

Curriculum vitae

Personal Information	
Name	Ahmed Mahmoud Zaki Mohamed
Surname	El-Malky
Date of birth	28 th August 1983
Nationality	Egyptian
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Profile	Doctor of Public Health concentrating in Patient Safety, Epidemiology, Environmental Health, and international health policies. Researcher and community organizer with a strong focus towards improving the quality of life through health communication and cooperation with local governments. Fluent in English, French and conversational in German.
Activities	<ul style="list-style-type: none"> • CEO and Co-director of “Foundation of Research Experts and Statistical Consultations Association” • Member in the team of international referees of WHO CPGs’ Appraisal in Healthcare System in Afghanistan and the team of CPGs’ Appraisal of AGREE II evaluation tool in cardiac science and obstetrics.
Education and Qualifications accomplished	
Aug 2019- Oct 2023 (ongoing)	Ph.D. (Doctor of Philosophy Degree) in Public Health and Community Medicine) Ph.D.PH High Institute of Public Health. Alexandria University, Alexandria, Egypt <u>Concentration:</u> Environmental Health and Clinical Disease Epidemiology <u>Course work:</u> epidemiology, child, adolescent and maternal health, school and occupational health, geriatric medicine, environmental sanitation, human nutrition and statistics (4 years on campus , studied in English language) <u>Honors:</u> Thesis:
Oct 2012	M.Sc. (Master of Science Degree) in Public Health (MPH) Kasr Alaini School of Medicine and Surgery, Cairo University, Cairo, Egypt <u>Concentration:</u> patient safety, healthcare management and clinical disease epidemiology <u>Course work:</u> epidemiology, child, adolescent and maternal health, school and occupational health, geriatric medicine, environmental sanitation, human nutrition and statistics (4 years on campus , studied in English language) <u>Honors:</u> Grade Very Good, GPA 4.00 <u>Thesis:</u> Assessment of Blood Sampling Errors in Chronic Liver Disease Patients in Theodor Bilharz Research Institute. Published on Research Gate https://www.researchgate.net/publication/332342960
March 2012	American Board in Healthcare Quality (CPHQ), National Agency of Healthcare Quality (NAHQ), Washington D.C., United States of America (USA) Accredited by the National Commission for Certifying Agencies a Division of the National Organization for Competency Assurance (internet based MCQs test)
April 2010	Post Graduate Diploma in Healthcare Quality, Cambridge Training College, United Kingdom (on line modules)



Dec 2009	Professional Post Graduate Diploma in Total Quality Management for Healthcare reform, American University in Cairo (AUC), Cairo, Egypt (1 year on campus, studied in English language)
Nov 2006	Bachelor Degree (MBBCH) in Medicine and Surgery (Medicinae Baccalaureus, Baccalaureus Chirurgiae) Kasr Alaini School of Medicine, Cairo University, Cairo, Egypt Grade Excellent with Honors (6 years on campus, studied in English language)

Titles provided	
2018	Deputy Supervisor Hospital Morbidity and Mortality Review Unit, Clinical Disease Epidemiology, Public Health Department, King Saud University Medical City, Riyadh, Saudi Arabia
2015	Registrar Hospital Morbidity and Mortality Review Unit, Clinical Disease Epidemiology, Public Health Department, King Saud University Medical City, Riyadh, Saudi Arabia
2012	Certified Professional of Healthcare Quality National Commission for Certifying Agencies, Washington D.C., USA
2011	Resident Hospital Morbidity and Mortality Review Unit, Clinical Disease Epidemiology, Public Health Department, King Saud University Medical City, Riyadh, Saudi Arabia
2009	Registrar in Healthcare Quality Egyptian Medical Syndicate, Cairo, Egypt
2007	Resident in Public Health department Theodor Bilharz Research Institute, Cairo, Egypt

Experience and Post graduate Appointments and posts assigned	
March 2007-March 08	Intern in Cairo University Hospitals , Cairo, Egypt
June 2008- March 11	Resident Public Health and Clinical Research Department (full time) Theodor Bilharz Research Institute (TBRI) Regional Location of World Health Organization Scientific Research Academy Ministry of Higher Education and Scientific Research Cairo- Egypt
Dec 2010- March 2011	Coordinator of Healthcare Quality Management Internal Medicine Hospital (part time) Kasr Alaini School of Medicine, Cairo University, Cairo, Egypt
April 2011- May 15	Resident and Coordinator (full time) Clinical Outcome Review and Improvement Unit Hospital Morbidity and Mortality Review Unit Clinical Disease Epidemiology, Public Health and Clinical Research Department, King Saud University Medical City, King Khalid University Hospital Riyadh, Kingdom of Saudi Arabia
June 2015-April 18	Senior Registrar of Medical Services (full time) Clinical Outcome Review and Improvement Unit

