



SCIENTIFIC RESEARCH AND SDG COMPASS

KEEP A FOCUS ON
THE INTEGRATED PERSPECTIVES

15th of February 2024



BATTERJEE MEDICAL COLLEGE



MEDICAL EDUCATION AND LIFESTYLE!



SHEIKH ABDULJALIL AUDITORIUM

SCIENTIFIC FORUM PROGRAM

Time		
9:00 to 9:30		Registration
9:40 to 9:50	Vice Dean of Students Affairs & Research Director Dr. Ikhlas Sindi	Opening Remarks

SESSION 1: HALL 1 SHEIKH A.JALIL AUDITORIUM

CHAIRMEN

- PROF. SADDIG D. JASTANIAH
- DR. BASEM MOHAMMED ABUZENADA

Time	Speaker	Title	Theme
9:40 - 10:00	Dr. Kathy Sienko O.B.E Executive Director For Nursing Affairs, King Faisal Specialist Hospital and Research Centre, Jeddah Saudi Arabia	SHOWING UP WITH A FULL CUP	Health and Wellbeing
10:00-10:20	Dr. Khaled Edrees Consultant Podiatric Foot & Ankle Surgeon, President Edrees Medical Group	Prevention & Management of DIABETICS FEET in Hajj	Health and Wellbeing
10:20-10:40	Dr. Saleh Ahmed Saleh Faculty of Medicine, Umm Al-Qura University, Macca, Saudi Arabia	Assessing the Role of Universities in Advancing Sustainable Development Goals: A Perspective on Arab Institutions	Sustainable Development Goals
10:45 – 11:05 (8:45- 9:05 Italy Time)	Prof. Dr. Elisa Ovidi Department for Innovation in Biological, Agro-food and Forest systems DIBAF - University of Tuscia, Italy <i>(Online Talk)</i>	The use of agricultural waste and by-products of artichoke cultivation as a source of molecules with biological activity	Responsible Consumption and Production
11:10 – 11:30 (9:10- 9:30 Italy Time)	Prof. Stefano Orlando University of Rome Tor Vergata, Roma, Italy <i>(Online Talk)</i>	Bridging the Gender Gap in Health Care: The Role of Male Involvement in HIV + Women's Treatment Programs and Gender-Equitable Practices in Public Health	Gender Equality
11:30 – 11:50	Dr. Yousef Hawsawi College of Medicine, Al-Faisal University, King Faisal Specialist Hospital and Research Centre, Jeddah, Saudi Arabia	The role of Genetic Sequencing in Saving Humanity and planet	Sustainable Environment
11:50 – 12:10	Dr. Mahmoud Elfaky Faculty of Pharmacy, King Abdulaziz University, Jeddah, Saudi Arabia	Combating Communicable Diseases: Strategies for Achieving SDG 3	Health and Wellbeing
12:10 – 12:30	Dr. Bayan Hussein Sajer Biology Department, Faculty of Science, King Abdulaziz University, Jeddah, Saudi Arabia	Exploring the Therapeutic Potential of Microbial Isolates from the Western Region of the Kingdom of Saudi Arabia	Health and Wellbeing
12:30 - 13:15	Poster Session and Break		

SESSION 2 : HALL 1 SHEIKH A.JALIL AUDITORIUM

CHAIRMEN

- DR. AHMED ALTYAR
- DR. HASSAN SARSAK

Time	Speaker	Title	Theme
13:15 – 13:35	Dr. Badr Abdulrauf MD. FRCSC. Department of Surgery, King Faisal Specialist Hospital and Research Centre, Jeddah, Saudi Arabia	Beauty: what truly matters	Health and Wellbeing
13:35 – 13:55	Dr. Nicola Cogan School of Psychological Sciences and Health, University of Strathclyde, Glasgow, UK	Trauma management with first responders and healthcare workers: Developing an evidence based and co-created digital intervention	Health and Wellbeing
14:00 – 14:20 (12:00-12:20 Italy Time)	Dr. Valentina Laghezza Masci Department for Innovation in Biological, Agro-food and Forest systems DIBAF - University of Tuscia, Italy <i>(Online Talk)</i>	Antiproliferative and apoptosis effects of hydroxytyrosol and its lipophilic derivatives On SH-SY5Y human neuroblastoma cells	Health and Wellbeing
14:20 – 14:40	Dr. Heba Adly Faculty of Medicine, Umm Al-Qura University, Mecca, Saudi Arabia	The Health Impact of Climate Change: An In- Depth Analysis from Saudi Arabia	Climate Change and Health
14:40 – 15:00	Prof. Faten Khorshid Department of Biology, Faculty of Science, King Abdulaziz University, Jeddah, Saudi Arabia	A case-report highlighting effects of PMF and Camel Milk on a Multiple Sclerosis patient	Health and Wellbeing
15:00 – 15:20 (14:00- 14:20 South Africa Time)	Dr. Janine Hicks School of Law, University of KwaZulu-Natal, Pietermaritzburg, South Africa	Persistent barriers to attaining gender equality and eliminating discrimination: A South African perspective	Gender Equality
15:20 – 15:40	Dr. Samia Faisal Aboushousah Department of Physics, Faculty of Science, King Abdulaziz University, Jeddah, Saudi Arabia	Biodistribution and Toxicity Assessment of Curcumin-coated Iron Oxide Nanoparticles: A Promising Theragnostic Agent	Health and Wellbeing
15:40 – 16:00	Dr. Khalid Eljaaly Faculty of Pharmacy, King Abdulaziz University, Jeddah, Saudi Arabia	Getting Started: Systematic Reviews and Meta- Analysis	Health and Wellbeing
16:00– 16:30	Closing, Ceremony and Awards		



SESSION 1 : HALL 2 MS SEMINAR HALL- 1, GROUND FLOOR, MALE AREA

CHAIRMEN

- PROF. MOHAMED ASHOOR
- DR. MOHAMED ALSHEIKH

Time	Speaker	Title	Theme
9:40 – 10:00 (12:10-12:30 India Time)	Dr. Ishan Tiwari Amity University Noida, Uttar Pradesh, India (Online Talk)	Sustaining Our World: Navigating the Path to a Thriving Sustainable Environment	Sustainable Environment
10:05– 10:25 (12:35-12:55 India Time)	Dr. Owais Yousuf Department of Food Technology Islamic University of Science & Technology, JK, India (Online Talk)	Sustainable Nonfarm Approaches to Achieve Zero Hunger	Zero Hunger
10:25-10:45	Prof. Dr. Mahmoud El Homossany Dentistry Program, Batterjee Medical College, Jeddah, Saudi Arabia	Finite element analysis is a powerful tool for achieving sustainability goals	Health and Wellbeing
10:45 – 11:05	Dr. Abdurhaem Alwaf Faculty of Dentistry, King Abdulaziz University, Jeddah, Saudi Arabia	Overview of systematic reviews and meta- analyses assessing the predictability and clinical effectiveness of clear aligner therapy	Health and Wellbeing
11:05 - 11:25	Dr. Fawaz Pullishery Dentistry Program, Batterjee Medical College, Jeddah, Saudi Arabia	Effectiveness of i-PRF in periodontal regeneration – A systematic review and meta- analysis	Health and Wellbeing
11:25 – 11:45	Dr. Nouf Fahad Alshreif Preparatory Year Program, Batterjee Medical College	Exploring the Learning Experiences of Saudi Board Orthopedic Surgery Residents	Quality of Education
11:50– 12:10 (10:55- 11:15 Sudan Time)	Dr. Abdulrahim Altoam Alzain Head of the Department of Pharmaceutical Chemistry, University of Gezira, Sudan (Online Talk)	Application of Computational techniques for green and sustainable drug discovery and development	Sustainable Environment
12:10– 12:30	Dr. Ahmed Saaduddin Sapri Dentistry Program, Batterjee Medical College, Jeddah, Saudi Arabia	Immediate Implant Placement In The Mandibular Posterior Region Combined With Ridge Preservation And Socket Sealing With Custom Healing Abutments And Delayed Loading Protocol. A Radiographic Evaluation Of Vertical And Horizontal Alveolar Bone Changes	Health and Wellbeing
12:30- 13:15	Poster Session and Break		

SESSION 2 : HALL 2 MS SEMINAR HALL- 1, GROUND FLOOR, MALE AREA

CHAIRMEN

- PROF. MOHAMED ABDELDAIM
- DR. ADEL ALGHAMDI

Time	Speaker	Title	Theme
13:15 – 13:35	Dr. Harshkant Gharote Dentistry Program, Batterjee Medical College, Jeddah, Saudi Arabia	Oral Health and wellbeing	Health and Wellbeing
13:35– 13:55	Dr. Shaimaa Mohamed Hassan Histology & cell biology, Aseer Battergie Medical college, Saudi Arabia	Regenerative Medicine	Health and Wellbeing
14:00 – 14:20	Dr. Amera Bekhatroh Rashed College of Applied Medical sciences, Jouf University (Online Talk)	How Does Climate Change Affect Human, Maternal, Fetal and Neonatal Health	Climate Change and Health
14:20 – 14:40	Dr. Osama El-Gendy Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia	On Cubic Intuitionistic Fuzzy a-ideal of BP-algebra	Quality of Education
14:40- 15:00	Ms. Rowaida Qoutah Respiratory Therapy Program, Batterjee Medical College, Jeddah, Saudi Arabia	Long-term cardiopulmonary status and quality of life among smokers, vapers and dual users	Health and Wellbeing
15:00 – 15:20	Dr. Baderaldeen Altazi Consultant, Radiation Oncology Physicist, King Abdullah Medical City at the Holy Capital (KAMC) - Jeddah/Makkah, Saudi Arabia	Radiomic Analysis of 18F-FDG PET in Predicting Cervical Cancer Outcomes	Health and Wellbeing
15:20 – 15:40	Ms. Nouf Alharbi Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia	A Postcolonial Ecocritical Reading of Zakes Mda's The Whale Caller and Helon Habila's Oil on Water	Sustainable Environment
15:40– 16:00	Ms. Balsam Alghamdi Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia	The Expression of Empathy: a Gender Based Study	Gender Equality



SESSION 3 : MS SEMINAR HALL- 3, GROUND FLOOR, MALE AREA

CHAIRMEN

- PROF. MUHAMMAD AFZAL SARWAR
- DR. HADER SAKR

Time	Speaker	Title	Theme
9:40–9:55	Ms. Houriah Nukaly Medicine Program, Batterjee Medical College	First Case Report of Pericardial Effusion Post- Dengue Infection Masking Septic Shoulder Arthritis	Health and Wellbeing
9:55 –10:10	Ms. Mahinar Alhartani Medicine Program, Batterjee Medical College, KSA	Body Mass Index Among Medical Students and Its Correlation with Their Academic Year and Lifestyle	Health and Wellbeing
10:10– 10:25	Ms. Saleha Shafi Ahmed Khan Medicine Program, Batterjee Medical College	Ischemic cholecystitis masquerading as a metastatic disease secondary to transcatheter arterial chemoembolization: A case report	
10:25-10:40	Ms. Husna Irfan Medicine Program, Batterjee Medical College	Unveiling the Impact of Fast fashion industries: Economic growth or exploitation?	Sustainable Environment
10:40– 10:55	Ms. Khaloud Sameer Al-Fallatah Medicine Program, Batterjee Medical College	Assessing the Alignment: Saudi Arabia's Healthcare Transformation Program and its Contributions to Vision 2030 Sustainable Development Goals : A Literature Review	Health and Wellbeing
10:55- 11:10	Ms. Sariya Khan Medicine Program, Batterjee Medical College	Assessing the relation between improper disposal of medicines and its impact on the environment: A Literature Review	Sustainable Environment
11:10– 11:25	Ms. Ruqayyah Ahmed Medicine Program, Batterjee Medical College	Comparing Clinical Outcomes of Patients Who Underwent Robotic Assisted Da Vinci Surgical Intervention And Conventional Cardiac Surgery at a Tertiary Care Hospital: First Study in Saudi Arabia	Health and Wellbeing
11:25– 11:40	Ms. Shyma Haidar Medicine Program, Batterjee Medical College	Is Neom City the future of affordable and clean energy sources: A review on the step towards sustainability	Affordable and Clean Energy
11:40 – 11:55	Ms. Ayesha Jamal Medicine Program, Batterjee Medical College	“End of the world?” Assessing Generation Z's perspective on life and how it can be improved	Sustainable Environment
11:55- 13:15	Poster Session and Break		



BATTERJEE MEDICAL COLLEGE

SCIENTIFIC RESEARCH

FORUM 2024

SCIENTIFIC RESEARCH AND SDG COMPASS: KEEP A FOCUS ON THE INTEGRATED PERSPECTIVES

Sustainable Development is a demand that all nations are working to achieve. Sustainability requires a universal collaboration that includes all community parts and all actors on equal terms, leaving no one behind. This must be driven by research-based knowledge as well as other aspects engaged in ensuring social foundations for humankind. Educational institutes play a crucial role in achieving these goals through cooperation and partnership, both nationally and globally. The Forum will provide a forum for the presentation of research findings, sharing of ideas, and discussion of professional issues relevant to Sustainability. It is an interdisciplinary forum for researchers from any professional disciplines who share an interest in and concern for sustainability in a holistic perspective, where health, social, and environmental concerns are intersecting.

VISION

Focusing on the SDGs integrated perspectives that assist in sustainable world future for improving human wellbeing and life quality.

MISSION

To enhance sustainability in organizational and work settings by promoting the research and practice of the sustainable development goals.

GOALS

- Work together with community members, administrators, and leaders of organizations to comprehend and address pertinent real-world issues and to apply scientific knowledge to advance both individual and organizational success.
- Create a diverse and welcoming conference that makes the most of innovation, procedure, and people to maximize its impact.
- Use and improve our capacity to bring together, energies, and align all people interested in comprehending and addressing environmental suitability and health sustainability challenges in ways that motivate action.
- Establish a framework that will provide future talents to promote and enhance both research and practice.



DEAR ATTENDEES,

We are delighted to welcome you to BMC Scientific Research Forum 2024.

SCIENTIFIC RESEARCH AND SDG COMPASS: KEEP A FOCUS ON THE INTEGRATED PERSPECTIVES

The forum is inspired by the critical challenges of achieving sustainability concerning the present and future generations. The forum will provide a forum for the presentation of research findings, sharing of ideas, and discussion of professional issues relevant to Sustainability. It is an interdisciplinary forum for researchers from any professional disciplines who share an interest in and concern for sustainability in a holistic perspective, where health, social, and environmental concerns are intersecting.

AGENDA THEMES

It is an opportunity to report and discuss a range of streams linked to the SDGs:

- Health and wellbeing.
- Gender Equality.
- Reduced Inequalities.
- Sustainable environment.
- Climate Change and health.
- Affordable and Clean Energy.
- Clean Water and Sanitation.
- Sustainable Cities and Communities.
- Responsible Consumption and Production
- Climate change planning and solutions.
- Life Below Water.
- Life on Land.
- Zero hunger.

This Conference Program Includes:

- Keynote presentations
- Posters Exhibition

Finally, we hope that BMC Scientific Research Forum 2024 would be a successful, meaningful and informative event in all aspects.



BATTERJEE MEDICAL COLLEGE



Prof. Mohammed
Taher Tayeb
BMC Dean

It is a great pleasure to extend a warm welcome to everyone participating in the BMC Scientific Research Forum 2024 Scientific Research and SDG Compass: Keep a Focus on the INTEGRATED Perspectives. Knowledge only gains value when it is disseminated and applied to benefit humankind. We believe that research and innovation are substantial elements for achieving its role in the transformation of the Kingdom's knowledge economy in alignment with Saudi Vision 2030. The BMC Research strategic plan has been established in alignment with the college strategic plan, Kingdom Vision, and Sustainable Development Goals.

The aim of BMC Scientific Forum 2024 is to provide a platform for the presentation of research findings, the sharing of ideas, and the discussion of professional issues relevant to achieving Sustainable Development Goals. It is anticipated that future partnerships between academic institutions and research centers will arise from this intellectual dialogue on a national and international scale that enhances our understanding of challenges and issues about sustainable development. Finally, I hope that this forum will be a successful, meaningful, and informative event in all aspects.



FORUM SCIENTIFIC COMMITTEE

FORUM SCIENTIFIC COMMITTEE



PROF. SABRIN ABDULAZIZ SINDI

Professor of Natural Products Chemistry,
Deputy of Ethical Committee,
Preparatory Year Program,
Batterjee Medical College,
Jeddah, Saudi Arabia

PROFESSIONAL SUMMARY

Specializing in natural products chemistry and biochemistry, she completed her Ph. D. degree in Marine Natural Products Chemistry and Biology

in 2005 at Pharmazeutische Biologie Institute der Universität Heinrich-Heine, Düsseldorf, Germany.

Her research focuses on isolation and structural elucidation of biologically active metabolites from marine organisms and fungi as well as phytochemical characterization and pharmacological evaluation of the traditionally used medicinal plants. She is one of the highly cited scientists according to databases of standardized citation metrics across all scientists and scientific disciplines and AD=Scientific Index; World Scientist and University Natural Sciences Rankings. She has published 250 peer-reviewed papers most of them are in high impacted peer-reviewed Journals. She has two USA authorized patents. And she has served as co-investigators for more than 30 projects which are supported by several funding resources. She is a member in the editorial boards of more

than 30 International Scientific Journals. She got a special teaching award in the Field of Pharmaceutical Sciences, Assiut University in 2009. She got 13 awards of excellence in the field of Scientific Publishing and Best Citation from King Abdulaziz University, KSA. <https://www.researchgate.net/profile/Sabrin-Ibrahim-2>

Contact: sabrin.ibrahim@bmc.edu.sa

FORUM SCIENTIFIC COMMITTEE



Chair of the BMC
Scientific Research Forum 2024

DR. IKHLAS ABDULAZIZ SINDI

Vice Dean of Student Affairs,
Research Unit Director,
Batterjee Medical College,
Jeddah, Saudi Arabia

PROFESSIONAL SUMMARY

Dr. Ikhlas Sindi has a PhD in neuroscience and genetics from the school of medicine at the University of Queensland, Australia. She is Associate Professor at King Abdulaziz University, the Department of Biotechnology. She is the the Vice Dean of student afferies at Batterjee Medical College, Jeddah, Saudi Arabia.

Dr. Ikhlas has many publications in highly reputed journals. Dr. Ikhlas's Research Interests are in Neurodegenetics especially in Alzahmir disease, autism and other nerogetical disorder.

