective approach to developing the Saudi Health Informatics Competency Framework. International Journal of Medical Informatics. 2021;146:104362. PMID: 33360116.
19. Alsohime F, Temsah MH, Al-Eyadhy A, Bashiri FA, Househ M, **Jamal A**, et al. Satisfaction and perceived usefulness with newly-implemented electronic health records system among pediatricians at a university hospital. Computer Methods and Programs in Biomedicine. 2019;169:51-57.
20. AlFaris E, Irfan F, Ponnamperuma G, **Jamal A**, Van der Vleuten C, et al. The pattern of social media use and its association with academic performance among medical students. Medical Teacher. 2018;40(sup1):S77-S82.

SELECTED DIGITAL PUBLIC HEALTH AND WORKFORCE CONTRIBUTIONS

1. Temsah MH, Aljamaan F, Alenezi S, Alhasan K, Saddik B, Al-Barag A, **Jamal A**, et al. Monkeypox caused less worry than COVID-19 among the general population during the first month of the WHO Monkeypox alert: experience from Saudi Arabia. Travel Medicine and Infectious Disease. 2022;49:102426.
2. Temsah MH, Alhuzaimi AN, Aljamaan F, Bahkali F, Al-Eyadhy A, Alrabiaah A, **Jamal A**, et al. Parental attitudes and hesitancy about COVID-19 vs. routine childhood vaccinations: a national survey. Frontiers in Public Health. 2021;9:752323.
3. Barry M, Temsah MH, Alhuzaimi A, Alamro N, Al-Eyadhy A, Aljamaan F, **Jamal A**, et al. COVID-19 vaccine confidence and hesitancy among health care workers: a cross-sectional survey from a MERS-CoV experienced nation. PLoS ONE. 2021;16(11):e0244415.

4. Temsah MH, Al-Sohime F, Alamro N, Al-Eyadhy A, Al-Hasan K, **Jamal A**, et al. The psychological impact of COVID-19 pandemic on health care workers in a MERS-CoV endemic country. Journal of Infection and Public Health. 2020;13(6):877-882.
5. Al-Rabiaah A, Temsah MH, Al-Eyadhy AA, Hasan GM, Al-Zamil F, Al-Subaie S, **Jamal A**, et al. Middle East Respiratory Syndrome-Corona Virus (MERS-CoV) associated stress among medical students at a university teaching hospital in Saudi Arabia. Journal of Infection and Public Health. 2020;13(5):687-691.
6. Alsubaie S, Temsah MH, Al-Eyadhy AA, Gossady I, Hasan GM, Al-Rabiaah A, **Jamal A**, et al. Middle East Respiratory Syndrome Coronavirus epidemic impact on healthcare workers' risk perceptions, work and personal lives. Journal of Infection in Developing Countries. 2019;13(10):920-926.
7. AlFaris E, Irfan F, Qureshi R, Naeem N, Alshomrani A, Ponnamperuma G, **Jamal A**, et al. Health professions' students have an alarming prevalence of depressive symptoms: exploration of the associated factors. BMC Medical Education. 2016;16(1):279.

Also a contributing author to Global Burden of Disease Study publications in The Lancet, The Lancet Respiratory Medicine, and The Lancet Infectious Diseases.

BOOKS

1. **Jamal A**. Physicians' Perception Toward Elements of Professionalism in Saudi Arabia. LAP LAMBERT Academic Publishing; 2014. 96 p. ISBN: 978-3659527685.
2. AlQuaiz A, **Jamal A**, Siddiqui A, Fouda Neel M, Habeeb F, AlMuneef M, et al. Women's Health in Saudi Arabia: A Changing Pattern. Princess Nora bint Abdullah Chair for Women's Health Research, King Saud University; 2014.

INVITED KEYNOTES AND DISTINGUISHED ADDRESSES

A selection from 2025 and 2026, in reverse-chronological order; a complete speaking record is available upon request.