May 2018–Current Post	Hospital Morbidity and Mortality Review Unit Clinical Disease Epidemiology, Public Health and Clinical Research Department, King Saud University Medical City, King Khalid University Hospital Riyadh, Kingdom of Saudi Arabia <u>Deputy Supervisor</u>
	Clinical Outcome Review and Improvement Unit Hospital Morbidity and Mortality Review Unit Clinical Disease Epidemiology, Public Health and Clinical Research Department, King Saud University Medical City, King Khalid University Hospital Riyadh, Kingdom of Saudi Arabia <u>Lecturer and instructor</u>
May 2019- Current post	Research Methodology and Scientific Writing Public Health and Community Medicine Department Clinical Research Unit, and Quality Management Unit King Saud University Medical City, King Khalid University Hospital Riyadh, Kingdom of Saudi Arabia <u>Part time Researcher</u>
June 2019 – Current Post	Research Chair of Sheikh Salem Bahamdan Clinical Research Unit, Public Health and Community Medicine Department King Saud University Medical City, King Khalid University Hospital Riyadh, Kingdom of Saudi Arabia

Professional memberships and societies involved in

2010	Full member in American Society for Quality (<u>ASQ</u>)
2009	Full member in Egyptian Society for Quality (<u>ESQ</u>)

Awards and Appreciation letters

2011	Silver shield , of changing agents from the 1 st class, from QMD, KKHU, KSU.
2012	Appreciation letter from Vice Dean of Healthcare Quality of King Saud University
2013	Appreciation letter from Dean of College, Faculty of Medicine of King Saud University

Languages and Computer Skills accomplished

Arabic	Mother language
English	Fluent (TOEFL, score 568 in 2008)
Française	Spoken and Written
Deutsch	Spoken and Written

Computer skills including:

Hardware and software management, Statistical Analysis of Data, STATA, SPSS, internet browsing, Adobe, Photo shop, Biostatistics computing software; Microsoft Office products (Word, Excel, and PowerPoint); Film maker Pro; ArcGIS Epi Data, research search engines including LexisNexis and PubMedetc.

Publications and selected presentations (researcher)

PhD Thesis	Ultraviolet Radiation in disinfection and sterilization of air in medical wards in KSUMC
Ongoing	Evaluation of the use, outcomes, risks and benefits of Social Media in facility-based emergency care in low-resource settings: a scoping review
Ongoing	Quality of STEMI clinical practice guidelines over a decade: a systematic review using the AGREE II instrument
Ongoing	Quality of placenta accrete clinical practice guidelines over a decade: a systematic review using the AGREE II instrument
Ongoing	Developing a questionnaire to investigate Characteristics of Morbidity and Mortality Conferences
Ongoing	Cyclosporine Nephrotoxicity in Patients with Type 1 Diabetes Mellitus, Arbitrary Verdict: A Meta-analysis of Randomized Control Trials

Ongoing	Sugary Beverages Consumption and Latent Autoimmune Diabetes in Adults: Systematic Review and Meta-Analysis
Ongoing	Sugary Beverages Consumption and Risk of Type II Diabetes Mellitus among Children and Adolescents: A Review of Literature
2014	Al-Hazmi, H., Al-Zahrani, T., & Elmalky AM (2014). Hospital acquired blood stream infection as an adverse outcome for patients admitted to hospital with other principle diagnosis. Saudi Journal of Anesthesia, 8(5), 84. doi:10.4103/1658-354x.144084
Master Thesis	Assessment of Blood Sampling Errors in Chronic Liver Disease Patients in Theodor Bilharz Research Institute

Training Courses assigned in OSHA (Occupational Safety and Health Academy)	
	<ul style="list-style-type: none"> • Occupational Safety and Health Trainer (Train-The-Trainer) • <u>Introduction to Safety Management</u> • <u>Introduction to OSH Training</u> • <u>Hazard Analysis and Control</u> • <u>Conducting a Job Hazard Analysis</u> • <u>Introduction to Ergonomics</u> • <u>Developing OSH Training</u> • <u>Conducting OSH Training</u>

