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Evidence Synthesis Unit (ESU)

The Evidence Synthesis Unit (ESU) supports in planning, designing, and conducting evidence syntheses, and studies of health research methodology.

To request ESU services, kindly fill out this link.

Director

Ola El Zein, PhD	Jul 2024 – Present
Elie Akl, MD, MPH, PhD	Jan 2012 – Jun 2024

Coordinator

Reem Hoteit, MSc	Sep 2023 – Mar 2024
Joanne Khabsa, MPH	Jul 2019 – Aug 2023
Lara Kahale, PhD	Dec 2012 – Jun 2019

Research Assistants

Razan Youssef, BS, MSc	Dec 2024 – Present
Reem Hoteit, BS, MSc	Apr 2022 – Aug 2023
Rayane El-Khoury, MPH	Jul 2019 – Sept 2021
Amena El-Harakeh, MPH	Jan 2018 – May 2020

Research Fellows

Fatimah Chamseddine, MD	Oct 2019 – May 2020
Assem Khamis, MD, MPH	Aug 2017 – Jun 2019
Ibrahim Tsolakian, MD	Aug 2017 – Jun 2018
Maram Hakoum, MD	Jun 2015 – Jun 2017
Rima Abdul Khalek, PharmD	Oct 2015 – Apr 2016
Andrea Darzi, MD, MPH	Oct 2015 – Apr 2016
Tamara Lotfi, MD	Jul 2013 – Jan 2015
Khaled Shawwa, MD	Jul 2013 – Jan 2015

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Practicum students

Karen Gulumian	Nov 2023 – Mar 2024
Fadi Martinos, BA	Dec 2021 – Mar 2022
Aya Hassoun, BA	May 2021 – September 2021
Fatima Mouzahem, BS	Jan 2019 – Jul 2019
Maryam Omran, RN	Jun 2017 – May 2018
Karim N Daou, MD	Jan 2017 – Jul 2017
Mohamed Nomier, MD	Jan 2017 – Jul 2017
Rana Charide, BS	Jan 2016 – May 2016
Assem Khamis, MD	Jan 2016 – Jul 2016
Andrea Darzi, MD	May 2014 – Dec 2014
Reem Waziry, MD	May 2014 – Jul 2014
Reem Khaliel, MD	2014

Medical Research Volunteer Program students

Lama Hamade	Academic Year 2020-2021 and 2021-2022
Dima Itani	Academic Year 2020-2021 and 2021-2022
Tala El Ghoul	Academic Year 2020-2021 and 2021-2022
Ghena Lababidi	Academic Year 2020-2021
Amr Ali	Academic Years 2020-2021
Hala Al Habob	Academic Year 2020-2021
Nahla Jouni	Academic Year 2015-2016
Hussein Noureldine	Academic Year 2015-2016
Acile Nahlawi	Summer 2015
Hiba Zeid	Summer 2015
Divina Hasbani	Summer 2015
Ahmed El Rahyel	Fall 2014
Rayan Hajjar	Fall 2014
Mohammad Al Akel	Summer 2014
Mira Itani	Summer 2014
Dana Naamani	Summer 2014
Ihsan Hammoura	Summer 2014
Nada Al-Matari	Summer 2014

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Fellows and Residents Research Program (FRRP) participants

Charbel Matar, MD	2016
Hiba El Rayes, MD, MPH	2016
Sami Bdeir, MD	2015
Romy Kallas, MD	2014
Lina Al-Khaled, MD	2012

Scholarly Concentration Track Program

Amr Ali, BS	2022 – 2025
Vanessa Helou, MD	2021 – 2024
Adham Makarem, MD	2019 – 2022

SHARP students

Dima Kabbani, MD	2020 – 2022

Other Volunteers

Yehya Oweidat	2026 – present
Taline Khadem	2026 – present
Sara Sarout	2025 – present
Patricia Kmach	2025 – present
Mohamad Abdallah	2025 – present
Hussein El Jebbawi	2025 – present
Sacha Saad	2025 – present
Reem Barji	2025 – present
Ahmad Choujaa	2025 – present
Mohamad Naboulsi, MD	2025 – 2026
Ward Harb	2025 – 2026
Mostafa Hijazi	2025 – 2026
Nour Wehbe	2025 – 2026
Dima Itani	2024 – 2025

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Soha Wahab	2024 – 2025
Mohammad El Jammal	2024 – 2025
Jack Arkilo	2024 – 2025
Lama Hamade, BS	2024 – 2025
Mohammad El Zoughbi, BS	2024 – 2025
Lama Ammar	2023 – 2024
Rima Kashash	2023 – 2024
Vanessa Helou, BS	2020 – 2021
Hussein Noureldine, MD	2019 – 2023
Ali Dakroub, BS	2019
Joseph Bejjani, BS	2019
Mohammed Moustafa Khamis, BS	2019
Serena Obeid, BS	2018
Aline Semaan, BS, MPH	2018
Fadel Al Turki, MD	2017
Joseph Habib, MD	2016
Eliane Abou-Jaoude, MD	2015
Elias Abou-Jaoude, MD	2015
Mounir Al Gibbawi, MD	2015
Sirine Anouti, BS, MPH	2015
Sami Chouciar, MD	2015
Lama Kilzar, BSc	2015
Serge Koujanian, MD	2014
Munes Fares, MD	2013
Alain Harb, MD	2013
Hashem Rajab Beik, MD	2013
Batoul Diab, BS, MSc	2013
Rami Tarabay, MD	2013

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ESU activity summary

Activity	Number of projects	Principal Investigators
Ongoing AUB faculty research projects	15	13
Previous AUB faculty research projects	32	25
Activity	**Number of projects**	**Team Members**
Ongoing ESU projects	40	186
Published ESU projects	36	85
Activity	**Number of presentations**	**Speakers**
Oral and poster presentations	43	18
Workshops	25	17
Activity	**Number of conferences/meetings**	**Participants**
International Meetings and Conferences	12	ESU Team

Ongoing - Support for AUB faculty research projects			
Study title	**Principal investigator(s)**	**Department**	**Year**
Researchers' experiences in crisis settings: A Scoping Review	Dr. Elie Akl	Internal Medicine	2026-present
Emergent therapies of Idiopathic Pulmonary Fibrosis beyond oral anti-fibrotic agents - A Systematic Review	Dr. Hisham Bou Fakhreddine	Internal Medicine	2026-present
The Role of Diaspora Researchers in Supporting Locally Conducted Research during Crises: A Scoping Review	Dr. Elie Akl	Internal Medicine	2026-present

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Ocular Manifestations in Mitochondrial Diseases: A Scoping Review of the Literature	Dr. Rola Hamam	Ophthalmology	2025-present
Predictors of Gleason Grade Upgrading in Localized Prostate Cancer: A Scoping Review	Dr. Albert El Hajj	Surgery	2025-present
Bronchoscopy in haematological malignancy patients: A Systematic Review	Dr. Imad Bou Akl; Dr. Hisham Bou Fakhreddine	Internal Medicine	2025-present
Metabolic hormones agonists and antagonists for weight loss and musculo-skeletal health and body composition in adults with obesity: A systematic review	Dr. Marlene Chakhtoura	Internal Medicine	2025-present
Heat stress and Neurobehavioral performance in outdoor workers exposed to Heat stress: A Systematic Review	Dr. Iman Nuwayhid; Dr. Rima R. Habib	Health Sciences	2025-present
Sugammadex for reversing neuromuscular blockade in infants and children	Dr. Christian Rouphael	Anesthesiology	2025-present
Medication Adherence Project (MAP): A systematic review of literature to inform how to systematically address non-adherence medication in Primary Health Care Centers	Dr. Gladys Honein	Nursing	2024-present

