



Iman El Sayed

Assistant Professor In
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Websites, Portfolios, Profiles

- LinkedIn:
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- https://scholar.google.com/citations?hl=en&user=7YzKvmoAAAAJ&view_op=list_works&sortby=pubdate
- Researchgate:
<https://www.researchgat>

Assistant Professor of Medical Statistics at the Medical Research Institute, Alexandria University, Egypt. Specializes in evidence synthesis, predictive analytics, and evidence-informed policymaking. Biostatistician, systematic reviewer, and research methodologist with expertise in systematic reviews, meta-analysis, critical appraisal, guideline development, medical writing, statistical analysis, and consultation. Holds master's and doctor's degrees from Alexandria University, Egypt, and completed a cancer research fellowship at the University of Milan, Italy. Completed an evidence-synthesis fellowship at the Liverpool School of Tropical Medicine with a specific interest in cancer epidemiology and research. Led and published Cochrane reviews while contributing to the Global Burden of Disease Collaboration at the Institute of Health Metrics and Evaluation in the USA. Passionate about teaching, statistical analysis, academic writing, research publishing, healthcare quality improvement, and health system research. Certified Professional Health Care Quality (CPHQ) certificate holder from the National Association for Healthcare Quality. Completed a Health Economics Diploma at Cairo University in partnership with Bournemouth University to further explore health economics and health technology assessment.

Organized and dependable candidate successful at managing multiple priorities with a positive attitude. Willingness to take on added responsibilities to meet team goals.

Detail-oriented team player with strong organizational skills. Ability to handle multiple projects simultaneously with a high degree of accuracy.

Current position

2023-04 -
Current

Head of Biomedical Informatics & Medical Statistics Department

- Medical Research Institute, Alexandria University, Alexandria*
- I am the **president** of the first conference on biomedical informatics and medical statistics held on 17th February 2025, named:
"The First International Conference of Biomedical Informatics and Medical Statistics: Paving the Way for Research Excellence."
 - **I am the founder and program co-ordinator of the new professional diploma of Evidence-Based**

<div> <div>e.net/profile/Iman-El-Sayed</div> </div>	
<div> <div>Statistical analysis proficiency</div> <div> <div>Data analysis</div> <div>Predictive analytics</div> <div>Systematic Reviews and meta-analysis</div> <div>Biostatistical modeling</div> <div>Network meta-analysis</div> <div>Six Sigma</div> <div>Research methodology</div> <div>Project management</div> <div>E-learning</div> <div>Academic and medical scientific writing</div> <div>Quality of HealthCare</div> <div>Effective communication</div> <div>Teamwork and collaboration</div> <div>Time management</div> </div> </div>	<div> <div> <div>2023-01 - 2024-07</div> <div> <div>Healthcare, starting Fall 2025-2026</div> <ul style="list-style-type: none"> Self-motivated, with a strong sense of personal responsibility. Excellent communication skills, both verbal and written. Proven ability to learn quickly and adapt to new situations. Skilled at working independently and collaboratively in a team environment. Worked well in a team setting, providing support and guidance. </div> </div> <div> <div> <div>Assistant for Vice Dean of Post-Graduate Studies</div> <div>Medical Research Institute, Alexandria University, Alexandria</div> <ul style="list-style-type: none"> Organized the international conference of the Medical Research Institute that was held in May 2023. Contributed to a positive work environment with strong interpersonal skills and proactive teamwork attitude. Collaborated effectively with cross-functional teams to achieve shared goals in a timely manner. </div> </div> <div> <div> <div>2021-01 - Current</div> <div>Assistant Professor in Biomedical Informatics & Medical Statistics Department</div> <div>Medical Research Institute, Alexandria University, Alexandria</div> </div> </div> </div>
<div> <div>Languages</div> <div> <div>English</div> <div>Arabic</div> </div> </div>	<div> <div> <div>2009-09 - 2020-12</div> <div> <div>Demonstrator-Assistant Lecturer-Lecturer</div> <div>Medical Research Institute. Alexandria University , Biomedical Informatics& Medical Statistics Dept.</div> </div> </div> <div> <div> <div>2008-01 - 2009-01</div> <div>Pediatric Resident</div> <div>The Child Main University Hospital (El Shatbi)</div> </div> </div> </div>
<div> <div>Software</div> <div> <div>Statistical package for social science (SPSS).</div> <div>Advanced</div> <div>R software.</div> </div> </div>	<div> <div> <div>2007-01 - 2008-01</div> <div>House Officer</div> <div>Alexandria University Hospitals, Alexandria, Egypt., Alexandria</div> </div> <div> <div>Qualification</div> </div> </div>

Advanced

Comprehensive
Meta-analysis.

Very Good

Review Manager (RevMan).

Advanced

GRADEPro

Advanced

Covidence software.

Very Good

EPPI Reviewer software.

Very Good

Minitab

Very Good

EndNote Reference
Manager and Mendely

Advanced

Rayan software

Good

PASS for sample size
calculation

Advanced

2023-01

2022-01 -
2025-12

2018-01 -
2018-12

2017-01 -
2017-12

Health Economics and Health Technology Assessment Diploma

Faculty of Pharmacy, Cairo University - Cairo

GPA: Excellent Grade

Certified Professional in Healthcare Quality, CPHQ

National Association of Healthcare Quality (NAHQ)

- USA, ID Number: HQ0353122

Research Fellowship: Cochrane Infectious Disease Group

Liverpool School of Tropical Medicine - Liverpool

**An Evidence synthesis fellowship at Cochrane
Infectious Disease Editorial Base, Department of
clinical sciences. Liverpool School of Tropical
Medicine (LSTM), Liverpool, United Kingdom. (WHO
collaborating center)**