Training courses attended	
2008	The 4 th International Infection Control Conference of TBRI
2009	The 5 th International Infection Control Conference of TBRI
2012	Recent Advances in Pulmonary Medicine Symposium Day at King Saud University, College of Medicine, Riyadh, Saudi Arabia
2012	Internal Medicine Research Day at King Saud University, College of Medicine, Riyadh, Saudi Arabia
2012	Quality and Patient Safety Symposium at King Saud University, College of Medicine, Riyadh, Saudi Arabia
2012	3 rd Annual Anesthesia Quality day at King Saud University, College of Medicine, Riyadh, Saudi Arabia
2002	Emergency First Aid, General Organization of Teaching Hospitals & Institute, Ahmed Maher Teaching Hospital
2007	ILS (Immediate life support), The European resuscitation council in conjunction with Learning Resource Center, Kasr Al Ainy Hospital, Faculty of Medicine , Cairo University. Basic Surgical Skills course, The Royal College of Surgeon of England in conjunction with Learning Resource Center, Kasr Al Ainy Hospital, Faculty of Medicine, Cairo University.
2007	Communication Skills in health care Course, Kasr Al Ainy Hospital, and Cairo University.
2009	Environmental impact assessment training course, ESQ
2011	Basic life support, CPR, King Khalid University Hospital, King Saud University, Riyadh, KSA
Other Qualifications achieved	
2008	1 st step of MRCS from Royal college of Surgeons in England

Clinical disease epidemiology which is the basic science of public health, is classified in to communicable diseases and non-communicable diseases (morbidity). The latter is responsible for 65% of total mortalities in the communities (mortality). M&M is considered the data source of public health physician through which health assessment done by surveys and clinical research to reach a community diagnosis of the health problems. These problems will be mass solved by health programs using available health related services.

Public health Experience	(Theodor Bilharz)
<ol style="list-style-type: none"> 1. Held focus group discussions and awareness classes for HCV infected patients about Folk medicine and alternative medicine and superstition (2011) 2. Internal team coordinator (2010-2011) All these activities were held in Giza suburban, Cairo, Alexandria, Ameriyah, Gazeret Mohammed. For infected and exposed populations with limited resources. Focusing on HCV and Shistosomiasis. <ul style="list-style-type: none"> ▪ Administer HCV testing ▪ Counsel participants on health issues and help navigation of the public health system ▪ Provide health and legal information and psychic support ▪ Oversaw group preparations for a trip to work with Ministry of Health ▪ Exchanged health related information with counterparts ▪ Cultivated a number of research skills including project design, data collection through questionnaire administration, behavioral assessments, and data entry ▪ Assisted in the implementation of focused mobile medical units to serve 2000+ vulnerable groups, including the training, development of operational plans, provision of logistical support, and development and implementation of a monitoring and evaluation system ▪ Conducted research examining risk factors in pregnant women in rural villages ▪ Developed the protocol and questionnaire for study ▪ Managed, collected and analyzed data which will assist in future research at the project site 3. Assisted in teaching course for nurses in TBRI 2009 <ul style="list-style-type: none"> ✓ Principles of Epidemiology ✓ Epidemiology in preventive medicine and disease investigation ✓ Applied concepts, theories and methods from the field of social epidemiology to a research problem 4. Assisted in the following programs in TBRI 2009 with large medical teams: in Giza suburbs and gazeret Mohammad <ul style="list-style-type: none"> ✓ Implementation of National Bilharziasis Program treatment and prevention policies ✓ Consoled and entertained hospitalized children and infants to provide relief and comfort during traumatic and stressful times in their lives ✓ Assisted in providing medical care, primarily Bilharzia, pre-natal and wound care for people with limited resources and also conduction of an assessment of Hepatitis C Virus screening and treatment practices of providers serving individuals with limited resources ✓ Analyzed barriers in villagers rural face in accessing adequate health care ✓ Administered initial and follow-up surveys to eligible patients ✓ Monitored patient appointments and clinic attendance for HCV infected groups ✓ Assisted with data entry and analysis on study related to establishing new intervention and safety planning program 5. Teaching/Training (TBRI 2008) <ul style="list-style-type: none"> ▪ Facilitator <ul style="list-style-type: none"> ○ Developed and presented lesson plans for life skills, family planning and HCV prevention for host-country national students at a local secondary school ○ Developed the children's social, language, hygiene skills 	
Experience in Healthcare Quality and Management	(TBRI, Cairo University and KKHU) in collaboration with other medical teams
<u>Instructor in the following topics, for medical staff (Teaching Experience):</u>	
<ul style="list-style-type: none"> ▪ CPHQ and healthcare quality management ▪ Patient safety ▪ Morbidity indicators ▪ Statistical analysis ▪ Research methodology ▪ Utilization management ▪ People management ▪ Improvement of organizational performance ▪ Six sigma projects ▪ Quality planning projects 	
Review of	