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Conflicts of interest of stakeholders engaged in evidence syntheses: a systematic survey	Dr. Elie Akl	Internal Medicine	2024-present
Sodium-glucose cotransporter 2 inhibitors (SGLT2 i) in the treatment of Syndrome of inappropriate antidiuretic hormone (SIADH): A Systematic Review	Dr. Ali Abu-Alfa	Internal Medicine	2023-present
The Effect of Protocol or Surveillance Kidney Biopsies Versus Standard Care on Renal Allograft Survival and Other Outcomes: A Systematic Review And Meta-Analysis	Dr. Samir Mallat	Internal Medicine	2023 - present
Conflict of interest issues when engaging stakeholders in health care systematic reviews (MuSE consortium)	Dr. Elie Akl	Internal Medicine	2022 - present
Prevalence, characteristics and predictors of late-onset sepsis among preterm infants in the Neonatal Intensive Care Unit	Dr. Khalid Yunis	Pediatrics and adolescent medicine	2020 - present

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Ongoing ESU projects			
Study title	**Team member(s)**	**Publication**	**Year**
Preparing Residents and Fellows for Armed Conflict and War Settings: A Scoping Review of Educational and Training Programs	Ms. Reine Obeid; Mr. Ali Bou Melhem; Dr. Ola El Zein; Dr. Marianne El Khoury; Dr. Joseph Abourjeily: Ms. Carmen Assi: Dr. Patrick Maroun; Dr. Nizar El Bcherawi; Dr. Halah Ibrahim; Dr. Fatima Msheik-El Khoury	Pending	2026-present
Efficacy of Neoadjuvant Chemoimmunotherapy and the Prognostic and Predictive Value of Immunoscore in Microsatellite Stable Locally Advanced Rectal Cancer: A Systematic Review and Meta-Analysis	Dr. Rani Hassan; Dr. Ali Shamseddine; Ms. Joanne Khabsa; Dr. Ola El Zein	Pending	2026-present
Critical Review of Research on the Health of Women Migrant Care Workers in the Arab Region	Ms. Faith Chuby Labija; Dr. Ola El Zein; Dr. Sawsan Abdulrahim	Pending	2026-present
Neuroimaging findings and patterns in pediatric myelin oligodendrocyte antibody antibody disease (MOGAD): a systematic review protocol	Dr. Lama Younes; Dr. Ahmad Assi; Ms. Clemence El Morr; Dr. Roula Hourany; Ms. Razan Youssef; Dr. Ola El Zein; Dr. Simone Khalifeh	Pending	2026-present
What Do We Know About Depression Among Agricultural Workers? A Scoping Review of Prevalence and Determinants	Ms. Josleen El Barathie; Ms. Sarah Assaf; Mr. Bandar Noory; Ms. Razan Youssef; Dr. Martine El Bejjani; Dr.	Pending	2025-present

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	Ola El Zein; Dr. Katherine Keyes; Dr. Hani Mowafi; Dr. Krystal Pollitt; Dr Miran Salame Jaffa; Dr. Rima Habib; Dr. Iman Nuwayhid		
Natural Language Processing (NLP) as a decision-support tool for suicide hotline operators in the early detection of suicidal ideation: A Systematic Review	Ms. Rita El Hachem; Mr. Hasan Jaber; Ms. Zahraa Harb; Dr. Lilian Ghandour; Ms. Joanne Khabsa; Dr. Ola El Zein	Pending	2025-present
On the Origin of Depression: A Systematic Review and Meta-Synthesis of Evolutionary Theories	Dr. Alfred Chabbouh; Dr. Roua Abbas; Dr. Yara El Frenn; Dr. Ahmad Sabalbal; Dr. Karolina Jaalouk; Dr. Lea Daou; Ms. Ayah Hamadeh; Ms. Razan Youssef; Dr. Ola El Zein; Dr. Elias Ghossoub	Pending	2025-present
Denosumab and Teriparatide Biosimilars in Osteoporosis Treatment: A Systematic Review and Meta-Analysis of Randomized Controlled Trials	Ms. Alaa Jaber; Dr. Layan Abbas; Dr. Ola El Zein; Dr. Mona Al Mukaddam; Dr. Angela Cheung; Dr. Ghada El-Hajj Fuleihan	Pending	2025-present
Mapping the Biosimilar Landscape in Osteoporosis: A Scoping Review of Regulatory, Clinical, and Implementation Pathways for Denosumab and Teriparatide Biosimilars	Ms. Alaa Jaber; Dr. Layan Abbas; Dr. Ola El Zein; Dr. Mona Al Mukaddam; Dr. Angela Cheung; Dr. Ghada El-Hajj Fuleihan	Pending	2025-present
How Social Media Shapes Adolescent Emotion Regulation: Exploring Mediating and Moderating Pathways: A Systematic Review	Dr. Ahmad Nsouli; Dr. Chelsy Eid; Ms. Razan Youssef; Ms. Lana Ghazale; Dr. Ola El Zein; Dr. Evelyne Baroud	Pending	2025-present

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Dose–Response Relationship Between Chronic Pesticide Exposure and Neurobehavioral Outcomes in Agricultural Workers: A Systematic Review and Meta-Analysis	Ms. Sarah Assaf; Dr. Iman Nuwayhid; Dr. Rima Habib; Mr. Bandar Noory; Ms. Josleen El Barathie; Dr. Ola El Zein	Pending	2025-present
TNF alpha, a predictor of severity in acute pancreatitis: A Systematic Review	Dr. Jad Mrad; Ms. Razan Youssef; Dr. Asaad Skoury; Dr. Ola El Zein	Pending	2025-present
Mapping the Responsible Adoption of Artificial Intelligence (AI) for Global Health in Low Resource Settings: A Scoping Review	Mr. Khaled El Iskandarani; Ms. Nour El Arnaout; Ms. Nadine Sabra; Dr. Shadi Saleh; Ms. Razan Youssef; Dr. Ola El Zein	Pending	2025-present
Ethics of conducting Research during War-related Crises from a community perspective: A Scoping Review	Dr. Macy Zaatar; Ms. Abeer Dakik; Ms. Heba Mohamed; Mr. Anas El Zouhbi; Ms. Joanne Khabsa; Dr. Ali Abu-Alfa; Dr. Eveline Hitti; Dr. Elie Akl; Dr. Ola El Zein	Pending	2025-present
Radiocephalic and Brachiocephalic Arteriovenous Fistula in Pediatric Population: A Systematic Review and Meta-analysis	Mr. Farouk Abou Hassan; Mr. Housein Zeaiter; Ms. Razan Youssef; Dr Hadi Jounblat; Dr. Rakan Nasreddine; Dr. Ola El Zein	Pending	2025-present
Racial Variation of Ocular Diseases: A systematic review	Dr. Khalil El Jawhary; Ms. Razan Youssef; Dr. Ola El Zein; Dr. Jana Tabaja; Dr. Elie J Raad; Dr. Hana Mansour; Dr. Maurizio Battaglia Parodi; Dr. Ahmad Mansour	Pending	2025-present
Social Media Promotion of GLP-1 Receptor Agonists for Obesity: A Scoping Review of Study	Ms. Sophia Jamal; Mr. Malek Al Nakouzi; Dr. Ola El Zein; Dr. Jumana Antoun	Pending	2025-present