Contact: ikhlas.sindi@bmc.edu.sa



FORUM ORGANIZING COMMITTEE

**FORUM ORGANIZING
COMMITTEE**



Dr. **IKHLAS** ABDULAZIZ SINDI

Vice Dean of Student Affairs, Research Unit Director,
Batterjee Medical College,
Jeddah, Saudi Arabia

**FORUM ORGANIZING
COMMITTEE**



Prof. **SABRIN** R.M. Ibrahim

Professor of Natural Products Chemistry, Deputy of Ethical Committee,
Preparatory Year Program, Batterjee Medical College,
Jeddah, Saudi Arabia

**FORUM ORGANIZING
COMMITTEE**



Dr. **HANAN** Hassan

Assistant Professor of Biology, Preparatory Year Program,
Batterjee Medical College,
Jeddah, Saudi Arabia

**FORUM ORGANIZING
COMMITTEE**



Dr. **MAI** Albaik

Assistant Professor of Biochemistry, Preparatory Year Program,
Batterjee Medical College,
Jeddah, Saudi Arabia

**FORUM ORGANIZING
COMMITTEE**



Ms. **Basma** Hassan A Hashem

Research Unit Coordinator,
Batterjee Medical College,
Jeddah, Saudi Arabia



INTRODUCTORY NOTES AND
**CHAIR OF SCIENTIFIC
SESSIONS**



SHEIKH ABDULJALIL HALL -1



First session Chairmen

Prof. **SADDIG D. Jastaniah**

Professor of Radiologic Sciences, Chairman of Research Committee, Vice Dean of Hospital Affairs, Head of Radiologic Sciences Program, Batterjee Medical College, Jeddah, Saudi Arabia



First session Chairmen

Dr. **BASEM** Mohammed Abuzenada

Associate professor, Director of Academic Affairs, Batterjee Medical College, Jeddah, Saudi Arabia; Consultant Restorative and Esthetic Dentistry, Samaya Dental Clinics, Jeddah, Saudi Arabia



Second session Chairmen

Dr. **AHMED** Altyar

Chief Business Development Officer, Associate Professor of Pharmacy Practice Consultant - Pharmaceutical Administration & Clinical Outcomes, Batterjee Medical Colleges



Second session Chairmen

Dr. **HASSAN** Sarsak

Associate Professor, Head of Occupational Therapy Program, Batterjee Medical College, Jeddah, Saudi Arabia



MALE SIDE, SEMINAR HALL 2

First session Chairmen



Prof. Dr. **MOHAMED** Ashour

Professor of Pharmaceutical Sciences, Pharmacy Program,
Batterjee Medical College,
Jeddah, Saudi Arabia

First session Chairmen



Dr. **MOHAMED** Alsheikh

Deputy Head & Clinical Years Supervisor, Consultant in Internal Medicine & Infectious
Diseases, General Medicine Practice Program,
Batterjee Medical College, Jeddah, Saudi Arabia

Second session Chairmen



Prof. Dr. **MOHAMED** Abdeldaim

Professor of Pharmacology, Department of Pharmacology, Pharmacy Program,
Batterjee Medical College,
Jeddah, Saudi Arabia

Second session Chairmen



Dr. **ADEL** Alghamdi

Head of Preparatory Year Program, Assistant Professor of Biochemistry and Molecular
Biology, Batterjee Medical College,
Jeddah, Saudi Arabia



MALE SIDE, SEMINAR HALL 3



First session
Chairmen

Prof. Dr. **MUHAMMAD** Afzal Sarwar

Professor of Pharmacology, Department of Pharmacology, Pharmacy Program,
Batterjee Medical College,
Jeddah, Saudi Arabia



First session
Chairmen

Dr. **HADER** Sakr

Associate Professor, Medical Physiology, General Medicine Practice Program,
Batterjee Medical College,
Jeddah, Saudi Arabia



POSTER EVALUATION COMMITTEE



**POSTER
EVALUATION COMMITTEE**

Dr. **NEHMAT** Ghaboura

Head of Pharmacy Program,
Batterjee Medical College,
Jeddah, Saudi Arabia



**POSTER
EVALUATION COMMITTEE**

Dr. **ALI** Osman Selim

Associated Professor, Head of Physical Therapy Program,
Batterjee Medical College,
Jeddah, Saudi Arabia



**POSTER
EVALUATION COMMITTEE**

Dr. **LUJAIN** Samarkandi

Assistant Professor, Head of Health Management Program
Batterjee Medical College,
Jeddah, Saudi Arabia



**POSTER
EVALUATION COMMITTEE**

Dr. **AMAL** Alsalamah

Assistant Professor of Ultrasonography, Head of Radiological Sciences Program,
Batterjee Medical College,
Jeddah, Saudi Arabia



**POSTER
EVALUATION COMMITTEE**

Dr. **WAFSA** Al-Johani

Assistant Professor of Medical Surgical Nursing, Head of Nursing Program, Batterjee
Medical College, Jeddah, Saudi Arabia



**POSTER
EVALUATION COMMITTEE**

Dr. AYEDH Alahmari

Assistant Professor, Head of Respiratory Program,
Batterjee Medical College,
Jeddah, Saudi Arabia



**POSTER
EVALUATION COMMITTEE**

Dr. DAREEN Aljehani

Assistant Professor, Head of Dentistry Program, Division of Orthodontics,
Batterjee Medical College,
Jeddah, Saudi Arabia



**POSTER
EVALUATION COMMITTEE**

Prof. Dr. OSAMA Abdel Raouf

Professor, Physical Therapy Program,
Batterjee Medical College,
Jeddah, Saudi Arabia





**POSTER
EVALUATION COMMITTEE**

Prof. Dr. **MOHAMED** Omer Yousef

Professor of Diagnostic Radiology Consultant
of Radiology and Nuclear Medicine
Batterjee Medical College, Jeddah, Saudi Arabia



**POSTER
EVALUATION COMMITTEE**

Dr. **HANADY** Elyas Osman

Assistant professor, Diagnostic Radiology, Radiologic Sciences Program,
Medicine Batterjee Medical College,
Jeddah, Saudi Arabia



**POSTER
EVALUATION COMMITTEE**

Dr. **EHAB** Abdelhalim

Professor, Head of Community Medicine Department,
General Medicine Practice Program,
Batterjee Medical College, Jeddah, Saudi Arabia



**POSTER
EVALUATION COMMITTEE**

Dr. **FATMA** Elsayed Ibrahim

Associate Professor of Medical Physiology, Head of Medical Physiology Department,
General Medicine Practice Program,
Batterjee Medical College, Jeddah, Saudi Arabia



**POSTER
EVALUATION COMMITTEE**

Dr. **MARWA** Ahmed Ibrahim Shahin

Associate professor in nursing program at
Batterjee Medical college
Jeddah, Saudi Arabia



**POSTER
EVALUATION COMMITTEE**

Dr. **NADEEM** Ikram

Associate professor in nursing program at
Batterjee Medical college
Jeddah, Saudi Arabia

A hand holding a black microphone, positioned in the foreground. The background is a blurred crowd of people, suggesting a large event or conference. The lighting is warm and focused on the hand and microphone.

BMC SCIENTIFIC RESEARCH FORUM 2024

SPEAKER

FIRST SESSION

SPEAKERS

KEYNOTE SPEAKER

BMC Scientific Research
Forum 2024

SPEAKER
Frist Session
Hall [1]



**Dr. Kathy-Ann
Sienko**

O.B.E (DProf.; MSc; BSc Hons; RN; FInstLM)

Executive Director For Nursing Affairs, King Faisal
Specialist Hospital and Research Centre, Jeddah
Saudi Arabia

Centre (GEN. ORG.)- Jeddah
Tel: +966 0557 376 845
Email: KSIENKO@kfshrc.edu.sa

PROFESSIONAL SUMMARY

Dr. Kathy Sienko, O.B.E., is a distinguished and accomplished healthcare professional with a rich history spanning over three decades. Her unwavering commitment to the field of Nursing has led her to make impactful contributions on three continents across nine different organizations, encompassing both public and private sectors. Throughout her dynamic career, Dr. Sienko has worn various hats, from a dedicated staff nurse to roles of increasing responsibility, such as head nurse, clinical nurse specialist, nurse consultant, and director. Her journey has also seen her in the capacity of an adjunct faculty member at esteemed institutions like City University London and New Buckinghamshire University. Beyond the realm of healthcare, Dr. Kathy has ventured into the corporate world, lending her leadership expertise to Oracle and British Telecom for nearly a decade. Her ability to seamlessly transition between clinical, operational, and strategic roles showcases her versatility and comprehensive understanding of the healthcare landscape. As a Smith & Nephew Research Scholar and a Department of Health Mary Seacole Leadership Scholar, Dr. Sienko's commitment to advancing healthcare knowledge is evident. Her remarkable achievements include being honored with the Order of the British Empire (O.B.E.) by HRH Queen Elizabeth in 2001 for her significant contributions to UK healthcare. Subsequently, in 2008, she was appointed as a public appointments ambassador for the UK Government Equalities Office. A lifelong learner, Dr. Kathy holds a BSc (Honors) in nursing from Kings College London, a Master's degree from the University of Southampton UK, and a doctorate from Middlesex University UK. Her credentials also include being a Fellow of the Institute of Leadership & Management and a Member of the Royal College of Nursing, the European Mentoring & Coaching Council and the International Coach Federation. Additionally, she is qualified to administer and interpret the Myers-Briggs Type Inventory (MBTI®). Currently serving as a member of the International Committee of the Royal College of Nursing, Dr. Kathy is at the forefront of shaping healthcare policies and practices. Her influence extends to thought leadership and conference speaking, where she addresses critical topics such as Advanced Practice Nursing, Patient Experience, Healthcare Leadership, and the optimization of Nursing and Midwifery contributions to national and global healthcare priorities. In summary, Dr. Kathy Sienko stands as a respected figure in the healthcare arena, embodying excellence, leadership, and an unwavering commitment to advancing the field for the betterment of patient care and global healthcare initiatives.

SHOWING UP WITH A FULL CUP

Global and national healthcare organizations, including the United Nations and the World Health Organization have laid out ambitious goals for global healthcare. To achieve this, a paradigm shift is required—one characterized by boldness, curiosity, creativity, unprecedented collaborations, and the integration of new technologies. Simultaneously, it demands a steadfast commitment to the fundamental values of caring and compassion. The landscape, however, is marked by formidable challenges such as global inequalities, geopolitical uncertainties, post-pandemic fatigue, a diminishing workforce, the complexities of global migration, and the clash of national interests. These challenges could potentially impede progress and hinder the achievement of these noble healthcare goals. Realizing these ambitious goals, necessitates active participation from all healthcare workers. community. It requires us to show up not only in body but in full vigor—healthy, whole, and with our cups filled. This metaphorical cup represents our well-being, resilience, and capacity to contribute meaningfully to the transformative journey ahead. In this session we will address healthcare worker well-being, why it matters and actions that each of us could take to show up with a full cup.

BMC Scientific Research
Forum 2024

SPEAKER
Frist Session
Hall [1]



Dr. KHALED
Edrees

Consultant Podiatric Foot & Ankle Surgeon

PROFESSIONAL SUMMARY

Dr. Edrees attended Barry University School of Podiatric Medicine, in Miami, Florida, USA, to obtain his Doctor of Podiatric Medicine degree in 1997. He is board certified by the American Board of Medical Specialties in Podiatry, in both Foot & Ankle Surgery and Prevention and Treatment of Diabetic Foot Wounds. Dr. Edrees is a member of the Scientific Committee of the National Diabetes Center, of the Saudi Health Council.”

Prevention & Management of DIABETICS FEET in Hajj

Two million people come to Makkah every year, especially from developing and Islamic countries, to perform Hajj. With diabetes mellitus being most prevalent in these countries, the Hajj has been named the biggest gathering of diabetics in the world. That is why the Ministry of Health and other non-governmental agencies have developed dedicated programs to service these pilgrims. The most devastating complication that develops for them is associated with their feet. The Hajj Health Volunteer Program is dedicated to managing the feet of diabetic pilgrims. This presentation will discuss the most common causes of injury, triaging of injuries, onsite treatment, and pilgrims’ education on how to take care of their feet.

**BMC Scientific Research
Forum 2024**

**SPEAKER
Frist Session
Hall [1]**



**Dr. SALEH
Ahmed Saleh**

Associate Professor of Clinical Biochemistry at
the Faculty of Medicine, Umm Al-Qura University
(UQU).

E-mail: Saabdrabou@uqu.edu.sa
Website: <https://uqu.edu.sa/saabdrabou>
ORCID: <https://orcid.org/0000-0001-9522-9198>
ResearchGate: [https://www.researchgate.net/
profile/Saleh-Saleh-16](https://www.researchgate.net/profile/Saleh-Saleh-16)
Google Scholar: [https://scholar.google.com/
citations?user=ZZZdZr8AAAAJ&hl=en](https://scholar.google.com/citations?user=ZZZdZr8AAAAJ&hl=en)
LinkedIn: [https://www.linkedin.com/in/saleh-
ahmed-saleh-8b4aa528/](https://www.linkedin.com/in/saleh-ahmed-saleh-8b4aa528/)

PROFESSIONAL SUMMARY

Saleh held a strategic advisory role at UQU in which he promoted the university academic excellences & competitiveness through continuous support for research, development, international collaboration, academic affairs, and alumni on strategies to improve their competencies as well as research output, citation impact and ranking performance. He has also studied the underlying publication and citation indicators used in bibliometric analysis and university ranking performance that he has presented in many workshops and seminars. In his role at UQU, Saleh steered many activities connected to university rankings including performance analysis, benchmarking, and promotion. He worked closely with the College Deans and faculty members to develop and strengthening UQU performance indicators to be aligned with the world-class university standards. He is the primary contact at UQU for the ranking organizations in addition to collection and submission of institutional data. Saleh had previously a supervision role of UQU international collaboration through which, he implemented UQU strategies towards improving its academic and scientific outcomes through prestigious partnerships. His portfolio includes university ranking, international collaboration, academic planning, institutional research, and quality assurance. Throughout his career, he has made notable academic and scientific contributions and his research has been published and presented in reputable international journals and top scientific conferences. He is a member of many regional and international professional organizations.

Assessing the Role of Universities in Advancing Sustainable Development Goals: A Perspective on Arab Institutions.

ABSTRACT

The rising global emphasis on sustainability has highlighted the fundamental role of universities in realizing the UN Sustainable Development Goals (SDGs) via research, education, and community involvement. As a result, a university's contribution to the SDGs has emerged as a benchmark for its competitive reputation.

Facing this rising global demands, Arab universities challenge obstacles in augmenting their involvement in SDGs and strengthening their performance in sustainability rankings. While there's a hopeful increase in the number of Arab universities participating in Times Higher Education (THE) IMPACT Rankings, revealing the region's intense efforts in merging sustainability into higher education, their contributions to SDGs have low impact, especially when compared to world-class counterparts. This discrepancy indicates possible gaps in the resources, policies, or sustainability-focused practices these institutions adopt. These challenges can be mitigated by encouraging collaborative activities between universities and various organizations as well as by placing sustainability at the forefront of their agendas through well-framed policies and initiatives. Furthermore, to strengthening sustainability influence, their commitment needs to be enhanced towards research excellences, sustainability integrated curricula, promote strategic partnerships, foster a sustainability-centric culture, engage students more actively, secure consistent funding, set clear benchmarks and ensure periodic evaluation of progress.

BMC Scientific Research
Forum 2024

SPEAKER
Frist Session
Hall [1]



Prof. ELISA
Ovidi, RTDb

Department for Innovation in Biological, Agro-
food and Forest systems
DIBAF - University of Tuscia

Address: Largo dell'Università, s.n.c., 01100,
Viterbo, Italy
Department for Innovation in Biological, Agro-
food and Forest systems
DIBAF - University of Tuscia, Largo dell'Università,
s.n.c., 01100, Viterbo, Italy
Building D, room n.211
Phone: +39 0761 35 71 23 - Fax: +39 0761 35 71 11
Email: eovidi@unitus.it Website: dibaf.unitus.it

**PROFESSIONAL
SUMMARY**

Dr. Elisa Ovidi is Assistant Professor at the Laboratory of Plant Cytology and Biotechnology of Natural Substances, Department for Innovation in Biological, Agri-food and Forestry Systems, University of Tuscia, Italy. As an expert in plant cell biology, her research has focused on the biology of reproduction in higher plants, in particular on the structural and molecular components of pollen tubes. In addition, Dr. Ovidi has been actively involved in the biological and chemical characterization of substances of plant origin with the aim of identifying potentially active molecules that can be used in the development of new drugs and principles for pharmaceutical and biotechnological applications. In particular, she has participated in research projects aimed at studying bioactive compounds from agricultural waste, which allow the reduction and reuse of plant processing by-products in an ecological and sustainable manner. Dr. Ovidi has a wide range of technical expertise, including plant tissue extraction techniques, fluorescence and electron microscopy, cytofluorimetric assays and biochemical investigations for plant and mammalian cell cultures. Her contribution to the scientific community is reflected in her publication record, which consists of numerous articles indexed on Scopus and widely cited in international research journals. In addition to her research activities, Dr. Ovidi is engaged in academic teaching, with a focus on plant biology and biotechnology. Over the years, Dr. Ovidi has established fruitful collaborations and research projects with laboratories around the world, which have enabled her to broaden her perspectives and contribute to the global scientific community.

Title: THE USE OF AGRICULTURAL WASTE AND BY-PRODUCTS OF ARTICHOKE CULTIVATION AS A SOURCE OF MOLECULES WITH BIOLOGICAL ACTIVITY

Elisa Ovidi¹, William Tomassi¹, Irene Mezzani¹, Paolo Mancuso¹, Antonio Tiezzi¹, Enrica Alicandri¹, Anna Rita Paolacci¹, Vittorio Vinciguerra¹, Stefania Garzoli², Mario Ciaffii¹, Giuseppe Scarascia-Mugnozza¹, Valentina Laghezza Masci¹

¹Department for Innovation in Biological, Agro-food and Forest systems (DIBAF) - University of Tuscia, L.go dell'Università, 01100 Viterbo, Italy;

²Department of Drug Chemistry and Technology, Sapienza University, 00185 Rome, Italy

ABSTRACT

The discovery and study of plant secondary metabolites continues to be an exciting area of research. The exploration of different plant species, the extraction and isolation of bioactive compounds and the investigation of their mechanisms of action and potential applications contribute to the development of new and effective therapies.

Technological advances in agriculture are moving towards a circular system that emphasises sustainability and the biotechnological utilisation of waste and by-products, as in the case of artichoke cultivation, which generates a significant amount of waste, including leaves, stems and roots, with up to 80% of the total biomass being discarded. *Cynara cardunculus* L. var. *scolymus* L., a plant from the Asteraceae family, is cultivated globally for its nutritional and medicinal properties. While the immature edible flower heads are commonly consumed, extracts from non-edible parts of the plant have also been studied for their health benefits, leading to the development of various pharmaceutical and medical products.

To explore the potential of utilizing waste and by-products as sources of bioactive compounds, this research focused on investigating extracts from different organs (leaves, stems, primary and secondary flower heads) of a variety of *C. cardunculus* in Italy. The polyphenolic content of the extracts obtained by different part of the artichoke plant was determined through HPLC-DAD analysis, and their biological activities were also studied.

The antioxidant activity of the extracts was assessed using FRAP, ABTS, and DPPH tests, as well as live cell assays on human neuroblastoma SH-SY5Y cells treated with stem and secondary flower head extracts, which exhibited the highest activity.

In addition, studies have been conducted on the cytotoxic and antiproliferative activity of these extracts on human adenocarcinoma cell lines (MCF-7 and MDA).

While studies on the biological activity of plant extracts use 2D cell models, there is a growing interest in the development of 3D models that may be more reliable for defining the effects of a drug on a cancer cell system. This research focused on the cytotoxic and antiproliferative activity of extracts on human adenocarcinoma cell lines using MTT assays in 2D models and also comparing the effects of treatments on 2D and 3D models using Live-Dead assays, laser scanning confocal microscopy and scanning and transmission electron microscopy. The results revealed the impact of the leaf extracts on the cell cycle and further analysis by flow cytometry and western blot confirmed the induction of cell cycle arrest.