Field:

- Evidence Based Medicine.
- Evidence Synthesis.
- Systematic Reviews methodology and meta-analysis
- Master level course certificate achievement of "Systematic reviews for policy and practice"
- Syllabus of taught course "Systematic reviews for policy and practice":
 - √ Evidence and what it means to different stakeholders
 - √ Searching for research papers and systematic reviews
 - √ Systematic reviews: statistical interpretation and risk of bias
 - √ Using GRADE to develop evidence-based recommendations
 - √ Reliability of systematic reviews
 - √ Applicability of systematic reviews
 - √ Qualitative synthesis in guideline development
 - √ Using DTA reviews to develop evidence-based recommendations
 - √ Guidelines
 - √ Case studies of evidence into policy and practice

Fellowship: Cancer research and Biostatistics

Department of Clinical Sciences And Community Health, University of Milan - Milan

GPA: outstanding score

Field:

- **Cancer Epidemiology.**
- **Cancer control and prevention.**
- **Cancer Research.**

2015-01

Ph.D.

Biomedical Informatics & Medical Statistics - Alexandria

GPA: 3.916

- **Completed the following courses as part of Ph.D. degree curriculum:**

- v Time series analysis
- v Systematic Review and Meta-analysis
- v Clinical Measurements and Accuracy of Diagnostic Tests
- v Advanced Topics in Registration of chronic diseases
- v Critical Appraisal & Journal club
- v Principles of Registration of Chronic Diseases
- v Survival Analysis
- v Evidence based guidelines
- v Data reduction, classification and scale reliability
- **PhD thesis “A Systematic Review to Study the Effect of Different Neuro-Protective Drugs in Management of Critically Ill Patients with Traumatic Head Injury”**
- **Completed training courses Certified by International Board of certified trainers European Division (IBCT) held at Faculty and leadership development center (FLDC) on the followings:**
 - v Decision making and problem solving on 18-19 November 2105.
 - v Reference management system on 15-16 November 2105.
 - v Research team management 2-3 November 2015.
 - v Ethical conduct and code of ethics 7-8 October 2015.
 - v E-Learning 30 sep-1 October 2015.
 - v Communication skills in education 16-17 September 2015

2012-01

Master degree

Biomedical Informatics & Medical Statistics -

Alexandria

GPA: 3.93

- **Completed the following courses as part of M.Sc. degree curriculum:**

- v Principles and advanced medical statistics.

- v Regression analysis.

- v Medical research design.

- v Principles of computer science.

- v Scientific writing.

- v Evidence Based Medicine.

- v Hospital statistics.

- v Basic genetic epidemiology.

- **Completed training courses Certified by International Board of certified trainers European Division (IBCT) held at Faculty and leadership development center (FLDC) on the followings:**

- v Presentation skills on 24-25 March 2012.

- v University legal& Financial Aspects on 21-22 April 2012.

- v Composition of teams& team works on 28-29 April 2012.

- v International publishing of Research on 5-6 May 2012.

- v Students Evaluation and Examination techniques on 19-20 May 2012.

- **November 2012:**

I granted my master's degree.

Thesis Title: Awareness and Attitude of Physicians in Hospitals Belonging to University of Alexandria towards Evidence Based Medicine

2006-01

MBChB

Faculty of Medicine, Alexandria University -

Alexandria, Egypt

GPA: Excellent with honor grade

Affiliation

- Biomedical informatics& Medical Statistics

Projects

Establishing and Integrating Electronic Cancer Registry, Medical Research Institute, Alexandria University, Egypt, 07/24

Principal Investigator (PI) of the project

Project's objectives:

A. Improve digitization by creating hospital based central database for all cancer patients admitted to MRI departments to avoid duplication of patient's information.

B. Developing and maintaining integrated programs in cancer patient care, research, education, and prevention. We aim to conduct multidisciplinary research in cancer management.

C. Electronic Patient records: The registry allows easy and secure access to electronic patient records. Each patient's medical information can be stored and updated securely and organized, and health history, diagnoses and other medical reports can be tracked.

D. Creating Reports and statistics: The program provides the ability to create detailed reports and important statistics that help in analyzing the performance and making strategic decisions

Affiliation - Institution

Medical Research Institute, Alexandria University

Current Position

Assistant Professor, Head of Biomedical Informatics & Medical Statistics Department, Medical Research Institute, Alexandria University

Fellowships

- Union International of Cancer Control (UICC)

Technology Transfer Fellowship, Cancer Epidemiology, Cancer control and prevention, Cancer Research, Milan, Italy, 01/17 - 02/17

- Evidence synthesis fellowship, Evidence Based Medicine, Evidence Synthesis, Systematic Reviews methodology and meta-analysis, Liverpool School of Tropical Medicine, United Kingdom, 02/18 - 03/18

Country Of Birth

Egypt

Awards

- **A certificate of appreciation and Alexandria University shield of distinguished scientific publishing along with granting the title "Distinguished Researcher of Alexandria University", 2023**
- **Alexandria University Award for Scientific and academic distinction, 2019**

شهادة تقدير ودرع الجامعة للنشر العلمي المتميز مع منح لقب "باحث جامعة الإسكندرية المتميز" في مجال العلوم الطبية سنة 2023
جائزه جامعة الإسكندرية للتشجيع العلمي سنة 2019

Publications

- **Forecasting the effects of smoking prevalence scenarios on years of life lost and life expectancy from 2022 to 2050: a systematic analysis for the Global Burden of Disease Study 2021** Bryazka, Dana et al. The Lancet Public Health, Volume 9, Issue 10, e729 - e744.
- **Global burden of bacterial antimicrobial resistance 1990–2021: a systematic analysis with forecasts to 2050.** Naghavi, Mohsen et al. The Lancet, Volume 404, Issue 10459, 1199 – 1226.
- **Global, regional, and national burden of upper respiratory infections and otitis media, 1990–2021: a systematic analysis from the Global Burden of Disease Study 2021.** Sirota, Sarah Brooke et al. The Lancet Infectious Diseases, Volume 0, Issue 0.