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Designs, Engagement Strategies, and Public Perceptions			
Fatal and Non-fatal Drowning in the Arab region: A scoping Review	Mr. Ahmed Al-Madhwahi; Dr. Ola El Zein; Dr. Samar Al Hajj	Pending	2025-present
Exploring the Genetic Landscape: Understanding the Role of Genetic Factors in the Predisposition of Diabetic Patients to Colorectal Cancer	Dr. Soha Yazbek; Ms. Amar Zaidan; Dr. Ola El Zein	Pending	2024-present
Conduction system pacing Versus Standard Right ventricular pacing in patients with congenital Atrioventricular block, or congenital heart disease with post-operative AV block	Ms. Amal Al-Jabali; Dr. Bernard Abi-Saleh; Dr. Ola El Zein; Dr. Fatme Charafeddine; Dr. Jamil Francis	Pending	2024-present
Evaluating Hospital Preparedness for Mass Casualty Incidents in Lower middle and Low-Income Countries: A Scoping Review	Dr. Ghada Chamandi; Dr. Eveline Hitti; Dr. Sarah Abdul Nabi; Dr. Ola El Zein	Pending	2024-present
Prevalence of cardiometabolic risk factors among adolescents (10-19 years old) in the Arab region: a systematic review and meta-analysis	Dr. Christelle Akl; Dr. Lara Nasreddine; Ms. Marie-Elizabeth Ragi; Ms. Nour Osman; Ms. Rhea Fahd; Dr. Ola El Zein; Dr. Hala Ghattas; Dr. Wafaie W. Fawzi; Dr. Abla Mehio Sibai; Dr. Goodarz Danaei; Dr. Stephen J. McCall	Pending	2024-present
Effects of maternal singing or voice on language and social-emotional development of preterm infants: A Systematic	Ms. Christine Halajian; Dr. Gladys Honein; Dr. Lama Charafeddine; Ms. Saadieh Masri; Dr. Ola El Zein	Pending	2024-present

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Review			
Polyester Versus Polytetrafluoroethylene Endografts in Endovascular Abdominal Aortic Aneurysm Repair: Systematic Review and Meta-analysis	Ms. Rita Ayoub; Dr. Fady Haddad; Dr. Sami Nabhani; Ms. Joanne Khabsa; Ms. Razan Youssef; Dr. Ola El Zein	Pending	2024-present
Knowledge, Attitudes, Practices, and Behaviors on Osteoporosis Prevention and Treatment Strategies in the MENA Region: A Systematic Review	Dr. Youssef Makarem; Mr. Bshara Sleem; Dr. Ghada El-Hajj Fuleihan; Dr. Ola El Zein; Dr. Marlene Chakhtoura	Pending	2024-present
Nutrition interventions targeting adolescents in Arab countries: MENARAT scoping review	Ms. Yassmin Doughan; Dr. Ghada El-Hajj Fuleihan; Dr. Ola El Zein; Dr Marlene Chakhtoura; Dr. Sachin Shinde; Dr. Wafaie W. Fawzi; Dr. Lamya Khuri; Dr. Lara Nasreddine; Ms. Sara Ajjour; Dr. Goodarz Danaei; Dr. Christopher P. Duggan	Pending	2024-present
Tools & Frameworks for Mapping Health Research Infrastructure: A Systematic Review	Ms. Lara Al Hakim; Ms. Razan Youssef; Ms. Lana El Arab; Dr. Mohamad Naboulsi; Ms. Ward Harb; Mr. Mostafa Hijazi; Dr. Marlene Chakhtoura; Dr. Ola El Zein	Pending	2024-present
Measuring cumulative exposure to stressful life events in adults: a systematic review of available tools	Ms. Lara Chehabeddine; Dr. Martine El Bejjani; Dr. Ola El Zein	Pending	2024-present
Ensuring research continuity during crises: a scoping review	Ms. Lili Zeidan; Mr. Makram Halawani; Ms. May Awar Ammar; Ms. Chahinda	Pending	2024-present

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	Hammoud; Ms. Heba Mohamed; Ms. Sarah Kamareddine; Mr. Mohamad Zoghbi; Dr. Macy Zaatar; Dr. Elie Akl; Dr. Ola El Zein		
Teaching and Assessment of the Systems-Based Practice Competency in Graduate Medical Education: A Scoping Review	Ms. Reine Obeid; Dr. Fatima Msheik El-Khoury; Ms. Salpy Naalbandian; Ms. Assyl Amhaz; Ms. Lea Farhat; Mr. Adam Siddik; Mr. Ali Bou Melhem; Dr. Marianne El Khoury; Dr. Halah Ibrahim; Dr. Ola El Zein	Pending	2024-present
Epidemiology of pediatric traumatic brain injury in the United States: Sex- and mechanism-specific patterns in a systematic review	Mr. Yazan Bouchi; Ms. Nour Abou Khalil; Dr. Jessica Wright; Dr. Sarah Thomas; Ms. Brianna Hayden; Ms. Grace Nyman; Dr. Ola El Zein; Dr. Ali Amine; Dr. Ahmad Assi; Ms. Nesrine Ahmad; Dr. Laura Blackwell; Dr. Andrew Reisner; Dr Samar Al-Hajj; Dr. Firas Kobeissy; Dr. Joseph Tyndall	Pending	2024-present
Severity-stratified mortality in pediatric traumatic brain injury in the United States: A systematic review and meta-analysis	Dr. Jessica Wright; Ms. Nour Abou Khalil; Mr. Yazan Bouchi; Dr. Sarah Thomas; Ms. Brianna Hayden; Ms. Grace Nyman; Dr. Ola El Zein; Dr. Ali Amine; Dr. Ahmad Assi; Dr. Khadija Boukholda; Ms. Nesrine Ahmad; Dr. Laura Blackwell; Dr. Andrew Reisner; Dr Samar Al-Hajj; Dr. Firas Kobeissy; Dr. Joseph Tyndall	Pending	2024-present