In conclusion, the results highlighted the potential use of waste and by-products as sources of bioactive compounds. However, further studies are needed to optimise methods of extracting large quantities of agricultural waste from artichoke cultivation and to exploit bioactive molecules for applications in human and animal health.

BMC Scientific Research
Forum 2024

SPEAKER
Frist Session
Hall [1]



Prof. STEFANO
Orlando, PhD MSc

Department of Biomedicine and Prevention
Section of Hygiene, Epidemiology and Public
Health, University of Rome Tor Vergata, Via
Montpellier, Roma, Italy

**PROFESSIONAL
SUMMARY**

Stefano Orlando's scientific short biography

I am a health economist with a PhD in Public Health from the University of Perugia and an MSc from King's College London. Currently, I am employed as a researcher at the Università degli Studi di Roma Tor Vergata, within the Department of Biomedicine and Prevention. My research explores public health topics, and particularly the economic aspects, of major infectious diseases and non-communicable diseases such as HIV, tuberculosis (TB), and neurological disorders, particularly in the context of developing countries. I am also interested in the health and socioeconomic impact of population aging in Europe.

I serve as the Specialty Chief Editor for the Disaster and Emergency Medicine section of the "Frontiers in Public Health" journal and have published 57 articles indexed on Scopus.

I have represented Italy as a technical expert at high-level United Nations meetings on AIDS in 2011 and 2016 in New York and am a member of the Italian National Council for International Cooperation. Additionally, I collaborate regularly with the DREAM program of the Community of Sant'Egidio, an international cooperation initiative active in public health in 10 African countries.

“Bridging the Gender Gap in Health Care: The Role of Male Involvement in HIV+ Women’s Treatment Programs and Gender-Equitable Practices in Public Health”

ABSTRACT

The presentation will delve into the essential role of male involvement in public health programs, with a particular focus on the treatment and support of HIV+ women in Malawi. Drawing on insights from two pivotal studies, the “WeMen” and the “Bridge the Gap” projects, our research examines adult men and women in rural and semi-urban settings. These programs primarily target HIV+ individuals, while also addressing the prevention and treatment of non-communicable diseases in this demographic. We investigate how gender-equitable practices and active male engagement can significantly improve healthcare outcomes. Our findings suggest that male involvement not only bolsters adherence to and retention in HIV treatment programs for women but also contributes to wider public health enhancements. Key outcomes include a marked reduction in HIV transmission rates and heightened health-seeking behavior among men, creating an environment more conducive to effective disease prevention and management. Our recent cross-sectional survey in Malawi underscores the impact of education and urban residency on fostering gender-equitable attitudes among men, as indicated by the Gender Equitable Men (GEM) scale. Higher education levels and urban living correlate with more progressive views on gender norms. These findings resonate with existing research, showing that perceptions of men as primary breadwinners and decision-makers in households can be an oversimplification. For instance, we noted significant differences in women’s involvement in health decision-making compared to other studies, with only 36% of women in our research having the final say in their own health choices. These variances could be attributed to geographic differences, the male-centric nature of our sample, and the influence of masculinity during male clinical days. Moreover, factors like ethnicity, economic status, access to social media, interpersonal influences, and kinship structures play a crucial role in shaping gender norms. Our study indicates that while economic development and women’s empowerment are vital, they

might not be entirely sufficient in isolation. A dedicated policy approach is crucial for achieving genuine gender equality. The presentation highlights the need to integrate gender-equitable strategies into public health initiatives. These strategies should aim to dismantle societal and cultural barriers hindering male participation, improve men’s awareness and knowledge of health issues, and foster their active involvement in both HIV-related and broader healthcare services. In conclusion, our analysis underscores that male involvement, bolstered by gender-equitable approaches, is fundamental to bridging the gender gap in healthcare. This is imperative not just for the success of HIV treatment programs but also for advancing overall public health objectives in resource-limited settings, leading to more inclusive and effective healthcare solutions.

BMC Scientific Research
Forum 2024

SPEAKER
Frist Session
Hall [1]



Dr. MAHMOUD
Elfaky, PhD

Associate Professor of Microbiology and Molecular Biology, Department of Natural Products and Alternative Medicine, Faculty of Pharmacy, King Abdulaziz University, Jeddah, Saudi Arabia

PROFESSIONAL SUMMARY

Visiting Scholar at Computational Bioscience Research Center (CBRC), King Abdullah University of Science and Technology (KAUST). Researcher at King Abdulaziz University and Oxford University for Artificial Intelligence in Precision Medicine Centre, CAIPM. Consultant at Center of Alignment of Educational Outcomes with Labor Market (CAEOLM), Vice President for Development Offices, King Abdulaziz University. Dr. Mahmoud received his B.Sc. in Pharmaceutical Sciences from Ain Shams University, Cairo, Egypt, and his M.Sc. Degree in Microbiology, Faculty of Pharmacy, Al Azhar University, Cairo, Egypt. He obtained his Ph.D. degree in Microbiology and Molecular Biology from the faculty of Pharmacy at Al Azhar University, Cairo, Egypt. His research focuses on experimental approaches to study the epidemiology, evolution, and biology of multi-drug resistant (MDR) bacteria. Molecular mechanisms of bacterial pathogenesis. Key factors influencing biofilm development in natural and industrial settings.

Combating Communicable Diseases: Strategies for Achieving SDG 3

ABSTRACT

The Sustainable Development Goal 3 (SDG 3) aims to ensure healthy lives and promote well-being for all at all ages. An integral aspect of achieving this goal is combating communicable diseases, which continue to pose significant global health challenges. Infectious diseases such as HIV/AIDS, malaria, tuberculosis, and emerging threats like COVID-19 have profound impacts on individuals, communities, and economies worldwide. By implementing approaches, including strengthening healthcare infrastructure, enhancing disease surveillance, promoting vaccination programs, implementing comprehensive prevention strategies, strengthening health systems, encouraging research and innovation, and fostering international cooperation, we can make significant progress in curbing the impact of communicable diseases. A concerted global effort is necessary to ensure a healthier and more resilient future for individuals and communities worldwide.

BMC Scientific Research
Forum 2024

SPEAKER
Frist Session
Hall [1]



**Dr. YOUSEF
Hawsawi**

Adjunct Assistant Professor, College of Medicine,
Al-Faisal University; Associate Scientist, King Faisal
Specialist Hospital and Research Centre, Jeddah,
Saudi Arabia

PROFESSIONAL SUMMARY

Dr. Yousef Hawsawi was awarded an M.Sc. degree from the University of Wales-Bangor –UK with distinction in 2011. Subsequently, he was awarded a PhD degree from the Faculty of Medicine - University of Leeds-UK in 2015. During his Ph.D., he was awarded the BACR - Hamilton-Fairley Young Investigator Award at the 10th NCRI Cancer Conference held in Liverpool (2-5 Nov 2014). He has been granted 7 Excellence & Distinguish Awards from the Saudi Cultural Attaché'-UK and a Distinguish Student Award from the Ambassador of Saudi Arabia in the UK. Additionally, he successfully completed the proteomics training at the Kolling Institute of Medical Research located at the Royal North Shore Hospital in St Leonards, Sydney-Australia 2015.

Afterward, he completed a Post-Doctoral Fellowship at The University of Texas MD Anderson Cancer Centre in Houston - USA. He worked officially as a scientist at the top prestigious institute in the world the Department of Breast Medical Oncology with the group of tamoxifen, under the supervision of Prof. Craig Jordan (The Father of Tamoxifen).

Currently, he is an Adjunct Assistant Professor at the College of Medicine, Al-Faisal University and an Associate Scientist" at KFSH&RC-Jeddah, and, a Consultant of Molecular & Genetics.

Dr. Hawsawi has published 50 papers in decent journals and is the author of two Arabic books. He has participated in the scientific committee of several conferences and associations. He is a member in several professional organizations including, the American Association for Chemistry (AACC), S.A.C Dip, AMSB, EACR, BACR, National Postdoctoral Association, and Genetics Society of America. Dr. Hawsawi supervised several postgraduate students.

The role of Genetic Sequencing in Saving Humanity and planet

ABSTRACT

Since the completion of human genome sequencing, a new era of medicine has started. In the past century, the development of sequencing technology accelerated the early detection methods for many diseases. This breakthrough opened the door for scientists to discover variants associated with diseases and novel mutations to enable physicians to better diagnose and choose the best treatment option. The cutting-edge state-of-the-art technology in sequencing is currently used to understand the medical field, microbiome, and metabolome and eventually save humans and the entire planet. Sequencing technology has become one of the gold standards in gene analysis, and variant identification. Recently, the generated data has been used through artificial intelligence in drug discovery and gene therapy. Therefore, we will shed light on the essential knowledge of genetics and disease discovery. Then touch on the role of genetic sequencing on human and microbiomes. Finally, finishing with a future perspective on genetics and saving humanity.

KEYNOTE SPEAKER

BMC Scientific Research
Forum 2024

SPEAKER
Second Session
Hall [1]



**Dr. BADR
Abdulrauf, MD, FRCSC.**

Department of Surgery, KFSH&RC -Jeddah
Fellow Royal College of Surgeons
-Canada, Program Director, Plastic Reconstructive
Surgery

PROFESSIONAL SUMMARY

Dr. Badr ABDULARUF is a Consultant Plastic Surgeon and is a Fellow of the Royal College of Surgeons of Canada Undergraduate education at King Abdulaziz University, Faculty of Medicine Residency Training in Plastic Surgery at University of Manitoba, Winnipeg -Canada Subspecialty in Aesthetic surgery Subspecialty in Pediatric Plastic Surgery from University of Toronto- Canada Established the Residency training in Plastic surgery at King Faisal Specialist Hospital and Research Center -Jeddah Numerous Publications of Scientific articles and Book chapters. Head, section of Plastic Surgery at King Faisal Specialist Hospital and Research Center- Jeddah.

Beauty: what truly matters

ABSTRACT

The presentation would tackle perspectives and misconceptions of beauty in women, as well it discusses demographics of women presenting for body reshaping surgery locally.

**BMC Scientific Research
Forum 2024**

SPEAKER
Frist Session
Hall [1]



**Dr. BAYAN
Hussein Sajer**

Assistant Professor Assistant, Biology Department,
Faculty of Science, King Abdul Aziz University,
Jeddah, Saudi Arabia

bsajer@kau.edu.sa
966565619282

PROFESSIONAL SUMMARY

Biology Department, Faculty of Science, King Abdul Aziz University,
Jeddah, Saudi Arabia.

I am a Professor Assistant in the Faculty of Science at King Abdulaziz University in Jeddah, Saudi Arabia. I hold a Ph.D. in Molecular Biology and Molecular Genetics from Trent University in Canada, which I received in 2019. I also have an MSc in Biotechnology from Jefferson University in the USA (2009) and a BSc in Biology/Microbiology from King AbdulAziz University in Saudi Arabia (2006). Throughout my academic career, I have gained extensive experience in various academic and research positions. I have worked as a research assistant at The Ohio State University and the University of Medicine & Dentistry of New Jersey. I have also served as an instructor in the Science Faculty at King AbdulAziz University, teaching courses such as Basics in Environmental Science, Molecular Biology, and General Genetics. My research interests lie in the fields of molecular biology, genetics, and biotechnology. I have made significant contributions to my field, including presenting a poster on the characterization of cytochromes of *Giardia intestinalis* at the Molecular Parasitology Meeting in 2016. I have also authored several publications on topics ranging from the effect of nitrosative stress on heme protein expression to the therapeutic effects of plant extracts on cardiovascular disorders. Aside from my academic work, I have been actively involved in various committees and extracurricular activities. I have served as the President of the Student Biology Club and as a member of the Sports Committee and the Student Guidance Committee at the College of Science.

Exploring the Therapeutic Potential of Microbial Isolates from the Western Region of the Kingdom of Saudi Arabia

Bayan Hussein Sajer, Wafa A. Alshehri, Sahar S. Alghamdi, Rasha Suliman, Haifa Hakmi & Alhanouf Albejad

ABSTRACT

Introduction: Two major health issues facing the world today are antimicrobial resistance (AMR) and the increasing incidence of cancer. Despite the rise of these health problems, advancements in scientific research offer hope for finding solutions. From ancient times, nature has provided remedies and medicinal treatments for human diseases, with fungi being recognized as one of the most significant natural sources. Our study was designed to explore the potential of fungal metabolites as effective anticancer and antibacterial agents.

Methods: The antibacterial efficacy of the isolated fungi was assessed by measuring the diameter of the inhibition zone after exposure to pathogenic bacterial cultures. The clear filtrate obtained from fungal growth in suitable broth media was tested for anticancer activity against six different cancer cell lines. Liquid chromatography-mass spectrometry was performed to determine the active compounds in the fungal filtrates, followed by an in-silico study to predict their toxicity, pharmacokinetic properties, and safety profiles.

Results: Ribosomal DNA sequencing analysis revealed that the isolates belonged to different species of *Aspergillus*, including *Aspergillus sydowii*, *Aspergillus flavus*, and *Aspergillus niger*. One isolate demonstrated promising results against all types of cancer cell lines, while varying degrees of antibacterial potential were observed. Notably, *Aspergillus sydowii* showed significant impact against gram-positive bacteria *Staphylococcus aureus*.

Conclusion: Future research should focus on investigating the antimicrobial activities of these fungi against multidrug-resistant bacteria and exploring the genetic changes in bacteria and cancer cells treated with these fungal extracts. The findings of this study provide valuable insights into the therapeutic potential of microbial isolates from the Western region of the Kingdom of Saudi Arabia.

BMC Scientific Research
Forum 2024

SPEAKER
Second Session
Hall [1]



Dr NICOLA
Cogan Ph.D, D.Clin.Psy

PROFESSIONAL SUMMARY

Dr Nicola Cogan joined University of Strathclyde in October 2017 having previously worked as a consultant clinical psychologist and clinical lead in mental health services in the NHS. She has over 15 years NHS experience working as a practitioner clinical psychologist in mental health services. She retains an honorary consultant clinical psychologist post in NHS Lanarkshire. Her consultancy work has largely concerned trauma informed practice with first responder and frontline workers. She completed a Professional Doctorate in Clinical Psychology (D.Clin.Psy) at the University of Edinburgh. Prior to this she completed a PhD and MA (Hons) Psychology at the University of Glasgow. Her research interests are in the areas of mental health, wellbeing, digital health, recovery and citizenship in applied health contexts. She is involved with research adopting participatory multi-methods. She is a member of the International Recovery and Citizenship Collective led by Yale Medical School, where she has a strong working collaborative.

School of Psychological Sciences and Health
Room 6.79
Graham Hills Building
University of Strathclyde, Glasgow, G11XQ, UK
Email: Nicola.Cogan@strath.ac.uk

trauma management with first responders and healthcare workers: Developing an evidence based and co-created digital intervention

Authors: Dr Nicola Cogan, Dr Alison Kirk, Christoph Graf, Ashleigh Craig, Lucy Milligan, Tara Burns, Robyn McCluskey, Wiktoria Ptak, Jolie Goodman, Hannes De Kock

ABSTRACT

Objectives: First responders (FRs) and healthcare workers are at high risk of being exposed to traumatic events in their occupational roles. Responding to critical incidents often involves exposure to life-threatening circumstances, dealing with fatalities as well as encountering highly stressful situations that may trigger traumatic responses. These experiences can lead to poor mental health outcomes including post-traumatic stress disorder and suicidality. Little research has explored the experiences and perspectives of FRs and healthcare workers in dealing with occupational trauma(s) and how best to meet their mental health needs using a digital intervention.

Design: An exploratory, mixed methods research design based on semi-structured, in-depth interviews ($n = 50$) with FRs and an online cross-sectional survey ($n = 1800$). Interviews were audio-recorded, transcribed and analysed using an inductive thematic approach. Survey data was analysed using descriptive and inferential statistics.

Results: The themes developed from the qualitative interviews were: (1) difficulties accessing timely support and engaging with mental health services, (2) adverse impact of trauma on self and others, (3) stigma, shame and self-blame as barriers to help-seeking and (4) importance of credible, specific and accessible interventions. The quantitative survey data indicated a high prevalence of exposure to occupational trauma (94%) and perceived acceptability (67%) of a digital intervention to meet their needs.

Conclusions: The implications of these findings are discussed at the service provider and organisational level, emphasising the importance of implementing a strengths-based, non-pathologising and de-shaming approach to trauma in the workplace as experienced by FRs and healthcare workers. Emphasis is placed on the importance of overcoming barriers to accessing

mental health support through adopting a whole systems approach to FR and medical training and mental health support. The acceptability of digital based interventions as a means of providing flexible, accessible and credible help is emphasised. Findings will inform the development of a digital application (Sentinel) which seeks to meet FRs' mental health needs.

**BMC Scientific Research
Forum 2024**

**SPEAKER
Second Session
Hall [1]**



**DR. VALENTINA
Laghezza Masci**

Department for Innovation in Biological, Agro-
food and Forest systems
DIBAF - University of Tuscia

Address: Largo dell'Università, s.n.c., 01100,
Viterbo, Italy
Building D, room n.211
Email: laghezzamasci@unitus.it

**PROFESSIONAL
SUMMARY**

She is a Post-Doc researcher at the Laboratory of Plant Cytology and Biotechnology of Natural Substances, Department for Innovation in Biological, Agri-food and Forestry Systems, University of Tuscia, Italy. The extensive professional background is testament to her dedication to the field of biology and plant biotechnology. With a wealth of experience and academic achievements, her path in the scientific community has been marked by numerous research projects, academic roles and publications. Her career has encompassed a wide range of roles and projects, reflecting her expertise in various aspects of biological research. The educational background, including a PhD in Biological and Biochemical Evolution, laid the foundation for her scientific career. The professional journey includes work on projects related to natural substances of plant origin, biological and chemical investigations, and in vitro analysis of cell cultures. She has also been involved in the development and characterization of nanostructured materials for tissue engineering. The extensive research has led to several publications in peer-reviewed journals, covering topics such as the biological effects of essential oils, antimicrobial properties of plant extracts, and investigations of different plant materials. The contributions to the field have been presented at various conferences and symposiums. In addition to her scientific skills, she possesses communication and organizational abilities that have been honed through her work as a collaborator in various research groups and her roles in teaching. She also has proficiency in computer skills, making her a well-rounded professional in the field of biology and plant biotechnology. Overall, Valentina Laghezza Masci's extensive work experience, scientific expertise, and dedication to research and education make her a valuable contributor to the field of biology and plant biotechnology. Her wide-ranging skills and accomplishments underscore her commitment to advancing knowledge and promoting the practical applications of biological research.