- Trends and levels of the global, regional, and national burden of appendicitis between 1990 and 2021: findings from the Global Burden of Disease Study 2021. Han, Hannah et al. *The Lancet Gastroenterology & Hepatology*, Volume 9, Issue 9, 825 – 858.
- Vision Loss Expert Group of the Global Burden of Disease Study., the GBD 2019 Blindness and Vision Impairment Collaborators. Global estimates on the number of people blind or visually impaired by age-related macular degeneration: a meta-analysis from 2000 to 2020. *Eye* 38, 2070–2082 (2024). <https://doi.org/10.1038/s41433-024-03050-z>.
- Vision Loss Expert Group of the Global Burden of Disease Study; GBD 2019 Blindness and Vision Impairment Collaborators. Global estimates on the number of people blind or visually impaired by cataract: a meta-analysis from 2000 to 2020. *Eye (Lond)*. 2024 Aug;38(11):2156-2172. doi: 10.1038/s41433-024-02961-1. Erratum in: *Eye (Lond)*. 2024 Aug;38(11):2229-2231. doi: 10.1038/s41433-024-03161-7. PMID: 38461217; PMCID: PMC11269584.
- Pam, P., El Sayed, I., Asemani, S., Jamilian, P., Zarezadeh, M., & Ghoreishy, Z. (2024). The effectiveness of chia seed in improving glycemic status: A systematic review and meta-analysis. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*, 18(6), 103065. <https://doi.org/10.1016/j.dsx.2024.103065>.
- The burden of neurological conditions in north Africa and the Middle East, 1990–2019: a systematic analysis of the Global Burden of Disease Study 2019. Avan, Abolfazl et al. *The Lancet Global Health*, Volume 12, Issue 6, e960 - e982
- Burden of disease scenarios for 204 countries and territories, 2022–2050: a forecasting analysis for the Global Burden of Disease Study 2021. Vollset, Stein Emil et al. *The Lancet*, Volume 403, Issue 10440, 2204 – 225.
- Global incidence, prevalence, years lived with disability (YLDs), disability-adjusted life-years (DALYs), and healthy life expectancy (HALE) for

- 371 diseases and injuries in 204 countries and territories and 811 subnational locations, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021. Ferrari, Alize J et al. *The Lancet*, Volume 403, Issue 10440, 2133 – 2161.
- Global burden of 288 causes of death and life expectancy decomposition in 204 countries and territories and 811 subnational locations, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021. Naghavi, Mohsen et al. *The Lancet*, Volume 403, Issue 10440, 2100 – 2132.
 - Global, regional, and national burden of disorders affecting the nervous system, 1990–2021: a systematic analysis for the Global Burden of Disease Study 2021. Steinmetz, Jaimie D et al. *The Lancet Neurology*, Volume 23, Issue 4, 344 – 381.
 - Shaker, M., Zaki, A., Asser, S.L. et al. Trends and predictors of antimicrobial resistance among patients with urinary tract infections at a tertiary hospital facility in Alexandria, Egypt: a retrospective record-based classification and regression tree analysis. *BMC Infect Dis* 24, 246 (2024). <https://doi.org/10.1186/s12879-024-09086-6>.
 - Hany, M., Torensma, B., Zidan, A. et al. Outcomes of primary versus conversional Roux-En-Y gastric bypass after laparoscopic sleeve gastrectomy: a retrospective propensity score-matched cohort study. *BMC Surg* 24, 84 (2024). <https://doi.org/10.1186/s12893-024-02374-7>
 - Antimicrobial Resistance Collaborators. The burden of bacterial antimicrobial resistance in the WHO African region in 2019: a cross-country systematic analysis. *Lancet Glob Health*. 2023 Dec 19:S2214-109X(23)00539-9. doi: 10.1016/S2214-109X(23)00539-9. Epub ahead of print. PMID: 38134946.
 - Hany M, Torensma B, Ibrahim M, Zidan A, Agayabya ASS, Abdelkhalek MH, El Sayed I. Boosting weight loss after conversional RYGB with liraglutide and placebo use. A double-blind-randomized controlled trial. *Int J Surg*. 2023 Dec 14. doi: 10.1097/JS9.0000000000000990. Epub

ahead of print. PMID: 38100630.

- Mensah GA, Fuster V, Murray CJL, Roth GA; Global Burden of Cardiovascular Diseases and Risks Collaborators. Global Burden of Cardiovascular Diseases and Risks, 1990-2022. *J Am Coll Cardiol*. 2023 Dec 19;82(25):2350-2473. doi: 10.1016/j.jacc.2023.11.007. PMID: 38092509.
- GBD 2021 Carbon Monoxide Poisoning Collaborators. Global, regional, and national mortality due to unintentional carbon monoxide poisoning, 2000-2021: results from the Global Burden of Disease Study 2021. *Lancet Public Health*. 2023 Nov;8(11):e839-e849. doi: 10.1016/S2468-2667(23)00185-8. Epub 2023 Oct 6. PMID: 37813118; PMCID: PMC10602911.
- GBD 2019 Lip, Oral, and Pharyngeal Cancer Collaborators. The Global, Regional, and National Burden of Adult Lip, Oral, and Pharyngeal Cancer in 204 Countries and Territories: A Systematic Analysis for the Global Burden of Disease Study 2019. *JAMA Oncol*. Published online September 07, 2023. doi:10.1001/jamaoncol.2023.2960.
- Ashmawy, R., Zaki, A., Baess, A. et al. Efficacy and safety of inhaled heparin in asthmatic and chronic obstructive pulmonary disease patients: a systematic review and a meta-analysis. *Sci Rep* 13, 13326 (2023). <https://doi.org/10.1038/s41598-023-40489->
- Azadnajafabad S, Saeedi Moghaddam S, Mohammadi E, Rezaei N, Rashidi M-M, Rezaei N, Mokdad AH, Naghavi M, Murray CJL, Larijani B, Farzadfar F and GBD 2019 NAME Breast Cancer Collaborators (2023) Burden of breast cancer and attributable risk factors in the North Africa and Middle East region, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019. *Front. Oncol*. 13:1132816. doi: 10.3389/fonc.2023.1132816
- Mousli, H.M., El Sayed, I., Zaki, A. and Abdelmonem, S. (2023), "Improving VTE prophylaxis in ward and ICU surgical urology patients: a Six-Sigma DMAIC methodology improvement project", *The TQM Journal*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/TQM-09-2022-0281>