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The Use of Artificial Intelligence in Estimating Arterial Stiffness: An Ongoing Scoping Review	Ms. Lara Afesh; Mr. Alexander Harout Soussani; Dr. Ola El Zein; Dr. Houry Puzantian	Pending	2024-present
Thermal ablation versus parathyroidectomy for the treatment of hyperparathyroidism, a systematic review and meta-analysis	Dr. Zeinab Issa; Dr Marlene Chakhtoura; Dr. Lama Younes; Dr. Ola El Zein; Dr. Ghada El-Hajj Fuleihan	Pending	2024-present
Mental Health and Substance Use Prevention Interventions Targeting Children, Adolescents, and Young Adults in Arab Countries: A Scoping Review	Ms. Walaa El Sheikh; Dr. Lilian Ghandour; Dr. Fadi Maalouf; Dr. Ola El Zein; Dr. Rita Hamad; Dr. Anne Edith Becker; Dr. Sachin Shinde; Ms. Lara Farhat; Dr. Wafaie W. Fawzi; Ms. Alysia Zhang; Dr. Ahmad Nsouli; Dr. Elias Ghossoub; Mr. Idrissa I Cisse	Pending	2024-present
Conducting Biomedical Research Amidst Crises Settings: A Scoping Review of the Literature	Ms. Sacha Saad; Mr. Ahmad Choujaa; Ms. Reem Barji; Mr. Hussein El Jebbawi; Mr. Mohamad Abdallah; Ms. Patricia Kmach; Ms. Sara Sarout; Dr. Ola El Zein; Ms. Lara Al Hakim; Ms. Razan Youssef; Dr. Firas Kreidieh; Dr. Marlene Chakhtoura	Pending	2024-present
Interventions to Promote Early Childhood Development in the Middle East and North Africa Arab countries: A Scoping Review	Ms. Maya Farran; Dr. Lama Charafeddine; Dr. Mona Nabulsi; Dr. Ola El Zein; Ms. Catherine Hamzeh; Dr. Wafaie W. Fawzi; Dr. Aisha K. Yousafzai; Ms. Alya Alsager; Ms. Shams Aldos; Dr. Michelle Shah	Pending	2024-present

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Assessing the Role of Ultrasound in Predicting Failure of Non-Invasive Ventilation: A Systematic Review	Dr. Ali Ismail; Dr. Dima Khreiss; Dr. Maysaa Slika; Dr. Hawraa Raoof; Dr. Rita Sebaaly; Dr. Mohamad Khatib; Dr. Ziyad Mahfoud; Dr. Mohamad Hassan; Dr. Sab Shehab; Dr. Jad Assi; Dr. Hadi El Sayed; Dr. Amal Chehade; Dr. Soundos Youssef; Dr. Ola El Zein	Pending	2024-present
A scoping review on the burden of cancer surgery in the EMRO region	Dr. Mohamad Kayal; Dr. Eman Sbaity; Dr. Ola El Zein	Pending	2024-present
Dialectical Behavioral Therapy (DBT) in Arab Countries: A Systematic Review	Ms. Laure Saad; Dr. Dinah Ayna; Ms. Rachel Chreim; Dr. Ola El Zein	Pending	2024-present

Previous - Support for AUB faculty research projects			
Study title	**Principal investigator(s)**	**Department**	**Year**
Performance of Sentinel Lymph Node Biopsy after Neoadjuvant Chemotherapy in Clinically Node Positive Breast Cancer Patients: Systematic Review and Meta-analysis	Dr. Eman Sbeity	Surgery	2023
Frailty interventions for heart failure patients	Dr. Angela Massouh	Nursing	2022
Immune-Based Therapy for Hospitalized Patients With COVID-19 and Risk of Secondary Infections: A Systematic Review and Meta-analysis	Dr. Dima Kabbani	SHARP	2020

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Risk of thromboembolic events in non-hospitalized COVID-19 patients	Dr. Fouad Zouein	Cardiology	2021 - 2022
Ultrasound-guided arterial cannulation for paediatrics (update)	Dr. Marie Maroun-Aouad	Anesthesiology	2022
Cannabis use and the risk of suicide in psychosis patients	Dr. Farid Talih	Psychiatry	2022
Does a positive surgical margin after nephron sparing surgery affect oncological outcome in renal cell carcinoma? A systematic review and meta-analysis	Dr. Raja Khauli	Urology	2021
Effects of weaponized uranium on public health in Iraq: a systematic review	Dr. Rima Habib	Environmental health	2019
Aspirin and upper gastro-intestinal bleeding	Dr. Kassem Barada	Internal medicine	2019
Carbonic anhydrase inhibitors use in patients with respiratory failure and metabolic alkalosis	Dr. Samir Mallat	Internal Medicine	2018
Implantable cardioverter in non-ischemic heart failure	Dr. Marwan Refaat	Internal Medicine	2018
Bladder cancer and nat1	Dr. Hassan R Dhaini	Environmental health	2018
Attitudes of youth towards substance use	Dr. Joseph Khoury	Psychiatry	2018
Carbamazepine for interpersonal aggressive behavior	Dr. Farid Talih	Psychiatry	2018

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mTOR inhibitors in renal transplant patients	Dr. Samir Mallat	Internal Medicine	2017
Prophylactic cranial irradiation in patients with non-small-cell lung cancer: a systematic review and meta-analysis of randomized controlled trials	Dr. Fady Geara; Dr. Karine Al Feghali	Radiation oncology	2017
Osteomyelitis in conflict wounds	Dr. Ghassan Abu Sittah	Surgery	2016
Traumatic brain injury in lebanon	Dr. Firas Kobeissy	Biochemistry and molecular genetics	2016
Rotavirus and norovirus in MENA region	Dr. Nada Melhem	Medical laboratory sciences	2016
Insertion of arterial cannulation using ultrasound guidance technique for pediatric patients	Dr. Marie Maroun-Aouad	Anesthesia	2016
Effects of different doses of vitamin d supplementation in the Middle East and North Africa Region	Dr. Ghada El-Hajj Fuleihan	Internal Medicine	2016
Free versus fixed combination antihypertensive therapy for essential arterial hypertension	Dr. Samir Mallat	Internal Medicine	2016
Minimally invasive parathyroidectomy guided by intraoperative parathyroid hormone monitoring (IOPTH) and preoperative imaging versus bilateral neck exploration for primary hyperparathyroidism	Dr. Ghada El-Hajj Fuleihan	Internal Medicine	2016

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Attitudes of public health academics toward receiving funds from for-profit corporations	Dr. Rima Afifi	Health promotion and community health	2015
Family interventions for youth well being	Dr. Rima Afifi	Health promotion and community health	2015
Bundle branch block and mortality	Dr. Samar Noureddine	Nursing	2015
Full-dose versus half dose clarithromycin for treatment naïve patients with proven helicobacter pylori infection: a systematic review	Dr. Ala Sharara	Internal Medicine	2015
ICDs in patients with cardiac sarcoidosis: a systematic review	Dr. Marwan Refaat	Internal Medicine	2015
Association between low vitamin d levels and the diagnosis of asthma in children: a systematic review of cohort studies	Dr. Salman Mroueh	Pediatrics	2014
Vitamin d supplementation in children with asthma: a systematic review and meta-analysis	Dr. Salman Mroueh	Pediatrics	2014
LVAD arrhythmia: a systematic review	Dr. Hadi Skouri	Internal medicine	2013
Surgical versus medical management of patients with acute ischemic mitral regurgitation: a systematic review	Dr. Wael Jaroudi	Internal medicine	2013