ANTIPROLIFERATIVE AND APOPTOSIS EFFECTS OF HYDROXYTYROSOL AND ITS LIPOPHILIC DERIVATIVES ON SH-SY5Y HUMAN NEUROBLASTOMA CELLS

Laghezza Masci Valentina^a, Bernini Robert^a, Villanova Noemib, Clemente Mariangel^a, Cicaloni Vittoriac, Tinti Laurac, Salvini Laurac, Tiezzi Antonia, Ovidi Elisaa

^aDepartment for Innovation in Biological, Agro-food and Forest systems (DIBAF) - University of Tuscia, L.go dell'Università, Viterbo, Italy

^bDepartement of Agriculture and Forest Sciences (DAFNE) - University of Tuscia, L.go dell'Università, Viterbo, Italy

^cToscana Life Science Foundation, Via Fiorentina 1, 53100, Siena, Italy

eovidi@unitus.it

ABSTRACT

Olea europaea L. (Fam. Oleaceae) extra virgin oil (EVOO) is one of the pillars of the Mediterranean diet and is the most valuable product among edible oils, thanks to its oxidative stability, nutritional value, aroma and taste¹. The healthy properties of EVOO are due to the presence of monounsaturated fatty acids, as well as other valuable components like phenolics, sterols, tocopherols and squalene, present in low percentages^{2,3}. Among the hydrophilic phenols, hydroxytyrosol [2-(3,4-dihydroxyphenyl) ethanol, HTyr] is one of the most representative compounds in EVOO exhibiting antimicrobial, hypotensive, antiglycemic, anti-platelet aggregation, cardioprotective, antioxidant, anti-proliferative and anti-inflammatory activities. Being low soluble in lipid media, numerous studies were focused on the enhancement of HTyr bioavailability synthesizing novel derivatives⁴. In the present research, carried out on SH-SY5Y human neuroblastoma cell line, the cytotoxicity, antiproliferative and apoptotic induction effects of HTyr and its lipophilic derivatives Hydroxytyrosol acetate (HTyr-AC), Hydroxytyrosol oleate (HTyr-OL), Hydroxytyrosol methyl carbonate (HTyr-MC) were investigated by biochemical techniques, flow cytometry and electron microscopy. Among them, HTyr-OL induced a dose- and time dependent anti-proliferative effects with the lowest EC₅₀ values.

Furthermore, an increased expression of cleaved caspase-3 was determined and the annexin-V and propidium iodide staining confirmed the apoptosis induced mechanism upon HTyr-OL treatment with a high apoptotic rate in the cytofluorimetric analysis. Ultrastructural changes such as alterations in the cell surface, reduction of protrusions and increase of membrane blebbing were observed by scanning electron microscope. Finally, by a proteomic approach we extended our study in analyzing the differentially expressed proteins in neuroblastoma cells upon exposure to HTyr-OL treated relative to untreated cells. Taken together our findings, HTyr-OL appears an interesting molecule for pharmaceutical applications.

References

- [1] Frankel EN. 2011. *Journal of Agricultural and Food Chemistry*, 59: 785-792.
- [2] Serrano A, De la Rosa R, Sánchez-Ortiz A, Cano J, Pérez AG, Sanz C, Arias-Calderón R, Velasco L, León L. 2021. *LWT*, 136, 110257.
- [3] Romani A, Ieri F, Urciuoli S, Noce A, Marrone G, Nediani C, Bernini R. 2019. *Nutrients*, 11: 1776.
- [4] Bernini R, Gilardini Montani MS, Merendino N, Romani A, Velotti F. 2015. *Journal of Medicinal Chemistry*, 58: 9089-9107.

BMC Scientific Research
Forum 2024

SPEAKER
Second Session
Hall [1]



Dr. HEBA
Adly

Associate Professor of Environmental Health
Community Medicine and Pilgrims Healthcare
Department College of Medicine, Umm Al Qura
University, Mecca, Saudi Arabia

**PROFESSIONAL
SUMMARY**

A leading environmental health expert, Dr. Heba Adly has over 20 years of experience championing sustainable development on global platforms. She is equipped with advanced environmental science research and program management skills, enabling her to influence government policies and pioneer impactful health education programs. Additionally, Dr. Adly has formulated strategies to mitigate health disasters and emergencies. With over 40 articles in eminent ISI journals, her research primarily focuses on environmental factors affecting human health. As a highly skilled lecturer and conference presenter, she has demonstrated success in leading international scientific collaborations, securing prestigious project grants, and communicating effectively across diverse groups. Dr. Adly's innovative approach serves as a catalyst for change, and she has an innate ability to establish robust relationships with key stakeholders across public, private, and community sectors to maximize the impact of research-driven programs.

**The Health Impact of Climate Change: An
In-Depth Analysis from Saudi Arabia**

ABSTRACT

Introduction: As global climates transform, the ramifications on public health become increasingly pronounced. Specifically, Saudi Arabia's unique geographical and climatic conditions amplify these effects. This study delves deep into the nexus of climate transitions and health outcomes within the Saudi context. **Methods:** Utilizing the Cochrane approach, this investigation sourced data from prominent databases to unravel the health implications of climate variations, specifically in Saudi Arabia. VOSviewer served as the key tool for analyzing co-occurrences in our study. **Results:** After a thorough assessment of 820 studies related to climate change and health from databases including SCOPUS, Web of Science, and PubMed, clear patterns emerged. Through the lens of VOSviewer, crucial touchpoints like pollution and the prevalence of certain diseases were identified. **Conclusion:** Our analysis accentuates the heightened attention towards meteorological consequences of climate change on health, suggesting a need for increased focus on areas like mental well-being and nutrition. In Saudi Arabia, the evolving climate presents formidable health challenges that demand proactive measures and in-depth research.

BMC Scientific Research
Forum 2024

SPEAKER
Second Session
Hall [1]



Dr. SAMIA
Faisal Aboushoushah

Associate professor and medical physicist in the
Department of Physics, Faculty of Science, King
Abdulaziz University, Jeddah, Saudi Arabia.

saboushoushah@kau.edu.sa
966504334536

PROFESSIONAL SUMMARY

She obtained her PhD degree from Sir Peter Mansfield Magnetic Resonance Imaging Centre, Nottingham University, United Kingdom in 2011. Her research interests include developing Magnetic Resonance Imaging (MRI) methods for medical applications and developing Functional Magnetic Resonance Imaging (fMRI) techniques to investigate the human brain. She has served as Supervisor of the Department of Physics Ladies Section from 2012-2016. Samia translated the book "MRI: the Basics" Third Edition by Ray Hashman Hashemi, William G. Badley Jr, and Christopher J. Lisanti into Arabic. Samia has been researching nano-materials compatible in the MRI environment and has studied their medical applications as contrast agents in MRI and drug delivery systems. Currently, Samia has directed her research towards the synthesis and characterization of biocompatible and nontoxic nanomaterials for various medical applications.

Biodistribution and Toxicity Assessment of Curcumin-coated Iron Oxide Nanoparticles: A Promising Theragnostic Agent

ABSTRACT

Iron oxide nanoparticles (IONPs) have many medical applications including diagnosis and therapy. Diagnosis purposes include contrast agents in magnetic resonance imaging and auto-fluorescence probes for molecular imaging. Therapy purposes include controlled drug delivery systems, thermal therapy for tumour treatment, and radiosensitizers for cancer treatment. Yet some uncertainty in the biodistribution, clearance, and toxicity of IONPs still lingers. The properties of IONPs significantly depend on the synthesis conditions, their size, shape, crystallinity, surface potential, magnetic properties, and surface modifications. Coating of IONPs with different materials can improve their function. Coating iron oxide nanoparticles using

medicinal plants such as curcumin (Cur-IONPs) has the potential to enhance their stability and biosafety profile while increasing curcumin bioavailability. This talk addresses key aspects in the assurance of the biosafety of Cur-IONPs, namely, green synthesis of the inorganic nanoparticle core, curcumin coating process to make IONPs stable and biocompatible, characterization of the prepared Cur-IONPs, and in vivo studies on the short- and long-term biodistribution, clearance,

and toxicity in rodent models and how these characteristics are affected by single and multidose.

BMC Scientific Research
Forum 2024

SPEAKER
Second Session
Hall [1]



**Prof. FATIN
Khorshid**

Department of Biological Sciences, Faculty of
Science, P.O. Box 80203, King Abdulaziz University,
Jeddah, 21589, Saudi Arabia.

PROFESSIONAL SUMMARY

Professor (Biology), King Abdulaziz University: Jeddah,
Western, SA PhD (center for cell engineering).

University of Glasgow: Glasgow, Glasgow, GB

Upon completion of her doctorate in Cell Engineering from the Center for Cell Engineering at Glasgow University in Scotland at 2001 she joined the faculty of Medicine. Department of Medical Biology and she directed Tissue Culture Unit in KFMRC at KAU where she is an Associate Professor at 2007, and full Professor at 2011, also she is the Supervisor of Al-zamil Chair for Cancer research. This led to the development of powerful PMF as a natural treatment of many types of cancer, she and her team proved that PMF has a cytotoxic activity. Prof. Khorshid joined the faculty of Science at KAU in 2010 where she is a Professor of Cell Biology and Cell Engineering. Prof. Khorshid pioneered a new treatment for the tumor spreading and translocation. This treatment is capable of caused selective programmed cell death of cancer cells (apoptosis) which include human six types of cancer cells, while it has a reparative effect on normal human cells.

It is expected that this work will lead to development of novel therapeutic targets and successful alternative anticancer agent or at least to work as adjuvant drug with other regimens like chemotherapy or radiotherapy which is possible for the first time. Concurrently, Prof. Khorshid has gained many international and local awards and she also has granted patents from US Patent office No. US 10.624,927 B2 at 21/04/2020; European patent office, No. 09162954.3 from EPO at 07/01/2015; and from GCC Patent Office, No. (GC0002755) 12/30/2013.

A case-report highlighting effects of PMF and Camel Milk on a Multiple Sclerosis patient

ABSTRACT

BACKGROUND: PMF is proved to be highly selective agent for many types of cancer in tissue culture levels and in the animal model. **CASE :** This case highlighted the tremendous improvement experience in patient with Multiple Sclerosis treated when conventional treatments were combined with PMF capsules and Camel milk drink. **DISCUSSION:** Our case demonstrated improvement in the management of Multiple sclerosis using PMF capsule with intermittent drinking of camel Milk. **CONCLUSION:** We therefore conclude from what is observed and suggest possible link between PMF and camel milk drink in this patient's tremendous improvement from MS.

Keywords: PMF, Multiple Sclerosis, Camel milk, Tissue Culture

BMC Scientific Research
Forum 2024

SPEAKER
Second Session
Hall [1]



Dr. KHALID
Eljaaly

Associate professor, Faculty of
pharmacy, King Abdulaziz University, Jeddah, Saudi
Arabia

PROFESSIONAL SUMMARY

He is a consultant infectious disease pharmacist & the PGY2 in ID Program Director. Dr. Eljaaly is also an honorary research fellow in college of pharmacy at University of Arizona, Tucson, AZ, USA. He completed his PGY2 infectious disease pharmacy residency at BIDMC, a Harvard Medical School-affiliated hospital in Boston, MA, USA. Then, he completed both antibiotic stewardship pharmacy fellowship and Master of Science in clinical translational research at University of Arizona. He is an active member of the Global Respiratory Infection Partnership (GRIP), and a Fellow of both the American College of Clinical Pharmacy and Infectious Diseases Society of America.

Getting Started: Systematic Reviews and Meta-Analysis

ABSTRACT

A systematic review is a comprehensive summary of all available evidence that meets predefined eligibility criteria to address specific clinical questions. This lecture will discuss the difference between systematic reviews and narrative reviews and provide a brief overview of how systematic reviews and meta-analyses are conducted and how to interpret them.

BMC Scientific Research
Forum 2024

SPEAKER
Second Session
Hall [1]



**Dr. JANINE
Hicks**

School of Law, University of KwaZulu-Natal,
Pietermaritzburg, South Africa

PROFESSIONAL SUMMARY

Dr Janine Hicks is a Senior Lecturer at the University of KwaZulu-Natal, School of Law. Janine is Project Leader for the South African Law Reform Commission's Project 143: Maternity and Paternity Benefits for Self-Employed Workers, and a former Commissioner with the South African Commission for Gender Equality. Janine holds a Ph D from UKZN, an MA from the University of Sussex, and a post-graduate LL B from the former University of Natal, Durban. She has published extensively on democracy, public participation, and access to socio-economic rights.

Persistent barriers to attaining gender equality and eliminating discrimination: A South African perspective

ABSTRACT

This paper considers the targets and indicators envisaged in SDG 5, examining persistent barriers to their attainment from the perspective of the South African experience. The paper puts forward recommendations for policy and advocacy interventions to address these.

**BMC Scientific Research
Forum 2024**

SPEAKER
First Session
Hall [2]



**Dr. ISHAN
Tiwari**

Doctoral Research Scholar, Amity University Noida,
Uttar Pradesh, India

Email- ishanguc@gmail.com

PROFESSIONAL SUMMARY

Ishan Tiwari is a dynamic and versatile individual currently dedicated to active research as a doctoral research scholar in the field of Microbiology at Amity University in Noida, Uttar Pradesh. With a strong educational background in Microbiology and Forensic Science, he has gained valuable experience through training at prestigious government institutions such as the Central Forensic Science Laboratory and Regional Forensic Science Laboratory. His training has encompassed various departments, including Forensic Biology and Forensic Serology. Ishan Tiwari is also a prolific author, with a noteworthy portfolio of around a dozen book chapters in the field of science and technology. His research expertise spans across diverse areas, including Microbiology, Biotechnology, and Agriculture, demonstrating his multidisciplinary approach to scientific exploration. In addition to his contributions in the realm of academic literature, he has actively participated in scientific discourse by presenting approximately 15 research papers at both international and national conferences, showcasing his dedication to sharing knowledge and insights with the global scientific community. Ishan Tiwari's exceptional contributions have not gone unnoticed, as he has been honored with awards such as the Young Scientist Award and the National Science Day Award, further highlighting his significant impact in the field of science and his recognition within the scientific community.

Sustaining Our World: Navigating the Path to a Thriving Sustainable Environment

ABSTRACT

In a world where the urgency of sustainable development is more evident than ever, the topic titled "Sustaining Our World: Navigating the Path to a Thriving Sustainable Environment" delves into the critical role that research, education, and society play in achieving a sustainable future. This abstract speech explores the challenges and opportunities presented by the Sustainable Development Goals (SDGs) and the need for integrated perspectives to address them effectively. It emphasizes the importance of universal collaboration, leaving no one behind, and highlights the pivotal role of educational institutions in fostering cooperation and partnerships on a national and global scale. Join us in this engaging dialogue as we chart a course toward a sustainable environment, discussing initiatives, themes, and perspectives that can pave the way for a shared commitment to a more prosperous and eco-conscious world.

BMC Scientific Research
Forum 2024

SPEAKER
First Session
Hall [2]



Dr. OWAIS
Yousuf

Assistant Professor
Department of Food Technology
Islamic University of Science & Technology,
JK, India

Email: mirowais33@gmail.com;
Owais.yousuf@iust.ac.in
Contact: +91-8266970026

PROFESSIONAL SUMMARY

Dr. Owais Yousuf is an Assistant Professor in the Department of Food Technology, Islamic University of Science & Technology, JK. His principal research and teaching interests encompass the field of Food Engineering and Technology. He was awarded Ph.D. (Process & Food Engineering) in 2019 from G. B Pant University of Agriculture & Technology, Pantnagar. He has an overall research and teaching experience of 4+ years and has authored more than 40 publications which include research and review articles; book chapters and popular articles. He is an ardent writer and a voracious reader and writes often for various magazines and newspapers as well. He is an Editorial Board member of numerous renowned journals and is also serving as an eminent reviewer for several journals. He has actively participated in more than 50 Conferences, Workshops and Training programs at the National and International level. He is a lifetime member of the Association of Food Scientists and Technologists of India (AFSTI) and the Indian Society of Agricultural Engineers (ISAE). During his Doctoral program, he was selected by French Ministry of Agriculture under the DEFIAA program for Two-month training in Food Processing from various vocational and professional institutes in France. He is presently working on the Comprehensive Valorization of Agro-industrial waste for the development of packaging material.

Sustainable Nonfarm Approaches to Achieve Zero Hunger

ABSTRACT

Millions of people worldwide are deprived of sufficient, safe, and nutritious food required for an everyday and healthy life. The hunger crisis is worsening over time, even though many attempts have been made to minimize it. Increasing world population and competition for natural resources, climate change, natural disasters, urbanization, poverty, and illiteracy are the main causes that need to be addressed to reduce the hunger crisis. Various nonfarm technologies are being used to eradicate hunger but their long-term impact on the environment should also be considered. The real sustainability of several novel technologies being implemented to deal with hunger is an issue to tackle. In general, a discussion is made on the potential applications of storage facilities, underutilized crops, waste valorization, food preservation, nutritionally enriched novel food products, and technological advancement in food processing to achieve zero hunger. An attempt has also been made to address the sustainability of various nonfarm technology utilized to minimize the global hunger crisis.

BMC Scientific Research
Forum 2024

SPEAKER
First Session
Hall [2]



Dr. ABDULRAHEEM
Alwaf

Department of Dental Public Health, Faculty of
Dentistry, King Abdulaziz University, Jeddah, Saudi
Arabia

aalwafi@kau.edu.sa

PROFESSIONAL SUMMARY

Dr. Abdulraheem Alwafi is an esteemed orthodontist and assistant professor at the Department of Dental Public Health, Faculty of Dentistry, King Abdulaziz University in Jeddah, Saudi Arabia, and a notable figure in the dental community. His academic journey began by earning his Bachelor's Degree from King Abdulaziz University. He further expanded his expertise with a Ph.D. in Craniofacial Science and a Diploma in Orthodontics, along with a one-year fellowship in Dental Sleep Apnea from The University of British Columbia, Canada. He holds a Doctor of Science in Dentistry (DScD) from Boston University in the United States. Dr. Alwafi's academic excellence is further emphasized by his quadruple board certification, which includes the American Board of Orthodontics, American Board of Dental Sleep Medicine, American Board of Dental Public Health, and a Fellowship from the Royal College of Dentists of Canada in Orthodontics. His professional journey includes roles such as Assistant Professor at King Abdulaziz University, Consultant in Orthodontics and Dental Public Health, and various clinical and teaching positions in Saudi Arabia, the United States, and Canada. Dr. Alwafi is a prolific researcher with significant contributions to the dental field, recognized and published in prestigious journals, demonstrating his commitment to dental science. Beyond academia and research, his dedication to community service is evident through his active involvement in initiatives within Saudi Arabia, the United States, and Canada, enhancing dental public health and education. This blend of academic excellence, professional acumen, and commitment to community service establishes Dr. Alwafi as a distinguished figure in the field of dentistry, particularly in orthodontics, dental sleep medicine, and dental public health, as he continues to strive for excellence and innovation in his endeavors.

Overview of systematic reviews and meta-analyses assessing the predictability and clinical effectiveness of clear aligner therapy

ABSTRACT

This study conducted an overview of systematic reviews (SRs) and included randomized controlled trials (RCTs) to evaluate the predictability of tooth movements and clinical effectiveness of clear aligner therapy (CAT) compared to fixed appliances (FAs). The PRISMA guidelines were followed, and seven electronic databases were systematically searched for publications up to March 15, 2022. The quality of the included SRs and RCTs was assessed using the AMSTAR-2 and RoB-2 tools, respectively. Initially, 18 SRs and 2 RCTs were identified, and after quality assessments, 11 SRs and 1 RCT were retained for data synthesis. The comparison between software predicted and actual tooth movements indicated that CAT's accuracy in predicting rotational movements, especially for canines, was not reliable. Horizontal movements, particularly in the upper incisors, were more predictable, while vertical movements were less predictable. The overall American Board of Orthodontics (ABO) objective grading system (OGS) scores did not show a significant difference between the CAT and FAs groups, with a high heterogeneity of 90 % ($P < 0.0001$) and a confidence interval of -2.32 to 18.4. The current evidence level regarding the predictability of tooth movements and clinical effectiveness of CAT compared to conventional FAs is considered to be low to moderate. While CAT can be used for treating complex malocclusions, it tends to yield less accurate results than FAs.