- Yakoub M, Elkhwsky F, El Tayar A, El Sayed I. Hospital-acquired pneumonia pattern in the intensive care units of a governmental hospital: A prospective longitudinal study. *Ann Afr Med* 2023;22:94-100.
- Hany, M., Torensma, B., Zidan, A. et al. Comparison of Sleeve Volume Between Banded and Non-banded Sleeve Gastrectomy: Midterm Effect on Weight and Food Tolerance—a Retrospective Study. *OBES SURG* 33, 406–417 (2023). <https://doi.org/10.1007/s11695-022-06404-2>.
- Haakenstad A, Yearwood JA, Fullman N, Bintz C, Bienhoff K, Weaver MR, et al. Assessing performance of the Healthcare Access and Quality Index, overall and by select age groups, for 204 countries and territories, 1990–2019: a systematic analysis from the Global Burden of Disease Study 2019. *The Lancet Global Health*. 2022;10(12):e1715-e43.
- Hany, M., Sayed, I.E., Zidan, A. et al. Propensity score matching analysis comparing outcomes between primary and revision Roux-en-Y gastric bypass after adjustable gastric banding: a retrospective record-based cohort study. *Surg Endosc* (2022). <https://doi.org/10.1007/s00464-022-09675-z>
- Nejadghaderi, S. A., Moghaddam, S. S., Azadnajafabad, S., Rezaei, N., Rezaei, N., Tavangar, S. M., Jamshidi, H., Mokdad, A. H., Naghavi, M., Farzadfar, F., & Larijani, B. (2022). Burden of thyroid cancer in North Africa and Middle East 1990–2019. *Frontiers in Oncology*, 12. <https://doi.org/10.3389/fonc.2022.955358>
- Abbasi-Kangevari M, Saeedi Moghaddam S, Ghamari SH, et al. The burden of prostate cancer in North Africa and Middle East, 1990-2019: Findings from the global burden of disease study. *Frontiers in Oncology*. 2022 ;12:961086. DOI: 10.3389/fonc.2022.961086. PMID: 36176394; PMCID: PMC9513750.
- Kyu HH, Vongpradith A, Sirota SB, Novotney A, Troeger CE, Doxey MC, et al. Age–sex differences in the global burden of lower respiratory infections and risk factors, 1990–2019: results from

- the Global Burden of Disease Study 2019. The Lancet Infectious Diseases. 2022;22(11):1626-47.
- Sheena BS, Hiebert L, Han H, Ippolito H, Abbasi-Kangevari M, Abbasi-Kangevari Z, et al. Global, regional, and national burden of hepatitis B, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019. The Lancet Gastroenterology & Hepatology. 2022;7(9):796-829.
 - Global, regional, and national burden of colorectal cancer and its risk factors, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019. GBD 2019 Colorectal Cancer Collaborators. Lancet Gastroenterol Hepatol 2022. Online/Comment [https://doi.org/10.1016/S2468-1253\(22\)00089-9](https://doi.org/10.1016/S2468-1253(22)00089-9).
 - El Sayed I, Trifiletti DM, Lehrer EJ, Showalter TN, Dutta SW. Protons versus photons for the treatment of chordoma. Cochrane Database of Systematic Reviews 2021, Issue 7. Art. No.: CD013224. DOI: 10.1002/14651858.CD013224.pub2. Accessed 06 July 2021.
 - Global, regional, and national burden of diseases and injuries for adults 70 years and older: systematic analysis for the Global Burden of Disease 2019 Study BMJ 2022; 376 :e068208 doi:10.1136/bmj-2021-068208.
 - Mohamed, Mona Salah; El Sayed, Iman; Zaki, Adel; Abdelmonem, Sherif Assessment of the effect of amantadine in patients with traumatic brain injury: A meta-analysis, Journal of Trauma and Acute Care Surgery: March 2022 - Volume 92 - Issue 3 - p 605-614 doi: 10.1097/TA.0000000000003363.
 - Hajelssedig, O. E., Zorron Cheng Tao Pu, L., Thompson, J. Y., Lord, A., El Sayed, I., Meyer, C., Shaukat Ali, F., Abdulazeem, H. M., Kheir, A. O., Siepmann, T., and Singh, R. (2021) Diagnostic accuracy of narrow-band imaging endoscopy with targeted biopsies compared with standard endoscopy with random biopsies in patients with Barrett's esophagus: A systematic review and meta-analysis. Journal of Gastroenterology and Hepatology, XXX, <https://doi.org/10.1111/jgh.15577>