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Published ESU projects			
Study title	**Team Member(s)**	**Publication**	**Year**
Physical Activity and Psychological Health in the Arabic Region During COVID-19: A Multi-Country Comparative Study	Dr. Anas Khalifeh; Dr. Ahmad Rayan; Dr. Rami Masa'Deh; Dr. Ola El-Zein; Dr. Omar Al Omari; Dr. Bahaaeddin Hammad; Dr. Fadwa Alhalaiqa; Dr. Mutaz Othman	https://doi.org/10.1093/inthealth/ihag065	2026
Retuning the Premedical Compass in American Programs Worldwide: Scoping Review	Ms. Laetitia I. Bou Samra; Ms. Christelle I. Zeidan; Ms. Michelle E. Chouairy; Dr. Ola El Zein; Dr. Bilal Kaafarani	https://mededu.jmir.org/2026/1/e85002	2026
Comparison of preprints and their corresponding peer-reviewed publications in the health field: A Scoping Review	Dr. Ola El Zein; Mr. Amr Ali; Mr. Mohamad Sadek Zoghbi; Ms. Lama Hamade; Ms. Sasha Tedy; Ms. Joanne Khabsa; Dr. Elie Akl	https://link.springer.com/article/10.1186/s41073-026-00189-z	2026
Knowledge, attitudes, and practices on osteoporosis prevention and treatment strategies in the MENA region: a systematic review protocol	Dr. Youssef Makarem; Mr. Bshara Sleem; Dr. Marlene Toufic Chakhtoura; Dr. Ola El Zein; Dr. Ghada El-Hajj Fuleihan	https://bmjopen.bmj.com/content/15/11/e105603	2025
Effects of Maternal Singing or voice on Language and Social-Emotional Development of Preterm Infants: Protocol for a Systematic Review	Ms. Christine Halajian; Dr. Gladys Honein; Dr Lama Charafeddine; Ms. Saadieh Masri; Dr. Ola El Zein	https://bmjopen.bmj.com/content/15/9/e101355	2025

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Promoting healthy ageing through measures addressing social determinants of older adults' health: a scoping review protocol	Dr. Khairat Al-Habbal; Ms. Sara Yousef; Ms. Rima Kaddoura; Ms. Zeinab Hassan; Dr. Ola El Zein	https://bmjopen.bmj.com/content/15/7/e091079.info	2025
Performance of sentinel lymph node biopsy after neoadjuvant chemotherapy in clinically node-positive breast cancer patients: systematic review and meta-analysis	Dr. Mariam Zahwe; Ms. Abir Ghzaiel; Mr. Ahmad Najia; Ms. Lara Soueid; Dr. Khalil El Asmar; Dr. Malak Ghezzawi; Dr. Sarah El Iskandarani; Dr. Marwa Diab; Ms. Miryam El Jibbawi; Ms. Reem Hoteit; Dr. Eman Sbaity	https://journals.lww.com/international-journal-of-surgery/fulltext/2025/04000/performance_of_sentinel_lymph_node_biopsy_after.26.aspx	2025
Cognitive assessment tools for Arabic speaking older adults: a systematic review	Ms. Mayssan Kabalan; Ms. Ola Bazzi; Ms. Josleen Al-Barathie; Dr. Ola El Zein; Ms. Lara Chehabeddine; Ms. Joanne Khabsa; Dr. Monique Chaaya; Dr. Carlos Mendes de Leon	https://alz-journals.onlinelibrary.wiley.com/doi/10.1002/alz.70207	2025
Defining misinformation and related terms: a scoping review of the health-related literature	Dr. Ola El Zein; Dr. Ibrahim El-Mikati; Ms. Reem Hoteit; Dr. Elie Akl	Journal of Medical Internet Research, 25, p.e45731.	2022-2023
Extension of the PRISMA 2020 statement for living systematic reviews (LSRs)	Dr. Elie Akl; Dr. Lara Kahale; Ms. Joanne Khabsa	F1000Research. 2022 Jan 28;11(109):109.	2021 - 2022
Conflicts of interest and funding in social media health communications: a systematic review	Dr. Elie Akl; Ms. Vanessa Helou; Ms. Fatima Mouzahem; Ms. Joanne Khabsa; Ms. Rayane El-Khoury;	BMJ open. 2023 Aug 1;13(8):e072258.	2018 – 2023

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	Ms. Dana Al Ouweini; Ms. Razan Hallak; Dr. Hussein Noureldine; Dr. Adham Makarem		
The life and death of living systematic reviews: a methodological survey	Dr. Elie Akl; Dr. Mohammed Moustafa Khamis; Dr. Lara Kahale; Ms. Rayane El-Khoury; Dr. Rand Ibrahim; Dr. Sara Farran; Dr. Ibrahim El-Mikati	F1000Research. 2019;8 F1000Research, Mar 2021; 10(192), 192	2019 – 2021
Conflict of interest in the peer review process: A survey of peer review reports	Dr. Adham Makarem; Ms. Joanne Khabsa; Dr. Elie Akl	Plos one. 2023 Jun 8;18(6):e0286908.	2019-2022
Conceptualizing the reporting of living systematic reviews	Dr. Elie Akl; Ms. Joanne Khabsa; Dr. Lara Kahale	Journal of Clinical Epidemiology. 2023 Feb 1.	2022
A framework is proposed for defining, categorizing, and assessing conflicts of interest in health research	Dr. Elie Akl; Ms. Joanne Khabsa	Journal of Clinical Epidemiology. 2022 Jun 6.	2019 - 2022
Reporting of funding and conflicts of interest improved from preprints to peer-reviewed publications of biomedical research	Ms. Dima Itani; Ms. Ghena Lababidi; Ms. Rola Itani; Ms. Tala El Ghoul; Ms. Lama Hamade; Ms. Ayat Hijazi; Ms. Joanne Khabsa; Dr. Elie Akl	Journal of Clinical Epidemiology. 2022 Jun 20.	
Policies of biomedical preprint servers on conflicts of interest, authorship, and research integrity lacked important details	Ms. Lama Hamade; Mr. Amr Ali; Ms. Ayat Hijazi; Ms. Dima Itani;	Journal of Clinical Epidemiology.	2021 - 2022

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	Ms. Hala Al Habob; Ms. Ghena Lababidi; Ms. Joanne Khabsa; Dr. Elie Akl	2022 Jun 1;146:47-59.	
COVID-19 transmission during swimming-related activities: a rapid systematic review	Dr. Elie Akl; Dr. Sally Yaacoub; Ms. Joanne Khabsa; Ms. Rayane El-Khoury; Dr. Assem Khamis	BMC infectious diseases. 2021 Dec;21(1):1-0.	2020
Health effects of travel policies on the COVID-19 pandemic: rapid mixed-methods systematic review and policy mapping	Dr. Elie Akl; Dr. Fadi El-Jardali; Ms. Lama Bou Karroum; Ms. Joanne Khabsa (in collaboration with the systematic review center for health policy and systems research)	Journal of Infection. 2021 Oct 1;83(4):413-23.	2020
Physical distancing, face masks, and eye protection to prevent person-person COVID-19 transmission: a systematic review and meta-analysis	Dr. Elie Akl; Dr. Sally Yaacoub; Dr. Assem Khamis; Ms. Rayane El-Khoury; Ms. Amena El-Harakeh; Dr. Fatimah Chamseddine; Ms. Joanne Khabsa	The lancet. 2020 Jun 27;395(10242):1973-87.	2020
Safe management of bodies of deceased persons with suspected or confirmed COVID-19: a rapid systematic review	Dr. Elie Akl; Dr. Sally Yaacoub; Ms. Joanne Khabsa; Dr. Assem Khamis; Ms. Rayane El-Khoury; Ms. Amena El-Harakeh; Dr. Fatimah Chamseddine	BMJ Global Health. 2020 May 1;5(5):e002650.	2020
Ventilation techniques and risk for transmission of coronavirus disease, including COVID-19: a living systematic review of multiple streams of evidence	Dr. Elie Akl; Ms. Joanne Khabsa; Dr. Assem Khamis; Ms. Rayane El-Khoury; Ms. Amena El-Harakeh; Dr. Fatimah Chamseddine; Dr. Sally Yaacoub	Annals of internal medicine. 2020 Aug 4;173(3):204-16.	2020

