MENTAL HEALTH
Innovation Forum October 2025



FROM IDEA TO IMPACT
Strategies for Innovation in Mental Health for Community Growth

MENTAL HEALTH
Innovation Forum

23 October 2025

Chamber of Commerce in Abha

in collaboration with غرفة أبها ABHA CHAMBER

كلية البترجي الطبية
BATTERJEE MEDICAL COLLEGE
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MENTAL HEALTH

Innovation
Forum October 2025

ABOUT

The Mental Health Innovation Forum **“From Idea to Impact: Strategies for Innovation in Mental Health for Community Growth”** is a pioneering academic platform hosted by **Batterjee Medical College** in collaboration with **Chamber of Commerce in Abha on October 23, 2025**. The forum brings together leading academics, researchers, professionals, and decision-makers to explore recent advances in mental health, foster a culture of research and innovation, and expand collaborative networks across educational and healthcare institutions at the local and regional levels.

The event reflects **BMC’s** commitment to promoting mental well-being and quality of life. It offers an open space for scientific dialogue on modern mental health challenges and innovative multidisciplinary solutions. The forum features scientific sessions, interactive workshops, a student research exhibition, and collaboration platforms for advancement of mental health.

VISION

To be a leading platform for stimulating innovation and translating knowledge into impactful practices and policies that improve mental health and quality of life in communities.

MISSION

To strengthen the bridge between research, innovation, and practice in mental health through interdisciplinary dialogue that enables stakeholders to develop effective and sustainable solutions.

OBJECTIVES

- Foster institutional cultures that support mental wellbeing in work and educational settings
- Promote innovative and research-driven solutions in mental health
- Strengthen regional institutional collaboration to address mental health priorities
- Support SDGs related to health, education, employment, and equity

TARGET AUDIENCE

- Medical professionals (physicians, nurses, psychiatrists, psychologists, social workers)
- Faculty members, students of medical and health sciences, and clinical trainees
- Mental health centers, Non-Governmental Organizations, and the general public
- Innovators and digital health entrepreneurs
- Society organizations and health institutions



FORUM THEMES

- **Psychologically Supportive Educational & Work Environments**
  Developing strategies to promote mental wellbeing in universities and workplaces

- **Childhood and Adolescent Mental Care**
  Enhancing early intervention and prevention strategies during critical developmental stages

- **Justice and Equity in Mental Health Services**
  Ensuring equal access to quality care for all segments of society

- **Multidisciplinary Therapeutic Strategies**
  Showcasing innovative, evidence-based mental health interventions

- **Research and Policy Making**
  Connecting scientific evidence with policy formulation on national and regional levels

- **Digital Innovation in Mental Health**
  Leveraging AI and modern technologies for diagnosis, treatment, and support



FORUM COMMITTEE

Batterjee Medical College Mental Health Forum is organized by both Jeddah and Aseer Research Units in collaboration with the BMC Student Welfare Unit.

FORUM COMMITTEE MEMBERS



Dr. **Ikhlas** Abdulaziz Sindi
Executive Director of Student Engagement,
Batterjee Medical College, Jeddah, Saudi Arabia



Dr. **Fahad** Hamad Balharith
Vice Dean of Academic Affairs
Batterjee Medical College, Aseer, Saudi Arabia



Prof. **Sabrin** R.M. Ibrahim
Professor, Vice Head of Research Unit
Batterjee Medical College, Jeddah, Saudi Arabia



Dr. **Humeda** Suekit Mohammed
Vice Chairman of Research Unit, General Medicine program
Batterjee Medical College, Aseer, Saudi Arabia



Dr. **Mohammed** Elhussiny
Assistant professor of histology and cell biology, General Medicine program
Batterjee Medical College, Aseer, Saudi Arabia



Dr. **Ahmed** Gomaa Zaki
Assistant Professor of psychiatric mental health
Batterjee Medical College, Aseer, Saudi Arabia



Mr. **Osama** Alanazi
Respiratory Care lecturer, Respiratory Therapy program
Batterjee Medical College, Aseer, Saudi Arabia