**BMC Scientific Research
Forum 2024**

SPEAKER
First Session
Hall [2]



**Dr. FAWAZ
Pullishery**

Assistant Professor Dentistry Program,
Batterjee Medical College,
Jeddah, Saudi Arabia

PROFESSIONAL SUMMARY

Dr. Fawaz Pullishery BDS,MDS, DDPH (UK), MMed

Dr. Fawaz, an Assistant Professor at Batterjee Medical College, is a beacon of academic excellence, shaping the next generation of dental professionals in Dental Public Health. His academic journey began with a BDS from Rajiv Gandhi University, followed by an MDS in Public Health Dentistry from Yenepoya University, establishing a strong foundation in dental sciences. Holding Diplomate status in Dental Public Health from the Royal College of Surgeons England and an MMed from Dundee University, his expertise extends to Biostatistics, certified by CMC, Vellore, showcasing dedication to methodological rigor in research. Renowned for scholarly eminence, Dr. Fawaz has been honored with the prestigious IASLC 2016 Mentorship Award at the revered World Lung Health Conference in Vienna, Austria. His scholarly impact resonates in over 52 publications across distinguished international journals. Additionally, he holds editorial roles in two indexed journals, contributing significantly to academic discourse. Moreover, Dr. Fawaz is a globally engaged scholar, having actively participated in international conferences across the USA, Austria, Australia, Switzerland, Hong Kong, and the UAE. Notably, his contributions were lauded with Best Scientific Paper Presentation Awards at the Indian Dental Association Conference in India during 2013. Beyond his academic prowess, Dr. Fawaz is an innovator, boasting reception of two patents from the British government (UK). His pioneering work encompasses dental public health, health education, preventive dentistry, Oral Epidemiology, and tobacco control, solidifying his position as a trailblazer in advancing scholarly pursuits.

Effectiveness of i-PRF in periodontal regeneration – A systematic review and meta-analysis

ABSTRACT

Background: Periapical diseases are common dental conditions that require non-surgical endodontic intervention (NEI) for successful treatment. However, the impact of diabetes mellitus (DM) on the periapical healing (PH) outcome in diabetic patients remains somewhat unclear. This review aimed to evaluate the PH outcome following endodontic intervention among DM-afflicted individuals.

Methods : A comprehensive search was conducted across multiple electronic databases to identify relevant studies. Specifically devised selection criteria were applied to select studies that assessed PH outcomes in DM sufferers undergoing different treatment protocols. Data extraction and quality assessment were performed following predetermined protocols. ROB – 2 risk assessment tool assessed quality of the included studies.

Results : A total of 11 studies met the inclusion criteria and were included in the investigation. Four studies showed greater occurrence of apical periodontitis and five of them reduced healing and success rate in diabetic as compared to controls. Overall, nine studies showed that diabetes mellitus affected periapical outcome negatively. This suggests that diabetes mellitus is an important factor in the prognosis of endodontic intervention. Assessment tools used were PAI, PR, SC and FD analysis. RoB-2 assessed the included studies to have moderate risk of bias.

Conclusion : This review provided compelling evidence that DM patients experienced a noticeable

negative impact on PH outcome as compared to control population. These findings highlight the importance of considering the diabetic status of patients when assessing the prognosis of periapical diseases and planning NEI interventions. Further research is needed to validate these findings and explore potential mechanisms underlying the observed associations.

BMC Scientific Research
Forum 2024

SPEAKER
First Session
Hall [2]



**Ms. ROWAIDA
Qoutah**

Lecturer, Respiratory Therapy Program,
Batterjee Medical College,
Jeddah, Saudi Arabia

PROFESSIONAL SUMMARY

Mrs. Rowaida Qoutah is a respiratory therapy lecturer in BMC. She had a master's degree in respiratory therapy from Georgia state university. She had the American boards of CRT, RRT, NPS, and ACS. She also, had 2 published researches in the field of respiratory care.

Validity and Reliability of an Arabic Version of COPD Population Screener Questionnaire

Rowaida Qoutah, Ayedh D. Alahmari, Weaam A. Rahali, Ann M. Jose, Abdulrahman A. Alkhathami, Khawlah M. Kubisi, Afrah A. Obaidan, Mazen M. Homoud, Riyadh A. Alshehri, Gokul G krishna, Faisal A. Turkestani, Mohammed A. Albarakati, Saeed A. Alqahtani, Mohammed A. Almeshari, Khalid S. Alwadeai

ABSTRACT

Background: Smoking is a leading cause of heart and lung diseases worldwide. Though there is a decline in tobacco smoking the use of e-cigarettes (vape) is growing in popularity, especially in young adults. Even though vaping is reported to be used as an aid for smoking cessation. A substantial subset of the population who initiate vaping to quit smoking continues to use both. **Objective:** To assess the long-term cardiopulmonary status, capacity and quality of life among smokers, vapers, and dual users. **Methods:** The study participants are classified into five groups: 1) Control, 2) Cigarette smokers, 3) Vapors, 4) Ex-smoker current vapors, and 5) Dual users (both cigarette smokers and vapors). Participants performed PFT, 6MWT and completed the HRQoL questionnaire. **Results:** A total of 175 (85.7% male) participants with an average age of mean (\pm SD) 27.38 (\pm 5.75) were enrolled in the study. The PFT results showed a significant difference in FEV1(L/Sec) [F(4,170) =7.73, $p \leq 0.001$] $\eta^2 = 0.15$; FEV1 (% predicted) [F(4,170) =24.63, $p \leq 0.001$] $\eta^2 = 0.36$; and FEV1/FVC (%) [F(4,170) =16.85, $p \leq 0.001$] $\eta^2 = 0.28$ values across the five groups. On further analysis, FEV1 was significantly decreased in all exposure groups compared to the control group. Similarly, in FEV1/FVC (%) a significant difference was observed among control with other groups except the vaping group. The 6MWT showed a significant difference in walking distance between the groups [F(4,170) =19.93, $p \leq 0.001$] $\eta^2 = 0.31$. Further analysis showed a significant difference between the control with all exposure groups. The HRQoL questionnaire reported a significant difference in three domains such as physical function [H(4) =20.55, $p \leq 0.001$], emotional well-being [H(4) = 19.21, $p = 0.001$] and social function [H(4) =29.63, $p \leq 0.001$]. Dual users were the most significantly affected group in lung function [(FEV1 2.96 \pm 0.41, FEV1 (% predicted) 72.6 \pm 6.07 and FEV1/FVC (%) 73.65 \pm 11], 6MWT walking distance (m) (mean \pm SD) 416.26 \pm 53.49 and in physical function median (IQR) 90(10), emotional well-being 76(18) and social function 75(17.50) domains in HRQoL. **Conclusion:** We observed a significant long-term impairment in lung function, cardiopulmonary capacity and in quality of life among smokers, vapers and dual users compared to healthy individuals. Dual users showed worse health outcome compared to healthy or any other type of user.

BMC Scientific Research
Forum 2024

SPEAKER
First Session
Hall [2]



Dr. NOUF
Fahad Alshreif

Assistant Professor Preparatory Year Program,
Batterjee Medical College, Jeddah, Saudi Arabia

PROFESSIONAL SUMMARY

Dr. Nouf Alshreif is an Assistant Professor of English at Batterjee Medical College. She is the Head of the English Department at the Preparatory Year Program and the Vice Chair of BMC Social Responsibility Unit. She holds a PhD in Composition and Applied Linguistics with a concentration in Learning Psychology from Indiana University of Pennsylvania. She holds a Master's Degree in Teaching English as a Second Language from Indiana University of Pennsylvania. In addition, she holds a Master's Degree in Public Policy and Administration from California Lutheran University. She holds a Bachelor's Degree in English and Education. Dr. Alshreif is a scientific researcher and educator who received a number of scientific and teaching awards. Dr. Alshreif received First Place Professional Display Poster at the 10th International Family Medicine Conference-Dubai. Dr. Alshreif received the Scholar for the Deam Award 2019 from the National Council of Teachers of English in USA. In addition, she received the Teaching Excellency Award 2017 From Indiana University of Pennsylvania.

Exploring the Learning Experiences of Saudi Board Orthopedic Surgery Residents

Nouf Fahad Alshreif, Ahmed Hafez Mousa, Jumanah Nassar, Razan Alsuayri, Abdelrahman Waleed Alsayed; Mahmoud Jamil Merdad, Ali H. Alyami

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia; Department of Surgery, Ministry of the National Guard – Health Affairs, Jeddah, Saudi Arabia; King Abdullah International Medical Research Center, Jeddah, Saudi Arabia.; Department of Surgery, King Saud Bin Abdulaziz University for Health Sciences, Jeddah, Saudi Arabia

ABSTRACT

The purpose of this study is to theorize learning of Saudi Orthopedic Surgical Residents while drawing upon theories of learning and transfer. It introduces an initial theoretical framework that complicates our current understanding of learning in the context of residency while investigating the complex learning processes of residents enrolled in the Saudi Orthopedic Surgical Residency Program. This study utilizes a qualitative design to explore the depth and multifaceted concept of learning that overlaps with a range of mechanisms including transfer, cognition, and metacognition. The two major findings that the researchers propose are: learning through surgical experiences and learning through clinical experiences. Scaffolded surgical learning includes interrogative scaffolding, observational scaffolding, metacognitive scaffolding. Learning Through Clinical Experiences includes scaffolded learning, initiated scaffolded learning, interactive scaffolded learning, collaborative scaffolded learning, and interrogative scaffolded learning. Through these findings, this article extends previous studies while proposing a nuanced understanding of specific learning mechanisms that shape residents' experiences as learners and health care providers.

BMC Scientific Research
Forum 2024

SPEAKER
First Session
Hall [2]



Dr. ABDULRAHIM
Altoam Alzain

Head of the Department of Pharmaceutical
Chemistry and Assistant Professor at the University
of Gezira, Sudan.

PROFESSIONAL SUMMARY

Abdulrahim Altoam Alzain is an assistant professor with expertise in Medicinal Chemistry and Drug Discovery. He earned a Bachelor of Pharmacy with First-Class Honors from the University of Gezira in 2013. He furthered his education with a Master of Science in Biotechnology and completed his Ph.D. in Medicinal Chemistry at the University of Tours, France, in 2020. In 2023, he joined Leipzig University, Germany, as a Postdoctoral Researcher, continuing his contributions to the field of Computational Medicinal Chemistry. Throughout his academic journey, Abdulrahim demonstrated exceptional teaching skills, instructing various courses related to pharmaceutical sciences. He has held academic appointments, including Head of the Department of Pharmaceutical Chemistry and Assistant Professor at the University of Gezira. Abdulrahim is an active member of scientific societies and co-founded the "African Pharmaceutical Journal." His research portfolio includes 36 published articles covering diverse topics in computational drug design.

Application of Computational techniques for green and sustainable drug discovery and development

ABSTRACT

The field of computer-aided drug design (CADD) has emerged as a rapidly growing area of research, revolutionizing the drug discovery and development process. CADD aims to reduce the reliance on extensive experimental efforts and expedite the identification of potential drug candidates. Over the years, CADD has not only shortened the timeline for discovering small drug molecules but has also mitigated the risk of late-stage drug failures by enabling early predictions of a drug's absorption, distribution, metabolism, excretion, and toxicity (ADMET) profile. CADD offers a comprehensive approach, including techniques such as combinatorial chemistry, quantitative structure–activity relationships (QSARs), pharmacophore modeling, and various molecular docking methods. Molecular dynamics simulations further facilitate tasks like virtual screening, lead optimization, and de novo drug design. A noteworthy aspect of CADD is drug repurposing, where already approved drugs are investigated for potential uses in treating other diseases, expediting their transition from the laboratory to clinical applications. In silico techniques play a pivotal role in CADD by aiding in the identification and optimization of new drug candidates, leveraging both chemical and biological data about targets and ligands with the power of computational analysis. Additionally, QSAR and machine learning models streamline candidate selection by excluding molecules with undesirable ADMET profiles. Several approved drugs, including indinavir, captopril, and oseltamivir, owe their discovery or optimization to molecular modeling techniques employed in CADD. The trajectory of CADD, driven by artificial intelligence (AI) and computational power, is poised to bring forth even more success stories, firmly establishing our era as one characterized by CADD and AI-driven drug design and discovery.

**BMC Scientific Research
Forum 2024**

SPEAKER
First Session
Hall [2]



**Dr. SHAIMAA
Mohamed Hassan**

Associate professor of Histology & cell biology,
Program Coordinator, General Medicine Practice,
Aseer Battergie Medical college, Saudi Arabia;
Certified Medical Educator

**PROFESSIONAL
SUMMARY**

M. B. B. CH (Bachelor's degree) in Medicine & General Surgery, Menoufia University, 2005 (Excellent with honor); M. Sc. (Master's degree) in histology & cell biology from Faculty of Medicine, Menoufia University, Egypt in 2011; M.D. (Medical doctorate) in histology & cell biology from Faculty of Medicine, Menoufia University, Egypt in 2015; Professional Diploma in medical education from AICPD in 2022.

Regenerative medicine

ABSTRACT

Regenerative medicine is a broad field that includes tissue engineering but also incorporates research on self-healing process to regenerate and replace cell & tissues and restore normal function.

There are three components of Tissue engineering which are;

- 1) Appropriate scaffold for transplantation.
- 2) Reparative cells that can form functional matrices.
- 3) Bioactive molecules that promote the production of the desired tissue.

These three components can be employed separately or in combination.



BMC Scientific Research
Forum 2024

SPEAKER
Second Session
Hall [2]



Dr. AHMED
Saaduddin Sapri

Assistant Professor of Oral & Maxillofacial Surgery
(OMFS), Dentistry Program, Batterjee Medical
College, Jeddah, Saudi Arabia

PROFESSIONAL SUMMARY

Ahmed Mohammed Saaduddin Sapri BDS, MDSc, PhD Assistant Professor of Oral & Maxillofacial Surgery (OMFS) Dr. Ahmed Mohammed Saaduddin Sapri is an assistant professor and consultant of Oral and Maxillofacial surgery at the Division of Oral and Maxillofacial Surgery – Clinical Science Department – Dentistry Program - Batterjee Medical College – Jeddah – KSA. He is a graduate of the Faculty of Dentistry Mansoura University – Egypt (2004) from which he received his Master (2010) and Ph.D. (2014) in Oral and Maxillofacial Surgery. He has a long experience, extending for more than 15 years in dental education and training of undergrads and postgrads dental students in the field of oral and maxillofacial surgery. Furthermore, he is one of the dexterous oral and maxillofacial surgeons, especially in the field of Dental Implantology and maxillofacial traumatology. He has a number of publications in national and international journals. He has a great research interest in the fields of dentoalveolar surgery, dental implantology, and management of oral and maxillofacial traumatic and pathologic incidents.

Immediate Implant Placement In The Mandibular Posterior Region Combined With Ridge Preservation And Socket Sealing With Custom Healing Abutments And Delayed Loading Protocol. A Radiographic Evaluation Of Vertical And Horizontal Alveolar Bone Changes

Ahmed Saaduddin Sapri, Ayman Abdel Rahim Elkashty and Mohamed Ellayeh

ABSTRACT

This study aimed to evaluate vertical and horizontal alveolar bone changes after immediate implant placement in the mandibular posterior region combined with ridge preservation and socket sealing with custom healing abutments. Material and methods: eighteen immediately placed implants were inserted in sockets of mandibular molar and the space around the implants was filled with Allograft bone material. Socket was sealed with custom healing abutment. Radiographic evaluation of vertical and horizontal alveolar bone changes were performed on CBCT images taken immediately after implant placement (T0), six months (T6) and 12 months (T12). The following distances were measured around the four implants surfaces; 1) P-BIC; from implant platform to the first bone contact, 2) P-T; vertical distance between implant platform and alveolar bone crest, 3) OBS; from buccal and lingual border of bone to the implant surface at the level of the implant platform (OBS0), 2 mm (OBS2), and 4 mm (OBS4) apical to implant platform. Results: The highest bone loss at P-BIC and P-T distances was noted with distal surface, followed by mesial surface, the lowest was noted was buccal/lingual surfaces. At T6 and T12, Buccal surface recorded significant higher OBS0 bone loss than lingual surface. Conclusion: Immediate implant placement in the mandibular posterior region combined with ridge preservation and socket sealing with custom healing abutments and delayed loading protocol is a successful treatment and associated with acceptable vertical and horizontal bone loss around implants after one year follow-up.

BMC Scientific Research
Forum 2024

SPEAKER
Second Session
Hall [2]



Prof. MAHMOUD
El Homossany

Dentistry Program,
Batterjee Medical College, Jeddah, Saudi Arabia

PROFESSIONAL SUMMARY

I graduated in 2001 from Ain Shams University. I started my Academic life in 2004 as a demonstrator at the removable Prosthodontics department. At 2007 I finished my master thesis in Finite element analysis with collaboration with the American University in Cairo (AUC). In 2012 I got my PHD degree in implant dentistry. I have taught undergraduates in Egypt since 2004. In 2012 I have taught Postgraduates. I have supervised 6 master theses and 2 PHD theses. I have Published 18 articles. I have given courses in the continuous education unit at Ain Shams University. I have been in the quality assurance unit at Ain Shams University. I was a member of Faculty of Dentistry Ethics committee.

Finite element analysis is a powerful tool for achieving sustainability goals.

ABSTRACT

Finite element analysis is a tool used for mechanical simulations. It is used in the medical, dental, and other fields. There are many ways in which finite element simulations and analysis can help achieve sustainability. The most apparent and popular way computational methods contribute towards these goals is by reducing the use of materials, and improving the manufacturability of a product. When a product is designed using the minimum material required it has a positive impact on the environment. The performance of the product

and durability should not suffer in the process. This is where FEA comes into the picture. Using finite element methods, it is possible to study fatigue and thermal stresses that are otherwise difficult to determine. Indeed, one of the biggest problems of our time is how to make a product with the lowest possible environmental impact. Therefore, it is important to modify the classic production, or even redesign the products, to reduce the amount of raw material and energy required, thus increasing the efficiency of the process and, at the same time, decreasing the impact on the environment.

Using Finite element analysis and additive manufacture in dentistry is an example of how to achieve sustainability.

Key words: Finite element analysis, sustainability, Biomechanics, additive manufacture, Prosthodontics.