- Ibrahim S, Habiballah M, Sayed IE. Efficacy of Electronic Cigarettes for Smoking Cessation: A Systematic Review and Meta-Analysis. *American Journal of Health Promotion*. December 2020. doi:10.1177/0890117120980289
- Noeman-Ahmed, Y, Gokaraju, S, Powrie, DJ, Amran, DA, El Sayed, I, Roshdy, A. Predictors of CPAP outcome in hospitalized COVID-19 patients. *Respirology*. 2020; 25: 1316– 1319. <https://doi.org/10.1111/resp.13964>.
- Yasser NA, Ashraf R, Abdulla B, Iman ES, Maryam N, Gouri K, Vinod W, Sriya G, Patrice A, Nour A, Shashank S, Duncan J. P. A propensity score matching analysis for CPAP versus conventional oxygen therapy as a ceiling of care in COVID-19-associated type 1 respiratory failure. *Res Opin Anesth Intensive Care* 2022;9:37-45
- Noeman Ahmed Y, Setty N, Roshdy A, Powrie DJ, Amran DA, Elsheikh A, Gokaraju S, Tear A, Noeman M, Darda M, El Sayed I, Karunanithi V, Mahalingam A, Shafiq M, Abdul-Khaliq I, Samuel J. Continuous positive airway pressure as a useful tool in coronavirus disease 2019-related acute hypoxemic respiratory failure: experience from three UK hospitals. *Res Open Anesth Intensive Care* 2022;9:46-51
- Diabetes mortality and trends before 25 years of age: an analysis of the Global Burden of Disease Study 2019. GBD 2019 Diabetes Mortality Collaborators. *Lancet Diabetes Endocrinol* 2022; 10: 177–92. [https://doi.org/10.1016/S2213-8587\(21\)00349-1](https://doi.org/10.1016/S2213-8587(21)00349-1)
- Alvarez, E. M., et al. (2021). "The global burden of adolescent and young adult cancer in 2019: a systematic analysis for the Global Burden of Disease Study 2019." *The Lancet Oncology*.
- Kinyoki, D., Osgood-Zimmerman, A.E., Bhattacharjee, N.V. et al. Anemia prevalence in women of reproductive age in low- and middle-income countries between 2000 and 2018. *Nat Med* 27, 1761–1782 (2021). <https://doi.org/10.1038/s41591-021-01498-0>
- Measuring routine childhood vaccination coverage in 204 countries and territories,

1980–2019: a systematic analysis for the Global Burden of Disease Study 2020. GBD 2020, Release 1, Vaccine Coverage Collaborators. *The Lancet* 398, Issue 10299, 7–13 August 2021, Pages 503-521.

- Measuring universal health coverage based on an index of effective coverage of health services in 204 countries and territories, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019. *The Lancet*. 396(10258), 1250-1284.
- Global burden of 87 risk factors in 204 countries and territories, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019. *The Lancet*. 396(10258), 1223-1249.
- Global burden of 369 diseases and injuries in 204 countries and territories, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019. *The Lancet*. 396 (10258), 1204-1222.
- Global age-sex-specific fertility, mortality, healthy life expectancy (HALE), and population estimates in 204 countries and territories, 1950–2019: a comprehensive demographic analysis for the Global Burden of Disease Study 2019. *The Lancet*. 396 (10258), 1160-1203.
- Mapping local patterns of childhood overweight and wasting in low- and middle-income countries between 2000 and 2017. *Nature Medicine* 26, 750–759 (April 2020).
- Mapping geographical inequalities in childhood diarrhoeal morbidity and mortality in low-income and middle-income countries, 2000–17: analysis for the Global Burden of Disease Study 2017. *The Lancet* 395(10239), 6–12 June 2020, Pages 1779-1801.
- Burstein, R., Henry, N.J., Collison, M.L. *et al.* Mapping 123 million neonatal, infant and child deaths between 2000 and 2017. *Nature* 574, 353–358 (2019). <https://doi.org/10.1038/s41586-019-1545-0>
- Safiri, S., *et al.* (2019). "The global, regional, and national burden of colorectal cancer and its attributable risk factors in 195 countries and territories, 1990–2017: a systematic analysis for

- the Global Burden of Disease Study 2017." *The Lancet Gastroenterology & Hepatology* 4(12): 913-933.
- Global Burden of Disease Cancer Collaboration. Global, Regional, and National Cancer Incidence, Mortality, Years of Life Lost, Years Lived With Disability, and Disability-Adjusted Life-Years for 29 Cancer Groups, 1990 to 2017: A Systematic Analysis for the Global Burden of Disease Study. *JAMA Oncol.* Published online September 27, 2019. doi:10.1001/jamaoncol.2019.2996.
 - El Sayed I, Liu Q, Wee I, Hine P. Antibiotics for treating scrub typhus. *Cochrane Database of Systematic Reviews* 2018, Issue 9. Art. No.: CD002150. DOI: 10.1002/14651858.CD002150.pub2.
 - El Sayed I, Abdelmonem S. A cross-sectional study to assess Evidence-Based Medicine teaching method: online or face-to-face?. *BMJ Evidence-Based Medicine* Published Online First: 11 December 2018. doi: 10.1136/bmjebm-2018-111117
 - Gianfranco Alicandro, Luisa Frova, Gabriella Sebastiani, Iman El Sayed, Paolo Boffetta, Carlo La Vecchia. Educational Inequality in Cancer Mortality: A Record Linkage Study of Over 35 Million Italians. *Cancer Causes & Control* J.28(9):997-1006. doi: 10.1007/s10552-017-0930-y. Epub 2017 Jul 26
 - El Sayed I, Elkhwsky F, La Vecchia C and Alicandro G. The frequency of bladder cancer in Alexandria, Egypt, over the last two decades. *European Journal of Cancer Prevention* 2017, DOI: 10.1097/CEJ.0000000000000368. APP Template V1.03. Article id: EJCP062900.
 - El Sayed, I., Zaki, A., Fayed, A.M. et al. A Meta-analysis to Study the Effect of Different Neuro-Protective Drugs in Management of Critically Ill Patients with Traumatic Brain Injury. *Neurosurg Rev* (2016). doi:10.1007/s10143-016-0775-y.
 - Anwar MM, Reizian AE, El Kholy AM, El Sayed I, et al. An Assessment Scale for Patients with

Postoperative Superficial Incisional Surgical Site Infection: a Cross-Sectional Study. *Indian Journal of Surgery* (2018). 80(3): pp 259–268.