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		Annals of internal medicine. 2020 Dec 1;173(11):W152-3. Annals of Internal Medicine. 2022 Jan;175(1):W6-7.	
Assessing concordance of financial conflicts of interest disclosures with payments' databases: a systematic survey of the health literature	Dr. Elie Akl; Dr. Assem Khamis	Journal of Clinical Epidemiology. 2020 Nov 1;127:19-28.	2020
Anticoagulation in patients with cancer (living systematic reviews)	Dr. Elie Akl; Dr. Lara Kahale	The Lancet Haematology. 2020 Oct 1;7(10):e746-55. Cochrane Database of Systematic Reviews. 2018(7). Cochrane Database of Systematic Reviews. 2018(6). Cochrane Database of Systematic Reviews. 2018(6).	2013 - 2021

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		Cochrane Database of Systematic Reviews. 2014(10). Cochrane Database of Systematic Reviews. 2021(12). Cochrane Database of Systematic Reviews. 2018(1). Cochrane Database of Systematic Reviews. 2011(6). Cochrane Database of Systematic Reviews. 2017(9). Cochrane Database of Systematic Reviews. 2021(10).	

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		Cochrane Database of Systematic Reviews. 2021(9). JAMA. 2015 Apr 7;313(13):1364-5.	
Addressing missing data in systematic reviews	Dr. Elie Akl; Dr. Lara Kahale	BMJ. 2020 Aug 26;370. Clinical Epidemiology. 2020;12:527. Journal of clinical epidemiology. 2019 Nov 1;115:55-63. Journal of Clinical Epidemiology. 2019 Feb 1;106:18-31. Journal of clinical epidemiology. 2018 Jul 1;99:14-23. Journal of Clinical Epidemiology.	2020

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		2016 Aug 1;76:147-54. Systematic reviews. 2015 Dec;4(1):1-7. BMJ open. 2015 Dec 1;5(12):e008431. Systematic reviews. 2014 Dec;3(1):1-0. Journal of clinical epidemiology. 2017 Aug 1;88:67-80. Journal of clinical epidemiology. 2017 Aug 1;88:57-66.	
The policies for the disclosure of funding and conflict of interest in surgery journals: a cross-sectional survey	Dr. Elie Akl; Dr. Assem Khamis; Dr. Mohammad El Moheb	World Journal of Surgery. 2021 Jan;45(1):97-108.	2019
Financial relationships between patient and consumer representatives and the health industry: a systematic review	Dr. Elie Akl; Ms. Joanne Khabsa; Ms. Amena El-Harakeh; Dr. Assem Khamis	Health Expectations. 2020 Apr;23(2):483-95.	2019
Intersection of industry with the health-research enterprise (conflict of interest)	Dr. Elie Akl; Dr. Assem Khamis	Health research policy and	2019

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		systems. 2019 Dec;17(1):1-8.	
Implantable cardiac defibrillators for people with non-ischaemic cardiomyopathy	Dr. Marwan Refaat; Dr. Elie Akl; Dr. Assem Khamis	Cochrane Database of Systematic Reviews. 2018(12).	2018
Several reasons explained the variation in the results of 22 meta-analyses addressing the same question	Dr. Elie Akl; Dr. Assem Khamis	Journal of clinical epidemiology. 2019 Sep 1;113:147-58.	2018
Conflict of interest disclosure policies of journals	Dr. Elie Akl; Dr. Khaled Shawwa; Dr. Maram Hakoum; Dr. Assem Khamis; Dr. Karim Daou	Health research policy and systems. 2017 Dec;15(1):1-8. BMC public health. 2018 Dec;18(1):1-9. World Journal of Surgery. 2021 Jan;45(1):97-108.	2018
The reporting of funding and conflicts of interest in health publications	Dr. Elie Akl; Dr. Maram Hakoum; Ms. Lama Bou Karroum; Dr. Assem Khamis	BMJ open. 2020 Jul 1;10(7):e032425. International journal of health policy and management. 2018 Aug;7(8):711. Journal of clinical	2018

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		epidemiology. 2017 Jul 1;87:78-86. BMJ open. 2016 Aug 1;6(8):e011997.	
Authorship in reports of clinical practice guidelines: a systematic cross-sectional analysis	Dr. Elie Akl; Dr. Mohamed Nomier	International Journal of Clinical Practice. 2018 Jul;72(7):e13083.	2017
Physician and pharmaceutical industry interaction	Ms. Racha Fadlallah; Dr. Hneine Brax; Dr. Lara Kahale	PloS one. 2017 Apr 13;12(4):e0175493. PloS one. 2016 Aug 24;11(8):e0160540. BMC health services research. 2016 Dec;16(1):1-1. BMJ open. 2014 Jul 1;4(7):e004880. The European Journal of Public Health. 2018 Apr 1;28(2):224-30.	2017

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		BMC Research Notes. 2015 Dec;8(1):1-8.	
Safe injections	Dr. Alain Harb; Ms. Batoul Diab; Dr. Rami Ballout; Dr. Ramy Tarabay; Ms. Rola El Rassi	BMC health services research. 2016 Dec;16(1):1-8. Health and quality of life outcomes. 2016 Dec;14(1):1-0. BMC nursing. 2015 Dec;14(1):1-3.	2016
Vitamin D and asthma in children	Dr. Lina Alkhaled	BMC research notes. 2015 Dec;8(1):1-0. Allergy, Asthma & Clinical Immunology. 2014 Dec;10(1):1-9.	2015

Oral and Poster Presentations			
Title	**Location**	**Speaker**	**Date**
Defining misinformation and related terms: a scoping review of the health-related literature	30th Cochrane Colloquium, London, United Kingdom	Ms. Reem Hoteit	Sep 2023
Conflicts of interest and funding in social media health communications: a systematic review	Society for Epidemiological Research Annual Conference, Portland, Oregon	Dr. Vanessa Helou	Jun 2023