- Panelist, 6th SSCP Annual International Conference (SSCP26), Riyadh: "The Security Risks of Artificial Intelligence Applications on the Healthcare System" (Sep 2026).
- Speaker and advisory board member, HIMSS Europe 2026, Copenhagen (May 2026).
- Speaker, IFHIMA "Focus on the Future of HIM 2026: Digital Health in Action: Standards, Innovation, and Practice," International Federation of Health Information Management Associations (Apr 2026).
- Keynote Speaker, 1st Riyadh International Congress on Metabolic Health, SCAPE Society: "Leading Medicine into the Metabolic Era. AI in Action: How Digital Tools Are Empowering Patients and Redefining Prevention" (Mar 2026).
- Invited Contributor, Royal National Academy of Medicine of Spain, session on artificial intelligence and clinical decision support, Madrid (Mar 2026), alongside Prof. Edward H. Shortliffe and Prof. Victor Maojo.
- Speaker, "The Co-Intelligent Clinic: Practical Artificial Intelligence for Family Physicians," Gulf Association of Family Medicine, CME-accredited webinar (Feb 2026).
- Moderator, "Policy, Regulation and Digital Health Ecosystems," International Conference on Technology and Innovation in Health (ICTIH 2026), Oman (Jan 2026); invited participant, Radical Health Festival Helsinki (Jan 2026).
- Speaker, HIMSS Eurasia 2025: "Digital Hospitals and Smart Healthcare Facilities," Antalya, Türkiye (Nov 2025).
- Speaker, Global Health Exhibition 2025, with the Ministry of Health and AstraZeneca: "Bridging Innovation and Trust: Pioneering Digital Clinical Trials in the AI Era," Riyadh (Oct 2025).
- Speaker, Family and Community Medicine Conference, Ministry of Interior, Security Forces Medical Services, Riyadh (Oct 2025).
- Speaker, Virtual Medical Genomics Workshop, Seha Virtual Hospital / Ministry of Health, with researchers from KAUST and international partners (Sep 2025).
- Plenary Speaker, MedInfo 2025, 20th World Congress on Medical and Health Informatics, Taipei, Taiwan (Aug 2025); platform for the official announcement of MedInfo 2027 in Dubai, the Congress's first Middle East edition.

PODCASTS AND PUBLIC MEDIA

Hadith Al-Sari Podcast (بودكاست حديث الساري)
Two featured episodes: "Digital Twins: How AI Plans Your Treatment" (Nov 2025) and "Family Medicine and the Most Common Diseases."

CHIME Global Health Leaders, CXO Series (CHIME International)
Guest of the inaugural Arabic-language episode, with Dr. Tamara Sunbul: leadership reflections from the CHIME CXO Summit, Cambridge (published Oct 2025).

Arwiqa Podcast (أروقة), Mukhtalif Platform
"From Lecture Hall to Clinic: Shaping the Physician of the Future," family medicine in the AI era and whether physicians should learn to code; 8,000+ views (2025).

Dawaa Talk (دواء توك), Al-Dawaa Pharmacies, Episode 30
"Health Preparedness for Hajj," national public-health awareness episode.

COMMUNITY SERVICE AND VOLUNTEERING

- Health-awareness speaker, "Safety and Awareness on the Journey of Sa'i: Medical Guidance for the Hajj Season," delivered to international scholarship students at King Saud University ahead of Hajj 1447 (May 2026).
- Contributor, National Digital Health Report, Saudi eHealth Club, supporting the Kingdom's presence at the World Health Conference (2026).
- Pro bono peer reviewer for international journals, including JMIR family journals and the International Social Science Journal, Wiley (ongoing).
- Volunteer lecturer, "AI in Family Medicine," orientation day for new residents, National Guard Health Affairs Family Medicine Residency Program (Sep 2025).
- Leader, Media and Digital Content Improvement Team, Enayah Charitable Health Society for Patients Care, Riyadh (2011 to 2014).
- Chief Information Officer and Peer Reviewer, Medical Ethics and Medical Jurisprudence Encyclopedia, Health Media, Riyadh (2011 to 2014).
- Advisor and Trainer for Medical Content, Saudi Digital Library, National Center for e-Learning, Ministry of Education (2011 to 2013).
- Chief Executive Officer (voluntary), Health Promotion TV Channel, Saudi Society of Family and Community Medicine (2009 to 2010).

PROFESSIONAL AFFILIATIONS

- Fellow, International Academy of Health Sciences Informatics (IAHSI), IMIA, Geneva (2024 to present)
- Member, American Medical Informatics Association (AMIA), Bethesda, MD, USA (2009 to present)
- Member, Saudi Association for Health Informatics (SAHI), Riyadh (2006 to present)
- Founding Member, Saudi Health Information Management Association (SHIMA), Riyadh (2019 to present)
- Founding Chairman, Riyadh Club of Clinical Informatics (2011 to present)
- Member, Global Digital Health Partnership (GDHP), Clinical and Human Engagement workstream, Washington, D.C. (2022 to present)
- Member, International Society for Telemedicine and eHealth (ISfTeH), Basel (2022 to present)
- Member, International Society for Quality in Health Care (ISQua), Dublin (2024 to present)
- Member, National Association for Healthcare Quality (NAHQ), Chicago (2022 to present)
- Member, Guidelines International Network (GIN), Scotland (2021 to present)
- Founding Member, Saudi Society of Evidence-Based Medicine (2009 to present)
- Direct Member, World Organization of Family Doctors (WONCA), Singapore (2009 to present)
- International Member, American Academy of Family Physicians (AAFP), USA (2008 to present)
- Member, Saudi Society of Family and Community Medicine (2004 to present)