- Medical files, occurrence variance reports, hospital annual statistics of different department, morbidity capture forms, flow charts for different medical and administrative processes according to CPGs
- Third party reviewer in Utilization review committee and denials management committee
- Review of patients' complaints and malpractice related to medical errors
- Executions of root cause analysis, failure mode and effect analysis focus PDCA.....
- Statistical analysis, data collection and other steps of medical research, studies and improvement projects and undertaking studies of communicable disease SPSS Statistical Analysis of Data, Excel, Hardware, software management, Office 2010-2011, internet browsing, Adobe, Photo shop etc.
- Calculation of mortality and morbidity rates, case fatality rates

Member in

- Risk management committee
- Performance improvement committee
- Accreditation committee
- Coordinates and collaborates with Chief of Staff and CEO regarding medical staff credentialing
- Preparation of quarter and annual reports analysis of hospital admission and case-fatality rates using record linkage data
- Leadership skills with the ability to direct activities of others both individually and within a project team setting
- Strong communication skills, including the abilities to effectively communicate verbally and in writing, internally and externally, and at all levels of the organization
- Health care regulatory requirements
- Applied knowledge in a business healthcare setting of quality improvement theory, research design and statistics
- Strong experience in managing large, complex projects
- Proved analytical ability in identifying problems, developing solutions and implementing effective courses of action
- Demonstrated success in leading organizations through accreditation reviews
- Experience with NCQA or URAC accreditation
- Experience in designing a vendor/organization audit process for delegation of medical management and regulatory required functions
- Experience in managing a sizeable budget
- Knowledge of medical risk management preferred
- Lead condition specific work groups and present findings to senior leadership, medical directors and various committees.
- Perform ongoing analysis of gaps in clinical care and barriers to care; ensuring alignment of all interventions with the HEDIS and Stars strategic plan.
- Assess care opportunities, designing and implementing member and provider specific actions or interventions.
- Develop strong working relationships with all departments and divisions, physicians, and non-physician providers and allied health care organizations.
- Coordinate and lead functional areas to achieve national accreditation (URAC)
- Oversee, coordinate and implement other regulatory activities and site reviews as required, including CMS, Medicaid, Medicare and Medicare STARS report, NCQA, and others
- Implement quality improvement activities based upon outcomes for internal and external Quality Management within the HealthCare Services clinical division
- Manage the clinical quality management program and staff, ensuring all areas comply with and understand the quality program, reporting elements, and regulatory requirements to demonstrate compliance
- Advisor of students' projects:
 - Patient safety in emergency medical services
 - Occupational health and safety in intensive care unit
 - Activation of code blue team
 - Compliance of the emergency room to the JCI standards: Importance of the ER design in staff and patient safety
 - Implementation of emergency triage system (Emergency severity Index ESI)
 - Implementation of Canadian triage acuity scale (CTAS)
 - Implementation of weaning protocol from mechanical ventilator
 - Implementation of protocol for the management of pneumothorax and chest tube
 - Implementation of protocol for the management of violence in emergency department
 - Implementation of the American Heart association guidelines for the management of Acute chest pain
 - Implementation of the European guidelines for the management of burns
 - ACLS
 - BLS
 - Neonatal resuscitation

- I structured the patient safety department: Elaboration of patient incident reporting system, Designing and implementation of patient safety database, Designing and implementation of automated reporting system, Elaboration and implementation of patient safety policies and procedures, Conduction of root cause analysis, Conduction of Failure mode effect analysis, Determination and analysis of Key performance indicators (KPI), Elaboration and implementation of quality improvement plan (QIP), Conduction of workshop and training activities regarding patient safety, Conduction of safety rounds, clinical audits and risk assessment activities.
- Implementation of guidelines and best practices concerning safe surgery, safe patient's transfer, fall down, pressure ulcer, indications of coronary angiography, patient identification, medication safety, prevention of deep vein thrombosis, indications of C/section, blood transfusion, etc...
- I participated in the activities of all hospital committees as member and secretary: patient safety. Occupational health and safety, data management, scientific drug committee, OR committee, EPP, etc....