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Conflict of interest in the peer review process: a survey of peer review reports	Society for Epidemiological Research Annual Conference, Chicago, Illinois	Dr. Adham Makarem	Jun 2022
Conflict of interest policies in practice guideline development: a systematic survey of published guidance	Accepted at the 27th Cochrane Colloquium, Toronto, Canada (conference cancelled)	Ms. Joanne Khabsa	Oct 2020
Financial relationships between patient and consumer representatives and the health industry: a systematic review	Accepted at the 26th Cochrane Colloquium, Santiago, Chile	Ms. Joanne Khabsa	Oct 2019
Identifying and dealing with participants with missing outcome data in trials: framework for systematic review authors	11th International Epidemiological Association Eastern Mediterranean Regional Scientific Meeting, Beirut, Lebanon	Dr. Lara Kahale	Feb 2019
The reporting of funding in health policy and systems research: a cross-sectional study	Fifth Global Symposium on Health Systems Research: Advancing Health Systems for All in the SDG Era, Liverpool, England	Ms. Lama Bou Karroum	Oct 2018
Authorship in reports of clinical practice guidelines: a systematic cross-sectional analysis	25th Cochrane Colloquium, Edinburgh, Scotland	Dr. Assem Khamis	Sep 2018
Investigating the variations in 22 meta-analyses addressing the same question: a case study	25th Cochrane Colloquium, Edinburgh, Scotland	Dr. Assem Khamis	Sep 2018
The reporting of funding in health policy and systems research: a cross-sectional study	25th Cochrane Colloquium, Edinburgh, Scotland	Dr. Assem Khamis	Sep 2018

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Verification of conflict of interest disclosures in health research: a conceptual analysis	25th Cochrane Colloquium, Edinburgh, Scotland	Dr. Assem Khamis	Sep 2018
Perioperative anticoagulation in patients with cancer	FRRP open house, AUBMC, Lebanon	Dr. Charbel Matar	May 2018
Verification of the accuracy and completeness of disclosures of conflict of interest in the medical literature: a systematic survey	FRRP open house, AUBMC, Lebanon	Dr. Hiba El Reiss	May 2018
Effects of aspirin on mortality and re-bleeding in patients with non-variceal upper gastrointestinal bleeding: a systematic review and meta-analysis	8th Annual AUB Biomedical Research Day	Dr. Rony Aoun	Mar 2017
Do intellectual relationships create conflicts of interest?	Global Evidence Summit, Cape Town, South Africa	Dr. Maram Hakoum	Sep 2017
Identifying and dealing with participants with missing outcome data in trials: framework for systematic review authors	Global Evidence Summit, Cape Town, South Africa	Dr. Lara Kahale	Sep 2017
Verification of the accuracy and completeness of disclosures of conflict of interest in the medical literature: a systematic survey	Global Evidence Summit, Cape Town, South Africa	Dr. Maram Hakoum	Sep 2017
Characteristics of funding of clinical trials: a methodological survey and a proposed guidance	7th Annual AUB Biomedical Research Day	Dr. Maram Hakoum	Feb 2017
Individual and institutional financial conflicts of interest reported by authors of randomized	7th Annual AUB Biomedical Research Day	Dr. Hussein Noureddine	Feb 2017

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controlled trials: a systematic survey			
Reporting of financial and non-financial conflicts of interest by authors of 200 randomized controlled trials: a methodological survey	7th Annual AUB Biomedical Research Day	Ms. Nahla Jouni	Feb 2017
Reporting of financial and non-financial conflicts of interest in systematic reviews on Health Policy and Systems Research: a methodological survey	7th Annual AUB Biomedical Research Day	Ms. Lama Bou Karroum	Feb 2017
Requirements of health policy and services journals for authors to disclose financial and non-financial conflicts of interest: a cross-sectional study	7th Annual AUB Biomedical Research Day	Dr. Assem Khamis	Feb 2017
Categorizing conflicts of interest in healthcare research: a proposed framework	24th Cochrane Colloquium; Seoul, South Korea	Dr. Elie Akl	Sep2016
Individual and institutional financial conflicts of interest reported by authors of randomized controlled trials: a systematic survey	24th Cochrane Colloquium; Seoul, South Korea	Dr. Maram Hakoum	Sep 2016
Analysis of participants with potential missing outcome data in 653 trials: a methodological survey	24th Cochrane Colloquium, Seoul, South Korea	Dr. Lara Kahale	Oct 2016
Characteristics of the reporting of funding by trial authors: a	24th Cochrane Colloquium; Seoul, South Korea	Dr. Maram Hakoum	Oct 2016

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systematic survey of 200 randomized controlled trials (Conflict of interest)			
Impact of missing outcome data for trial participants included in 100 meta-analyses: an imputation study	24th Cochrane Colloquium, Seoul, South Korea	Dr. Lara Kahale	Oct 2016
Reporting of financial and non-financial conflicts of interest by authors of 200 Cochrane and non-Cochrane systematic reviews: a methodological survey	24th Cochrane Colloquium; Seoul, South Korea	Dr. Maram Hakoum	Oct 2016
Reporting of financial and non-financial conflicts of interest by authors of 200 randomized controlled trials: a methodological survey	24th Cochrane Colloquium; Seoul, South Korea	Dr. Maram Hakoum	Oct 2016
Reporting of financial and non-financial conflicts of interest by authors of health policy and systems systematic reviews: a methodological survey	24th Cochrane Colloquium; Seoul, South Korea	Dr. Maram Hakoum	Oct 2016
Reporting of conflicts of interest by authors of systematic reviews: a methodological survey	6th Annual AUB Biomedical Research Day	Dr. Maram Hakoum	Feb 2016
Extent and handling of missing dichotomous outcome data for participants in 672 trials included in 100 Cochrane and non–Cochrane systematic reviews	23rd Cochrane Colloquium, Vienna, Austria	Dr. Lara Kahale	Oct 2015
Extent and handling of missing dichotomous outcome data in 100	23rd Cochrane Colloquium, Vienna, Austria	Dr. Lara Kahale	Oct 2015

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Cochrane and non–Cochrane systematic reviews			
Handling missing participant data for dichotomous outcomes in randomized controlled trials: systematic survey of the methods literature	23rd Cochrane Colloquium, Vienna, Austria	Dr. Andrea Darzi	Oct 2015
Reported versus actual analytical methods to handle missing participant data in meta-analysis: a survey of 100 systematic reviews	23rd Cochrane Colloquium, Vienna, Austria	Dr. Lara Kahale	Oct 2015
Parenteral anticoagulation in patients with cancer: a systematic review and meta–analysis	5th Annual AUB Biomedical Research Day, American University of Beirut, Beirut, Lebanon	Dr. Lara Kahale	Feb 2015
Extent of missing outcome data for participants in trials included in five Cochrane systematic reviews: a descriptive analysis	22nd Cochrane Colloquium, Hyderabad, India	Dr. Elie Ramly; Dr. Lara Kahale	Sep 2014
Handling trial participants with missing dichotomous outcome data when conducting a meta–analysis: a methodological survey of proposed approaches	22nd Cochrane Colloquium, Hyderabad, India	Dr. Lara Kahale	Sep 2014
Impact of missing outcome data for participants in trials included in five Cochrane systematic reviews: an imputation study	22nd Cochrane Colloquium, Hyderabad, India	Dr. Lara Kahale	Sep 2014