Ms. **Manar** Algarni
Vice Dean Office Manager, Student Affairs, Psychological Counselor, Student Welfare Unit
Batterjee Medical College, Jeddah, Saudi Arabia



Ms. **Basma** Hassan A Hashem
Research Unit Coordinator
Batterjee Medical College, Jeddah, Saudi Arabia



PANEL DISCUSSION

Innovation in Mental Health

BUILDING SUSTAINABLE COMMUNITIES AND ECONOMIES



Chairperson

Dr. **Ikhlas** Abdulaziz Sindi

Executive Director of Student Engagement,
Batterjee Medical College, Jeddah, Saudi Arabia



Dr. **Hussain** Alemad

Najran University, College of Medicine, KSA



Dr. Joanne Hands

Clinical Director, Kuwait Counseling Center, Clover Center (Mazaya Building), Jabriya, Kuwait



Dr. **Nicola** Cogan

School of Psychological Sciences and Health,
University of Strathclyde, UK



Dr. **Amgad** Talaat

Regional Cluster Head, Evapharma Saudi Arabia

BATTERJEE MEDICAL COLLEGE

CHAMBER OF COMMERCE IN ABHA



Time		
9:00 – 9:50 am	Registration	
9.30 to 9.40	**Dr. Ikhlas Abdulaziz Sindi,** **Executive Director of Student Engagement,** Batterjee Medical Colleges, Saudi Arabia	Opening Remarks

SHEIKH ABDULLAH ABU MALHA HALL - SESSION I

CHAIRPERSON

DR. SAMEER MOHAMMED ALQASSIMI, HEAD OF GENERAL MEDICINE PROGRAM, BATTERJEE MEDICAL COLLEGE, ASEER, SAUDI ARABIA
MR. HASSAN ALTHABET, HEAD OF RESPIRATORY THERAPY PROGRAM, BATTERJEE MEDICAL COLLEGE, ASEER, SAUDI ARABIA

Time	Speaker	Title
10:00 - 10:25	**Dr. Joanne Hands**, PhD, LPC, LMFT Clinical Director, Kuwait Counseling Center, Clover Center (Mazaya Building), Jabriya, Kuwait	Equitable Couples & Family Care at Scale: Culturally Responsive, Bilingual Pathways for Community Mental Health
10:25 – 10:50	**Dr. Nicola Cogan** School of Psychological Sciences and Health, University of Strathclyde, UK	Sentinel: Localising a Digital Mental Health Intervention for Healthcare Workers in Saudi Arabia
10:50 - 11:15	**Dr. Hussain Alemad**, Najran University, College of Medicine, Saudi Arabia	Turning Ideas into Products: The Journey of Autism Bot from Saudi Innovation to Global Recognition
11:15– 11:40	**Dr Maryam Ibrahim Alharbi,** Ph.D. in Counseling Psychology, Taibah University, Saudi Arabia,	Behavioral and Emotional Indicators Analysis Using Artificial Intelligence: The Future of Clinical Psychological Diagnosis
11:40 – 12:05	**Dr. Alhanouf Yamani**, Islamic psychologist Psychologist and family specialist Certified trainer and speaker on happiness and quality of life, Saudi Arabia	Islamic Psychology
12:05 - 12:40	**Panel Discussion**	
12:40 - 13:40	**Poster Session and Break**	

SHEIKH ABDULLAH ABU MALHA HALL - SESSION II

CHAIRPERSON

DR HAMZA HOSEAN AHMED BALOLA, NURSING PROGRAM, BATTERJEE MEDICAL COLLEGE, ASEER, SAUDI ARABIA
DR. EMAN ALBELTAGY, GENERAL MEDICINE PROGRAM, BATTERJEE MEDICAL COLLEGE, ASEER, SAUDI ARABIA