- Gihan M. Shehata, Adel Zaki, Nabil L. Dowidar and Iman El Sayed. Critical thinking and attitude of physicians toward evidence-based medicine in Alexandria, Egypt. *Journal of the Egyptian Public Health Association* 2015, 90:115–120.
- Abdelmonem S, Hadi GA, Fayed A, El Sayed I, Mogazy K (2019). A Case Control Study of Risk Factors for Depression in Intensive Care Unit Patients. *Int J Crit Care Emerg Med* 5:077. DOI: 10.23937/2474-3674/1510077.
- Abdelmonem S, Helmy T, El Sayed I, Ghazal S (2019). A Prospective Study on Severe Hypotension in Critically Ill Patients Sedated with Propofol. *Int J Crit Care Emerg Med* 5:078. DOI: 10.23937/2474-3674/1510078.

Book chapter:

El Sayed, I. (2017). Cancer in the Middle East (Control and Prevention). Reference Module in Biomedical Sciences, Elsevier. <https://doi.org/10.1016/B978-0-12-801238-3.65154-1>. ISBN 978-0-12-801238-3

El Sayed, I., 2019. Cancer in the Middle East. In: Boffetta, P., Hainaut, P. (Eds.), *Encyclopedia of Cancer*, 3rd edition, vol. 1, Elsevier, Academic Press, pp. 225–242. <http://dx.doi.org/10.1016/B978-0-12-801238-3.65154-1>

Posters:

· Zaki A, El Sayed I, Shehata G, Nabil Dwidar. Critical thinking and attitude of physicians toward EBM in Alexandria, Egypt. Evidence Live 2013 conference. Center of Evidence Based Medicine (CEBM). University of Oxford. 25-26th March 2013
<http://www.evidencelive.org/posters/2013/critical-thinking-and-attitude-of-physicians-toward-ebm-in-alexandria-egypt/1243933#>

· El Sayed I, Zaki A, Akram M.Fayed, Shehata G,

Abdelmonem Sh. A Meta-analysis to Study the Effect of Different Neuro-Protective Drugs in Management of Critically Ill Patients with Traumatic Brain Injury. Evidence live 2016 Conference. Center of Evidence Based Medicine (CEBM). Nuffield Department of Primary Care Health Sciences • University of Oxford 22-24th June 2016.
<http://evidencelive.org/evidence-live-2016-poster-abstracts/>

· Abdallah Tamer, Abdelmonem Sherif, El Sayed I, Ghazal Salma. Predictors of severe hypotension in Intensive Care Unit patients sedated with Propofol. 29th Annual Congress of the European Society of Intensive Care Medicine, 1 - 5 October 2016, Milan, Italy.

· Tamer Hosny, **Eman El Sayed**, Ihab Hassan. AFC(Antral Follicle Count) Nomogram can be used for counseling before labaroscopic excision of ovarian endometrioma. The European Society for Gynecological Endoscopy (ESGE). Annual congress 18-21th October 2017, Antalia. Turkey

Oral presentaions:

· Salama, M. M., Yassine, O. G., El Sayed, I., Abdelmonem, S., & Elkhwsy, F. S. (2020). *Knowledge, attitude and practice of healthcare professionals towards pharmacovigilance in Alexandria, Egypt: A cross sectional survey*. Paper presented at the Pharmacoepidemiology And Drug Safety.

· **Sayed IE, Abdelmonem S. 14 Evidence based medicine in low-middle income countries; online or face-to-face teaching method?. *BMJ Evidence-Based Medicine* 2018;23:A7.**

<https://ebm.bmj.com/search/volume:23%20issue:Suppl+1%20jcode:ebmed%20sort:first-page%20direction:ascending?facet%5Btoc-section-id%5D%5B0%5D=Oral%20Sessions>

· **Fayek El khwsy , Gamal El-Housseni , Iman El Sayed , Assem Rostom , Sara Refay. Factors affecting quality of life of colorectal cancer patients**

in Alexandria, Egypt. The 8th annual meeting of the middle eastern association for cancer research, Muskat , Oman, 8-9th December 2018.

· Yasser Noeman Ahmed, Maryam Noeman, Abdulla Bedir, Iman El Sayed, Ashraf Roshdy, Ciara Bansal, Patrice Ayuen, Nour Abualela, Shashank Sharma. Characterisation of COVID-19 hospitalised frail patients not for ICU admission. European Respiratory Journal. Vol 58. Issue suppl 65. Publisher: European Respiratory Society. European Respiratory Journal 2021; 58: Suppl. 65, PA900. This abstract was presented at the 2021 ERS International Congress, in session “Prediction of exacerbations in patients with COPD”. https://erj.ersjournals.com/content/58/suppl_65/PA900.abstract.

· Salama, M. M., Yassine, O. G., El Sayed, I., Abdelmonem, S., & Elkhwsy, F. S. (2020, October). Knowledge, attitude and practice of healthcare professionals towards pharmacovigilance in Alexandria, Egypt: A cross sectional survey. In PHARMACOEPIDEMIOLOGY AND DRUG SAFETY (Vol. 29, pp. 491-492). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY.