SPEAKER
Second Session
Hall [2]



Dr. AMERA
Bekhatroh Rashed

Assistant Professor
Department of Nursing
College of Applied Medical Sciences,
Jouf University, KSA
Email: abakhatro@ju.edu.sa
Contact: +966591148661

PROFESSIONAL SUMMARY

Dr. Amera Rashed is an Assistant Professor in the Department of Nursing, College of Applied Medical Sciences, Jouf University, KSA. Her principal research and teaching interests encompass the field of maternity nursing. She was awarded Ph.D. (Maternal and Newborn Health Nursing) in 2014 from Faculty of Nursing, Menofyia University, Egypt. She has an overall research and teaching experience of 9+ years and has authored more than 25 publications which include research and different types of articles. She is a reviewer for various journals. She is an Editorial Board member of many journals. She has actively participated in more than 60 conferences, workshops and training programs at the National and International level.



Dr. NEVIN
Adel Amer Amer

Assistant Professor
Department of Nursing
College of Applied Medical Sciences,
Jouf University, KSA
Email: naamer@ju.edu.sa
Contact: +966551546079

PROFESSIONAL SUMMARY

Dr. Nevin Amer is an Assistant Professor in the Department of Nursing, College of Applied Medical Sciences, Jouf University, KSA. Her principal research and teaching interests encompass the field of Medical Surgical Nursing. She was awarded Ph.D. (Medical Surgical Nursing) in 2017 from Faculty of Nursing, Menofyia University, Egypt. She has an overall research and teaching experience of 7+ years and has authored more than 20 publications which include research and different types of articles. She is a reviewer for various journals. She has actively participated in more than 50 conferences, workshops and training programs at the National and International level.



Dr. RASHA Ibrahim
Essawi Hendia

Assistant Professor College of Nursing,
Menofyia University, Egypt
Email: rashaibrahimessawi84@gmail.
com
Contact: +20 01008455609

PROFESSIONAL SUMMARY

Dr. Rasha Ibrahim principal research and teaching interests encompass the field of maternity nursing. She was awarded Ph.D. (Maternal and Newborn Health Nursing) in 2020 from Faculty of Nursing, Menofyia University, Egypt. She has an overall research and teaching experience of 8+ years and has authored more than 5 publications which include research and different types of articles. She is a reviewer for various journals. She is an Editorial Board member of many journals. She has actively participated in more than 5 conferences, workshops and training programs at the National and International level.

**How Does Climate Change
Affect Human, Maternal, Fetal
and Neonatal Health**

Climate change is a long-lasting change in the weather arrays across tropics to poles. It is a global threat that has embarked on to put stress on various sectors. This presentation is aimed to conceptually engineer how climate variability is affecting human, maternal, fetal and neonatal health and world health organization response to these changes and its devastating effects.

BMC Scientific Research
Forum 2024

SPEAKER
Second Session
Hall [2]



**Dr. BADERALDEEN
Altazi**

Consultant, Radiation Oncology Physicist, King
Abdullah Medical City at the Holy Capital (KAMC) -
Jeddah/Makkah, KSA

PROFESSIONAL SUMMARY

Dr. Baderaldeen Altazi is a consultant radiation oncology physicist at King Abdullah Medical City at the Holy Capital who received a Bachelor of Science in Nuclear Engineering with a concentration in Medical Physics from King Abdulaziz University, Jeddah, Saudi Arabia. Dr. Altazi received his Master of Science and PhD in Applied Physics with a concentration in Medical Physics from the University of South Florida (USF) in Tampa, Florida. He was awarded the ASTRO Basic/Translational Science Abstract Award in the Radiation Physics category for an abstract titled, "Comparing Radiomic Features and SUV as Predictors for Cervical Cancer Treatment Outcomes" ASTRO 57th annual meeting, San Antonio, Texas. Finally, he graduated from McGill University Radiation Oncology Physics Residency and postdoctoral fellowship.

Radiomic Analysis of 18F-FDG PET in Predicting Cervical Cancer Outcomes

ABSTRACT

This study explores the potential of radiomic features derived from quantitative image analysis for predicting treatment responses in different areas of the body. Specifically, we focused on the heterogeneity of 18F-FDG PET uptake within the Metabolic Tumor Volume (MTV) of 80 cervical cancer patients. Our goal was to assess how well these radiomic features could predict two key outcomes: the emergence of distant metastases (DM) and local-regional recurrence (LRR). We used multiple logistic regression models (MLRs) to achieve this, selecting the most predictive features through a backward feature selection process within a Leave-One-Out Cross Validation (LOOCV) framework. This process was applied to a training set representing 70% of our patient cohort. The resulting MLRs were then validated on an independent group comprising 30% of the cohort. The effectiveness of the final models was determined by measuring the Area under the Receiver Operator Characteristic Curve (AUC). Our findings revealed that six models (four for DM and two for LRR) were particularly effective, outperforming both univariate-radiomic feature models and Standard Uptake Value (SUV) assessments. These results suggest that pre-radiochemotherapy PET radiomics could play a crucial role in stratifying patient risk for DM and LRR, potentially informing treatment decisions like the addition of systemic therapy or adjusting radiation doses.

BMC Scientific Research
Forum 2024

SPEAKER
Second Session
Hall [2]



Dr. OSAMA
El-Gendy

Assistant Professor, Preparatory Year Program,
Batterjee Medical College, Jeddah, Saudi Arabia

PROFESSIONAL SUMMARY

I gained a PhD in Pure Mathematics in 2013 from Ain Shams University. The subspecialty was abstract algebra. My research interests are in Abstract Algebra, Fuzzy Algebra, Algebraic Geometry, Numerical Analysis, and General Topology.

On Cubic Intuitionistic Fuzzy α -ideal of BP-algebra

ABSTRACT

The paper introduces the cubic intuitionistic sets conception. It explores their application in the context of BP-algebras, a type of algebraic structure that plays a role in fuzzy logic and mathematics. The research questions aim to understand the relationship between cubic intuitionistic sets and various classes of algebraic structures and how they relate to subalgebras and ideals. The paper's structure includes sections on the introduction, preliminaries, cubic intuitionistic fuzzy α -ideals, and the fuzzy α -ideals Cartesian product in BP-algebras. The study, through examples and theorems, showed that the extension of fuzzy α -ideals from a single BP-algebra to the Cartesian product of two BP-algebras is essential for several reasons, such as it enables us to deal with fuzzy ideals and relations in more complex algebraic structures created by the Cartesian product. This is particularly useful when dealing with combined systems. In addition, the theorems also established that the properties and behaviors of cubic intuitionistic fuzzy α -ideals are preserved when combining two separate systems. This is important for maintaining the consistency and structure of fuzzy ideals in complex scenarios. Fuzzy α -ideals have applications in various fields, including mathematics, computer science, and decision-making. Moreover, Cubic intuitionistic sets are designed to handle uncertainty and partial information, which is essential in modeling and making effective decisions. These concepts and significant findings can be applied to various algebraic structures in the future, such as fuzzy soft and cubic fuzzy ideals in BP-algebras.

BMC Scientific Research
Forum 2024

SPEAKER
Second Session
Hall [2]



Dr. HARSHKANT
Gharote

Professor, Dentistry Program, Batterjee Medical
College, Jeddah, Saudi Arabia

PROFESSIONAL SUMMARY

Dr. Harshkant Gharote is working as Professor in Dentistry Program at Batterjee Medical College, Jeddah. He is an astute academician and has 17 years of experience in teaching Oral Medicine and Radiology to the graduating students. After joining Bachelor of Dental Surgery in 1993, he persuaded for excellence and commenced his journey as assistant lecturer till 2003. He fostered his hard work and perseverance to join Masters in Oral Medicine and Radiology at prestigious Government Dental College and Hospital, Nagpur, India. Since 2006, he aspired many graduate and postgraduate students throughout his academic expedition and vouches to continue as a torchbearer of academic excellence. To achieve nuances in teaching and learning through Postgraduate diploma in Dental Education. His keen interests in clinical research have bagged 36 publications in national and international journals and has inspired him to pursue PhD in Oral Medicine.

Oral Health and wellbeing

ABSTRACT

Mouth is the mirror of general health and wellbeing and has been evolved with concrete evidences through of research in this field. Attributes of good oral health has reached beyond the healthy gums and teeth and encompasses improvement in the quality of life. In recent years, poor oral health, specifically gum diseases, has been associated with a number of general health conditions. Many systemic diseases show specific and non-specific changes in oral mucosa and can be warning signs for the same. Long term use of certain medications has been implicated in development of oral mucosal lesions and can be a signal for changing the group of medication that will maintain general health with relief in oral changes. Further, structures surrounding the oral cavity like salivary glands, temporomandibular joints, maxillary sinuses and lymph nodes are contributors to general wellbeing of human body including mental and physical health. The present paper is an attempt to understand the nuances of oral health and the effect of them on overall health of human beings.

BMC Scientific Research
Forum 2024

SPEAKER
Second Session
Hall [2]



NOUF
Alharbi

English Language Lecturer
Preparatory Year Program, Batterjee Medical
College, Jeddah, Jeddah, Saudi Arabia

**PROFESSIONAL
SUMMARY**

Nouf Alharbi is an English Language Lecturer with seven years of experience in teaching the .She holds an MA in English from the University of Jeddah and a diploma in teaching .language She is a certified .and BMC ,KAU :She also has teaching experience at two different universities trainer from both Cambridge University and Nile Academy and has done workshops on many ,the importance of emotional intelligence ,such as effective communication in classrooms ,topics She is an experienced item developer and was a member of the Exam .and how to use rubrics She is interested in .Unit at the English Language Institute at KAU for around two years experimenting with new methods of assessment and is doing research on students' perspectives She is always passionate about the .on using e-assessment tools for assessing writing skills quality of teaching by continuously trying new teaching methodologies and styles.

A Postcolonial Ecocritical Reading of Zakes Mda's The Whale Caller and Helon Habila's Oil on Water

ABSTRACT

This paper explores environmental devastation in Africa as presented in the works of Zakes It also investigates how .) Mda's The Whale Caller (2005) and Helon Habila's Oil on Water (2010) these novels portray the economic activities introduced by colonialism and how they negatively The .affect the achievement of sustainable development in both South Africa and Nigeria research employs a postcolonial ecocritical approach that examines the relationship between the ,Therefore .they form the environment ,together ,post-colonial land and humans and how study analyzes the events and characters associated with environmental problems in the two narratives to critique the hegemony of the Western development discourse and to reveal its The narrative highlights the ecological crisis by drawing attention to how uneven .contradictions This study contributes to the ongoing scholarly .and fauna ,flora ,development impacts people discussions that focus on the development discourse produced by the neocolonial ideology and questions its viability for the sustainable wellbeing of postcolonial communities and lands.

BMC Scientific Research
Forum 2024

SPEAKER
Second Session
Hall [2]



BALSAM
Alghamdi

English Language Lecturer
Preparatory Year Program,
Batterjee Medical College,
Jeddah, Saudi Arabia

PROFESSIONAL SUMMARY

Balsam Alghamdi is an English language lecturer at Batterjee Medical College. She has a long-standing interest in investigating multi semiotic realizations of mental states through verbal and non-verbal communication. Her research interests include multimodality, systemic functional linguistics, forensic linguistics, and psychology. Her particular expertise is in analyzing criminal recordings through a multimodal lens.

The Expression of Empathy: a Gender Based Study

ABSTRACT

Empathy is the ability to understand and relate to the emotions of other beings. Although studying empathy has been a point of interest for researchers of different domains, the expression of empathy in the context of social media has not been explored extensively. Additionally, research on emotional and empathetic expression associated with gender on social media has been minimally explored. Therefore, this study aims to examine gender differences in expressing empathy through Austin and Searle's (1962; 1975) directive, expressive, and representative illocutionary speech acts. Further, this research also aims to examine differences in the use of forces and strategies to express empathy by Saudi males and females. The data was collected from the social media platform X – formerly known as Twitter. More specifically, it was derived from comments shared under two popular posts discussing a vehicle fire. The participants varied in social class, age groups, education level, status, and geographical location. The data coding model of this study was fairly based on that of Samavarchi and Allami (2010), however, to fulfill the purposes of this study a few unique codes were added. In turn, the text was examined and analyzed qualitatively by using Ellis and Barkhuizen's functional analysis method (2005). Results show that the most utilized empathetic speech act by both genders is the expressive speech act. However, the conclusions indicate that male users use a wider variety of illocutionary acts than females. Further, female participants mainly used the expressive speech act to communicate empathy. In contrast, male users employed the representative and directive speech acts in their empathetic utterances. These findings correlate with the claim that empathy is present in both genders; however, differences in the expressing it begins to occur when each gender is primed in a traditionally feminine or masculine manner (Wölfer et al, 2012). Additionally, both genders employed strategies with religious forces in their empathetic expressions, which could be linked to the dominating Islamic cultural nature of Saudi Arabia.

BMC Scientific Research
Forum 2024

SPEAKER
Session
Hall [3]

Students' Oral
presentations



HOURIAH
Nukaly

Medicine Program,
Batterjee Medical College,
Jeddah, Saudi Arabia

Efficacy of Adalimumab in Improving Hidradenitis Suppurativa: Hyperbaric Oxygen Therapy as a Potential Adjuvant to Conventional Treatment A Meta-Analysis of Randomized Controlled Trials

Houriah Yasir Nukaly*; Waseem AlHawasawi; Ibrahim Abdullah S Albalawi; Reema Saleh Abdullah Albalawi; Razan Alsuayri; Raghad Aldibane; Jannat Hasan Alamoudi; Bader Sameer Zimmo

ABSTRACT

Background: Hidradenitis suppurativa (HS) is a chronic inflammatory skin disease characterized by recurrent abscesses, nodules, and scarring in apocrine gland-bearing areas. Adalimumab, a tumor necrosis factor-alpha (TNF- α) inhibitor, has demonstrated efficacy in improving HS symptoms. Hyperbaric oxygen therapy (HBOT) has emerged as a potential adjuvant therapy for HS, with reported benefits in reducing inflammation and promoting wound healing.

Aim: To assess the effect of Adalimumab on Hidradenitis Suppurativa Clinical Response (HiSCR) score across the included studies after 12 months weekly treatment. We additionally aim to evaluate the efficacy of HBOT as an adjuvant therapy to the current conventional therapy.

Methodology: Random-effects model meta-analysis utilizing the DerSimonian and Laird technique was conducted, which is based on the inverse variance method. The findings will be illustrated using forest plots. The heterogeneity of the comparisons was assessed using the Chi-square test (Cochran's Q), with a statistical significance level of $p = 0.005$ ($p < 0.005$ rejects the null hypothesis of homogeneity). We employed the I^2 statistic to determine the proportion of total heterogeneity beyond chance: less than 25% heterogeneity is considered low, 25% to 50% is moderate, and more than 50% is high. RevMan version 6 Software was used for statistical analysis.

Results: The meta-analysis conducted to assess the effectiveness of Adalimumab in treating Hidradenitis Suppurativa, focusing on the Hidradenitis Suppurativa Clinical Response (HiSCR75) score after 12 weeks of treatment. Fixed Effects model revealed a total of 253 events out of 514 cases in the Adalimumab group and 143 events out of 513 cases in the placebo group. Heterogeneity among the studies was low ($I^2 = 0\%$). The overall effect test showed a significant difference between Adalimumab and placebo ($Z = 6.64$, $P < 0.00001$), suggesting that Adalimumab significantly improves the HiSCR75 score. The risk ratio (RR) was 1.75 (95% CI: 1.48 to 2.06), indicating a 1.75 times higher likelihood of achieving HiSCR75 with Adalimumab compared to placebo. Individual study results varied, with Zouboulis et al. (2019) having the highest weight (59.7%). The test for subgroup differences was not applicable, indicating no significant variation in Adalimumab's effect across studies.

Conclusion: Adalimumab significantly improves HiSCR75 scores in Hidradenitis Suppurativa after 12 weeks of treatment. Additionally, hyperbaric oxygen therapy (HBOT) shows promise as an adjuvant for hidradenitis suppurativa (HS) and provides synergistic efficacy when combined with conventional therapy.

BMC Scientific Research
Forum 2024

SPEAKER
Session
Hall [3]

Students' Oral
presentations



MAHINAR
Alhartani,

Medicine Program,
Batterjee Medical College,
Jeddah, Saudi Arabia

Body Mass Index Among Medical Students and Its Correlation with Their Academic Year and Lifestyle

Jumanah Yaser Nassar, Lara AlHartany

ABSTRACT

Introduction Changes in the lifestyle, food habits, lack of nutritious diet, stress, physical inactivity results in increase body weight. The alarming rise in obesity among the young population, which forms a key link to the rise of other noncommunicable diseases such as cardiovascular disease, diabetes, hypertension, dyslipidemia, stroke, and other types of cancer. Due to stressful lifestyle of disordered eating habits and less physical activity, medical students are more susceptible to obesity. The scope of this study is to estimate the BMI among the Bachelor of Medicine, Bachelor of Surgery (MBBS) students and to see its association with gender, academic year and obesity co-morbidities. Materials and methods A cross-sectional study is still being conducted in BMC from September 2023 to February 2024 with 224 as the target sample size. Medical students from M1 till M5 enrolled from 2023-2024 were invited to participate in this study with their consent. A questionnaire was used to collect and record information on age, sex, academic year, height in meters, weight in kilograms and obesity co-morbidities including hypertension, asthma, diabetes mellitus, obstructive sleep apnea, cardiovascular diseases and risk of smoking. Data was analyzed using employing SPSS version 26.0 software. Association of BMI categories with age and academic year will be determined using Chi-square test and p- values less than 0.05 was considered significant. Results The current study sample recruited 32 participants, 18(56.3%) females and 14 (43.7%) males. 22(68.8%) of the participants were within normal BMI, 3(9.4%) were overweight, and 7(21.9%) were obese. Conclusion The study highlights the fact that obesity is not a major problem among the medical students but being obese is coming up as a significant problem in both male and female students. However, more male students were overweight and obese.

BMC Scientific Research
Forum 2024

SPEAKER
Session
Hall [3]

Students` Oral
presentations



SALEHA
Shafi Ahmed Khan

Medicine Program, Batterjee Medical College,
Jeddah, Saudi Arabia

Ischemic cholecystitis masquerading as a metastatic disease secondary to transcatheter arterial chemoembolization: A case report

Shareef Syed, Saleha Shafi Ahmed Khan

ABSTRACT

Background: Ischemic cholecystitis is a frequently documented complication of transcatheter arterial chemoembolization (TACE). The purpose of this article is to describe the clinicopathological findings of ischemic cholecystitis masquerading as a rare metastasis of the gallbladder through a case study.

Clinical Case: We present a case of a 53-year-old patient with a history of decompensated cirrhosis secondary to hepatitis C virus and right lobe hepatocellular carcinoma. The patient underwent partial hepatectomy of segment 5 and cholecystectomy post TACE. He records a thrombocytopenia with a platelet count of 140k and small paraesophageal and gastrohepatic varices on imaging. He has normal kidney functions and no ascites. During the segment 5 resection and cholecystectomy, the liver appeared to be cirrhotic with abdominal stigmata of portal hypertension and the gallbladder was passed to pathology unit for a frozen section to rule out metastatic disease. A mass was palpable in the gallbladder which was noted to be consistent with a gall stone and the hard white area was consistent with chronic inflammation with embolic beads. Intraoperative diagnosis suggested gallbladder neck, possible metastasis, and no carcinoma whereas the final post-operative pathological diagnosis revealed cholelithiasis and chronic cholecystitis with chemoembolization beads with no carcinoma.