13:40 – 14:05	**Dr. Abeer Saleh Alshehri** , Associate Professor of Psychology, Vice Chair of the Department of Psychology, King Khalid University, Abha, Saudi Arabia	Psychologically Supportive Educational & Work Environments Developing strategies to promote mental wellbeing in universities and workplaces
14:05 – 14:30	**Dr. Khadijah Aboud Al-Moadi Assir**, Associate professor, Department of Psychology, College of Education, King Khalid University, Saudi Arabia	Digital Emotional Intelligence and Its Role in Enhancing Occupational Mental Health
14:30 – 14:55	**Hamdan Salman Abdullallh Alghamdi**, Erada and Mental Health Complex - Erada Service, Senior Social Worker, Addiction Therapist, and Family Counselor, Head of the Rehabilitation and Occupational Therapy Department, Saudi Arabia	The impact of electronic and digital applications on the feasibility of family counseling
14:55 – 15:20	**Ali Mohammed Abuhekmah**, A Senior Clinical Psychologist at Abha Psychiatric Hospital, Abha, Saudi Arabia	Metacognitive Therapy - Therapeutic Strategies and Techniques
15:20 – 15:45	**ABDULLAH MOHAMMED ALDARBA**, Senior Clinical Psychologist, Irada Hospital and Mental Health, Abha, Saudi Arabia	Integrative psychotherapy strategies for patients with schizophrenia and chronic schizophrenia
15:45– 16:14	**Closing, Ceremony and Awards**	

WORKSHOPS

HALL NO. 1

CHAIRPERSON

DR. SAMAH ELSHORA, NURSING PROGRAM, BATTERJEE MEDICAL COLLEGE, ASEER, SAUDI ARABIA

Time	Speaker	Title
11.00-11.40	**Dr. Hanan Ayed Alahmri** Assistant Professor of Psychology, King Khalid University, Saudi Arabia **DR. Rasha Mohammed Alshehri** Assistant Professor of Educational and Psychological Medicine, King Khalid University, , Saudi Arabia **Dr. Fatimah Salem Mohameed Alshehri** Assistant Professor of Family and Marital Psychology, King Khalid University, Saudi Arabia	Keys to Navigating Adolescence: How to Understand and Support Them
11:40 – 12:20	**Dr. Sattam Ahmed Yahyia Jaddoh** Consultant psychiatrist and addiction medicine, Head of Addiction Department – Eradah Mental Health Hospital, Saudi Arabia	Cognitive behavioral therapy for addiction

HALL NO. 2

CHAIRPERSON

DR. SHAIMAA ELBAYAR, NURSING PROGRAM, BATTERJEE MEDICAL COLLEGE, ASEER, SAUDI ARABIA

11.00-11.40	**Bandar Naif Ayidh ALshalawi** Armed Forces Hospital in the South, Head of the Psychology Unit at the Prince Mohammed bin Salman Center for Autism and Developmental Disorders, Saudi Arabia	Innovative Digital Solutions to Support the Mental Health of Children and Their Families
11:40-12.20	**Seham alhalafi** Psychologist, Private Clinic – Ertiqaa Alafkar, Saudi Arabia	Psychological Well-Being in the Digital World
13:40 – 14:20	**Lama Abdulhadi Masoud Al-Qahtani** Azm Specialized Center for Day Care, Saudi Arabia	Digital Innovation in Mental Health: From Idea to Impact



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SPEAKERS



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SPEAKER | First Session

Dr. **Joanne** Hands

PhD, LPC, LMFT

PROFESSIONAL SUMMARY

Dr. Joanne is a Psychologist with a License as a Marriage and Family Therapist (LMFT) and Professional Counselor (LPC), from the state of Louisiana, USA. In addition, she is a Certified Counselor by the American National Board of Certified Counselors (NCC) as well as Certified in Myers Briggs Type Indicator (MBTI) personality inventory. She is the President of the Middle East Psychological Association (MEPA) since 2013, the Clinical Director of Kuwait Counseling Center since 2011, a member of the American Psychological Association (APA), American Counseling Association (ACA), and Venezuelan Federation of Psychologists (FPV). Dr. Joanne graduated with a PhD in Psychology from The Chicago School of Professional Psychology, Chicago Illinois, USA, earned her Master's in Science degree in Clinical Mental Health Counseling from Loyola University, New Orleans Louisiana, USA and her Professional Clinical Psychology degree from The Rafael Urdaneta University in Venezuela. She has over 26 years of experience working with individuals in private practice as well as in educational and corporate settings. She is an experienced bi-lingual (English-Spanish) psychologist whose passion is to promote well-being and personal growth. Dr. Joanne has received several awards and the latest is a Presidential Award by the American Psychological Association for bringing Mental Health in the Middle East to a higher level.

