

Mohamed Khalifa

MD, PhD, PGDip, MSc, MRCSEd, CPHIMS

Leading Expert, Consultant, and Director

Healthcare Strategy | Business Intelligence | Digital Health Project Management

Australian Permanent Resident – Distinguished Talent Visa – Subclass 124

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Career Summary: Knowledge, Experiences, and Skills

Over 20 years, I led multidisciplinary healthcare teams to develop and implement evidence-based solutions to direct healthcare strategy, planning, and operations of healthcare services. Using health analytics, business intelligence, and healthcare management, I led diverse projects of healthcare improvement, enhancing the effectiveness, efficiency, timeliness, and safety of healthcare services. Over the last 7 years I published +50 studies and was granted my first innovation patent with IP Australia. Experience areas include: Healthcare Strategic Management, Healthcare Performance Improvement, Digital Health Project Management, Healthcare Business Intelligence, Health Informatics, Health Analytics and Big Data, Healthcare Quality Management, and Healthcare Education and Training.

Professional Profiles

MQ University Researchers: <https://researchers.mq.edu.au/en/persons/mohamed-khalifa>

Google Scholar: <http://scholar.google.com/citations?user=v14bOcUAAAAJ&hl=en&oi=sra>

Research Gate: http://www.researchgate.net/profile/Mohamed_Khalifa9

LinkedIn: <https://www.linkedin.com/in/mohamed-khalifa-md-phd-3873976/>

Work Experience (2001 to Present)

July 2020 – Present

Digital Health Officer

The Australian Digital Health Agency – The Australian Government

- Leading digital health projects and activities
- Developing and implementing national digital health capability frameworks
- Developing new clinical pathways and digital health tools to support the current and future healthcare workforce to use digital health technologies more confidently.
- Defining the strategy and objectives for the deliverables in line with the Agency's work plan.
- Undertake data gathering, modelling and analysis to capture baseline measures, identify exceptions and recommend solutions.

Feb 2017 – June 2020

Consultant, Healthcare Strategy and Analytics

Center for Health Informatics, Australian Institute of Health Innovation, Faculty of Medicine, Health and Human Sciences, Macquarie University, Sydney, Australia

- Directing different research projects and activities
- Leading the design, administration, and monitoring of research activities
- Analyzing and evaluating clinical data gathered during research
- Supervising compliance with protocol and overall research objectives
- Managing the application to ethics committees and grants
- Managing the work among several researchers across multiple organizations

2012 – 2017

Consultant & Director, Healthcare Strategy and Performance Improvement

Consultant & Director, Medical and Clinical Informatics

King Faisal Specialist Hospital and Research Center, Jeddah, Saudi Arabia

- Directing healthcare strategy and performance improvement projects
 - Reducing unnecessary lab tests by 14%
 - Reducing overutilization of healthcare services by 18%
 - Reducing avoidable hospital admissions by 10%
 - Improving laboratory results turnaround time by 12%
 - Improving emergency department productivity and efficiency by 45%
 - Improving HIS & CDSS utilization by 20%
 - Developing hospital-wide strategic key performance indicators
 - Developing departmental strategic scorecards and operational dashboards
- Establishing the medical and clinical informatics department and sections; nursing informatics, lab informatics, pharmacy automation, data warehouse and clinical IT in 2013
- Supporting the hospital successful accreditation of HIMSS level 6 in 2014
- Establishing the health information technology affairs research group in 2014
- Establishing clinical services and performance improvement research group in 2015
- Publishing +20 researches on healthcare strategy and performance improvement
- Establishing 8 professional training programs in healthcare management and informatics
- Providing consultation support for over 10 hospital supreme and executive committees including strategic planning, enterprise reporting and policy and procedures committees

2011 – 2017

Faculty Member, Program Manager, and Instructor

The American University in Cairo, Egypt

Logistics for Consultations and Development, Jeddah, Saudi Arabia

Directing, managing, and teaching different AUC programs including:

- Healthcare and Hospital Management Post-Graduate Diploma
- Total Quality Management for Healthcare Post-Graduate Diploma
- Human Resource Management Post-Graduate Diploma

2004 – 2017

Founder and Director of the Medical Informatics Program

Scientific Informatics Research Academy, Cairo, Egypt

- Developing and launching medical informatics post-graduate diploma program in 2004
- Conducting marketing analysis and segmentation for local and international markets
- Developing marketing strategies, targets, and goals

- Introducing medical informatics program to third parties by preparing demos and orientation lectures for both management and technology levels
- Teaching different modules of the medical informatics diploma program

2002 – Present

Independent Consultant/Program Director

Healthcare Strategic Management, Quality, and Performance Improvement

Health, Medical, and Clinical Information Systems Project Management

Providing on-site consultations for Middle East and Arabian Gulf hospitals in fields of:

- Strategy, performance improvement, and project management
- Project management for health, medical and clinical information systems
- Planning of phasing, selection, and implementation of the HIS, CIS and PACS
- Evaluating current and proposed HIS, CIS and conducting gap analysis
- Providing feedback on the HIS and CIS performance and periodic evaluation
- Developing end user training programs and teaching materials
- Developing system manuals, system guidelines and policies and procedures
- Analyzing departmental and specialty requests and problems' solving
- Optimizing HIS and CIS business workflows and processes
- Preparing statistics and information analysis for top level and strategic management