Conclusion: We describe a case of ischemic cholecystitis complicating a TACE procedure. This case highlights the importance of postoperative histopathological finding to confirm the diagnosis and to differentiate the complications of TACE. We conclude that risk of cholecystitis is seen in waxy white gross appearance of the gallbladder and catheterization of right hepatic artery.

BMC Scientific Research
Forum 2024

SPEAKER
Session
Hall [3]

Students` Oral
presentations



HUSNA
Irfan

Medicine Program,
Batterjee Medical College,
Jeddah, Saudi Arabia

Unveiling the Impact of Fast fashion industries: Economic growth or exploitation?

Husna Irfan, Ayesha Jamal, Sayeeda Mehveen, Sadia Sultan, Afifa Khalid, Aleena Zobairi, Shyma Haidar, Sariya Khan

ABSTRACT

Fast fashion, the readily close-at-hand, inexpensive, and widely available of-the-moment garments, has changed the way people buy and dispose clothing. By selling large quantities of clothing at cheap prices, fast fashion has surfaced as the most prevailing business model, leading to skyrocketing of apparel expenditure. More than 150 billion apparels are generated in the world every year. According to a recent report by the House of Commons, people buy more clothes per person in the UK (26.7 kg) than any other country in Europe. Correspondingly, the garment business in the UK grows at a more rapid rate than the rest of the economy (5.4% versus 1.6% in 2016), making up for for £32 billion in 2017.

The purpose of this study is to emphasize the overall impact of fast fashion on environmental sustainability and economy; as well as to inform and advise the general public about the various ways to subdue it. The methodology involved is secondary data analysis. It also includes reviewing and analyzing articles published online on reliable sources.

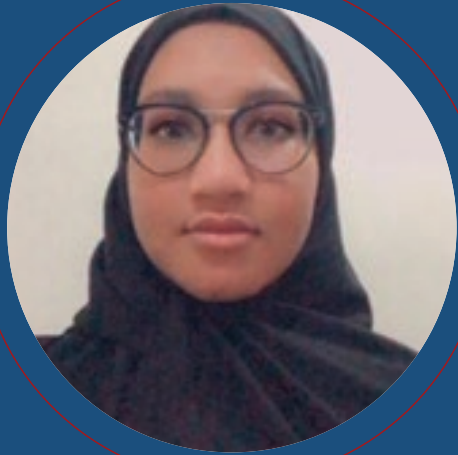
The UN Environment Program (UNEP) reports that the industry generates 10% of worldwide carbon emissions and is the second-biggest water consumer. Around 85% of textiles are disposed of in landfills each year, drying out water sources and poisoning rivers and streams. The ordinary process of washing clothes releases 500,000 tons of microfibers into the ocean every year, and fast fashion companies use synthetic fibers like polyester, nylon, and acrylic, which take hundreds of years to biodegrade.

In conclusion fast fashion has become a concerning issue at an alarming rate, in this study we look through the impact of fast fashion industry on different sectors, like business, ecological, social; and address the challenge. The best way to counter the issue is by consumer awareness, educating people to make better choices and contribute to a more sustainable approach to fashion is the goal of our study.

BMC Scientific Research
Forum 2024

SPEAKER
Session
Hall [3]

Students' Oral
presentations



KHALOUD
Sameer Al-Fallatah

Medicine Program,
Batterjee Medical College, Jeddah, Saudi Arabia

Assessing the Alignment: Saudi Arabia's Healthcare Transformation Program and its Contributions to Vision 2030 Sustainable Development Goals – A Literature Review

ABSTRACT

Saudi Arabia has embarked on a transformative journey with its Vision 2030, aiming to reshape various sectors, including healthcare and SDGs. This literature review seeks to assess the alignment between Saudi Arabia's Healthcare Transformation Program and Vision 2030 Sustainable Development Goals (SDGs). The aim is to provide a nuanced understanding of the synergies, challenges, and implications of Saudi Arabia's healthcare transformation within the context of Vision 2030 SDGs. The scope encompasses an extensive exploration of academic articles, government reports, and relevant publications to examine the key themes, strategies, and outcomes associated with the healthcare program within the context of SDGs. The research offers insights on the improvements in healthcare access, service quality, and public health, contributing valuable knowledge to the intersection of healthcare policy and socioeconomic development. The literature review brings attention to how the healthcare program aligns with environmental sustainability goals, particularly regarding resource efficiency and waste reduction outlined in Vision 2030. The study acknowledges challenges and disparities within the healthcare transformation program, shedding light on regional variations and barriers to equitable access. This research may guide policy-makers in refining healthcare strategies and advancing progress towards global sustainability targets. Additionally, the findings could contribute to a broader understanding of the intersection between national development agendas and global sustainability goals. The study's reliability could be affected by limitations in the availability of data related to the Vision 2030 healthcare initiatives and their impact on SDGs, potentially leading to gaps or inaccuracies in the assessment. The literature review may not fully capture the diverse perspectives of stakeholders involved in the healthcare transformation, potentially overlooking valuable insights from practitioners, policymakers, or the general population. The research may not comprehensively cover all relevant Vision 2030 SDGs, potentially overlooking certain aspects of the healthcare program's impact on broader sustainable development objectives. In conclusion, this literature review has shed light on the intricate relationship between Saudi Arabia's Healthcare Transformation Program and Vision 2030 SDGs. As Vision 2030 progresses, continuous assessment and refinement will be paramount to ensuring that the healthcare initiatives not only meet national goals but also contribute significantly to the global pursuit of sustainable development.

BMC Scientific Research
Forum 2024

SPEAKER
Session
Hall [3]

Students` Oral
presentations



SARIYA
Khan,

Medicine Program,
Batterjee Medical College,
Jeddah, Saudi Arabia

Assessing the relation between improper disposal of medicines and its impact on the environment: A Literature Review

Sariya Khan, Ayesha Jamal, Husna Irfan Thalib, Ayesha Hanin, Shyma Haidar, Sayeeda Mehveen

ABSTRACT

Background:

Pharmaceuticals become a household waste due to many reasons including non-adherence, early recovery and buying more than what you need. When these are not disposed off properly, it leads to them acting as pollutants. Medicines that are flushed or drained down the sink enter the water sources and pollute them, making the water toxic for the survival of aquatic life. In a study conducted in France, it was found that approximately 17,600 tonnes of unused or expired medicines were disposed of in 2018. Another study conducted in Netherlands estimated that approximately 40% of pharmaceutical waste through unused or expired medicines could be prevented. Many factors such as lifestyle changes, easy availability and cheaper medicines have contributed to increase in prescription and usage of medicines. As a consequence, the amount of unused medicine that becomes waste is also increasing, which makes their environmentally sound management ever more important.

Aim:

The purpose of this research is to examine the current medicine disposal methods, highlighting the instances of improper disposal. In accordance with the United Nations Sustainable Development goal 12, which states “reliable production and consumption,” it aims to raise awareness against the overproduction of medicines. In addition to this, this paper will determine how the medicines enter water bodies and study the effects of potential bioaccumulation in aquatic bodies. It will also evaluate the harmful effects of medicines on flora and fauna in the affected areas, investigate their persistence in the soil, and explore how these may change the soil’s structure and nutrient content.

Significance:

Discussion of this topic is significant as understanding the impact of improper disposal of medicines is very important to prevent the ecological impact and create a sustainable environment. This study will explore a) evidence from prospective studies to analyze the impact; b) preventative measures that can be taken to reduce this impact.

Method:

This paper will conduct a systematic literature review by collecting and analysing several research studies and literature reviews. Data extraction and synthesis techniques will be applied to discern patterns, trends, and key findings, contributing to a comprehensive understanding of the subject. Most of the studies used questionnaires and literature reviews as the methodology to conclude their results.

BMC Scientific Research
Forum 2024

SPEAKER
Session
Hall [3]

Students` Oral
presentations



RUQAYYAH
Ahmed

Medicine Program,
Batterjee Medical College,
Jeddah, Saudi Arabia

Comparing Clinical Outcomes of Patients Who Underwent Robotic Assisted Da Vinci Surgical Intervention And Conventional Cardiac Surgery at a Tertiary Care Hospital: First Study in Saudi Arabia

ABSTRACT

The Da Vinci Surgical System is a robot assisted system utilized in the field of surgery for a minimally invasive surgical approach. It provides the surgeons with an advanced set of instruments to be used guided via a console. The Da Vinci System translates the surgeon's hand movements while performing the procedure. The system also delivers three dimensional (3D) highly defined and magnified views of the surgical area making the operation possible through one or a few small incisions.

Studies are limited in the scope of the surgical outcomes of Da Vinci robot-assisted surgeries specifically in cardiac surgeries involving coronary artery disease (CAD) and coronary artery bypass grafting (CABG) surgery.

This study aims to explore the short term outcomes of da Vinci assisted cardiac surgeries focusing on two parameters mainly: post surgery adverse events and patient satisfaction including surgical site scars, procedure time and recovery time, respectively. Relevant data will be collected from patients who underwent cardiac surgeries related to CAD through conventional cardiac surgery or Da Vinci assisted surgical system cardiac surgery.

This study will gather clinical data to compare the surgical outcomes of these patients. It will compare the adverse events, procedure time, recovery time, and surgical site scar of conventional cardiac surgery to Da Vinci Assisted cardiac surgery. The aim of this study is to compare the clinical outcomes of both groups and suggest if da Vinci robot assisted cardiac surgery is a favorable option for patients with coronary artery disease.

BMC Scientific Research
Forum 2024

SPEAKER
Session
Hall [3]

Students' Oral
presentations



SHYMA
Haidar,

Medicine Program,
Batterjee Medical College,
Jeddah, Saudi Arabia

Is Neom City the future of affordable and clean energy sources: A review on the step towards sustainability.

Shyma Haidar, Ayesha Hanin Shaikh

ABSTRACT

Background: The Neom city is the future of sustainable development, and plans to set an example for the entire world by using only affordable and clean energy hence improving the lifestyle and health of the population in that city. The city also intends to prove that sustainable energy is feasible.

The Neom city focuses on four important factors which are, renewable energy (including solar power, hydropower, thermal energy, wind energy and biomass energy), infrastructure (which includes smart technologies and effective strategic planning), environmental protection (to preserve the area's biodiversity while simultaneously obtaining renewable energy) and economic analysis (cost effective and careful decision making processes).

This study aims to recognise the factuality of affordable energy being practical and proving that if its implementation of providing a sustainable environment is possible on a huge scale, its concept of sustainability can also be applied on a daily basis in any other part of the world. It also cross examines the way and methods in which The Line (smart city) project is being executed in creating an eco friendly environment.

Methods: This research study will utilise the data from the latest news reports of credible sources and articles published by international renewable energy resources along with other recent articles obtained from google scholar. The methodology used to formulate this research is a literature review. This review will prove to be an eye opener study internationally that will encourage all individuals globally to preserve our natural habitats.

Significance: This research paper will list out ways by which our future can be shaped to become a better place for survival rather than an harmful toxic environment. It will reveal ways in which affordable and clean environment can be made into a near reality by focusing on these areas: a) types of renewable energy sources b) possibility of accomplishing this on a global height c) high quality of affordable energy sources is achievable and d) healthy lifestyle of population in line city and close knit community.

In conclusion, the research aims to search for a sustainable model which has already implemented affordable and clean energy as their primary source of energy and succeeded in it so that it can set as an example for the whole world.

BMC Scientific Research
Forum 2024

SPEAKER
Session
Hall [3]

Students` Oral
presentations



AYESHA
Jamal,

Medicine Program,
Batterjee Medical College, Jeddah, Saudi Arabia

“End of the world?” Assessing Generation Z’s perspective on life and how it can be improved.

Ayesha Jamal, Syeda Mehveen, Husna Irfan, Ayesha Haneen, Shyma Haidar

ABSTRACT

As we work towards attaining the goals of sustainable development, it is important to address and acknowledge its greatest stakeholders: today’s youth and the future of tomorrow. Generation Z, comprising of all those born between 1997 and 2012, is well ahead in terms of education and opportunities as compared to the previous generations. Despite this, the majority of them have a general attitude of alienation from everything around them, anxiety, stress, and pessimism toward life. According to a study, Gen Z is roughly twice as likely to experience sadness and hopelessness and is three times as likely than Americans over 25 to believe that their problems are so bad, they would be better off dead. Additionally, the CDC reports, the number of juvenile suicides rose by about 60% between 2007 and 2019.

This study delves into the attitudes of the current generation towards life and understanding how the increased awareness about the environmental and global issues faced by the world today which could potentially lead to it’s doom, may have a negative impact on the minds of youths filled with aspirations and dreams. This study will also offer what steps can be taken in order to foster a supportive and sustainable environment that supports the aspirations and well-being of the current generation. It will also help in comprehending the viewpoints and issues of today’s youth, which is crucial for promoting efficient communication and putting in place focused support systems.

Through an extensive literature review of articles employing a combination of qualitative and quantitative research methods, we explore the multifaceted aspects of the current generation’s mindset, such as how they define success, fulfillment, and purpose while taking into account the effects of cultural influences, technological saturation, and socioeconomic issues.

The study’s conclusions offer insightful information to educators, mental health specialists, legislators, and other interested parties that want to close the gap between the experiences of the current generation and the institutions of society as they currently exist. This will ultimately help to foster a more resilient and adaptable society, which will further aid in the promotion of the sustainable development goals.





STAFF POSTERS

إجهاض الجنين المستوفه بين الطب والفقہ

1. **Walid Khalil Mohammad Alhawajreh**

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

EFFECTIVENESS OF DIFFERENT ROTARY FILES SYSTEMS IN REMOVAL OF GUTTA- PERCHA DURING ENDODONTIC RETREATMENT WITH OR WITHOUT SOLVENT

2. **Mohamed Samir Elnawawy**, Mirza Muzaamill Baig

Dentistry Program, Batterjee Medical College, Jeddah, Saudi Arabia

MEDITERRANEAN DIET ADHERENCE IN SAUDI ARABIA AND ITS ASSOCIATION WITH PHYSICAL & MENTAL HEALTH, AND SOCIOECONOMIC STATUS

3. **Majed Alnabulsi**, Fatma Zouheir Kefi, Wajd Alzahrani, Raghad Abosoudah

Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

PARENTS' KNOWLEDGE AND ATTITUDES TOWARDS MALOCCLUSION AND EARLY IDENTIFICATION OF DENTOFACIAL DEFORMITIES LINKED TO ORAL HABITS IN CHILDREN

4. **Dareen Aljehani**, Abdulmajeed Kaki

Dentistry Program, Batterjee Medical College, Jeddah, Saudi Arabia

INCENSE BURNING EXPOSURE AND ITS EFFECT ON ASTHMA SYMPTOMS IN CHILDREN

5. **Abdulrahman Alkhathami**, Ayedh Alahamari, Layaan Saaty

Respiratory Therapy, Batterjee Medical College, Jeddah, Saudi Arabia

THE IMPACT OF ADDING THE VOLUME TERM ON NONLOCALITY FOR THE NEUTRON-40CA ELASTIC SCATTERING USING THE VELOCITY-DEPENDENT OPTICAL POTENTIAL.

6. **Mohammad Fatehi Hasan**

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

FOURIER TRANSFORM INFRARED SPECTROSCOPY FTIR RECENT APPLICATIONS

7. **Nouf Gharawi**

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

THE POTENTIAL AMELIORATIVE IMPACTS OF EVENING PRIMROSE OIL AGAINST METANIL YELLOW -INDUCED HEPATIC CHANGES: A HISTOLOGICAL, IMMUNOHISTOCHEMICAL, AND BIOCHEMICAL STUDY

8. **Amany Mohamed Shalaby**¹, **Rania H. Shalaby**^{2,3}, **Mohamed Ali Alabiad**⁴, **Doaa I. Abdelrahman**⁴, **Mohammed Alorini**⁵, **Fatima A. Jaber**⁶, **Shaimaa Mohamed Abdelfattah Hassan**^{7,8}

1. Histology and Cell Biology Department, Faculty of Medicine, Tanta University, Tanta, 31527 Egypt; 2. Pharmacology Department, Faculty of Medicine, Tanta University, Tanta 31527, Egypt.; 3. Biomedical Sciences Department, Dubai Medical College for Girls, United Arab Emirates.; 4. Pathology Department, Faculty of Medicine, Zagazig University, Zagazig, 44519, Egypt.; 5. Department of Basic Medical Sciences, Unaizah College of Medicine and Medical Sciences, Qassim University, Unaizah, Kingdom of Saudi Arabia.; 6. Department of Biology, College of Science, University of Jeddah, Jeddah, 21589, Saudi Arabia.; 7. Histology and Cell Biology Department, Faculty of Medicine, Menoufia University, Egypt; 8. Department of Histology, General Medicine Practice Program, Batterjee Medical College, Aseer 61961, Saudi Arabia

BIOACTIVE GLASSES FOR THE TREATMENT OF CANCER BY HYPERTHERMIA

9. **Tamer Dawod**, Adel Alghamdi, Hanan Hassan, Shaza Alyamani, Badriah Hifni, Mohamed Roshdi, Nouf Gharawi, Baraa Yamani, Mohamed Alaidaros, Mohamed Rashed, Sabrin Ibrahim

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia



EFFECTIVENESS OF COMMUNITY HEALTH NURSING PROGRAMS IN PREVENTING INFECTIOUS DISEASES

10. Hamza Husain Ahmed Ahmed Balola

Assistant prof. of Community Health, Nursing Program, Batterjee Medical College, Asser, Saudi Arabia

BODY MASS INDEX AND INSULIN RESISTANCE ARE PREDICTORS OF BONE MINERAL DENSITY IN SAUDI WOMEN WITH POLYCYSTIC OVARY SYNDROME

11. Mai Albaik

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

CARDIOPULMONARY STATUS AND QUALITY OF LIFE AMONG SMOKERS, VAPERS AND DUAL USERS

12. GOKUL KRISHNA, Ayedh Alahmari

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

ASSESSMENT OF SERUM FETUIN-A AND ITS GENE POLYMORPHISM AS A MARKER OF INSULIN RESISTANCE IN POLYCYSTIC OVARY SYNDROME

13. Mohamed R. Herzalla, Hanan Hassan Zaki

Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

THE ROLE OF CHRONIC STRESS IN IMMUNE SYSTEM DYSFUNCTION

14. Nouf Alshreif, Esra Alturkistan

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

DETECTION OF PERIODONTAL OSSEOUS DEFECTS USING CBCT

15. Dr. Kanishk Gupta, Rawan Abdullah Alamoudi, Rawan Saleh Alghamdi, Vikram Bali, Basem Abuzenada, Gufaran Ali Syed, Fawaz Pullishery, Vani Taneja

Dentistry Program, Batterjee Medical College, Jeddah, 21442, Saudi Arabia; Principal and Head, Department of Periodontics and Oral Implantology, Desh Bhagat Dental College, Desh Bhagat University, Mandi Gobindgarh, Punjab, India.