Equitable Couples & Family Care at Scale: **Culturally Responsive, Bilingual Pathways for Community Mental Health**

Abstract

Families are the primary setting where stress, stigma, and healing unfold—yet couples and family services remain hard to access, culturally mismatched, or siloed from community resources. This presentation outlines a stepped-care pathway for equitable couples and family support that Dr. Joanne has refined across private practice, educational, and organizational settings. Grounded in LMFT/LPC practice, bilingual (English–Spanish) delivery, and multicultural competence, the model blends brief evidence-based interventions (emotion-focused skills, solution-focused tasks) with practical adaptations for diverse cultural norms, extended family roles, and faith/community interfaces.

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SPEAKER

Dr. **Nicola** Cogan

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

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.

Sentinel: **Localising a Digital Mental Health Intervention for Healthcare Workers in Saudi Arabia**

Abstract

Healthcare workers worldwide are at heightened risk of stress, burnout, and trauma exposure due to the demands of frontline practice. Sentinel is a trauma-informed, AI-enabled digital mental health intervention co-created with health and social care workers to provide personalised, evidence-based, "in-the-moment" support. Having been piloted in the UK with promising results, Sentinel is now undergoing Arabic translation and cultural localisation to ensure relevance and resonance in the Saudi context. This process involves not only linguistic adaptation but also co-creation with Saudi healthcare partners to align with cultural values, language nuance, and system-specific needs. This presentation will outline the scientific foundations of Sentinel, drawing on frameworks of psychological safety, trauma recovery, and digital health innovation. It will also describe the methodology of translation and localisation, and provide an overview of the upcoming Saudi pilot study. The aim is to highlight how global evidence can be meaningfully adapted to local contexts to enhance mental health support and resilience for healthcare workers in Saudi Arabia.

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SPEAKER | First Session

Dr. **Hussain** Alemad

Consultant Psychiatrist, College of Medicine, Najran University, KSA

PROFESSIONAL SUMMARY

Dr. Hussain Alemad is a Consultant Psychiatrist, Consultant Child and Adolescent Psychiatrist and Consultant Cognitive Behavior Therapist. He also has a fellowship in Innovation and Health Systems Improvement from New Zealand. His innovative e-health project was nominated in June of 2025 as one of the top 20 E-Health projects in the world and received international recognition in Switzerland under the umbrella of the United Nations World Summit for Information Society. He works as an associate Professor of Psychiatry at Najran University, College of Medicine and is an honorary associate professor of Psychiatry at the University of Auckland, college of medicine in New Zealan. He trained in New Zealand, where he completed his Bachelor of Medicine and Surgery and obtained fellowships in General Psychiatry, Child and Adolescent Psychiatry, and Cognitive Behavioral Therapy with the Royal Australian and New Zealand College of Psychiatrists during which he completed a PhD in Psychiatry at the University of Auckland. Dr Al Emad has authored many research papers which were published in international journals and serves as a reviewer in multiple international journals. His main interest is in using technology to enhance mental health applications and is considered as an international scholar in this field.