· Yasser Noeman Ahmed, Maryam Noeman, Abdulla Bedir, Iman El Sayed, Ashraf Roshdy, Gouri Koduri, Sriya Gokaraju, Patrice Ayuen, Nour Abuelela, Shashank Sharma, Dora Amran, Duncan Powrie. CPAP compared to Conventional Oxygen Therapy as ceiling of care in COVID-19 patients with Advanced Frailty: A retrospective cohort study. European Respiratory Journal 2021 58: PA1081; DOI: 10.1183/13993003.congress-2021.PA1081. European Respiratory Journal 2021; 58: Suppl. 65, PA1081. This abstract was presented at the 2021 ERS International Congress, in session “Prediction of exacerbations in patients with COPD”. https://erj.ersjournals.com/content/58/suppl_65/PA1081.abstract

· Mina Yakoub, Fayek Elkhwsy, Iman El Sayed, Ayman El Tayar. Predictors of Multidrug Resistance in Nosocomial Pneumonia among Intensive Care Units' Patients of a Tertiary Hospital, Egypt Protocols. 42nd

Annual Conference of the International Society for Biostatistics. “Driving Innovations In Healthcare, Strengthening Health Systems: Addressing Covid 19 Pandemic”. Virtual conference. 18-22 July 2021

· Mina Yakoub, Fayek Elkhwsky, Iman El Sayed, Ayman El Tayar. The Incidence Of Hospital-Acquired Pneumonia Among Patients Admitted To The Intensive Care Units Of A Tertiary Hospital, Egypt. 42nd Annual Conference of the International Society for Biostatistics. “Driving Innovations In Healthcare, Strengthening Health Systems: Addressing Covid 19 Pandemic”. Virtual conference. 18-22 July 2021

· Wan YL, El Sayed I, Walker TDJ, Russell B, Badrick E, McAleenan A, Edmondson R, Crosbie EJ. Prognostic models for predicting recurrence and survival in women with endometrial cancer. *Cochrane Database of Systematic Reviews* 2021, Issue 6. Art. No.: CD014625. DOI: 10.1002/14651858.CD014625. Accessed 06 July 2021.

Training

- **Practical Time Series Analysis, The State University of New York, 04/20, · (Verified certificate)**
- **The Analytic Edge. R software, Massachusetts Institute of Technology, 05/19, · (Verified certificate)**
- **Six Sigma Yellow Belt Specialization, University System of Georgia:**

**Six Sigma Principles*, an online non-credit course authorized by University System of Georgia and offered through Coursera, October 22, 2020

**Six Sigma Tools for Define and Measure*, an online non-credit course authorized by University System of Georgia and offered through Coursera, November 17, 2020

**Six Sigma Tools for Analyze*, an online non-credit course authorized by University System of Georgia and offered through Coursera, November 22, 2020

**Six Sigma Tools for Improve and Control*, an online non-credit course authorized by University System of Georgia and offered through Coursera December

- **Epidemiology for Public Health Practice**

- Specialization, Johns Hopkins University:**

- Essential Epidemiologic Tools for Public Health Practice, an online non-credit course authorized by Johns Hopkins University and offered through Coursera, 20 March 2020.

- Data and Health Indicators in Public Health Practice, an online non-credit course authorized by Johns Hopkins University and offered through Coursera, 23 March 2020.

- Surveillance Systems: The Building Blocks, an online non-credit course authorized by Johns Hopkins University and offered through Coursera, 25 March 2020.

- Surveillance Systems: Analysis, Dissemination, and Special Systems, an online non-credit course authorized by Johns Hopkins University and offered through Coursera, 27 March 2020.

- Outbreaks and Epidemics an online non-credit course authorized by Johns Hopkins University and offered through Coursera, 28 March 2020.

- **Patient safety and quality improvement**

- Specialization, Johns Hopkins University:**

- Implementing a Patient Safety or Quality Improvement Project (Patient Safety V). An online non-credit course authorized by Johns Hopkins University and offered through Coursera, 12 January 2019.

- Designing for Sustainment: Keeping Improvement Work on Track (Patient Safety IV). An online non-credit course authorized by Johns Hopkins University and offered through Coursera, 1 March 2019.

- Planning a Patient Safety or Quality Improvement Project (Patient Safety III). An online non-credit course authorized by Johns Hopkins University and offered through Coursera, 27 December 2018.

- Setting the Stage for Success: An Eye on Safety Culture and Teamwork (Patient Safety II). An online non-credit course authorized by Johns Hopkins University and offered through Coursera, 1 December 2018.

· Patient Safety and Quality Improvement: Developing a Systems View (Patient Safety I). an online non-credit course authorized by Johns Hopkins University and offered through Coursera, 27 November 2018.

· **Systematic reviews and meta-analysis of prognosis studies, Cochrane Netherlands, Utrecht, The Netherlands. 1-3 July 2019**

· **Network Meta-Analysis Course, Warneford Hospital, Oxford University, Oxford. United Kingdom. June 24th – 26th 2019.**

• **Cochrane Interactive learning modules:**

· An Intervention Review Module 1: Introduction to conducting systematic reviews October 2017. Cochrane training.

· An Intervention Review Module 2: Writing the review protocol October 2017. Cochrane training.

· An Intervention Review Module 3: Searching for studies October 2017. Cochrane training.

· An Intervention Review Module 4: Selecting studies and collecting data November 2017. Cochrane training.

· An Intervention Review Module 5: Introduction to study quality and risk of bias February 2018. Cochrane training.

· An Intervention Review Module 6: Analysing the data June 2018. Cochrane training.