EFFECTS OF METFORMIN ON BEHAVIORAL AND NEUROCHEMICALS CHANGES IN A FIBROMYALGIA-LIKE MODEL IN MICE

16. Hanin Abdulbaset AboTaleb

BMC Alumni, Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

STUDIES ON HONEY SAMPLES FROM THE SOUTHWESTERN REGION OF SAUDI ARABIA: THEIR ANTIOXIDANT ACTIVITIES RELATED TO THEIR CONTENT OF ULTRA-SHORT PEPTIDES

17. Wed Mohammed Ali ALaerjani

Department of Chemistry, Faculty of Science, King Khalid University, Abha 61413, Saudi Arabia

EFFECTIVENESS OF SOME TYPES OF TOOTHPASTES IN THE REMOVAL OF PLAQUE AND TARTAR

18. **Amani Ayedh Laheq**

Department of Chemistry, Faculty of Science, King Khalid University, Abha 61413, Saudi Arabia

EFFECTIVENESS OF EARLY CLINICAL EXPERIENCE ON NURSING PROGRAM, STUDENTS' PERCEPTION

19. **Maha Mohamed Ibrahim**

Nursing Program, Batterjee Medical College, Jeddah, 21442, Saudi Arabia

LIPASE ENZYME FROM ISOLATED EXTREMOPHILE BACTERIAL STRAIN: CHARACTERIZATION AND APPLICATION IN BIODIESEL PRODUCTION

20. **Nouf Hamed Saeed Alghamdi**; Wafa A. Alshehri, Ashjan Khalel, Meshal H. Almalki, Adel A. Sayari

University of Jeddah, Microbiology, Jeddah, Saudi Arabia

PROTEASE ENZYME ISOLATED FROM EXTREMOPHILE BACTERIAL STRAIN: CHARACTERIZATION AND USE AS ADDITIVE IN DETERGENT

21. **Sarah Abdularhman Ahmad Alhothifi**, Wafa A. Alshehri; Ashjan Khalel; Meshal H. Almalki; Adel A. Sayari

University of Jeddah, Jeddah, Saudi Arabia

XYLANASE ENZYME ISOLATED FROM EXTREMOPHILE BACTERIAL STRAIN: CHARACTERIZATION AND USE AS ADDITIVE IN BREAD MAKING

22. **Ebtihal mohammed swied Alharbi**, Wafa A. Alshehri, Ashjan Khalel, Meshal H. Almalki and Adel A. Sayari

University of Jeddah, Jeddah, Saudi Arabia

IN OVO EXPOSURE TO COMMERCIAL ARTIFICIAL SWEETENERS CAUSES CONGENITAL MALFORMATIONS IN CHICK EMBRYOS EYES

23. **Eman Salem Al-Hazmi**, Fatma M.S.N. Al-Qudsi, Aisha Abdullah AlRofaidi

Department of Biology- Zoology Division, Faculty of Sciences King Abdullaziz university, Jeddah, Saudi Arabia

FACTORS ASSOCIATED WITH SLEEP PATTERN DISTURBANCE AMONG PATIENTS IN CRITICAL CARE UNITS

24. **Mai Elsayed Mohsen Batal**

Nursing program, Batterjee Medical College, Asser, Saudi Arabia

STUDENTS POSTERS



AFFORDABLE AND CLEAN ENERGY

1. **Fatin Alkhdaidi**

Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

THE PARENTAL PERCEPTION AND ATTITUDES TOWARDS THE MANDATORY HUMAN PAPILLOMA VIRUS (HPV) VACCINATION FOR ADOLESCENT GIRLS.

2. **Amal Kayali**, Razan Dalloul, Jumanah Nassar, Houriah Nukay, Shayma Saleh, Dr. Ehab Abo Ali

Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

THE CHEMICAL, ECONOMICAL, AND TECHNOLOGICAL FACTORS BEHIND RECYCLING MATERIALS IN RESPONSIBLE CONSUMPTION AND PRODUCTION

3. **Adnan Sultan**, Yazan Salameh, Abdulrahman AlHussein, Habib Mohammad, Yusuf Abdulwasea

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

DESALINATED WATER CONSUMPTION AND HEALTH RISKS IN SAUDI ARABIA: A LITERATURE REVIEW

4. **Adnan Sultan**, Sayeeda mehveen, Ayesha Jamal, Khadijah Tahir, Atika Abdul Rauf

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

FORMALIN EXPOSURE ASSOCIATED SYMPTOMS AND ADHERENCE TO PERSONAL PROTECTIVE EQUIPMENT CORRELATES IN ANATOMY LABORATORY

5. **Elias Aljouny**, Majd Hussain Almech - Khlood Abdulaziz Alsubaie - Bayan Mohammed Alzoabi

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

ASSESSMENT OF ANALGESIC AND ANTINOCICEPTIVE ACTIVITIES OF SOME MEDICINAL PLANTS

6. **Hazem Gamal Abdallah Mohamed Hussein, Shaimaa G. A. Mohamed**, Hanan Hassan Zaki Khalaf Elmaasrawi, Shaza Abdullah Al Yamani, Badriah Abdullah Abdulkader Hifni, Walid Khalil Mohammad Alhawajreh, Hanan Bin-Thiyab, Wegdan Waghas Bokhari, Mohamed Roshdi Herzalla

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia; Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

THE EFFECT OF ROBOTIC HAND GLOVES VERSUS MIRROR THERAPY ON HAND FUNCTIONS IN STROKE PATIENTS

7. **Ghaida Jehad**, lana anas , Rania ali , Dr Maryam Alsayd

Physical Therapy, Batterjee Medical College, Jeddah, Saudi Arabia

EFFECTS OF GRIPPING THE HEAD OF ULTRASOUND ON PHYSICAL THERAPISTS HANDS STRENGTH

8. **SAMAR Aljilani**, Samar aljilani , Dr.Reem Dawood , Zahraa alnakhly , Mawadah bahrawi , Dana Alghussien , Hauwa Galadanchi

Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia



ARTIFICIAL INTELLIGENCE IMPACT ON HEALTHCARE

09. **Fayza Akil**, Rawa Alsarraf, Saja Alsulaimani, Basma Bakhutma, Fatima Mahgoub, Retaj Tallab, and Mahnoor Khan, **Nadeen Eid**, **Salwa Alahmari**

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

PREVALENT HEALTH ISSUES AMONGST SCHOOL STUDENTS IN JEDDAH: A MULTI-INSTITUTIONAL STUDY.

10. **Saleha Khan**, Samratul Fuadah, Talha Mohammad Zubair, Elias Emad Aljouny, Nadeem Ikram

Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

BULLOUS STRIAE DISTENSAE IN A NEPHROTIC SYNDROME PATIENT: FIRST CASE REPORT IN THE MIDDLE EAST OF A RARE PRESENTATION

11. **Houriah Nukaly**, Sumayyah I Alrefaie, Sarah B Aljoudi, Waseem K AlHawasawi, Jehad O Hariri

Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

THE ARTIFICIAL INTELLIGENCE IMPACT IN THE FUTURE

12. **Mozon Alsubayil**, Rimas alhafithi, Elaf alsubhi, Ghala Al-sahli, Lemar albaladi, Remas Afash and Nour Karkanawianis, **Nadeen Eid**

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

AWARENESS AND PREVALENCE OF IRRITABLE BOWEL SYNDROME AND ITS RISK FACTORS AMONG THE GENERAL POPULATION OF THE WESTERN REGION OF SAUDI ARABIA

13. **NAWAF ALBASHA**, Ahmed Salah, MHD Almasri, Abdulaziz Dhaiban , Basmala Safour , Bushra Bin Saddiq , Reema Alghanmi

Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

COMPREHENSIVE SYSTEMATIC REVIEW OF BREAST IMPLANT ILLNESS: SYMPTOMS, MANAGEMENT, AND LONG-TERM OUTCOMES

14. **Jumanah Nassar**, Abdullah Alqurashi, Ibrahim Abdullah Albalawi, Adnan Osama, Alanoud Hammam

Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

EXPLORING THE RELATIONSHIP BETWEEN SUSTAINABLE UNIVERSITY CAMPUSES AND STUDENT MENTAL HEALTH: A LITERATURE REVIEW

15. **Khaloud Sameer**, Lina Bukhari, Gore Alzahrani, Sariya Khan, Husna Irfan, Sayeeda Mehveen

Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia



THE EFFECTIVENESS OF CHATGPT IN PROVIDING ACCURATE INFORMATION TO PATIENTS REGARDING CANCER-RELATED QUERIES

16. **Nabeeha Awan**, Ammarah Tayyebah, Khaloud Sameer Al-Fallatah, Sumera Nisar
Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

EVALUATING SUSTAINABLE FISHING PRACTICES: BALANCING ECONOMICS NEEDS AND ECOLOGICAL PRESERVATION.

17. **Renad Omar A Bajri**, Marwah Nasir Ahmad
Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

CORRELATION BETWEEN HIGH ACADEMIC PRESSURE AND MENTAL HEALTH DISORDERS

18. **Juwayriyah Nawaz**, Basant Elsharkawy and Aziza Rashidi
Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

IMPACT OF THE PREPARATORY YEAR PROGRAM ON THE STUDENTS OF HEALTH PROFESSIONS IN BATTERJEE MEDICAL COLLEGE, JEDDAH, SAUDI ARABIA

19. Mai Albaik, **Shaza Eldesouky**, Olima Hamada, Layana Alryati, Lamah Musslem, Elaf Alsubhi, Rimas Alhafithi, Mozon Alsubayil, Hazem Hussein, and Osama Rashad Elgendy
Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

KNOWLEDGE, ATTITUDES AND PRACTICES (KAP) OF SELF-MEDICATION AMONG UNDERGRADUATE STUDENTS OF BATTERJEE MEDICAL COLLEGE IN JEDDAH, SAUDI ARABIA

20. **Samia Sabbagh**, Bayan AL Zoabi, Afnan Al-Halabi, Mai Albaik, Nadeem Ikram
Pharmacy program, Preparatory Year Program, and Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

EXPLORING CORRELATION BETWEEN AI AND THE SUSTAINABLE DEVELOPMENT FOR THE HEALTH AND WELLBEING

21. **Aziza Rashidi**, Juwayriyah Nawaz, Basant Elsharkawy
Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

ARE PESCATORIAN DIETS HELPING THE ENVIRONMENT OR MAKING IT WORSE? A LITERATURE REVIEW

22. **Laura Mashtoub**, Judy Mashtoub, Sariya Khan, Ayesha Jamal
Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia



THE POSITIVE IMPACTS OF WALKING TRACKS ON THE OVERALL HEALTH OF YOUNG ADULTS IN KSA: A REVIEW

23. **Shyma Haidar**, Abdulrahman Mansour Alhussain, Lamah Talal, Shahista Raniya Mazher Sultan, Husna Irfantholib, Ayesha Jamal, Ayesha Hanin

Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

DOES THE CONSUMPTION OF PROTEIN SHAKES AMONG ATHLETES HAVE A POSITIVE EFFECT ON MUSCLE MASS?: A REVIEW.

24. **Shyma Haidar**, Ayesha Hanin Shaikh, Ayesha Jamal, Husna Irfan Thalib, Sariya Khan, Sayeeda Mehveen

Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

HEALTH AND WELLBEING

25. **Mohammed Alismail**, Taseer Bashir Hamza Kefi, Abdulaziz Mogarbel

Dentistry Program, Batterjee Medical College, Jeddah, Saudi Arabia

AN APPROACH TO COVID-19 AND ONCOLOGY: FROM IMPACT, STAGING, AND MANAGEMENT TO VACCINE OUTCOMES ON CANCER PATIENTS: A SYSTEMATIC REVIEW AND META-ANALYSIS

26. **Ruqayyah Ahmed**

Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

DOES GENDER AFFECT THE OUTCOMES OF MYOCARDIAL REVASCULARIZATION FOR LEFT-MAIN CORONARY ARTERY DISEASE?

27. **Ruqayyah Ahmed**

Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

EXPOSURE TO ENVIRONMENTAL POLLUTANTS POSES THREAT OF ALZHEIMER'S DISEASE: A LITERATURE REVIEW

28. **Ayesha Hanin Shaikh**, Shyma Haidar, Hajira Mohammed, Saleha Kha

Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

THE PREVALENCE OF OBESITY AND ITS IMPACTS ON HEALTH

29. **Zulaihat Mamman Galadima**

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia



RISK FACTOR ASSESSMENT OF FALLS IN COMMUNITY-DWELLING OLDER ADULTS USING JHFRAT IN JEDDAH: A SINGLE-CENTER STUDY

30. **Shumaila Baig**, Bayan AlZoabi, Samratul Fuadah, Ayda Khraisat, Doaa Turkistani
Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

ENVIRONMENTAL SUSTAINABILITY IN THE FIELD OF SURGERY: A GREENER APPROACH

31. **Ayesha Shaikh**
Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

EVALUATING THE MOST PREVALENT RISK FACTORS ASSOCIATED WITH THE OCCURRENCE OF ALZHEIMER'S DISEASE IN GERIATRIC PATIENTS IN JEDDAH, SAUDI ARABIA

32. **Ameena Manzoor**, Terad Talmesany, Ahmed Hafez Mousa, Rida Sharmeen Khan, Ayesha Shrouq Amin, Sarah Kaleem Ather, Umaira Hoque, Tanveer Khan, Asim AlShanberi
Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

ROLE OF ARTIFICIAL INTELLIGENCE IN OPHTHALMOLOGY: A QUALITATIVE EXPLORATORY STUDY

33. **Ameena Manzoor**, Rida Sharmeen Khan, Ayesha Shrouq Amin, Sarah Kaleem Ather, Sumera Nisar
Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

ANALYSIS OF SHORT PREPARATORY COURSE ON MEDICAL STUDENT'S SELF-EFFICACY

34. **Husna Irfan**, Sariya Khan, Ayesha Jamal, Sayeeda Mehveen, Sumera Nisar
Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

THE INTERPLAY BETWEEN DERMA FILLERS AND COVID 19 VACCINE: A REVIEW

35. **Ayesha Jamal**, Sariya Khan, Sayeeda Mehveen, Husna Irfan Thalib, Ayesha Hanin, Shyma Haidar
Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia



LIFTING OBJECTS AND THE BACK-BENDING ANGLE

36. **Mohammad Fatehi Hasan**, Hanan-Bin Thiyab, Raghad Mohmoud Al Oteibi, Dana Sofian Abou, Doaa Abdulkader Abdulkader.

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

ANTICANCER ACTIVITIES OF GREENLY SYNTHESIZED NANOPARTICLES USING EXTRACT OF TEN PLANTS COMMONLY FOUND IN SAUDI ARABIA: A COMPARATIVE STUDY

37. **Hanan Bin thiyab**, Dr. Mohammed Fathi, Reem Fahad Al Harthi, Maitha Mohammed Althawy

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

ASSESSING THE ACCESSIBILITY OF SHOPPING MALLS IN JEDDAH SAUDI ARABIA.

38. **Olfat Ibrahim Ali**, Maha Nasher, Rival Fadul, Roba Sarhan , Sara Fauzi , Shahd Darraj , Wajd Alahmadi , Yaser Albarakati. Khaled Mohammed Selyman Alhindi

Physical Therapy Program and Occupational Therapy Program, Batterjee Medical College, Jeddah, Saudi Arabia

A UNIQUE PRESENTATION OF KERATOACANTHOMA ON THE SCALP: FIRST A CASE REPORT ON KSA

39. **Norah Abdullah Alghamdi**; Mashaal Taj; Shuaa Alamri; Jamal Taj; Shahad Alshowaikhat; Tariq Jaber; Galia Jdkarim

College of medicine and surgery, Batterjee Medical College, Jeddah, Saudi Arabia; Department Of Medicine, King Faisal Hospital, Makkah, Saudi Arabia; Obstetrics and Gynecology, King Fahad Armed Hospital, Jeddah, Saudi Arabia; Department of Medicine, King Abdelaziz General Hospital, Makkah, Saudi Arabia; Bariatric, Minimal invasive, and General consultant surgery, National Guard-Health Affairs · Jeddah , Saudi Arabia; Breast Oncoplasty, Endocrine, and General Surgery Consultant, National Guard-Health Affairs · Jeddah, Saudi Arabi

EFFECT OF HONEYBEE GUT BACTERIA AND SOME NATURAL COMPOUND ON THE SURVIVAL OF HONEYBEE EXPOSED TO THE INSECTICIDES.

40. **Abdulaziz Ali Al-Humayd** and Khalid Mohammed Al-Ghamdi

Department of biological sciences, Faculty of science, King Abdulaziz University, P.O. Box 80203, Jeddah 21589, Saudi Arabia.



KNOWLEDGE, ATTITUDE, AND PRACTICE (KAP) OF THE PUBLIC ON CARDIOPULMONARY RESUSCITATION IN CASE OF CARDIAC ARREST: A CROSS-SECTIONAL STUDY AMONG MEDICAL AND NON-MEDICAL INDIVIDUALS IN THE REGIONS OF SAUDI ARABIA.

41. **Nawaf Albasha**, Bushra Bin Saddiq, Basmala Safour, Joud Alshowaikhat, Abdulaziz Dhaiban, Ahmed Salah Lin Jolha, Fatma Elsayed Hassan

Medicine Program, Batterjee Medical College, Jeddah, Saudi Arabia

THE ASSOCIATION OF OBSTRUCTIVE SLEEP APNEA AND NOCTURNAL HYPOXEMIA WITH LIPID PROFILES AT A TERTIARY CENTER IN SAUDI ARABIA. A RETROSPECTIVE STUDY

42. **Asayel Matar H Alzahrani**, Lamar Wazira, Hanin Ahmad, Hanin Banjar, Wurood Alharbi, Ebtihal Baghdadi, Ehda Azab, Paris Alhejaili, Siraj O. Wali

Faculty of Medicine, King Abdulaziz University, Jeddah, Saudi Arabia

DISEASE ACTIVITY AND PATIENT CHARACTERISTICS OF RHEUMATOID ARTHRITIS, A TERTIARY CARE CENTER STUDY

43. **Rafah Ghazi, Sami M. Bahlas**, Yasser M. Bawazir, Abdullah M. Alagha, Shahad A. Kenany, Maan M. Almaghrabi, Rafah M. Ghazi

Faculty of Medicine, King Abdulaziz University, Jeddah, Saudi Arabia

THE ABYSS OF DISORDERED EATING AND THEIR ASSOCIATED RISK FACTORS AMONGST STUDENTS IN BATTERJEE MEDICAL COLLEGE, JEDDAH, SAUDI ARABIA

44. **Osama Rashad Elgendy**, Juri Omar, Dana Al-Harbi, Retaj Tallab, Fatima Mahagoub, Judy Ajinah, Nada Afandi, Hazem Hussein

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia

THE INFLUENCE OF VIDEO GAMES ON ACADEMIC ACHIEVEMENT: A STUDY AMONG STUDENTS AT BATTERJEE MEDICAL COLLEGE, JEDDAH, SAUDI ARABIA

45. **Osama Rashad Elgendy**, Fayza Akil, Rawa Alsarraf, Saja Alsulaimani, Basma Bakhutma, Ghala Al-Sahli, Lemar Albaladi, Judy Mashtoub, Hazem Hussein, and Mai Albaik

Preparatory Year Program, Batterjee Medical College, Jeddah, Saudi Arabia



Batterjee Medical College

Prince Abdullah Al-Faisal Street,
North, Jeddah



9200 33923

+966 (12) 656 1111



info@bmc.edu.sa
www.bmc.edu.sa



@bmcjed



Batterjee Medical College
كلية البترجي الطبية