2006 – 2012

Director, Health Information Technology Program

Director, Continuous Medical Education Program

Director, Business Development and Marketing

General Academic Director of the Institute

Capitals Institute of Health Sciences, Jeddah, Saudi Arabia

- Directing and managing all academic departments, sections and activities
- Developing three years undergraduate health information technology program
- Developing program curriculum, teaching and training materials
- Developing program assessment and evaluation methods
- Developing postgraduate healthcare professionals' short courses and CME – continuous medical education programs in healthcare management and health informatics
- Designing strategies for business development and planning marketing management

2004 – 2008

Consultant and Program Director

Health Informatics Feasibility, Strategy, and Marketing

Healthcare Information Systems Investment Projects

Veritas Analytics, Inc, United States - Middle East Investment Projects

- Conducting feasibility studies, strategic management and marketing plans for health informatics, health information systems, electronic health records, and clinical databases products in the regional area of the Middle East and Arabian Gulf
- Providing detailed information, market research documented with references and sources, about national plans and directions for health information technologies and applications
- Developing recommendations through SWOT analysis to overcome challenges
- Conducting market analysis for business opportunities and investment feasibility
- Conducting analysis of communication channels and business approach methodologies

2002 – 2006

Health Informatics Consultant, Projects, and Business Development Manager

Health Insights (Healthcare Information Systems Vendor), Cairo, Dubai, and Riyadh

- Leading pre-sale activities and processes, including market analysis, business development, designing sales presentations, supporting sales teams, providing solutions knowledge to sales, supporting strategic and marketing functions, and conducting solutions demos and meetings for top-level management of potential clients
- Supporting clinical information systems analysis, customer business and healthcare processes analysis and study, workflows design and system requirements gathering
- Supporting project management and implementation at different hospitals and sites
- Designing and developing health information system modules for different clinical specialties including the medical content as well as the visual interface
- Designing and developing clinical pathways and clinical decision support tools
- Developing and implementing hospital and clinical systems' training programs

2001 – 2002

Clinical Coordinator and Health Information Manager

Gamma Knife Center, Nasser Institute Hospital, Cairo, Egypt

Managed by Scandinavian Care Management, Swedish Healthcare Management Organization running the center as a shared project between Egyptian and Swedish governments

- Developing the Gamma Knife Center Clinical and Management Information System, providing patient registration, scheduling, admission, assessment, reporting, treatment record, billing and follow up of treated patients in addition to generating automated performance statistics, progress indicators and management decision support information
- Establishing patient workflow processes of clinical management and documentation
- Directing and managing the center daily activities, conferences, maintaining contacts with local authorities and organizations (ministry of health, governmental insurance, governmental companies, ministries, and organizations plus private sector organizations)
- Conducting market analysis, segmentation studies, and SWOT analysis for both inside and outside markets, including data base marketing and business planning

2001 – 2001

GP – General Practitioner Physician

Ministry of Health Hospitals and some private institutions, Cairo, Egypt

2000 – 2001

House Officer Physician

Ain Shams University Hospitals, Cairo, Egypt

Education

Feb 2017 – Feb 2020

PhD – Doctor of Philosophy in Health Innovation

Center for Health Informatics, Australian Institute of Health Innovation, Faculty of Medicine, Health and Human Sciences, Macquarie University, Sydney, Australia

Awarded a Commonwealth Government Funded Research Program PhD Scholarship

Research Title: Developing an Evidence-Based Framework for Grading and Assessment of Clinical Decision Support Systems

2009 – 2012

MSc – Master of Science in Health Informatics

The Faculty of Health Informatics, Royal College of Surgeons of Edinburgh

The University of Edinburgh, United Kingdom

Masters Research Title: Overcoming Barriers of Health Information Systems and Electronic Medical Records Implementation in the Middle East Hospitals

2001 – 2004

PGDip – Post Graduate Diploma of Healthcare and Hospital Management

AUC - The American University in Cairo, Egypt

Graduation Research: Healthcare Management Information Systems, Research Title: Computer Based Patient Record – Future Technology for Healthcare Security

1993 – 2001

MBBS – Bachelor of Medicine and Surgery

Ain Shams University, Cairo, Egypt

Certifications

- FAIDH - Member of Fellowship by Training Program, Australasian Institute of Digital Health.
- MRCSEd – Member of the Royal College of Surgeons of Edinburgh, United Kingdom. College Reference Number: 89320
- Advisor, CPHIMS Technical Committee, HIMSS – Healthcare Information and Management Systems Society, United States. Served the position from 2015 to 2017
- Accredited Trainer, CPHIMS – Certified Professional in Healthcare Information & Management Systems, Healthcare Information & Management Systems Society, United States
- CPHIMS – Certified Professional in Healthcare Information and Management Systems, by the HIMSS – Healthcare Information and Management Systems Society, United States. Certificate Number: 000700299391
- Member of the HISA – Health Informatics Society of Australia
- Member of the CXIO Network – Chief X Information Officers clinical leaders, affiliated with the Australasian Institute of Digital Health
- Member of the HIMSS - Healthcare Information and Management Systems Society, United States. Member ID: 000700299391
- Member of the AHIMA – American Health Information Management Association, United States. Member ID: 1192766

Scientific Contributions, Research & International Publications

- +35 Scientific Contributions (Conferences, Seminars, and Events)
- +55 International Publications (Papers and Book Chapters)
- Reviewer in +15 International Journals

Details are provided upon request