· An Intervention Review Module 7: Interpreting the findings June 2018.. Cochrane training.

· An Intervention Review Module 8: Reporting the review June 2018. Cochrane training.

· An Intervention Review Module 9: Introduction to health economics June 2018. Cochrane training.

· An Intervention Review Module 10: Network meta-analysis. June 2019. Cochrane training.

· An Intervention Review Module 10: Network meta-analysis. June 2019. Cochrane training.

• **“E-learning capacity building for medical practitioners”. A training program at World Health Organization in collaboration with American University of Beirut Medical Center, Cairo, Egypt. May 20-23 2017.**

* Topics covered in the program: eLearning, Adult

learning, Online and blended learning, course design and delivery roadmap, Motivating trainees.

- **“Introduction to Principles of Critical Appraisal of Health Economics Evaluation”**. National Library of Medicine. March 2016.
- **“Identification and Retrieval of Health Economics Evaluation”**. National Library of Medicine. March 2016.
- **“The Scope of Health Economics and Key Information Sources”**. National Library of Medicine. March 2016.
- **“Sources and Characteristics of Information Relating to Health Care Financing in the U.S”**. National Library of Medicine. March 2016.
- **“Fixing health care delivery” offered by University of Florida**. 19 January 2016. (Verified certificate)
- **“Introduction to Systematic review and Meta-analysis” offered by Johns Hopkins University**. July 13-August 23 2015.
- **“Statistics in medicine”**. Offered by Stanford University on September 15, 2015
- **Data Analysis and Statistical Inference**: Duke University's. online offering on 19th November 2014
- **The Data Scientist's Toolbox**: The Johns Hopkins University's online offering on 7 September 2014
- **Questionnaire Design for Social Surveys**: The Johns Hopkins University's online offering on 28 August 2014.
- **Design and Interpretation of Clinical Trials**: The Johns Hopkins University's online offering on 7 April 2014.
- **Statistical Learning**: Online course offered by Stanford University on 8th April 2014.
- **HSPH-HMS214x: Fundamentals of Clinical Trials: a course of study offered by HarvardX, an online learning initiative of Harvard University through edX** on 17 February, 2014
- **“Writing in the Sciences”** :Stanford University on 22 November 2013

- MBChB of Medicine, Medicine, Faculty of Medicine, Alexandria University, 06/06
- Master degree, Biomedical Informatics & Medical Statistics, 05/12
- Ph.D., Biomedical Informatics & Medical Statistics, 12/15
- Fellowship, Cancer research and Biostatistics, Department of Clinical Sciences and Community Health, University of Milan, Italy, 01/17
- Research Fellowship, Cochrane Infectious Disease Group, Liverpool School of Tropical Medicine, United Kingdom, 01/18
- Certified Professional in Healthcare Quality Examination (CPHQ), National Association of Healthcare Quality (NAHQ), HQ0353122
- Health Economics and Health Technology Assessment Diploma, Faculty of Pharmacy, Cairo University, Egypt in partnership with Bournemouth University, UK, 05/23

Teaching experience profile

· **Teaching post-graduate master's degree students, the following subjects:**

- v Principles of Medical Statistics
- v Principles of Research methodology
- v Intermediate Medical Statistics
- v Regression Analysis
- v Scientific Writing
- v Evidence Based Medicine
- v Hospital statistics
- v Basic Epidemiology
- v Principles of Registration of Chronic Diseases (Global Burden of Diseases)

· **Teaching post-graduate doctor degree students, the following subjects:**

- v Systematic Review and Meta-analysis
- v Critical Appraisal & Journal club
- v Survival Analyses
- v Evidence based guidelines.
- v Clinical Measurements and Accuracy of Diagnostic Tests
- v Data reduction, classification, and scale reliability

- v Time series analysis
- v Advanced Topics in Registration of chronic diseases
- v Six-Sigma and Statistical tools in quality of health care.

· **Delivered a course about Evidence –based practice Appraising research evidence in the framework of the health Governance project funded by the Italian-Egyptian Debt for Development Swab program. Cooperazione Italiana- MRI Alexandria University. July-December 2013.**

· **“Medical statistics” Course.** Department of Pharmacology& toxicology. Faculty of Pharmacy and Drug Manufacturing at Pharos University in Alexandria. Spring 2015/2016. (
<https://www.pua.edu.eg/>)

· **Teaching “Evidence Based Practice”, a core module as part of Health Governance Diploma at Health Governance Unit, Medical Research Institute, Alexandria University, Egypt.** (
<http://healthgovernanceunit.com/>)

· **Teaching Information Technology course (2 CH) as part of Pediatric Diploma for neurodisability among children. Children Main University Smouha Hospital. Alexandria, Egypt. September 2022**

· **Organized and participated in a research methodology workshop titled “Incredible Research Starts with Accurate Research Methods” held at Medical Technology Center, Medical Research Institute, Alexandria University, Egypt at 6th February 2022.**

· **Organized and participated in a workshop titled “Systematic reviews and meta-analysis” held at the Health Governance Unit, Medical Research Institute, Alexandria University, Egypt (<http://healthgovernanceunit.com/>) at 15th February 2022**

· **Teaching Medical Statistics subject for students in Dentistry and Public Health Faculties (PHS236),**

Membership

- Institute of Health Metric Evaluation as a Global Burden of Disease Collaborator

- Union International of Cancer Control (UICC)

- Cochrane Membership 18 November 2018-present:

- ✓ **Authoring:**

- ✓ **Peer Review:**

Peer Review - Feedback Received: Rapid versus standard antimicrobial susceptibility testing to guide treatment of bloodstream infection 01 August 2018

- ✓ **Cochrane Engage:**

Diagnostic test accuracy of NBI endoscopy in Barrett's esophagus