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Reporting missing outcome data for participants in randomized trials: a methodological survey of proposed approaches	22nd Cochrane Colloquium, Hyderabad, India	Dr. Khaled Shawwa; Dr. Lara Kahale	Sep 2014
Anticoagulation for patients with cancer and central venous catheters: a systematic review and meta–analysis	4th Annual AUB Biomedical Research Day, American University of Beirut, Beirut, Lebanon	Dr. Elie Ramly; Dr. Lara Kahale	Feb 2014
Identifying participants with missing data in trials included in systematic reviews: challenges and potential solutions	4th Annual AUB Biomedical Research Day, American University of Beirut, Beirut, Lebanon	Dr. Elie Ramly; Dr. Lara Kahale	Feb 2014
Interventions targeting physicians' interaction with pharmaceutical companies: a systematic review	4th Annual AUB Biomedical Research Day, American University of Beirut, Beirut, Lebanon	Dr. Lara Kahale; Dr. Lina Alkhaled	Feb 2014

Workshops			
Title	**Location**	**Speaker (s)**	**Date**
Designing Search Strategies for Systematic Reviews	AUB, Beirut, Lebanon	Dr. Ola El Zein	Dec 2025
How to Conduct Systematic Reviews	King Hussein Cancer Center (KHCC), Amman, Jordan	Dr. Marlene Chakhtoura; Dr. Ola El Zein; Ms. Joanne Khabsa	Oct 2025
How to Conduct Systematic Reviews	AUB, Beirut, Lebanon	Dr. Marlene Chakhtoura; Dr. Ola El Zein; Ms. Joanne Khabsa	Oct 2025

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How to Conduct Systematic Reviews	AUB, Beirut, Lebanon	Dr. Elie Akl; Dr. Ola El Zein; Ms. Joanne Khabsa	Nov 2024
Designing Search Strategies for Systematic Reviews	AUB, Beirut, Lebanon	Dr. Ola El Zein	Nov 2024
A primer on Network Meta-Analysis	AUB, Beirut, Lebanon	Dr. Dimitris Mavridis	Feb 2024
How to conduct systematic reviews	AUB, Beirut, Lebanon	Dr. Elie Akl; Ms. Reem Hoteit	Nov 2023
Publishing Your Research	AUB, Beirut, Lebanon	Dr. Elie Akl; Ms. Reem Hoteit	Apr 2023
How to conduct systematic reviews	AUB, Beirut, Lebanon	Dr. Elie Akl; Ms. Reem Hoteit	Mar 2023
Publishing your research	AUB, Beirut, Lebanon	Dr. Elie Akl; Ms. Joanne Khabsa	Mar 2022
How to conduct systematic reviews	AUB, Beirut, Lebanon	Dr. Elie Akl; Dr. Lara Kahale; Ms. Joanne Khabsa	Nov 2021
Publishing your research	AUB, Beirut, Lebanon	Dr. Elie Akl; Dr. Abir Ward	May 2021
How to conduct systematic reviews	AUB, Beirut, Lebanon	Dr. Elie Akl; Dr. Lara Kahale; Ms. Joanne Khabsa	Dec 2020
How to conduct systematic reviews	AUB, Beirut, Lebanon	Dr. Elie Akl; Dr. Lara Kahale; Ms. Joanne Khabsa	Mar 2020

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How to conduct systematic reviews	AUB, Beirut, Lebanon	Dr. Elie Akl; Dr. Lara Kahale; Ms. Joanne Khabsa; Ms. Amena El-Harakeh; Ms. Zahra Saad; Dr. Tamara Lotfi	Sep 2019
A primer on Network Meta-Analysis	AUB, Beirut, Lebanon	Dr. Dimitris Mavridis	Feb 2019
How to conduct systematic reviews	AUB, Beirut, Lebanon	Dr. Elie Akl; Ms. Lama Bou Karroum; Ms. Amena El Harakeh; Ms. Lara Kahale; Dr Assem Khamis; Dr Tamara Lotfi	Oct 2018
How to conduct systematic reviews	AUB, Beirut, Lebanon	Dr. Elie Akl; Dr. Lara Kahale; Dr. Assem Khamis; Ms. Racha Fadlallah; Ms. Rana Charide; Dr. Tamara Lotfi	Sep 2017
Addressing missing participant data in systematic reviews: part i – dichotomous outcomes	24th Cochrane Colloquium, Seoul, South Korea	Dr. Elie Akl; Ms. Lara Kahale	Oct 2016
How to conduct systematic reviews	American University of Beirut, Beirut, Lebanon	Dr. Elie Akl; Dr. Lara Kahale; Dr. Assem Khamis; Dr. Andrea Darzi; Ms. Lama Bou Karroum; Dr. Maram Hakoum; Ms. Racha Fadlallah; Dr. Tamara Lotfi	Sep 2016

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How to conduct systematic reviews	American University of Beirut, Beirut, Lebanon	Dr. Elie Akl; Dr. Lara Kahale; Dr. Andrea Darzi; Ms. Lama Bou Karroum; Dr. Tamara Lotfi	Mar 2016
Introduction to network meta-analysis	AUB, Beirut, Lebanon	Dr. Dimitris Mavridis	May 2015
Identifying participants with missing outcome data in trials included in systematic reviews: challenges and suggested solutions	23rd Cochrane Colloquium, Vienna, Austria	Dr. Elie Akl; Ms. Lara Kahale	Oct 2015
How to conduct systematic reviews	American University of Beirut, Beirut, Lebanon	Dr. Elie Akl; Dr. Andrea Darzi; Ms. Lama Bou Karroum; Dr. Lara Kahale; Ms. Racha Fadlallah; Dr. Tamara Lotfi	May 2015
Addressing missing participant data in systematic reviews: part I – dichotomous outcomes	22nd Cochrane Colloquium, Hyderabad, India	Dr. Elie Akl; Ms. Lara Kahale	Sep 2014

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International Meetings and Conferences		
Title	**Location**	**Date**
The First **D**igitial **E**vidence **S**ynthesis **T**ools (DEST) hackathon	Potsdam, Germany	July 2025
The 10th International Collaboration for the Automation of Systematic Reviews (ICASR) Workshop	Potsdam, Germany	July 2025
The 9th International Collaboration for the Automation of Systematic Reviews (ICASR) Workshop	Prague, Czech Republic	Sep 2024
2nd Global Evidence Summit (GES)	Prague, Czech Republic	Sep 2024
Forward together for trusted evidence, 30th Cochrane colloquium	London, United Kingdom	Sep 2023
Embracing diversity, 26th Cochrane colloquium	Santiago, Chile	Oct 2019
Cochrane for all - better evidence for better health decisions, 25th Cochrane colloquium	Edinburgh, Scotland	Sep 2018
Global evidence summit - using evidence. improving lives, 25th Cochrane colloquium	Cape Town, South Africa	Sep 2017
Guidance for addressing missing data in systematic review and trials	McMaster University, Hamilton, Canada	Jan 2017
Challenges to evidence-based health care and Cochrane, 24th Cochrane colloquium	Seoul, South Korea	Oct 2016
Filtering the information overload for better decisions, 23rd Cochrane colloquium	Vienna, Austria	Oct 2015
Evidence–informed public health: opportunities and challenges, 22nd Cochrane colloquium	Hyderabad, India	Sep 2014