Turning Ideas into Products: **The Journey of Autism Bot from Saudi Innovation to Global Recognition**

Abstract

Autistic children and their parents are considered one of the most vulnerable groups given the nature of Autistic disorder. In its 2022 release, the Lancet Commission prioritized funding ASD-related research activities in developing applied, easy-to-access, and evidence-based interventions to address ASD complex needs. The report urged national and international research to develop such efforts to cater to the increasing burden on clients, their families, communities, and healthcare systems. In this lecture, I will give an outline of what is innovation from an idea to product and how to incubate innovative ideas, design them and acquire the needed institutional support to make them into reality. I will highlight how theory can inform designing innovative projects and how funding grants can be sought and applied for. I will explore the journey of Autism Bot as a Saudi example of how an idea can reach the global stage

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SPEAKER | First Session

Dr. **Maryam** Ibrahim Alharbi

Ph.D. in Counseling Psychology, Taibah University

PROFESSIONAL SUMMARY

Holds a Ph.D. in Counseling Psychology from Taibah University and is certified by the American Board in Mental Health. She currently works at Mohammed Al-Thuqfan Medical Complex, serves as a psychological and family counselor, and supervises specialists at Masarat Center for Psychological and Family Counseling. Her professional interests include mental health promotion and family counseling.

Behavioral and Emotional Indicators Analysis Using Artificial Intelligence **The Future of Clinical Psychological Diagnosis**

Abstract

Still, relying entirely on artificial intelligence for psychological diagnosis raises essential ethical and professional concerns. Human clinical expertise remains vital for interpreting results within the patient's personal and social context and for ensuring sensitivity to individual and cultural differences. This is where the concept of Hybrid Intelligence emerges—a model that blends the analytical power of intelligent systems with the clinician's intuition and clinical judgment, creating a more balanced, comprehensive, and human-centered approach to diagnosis.

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SPEAKER | First Session

Dr. **Alhanouf** Yamani

Islamic psychologist and family specialist Certified trainer and speaker on happiness and quality of life

PROFESSIONAL SUMMARY

Dr. Alhanouf Yamani is an Islamic psychologist and family specialist who integrates faith-based perspectives with modern psychological approaches. As a certified trainer and accomplished speaker, she is dedicated to promoting happiness, resilience, and quality of life for individuals, families, and communities. Her professional work emphasizes the role of Islamic psychology in addressing mental health challenges, strengthening family bonds, and enhancing well-being.

Islamic psychology

Abstract

More than 1,400 years ago, Islam offered clear and profound guidance for achieving sound mental health and overall well-being. These teachings remain timeless, providing a holistic framework for resilience, balance, and fulfillment. In this lecture, Dr. Alhanouf will explore key Islamic principles that support mental health and demonstrate how they can be applied in today's world to build stronger mental resilience, healthier families, and a higher quality of life.

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SPEAKER | First Session

Abeer Saleh Alshehri

Associate Professor Psychology, Vice Chair of the Department of Psychology, King Khalid University, Abha, KSA

PROFESSIONAL SUMMARY

Dr. Abeer is an Associate Professor of Psychology at King Khalid University, where she also serves as Vice Chair of the Department of Psychology. She practices as a psychotherapist at the University Medical City and has extensive experience as a peer reviewer for several Arab and international scientific journals. In addition, she is an active member of multiple scientific and community-based associations, as well as the Mental Health Promotion Committee at King Khalid University. Dr. Abeer has a strong interest in training and has delivered numerous courses in mental health and personal development. Her clinical expertise includes working with mood and anxiety disorders and promoting mental health among adolescents, university students, and adults.

Psychologically Supportive Educational & Work Environments Developing strategies to promote mental wellbeing in universities and workplaces

Abstract

This presentation highlights the importance of fostering psychologically supportive educational and professional environments, recognizing mental health as a cornerstone of quality of life and academic and professional success. Supportive environments help reduce levels of anxiety and depression while enhancing motivation, engagement, and creativity, which positively impact performance. The presentation covers key areas, including the characteristics of supportive environments and the challenges that hinder mental health promotion, while offering practical strategies for universities and workplaces, such as establishing psychological support units, training academic staff, integrating mental health skills into curricula, adopting Employee Assistance Programs (EAP), promoting flexible work schedules, raising awareness, and providing safe work environments. It also emphasizes the need to integrate mental health into institutional strategies, strengthen research and partnerships with official bodies, and promote a culture of well-being. The presentation concludes by affirming that investing in mental health is an investment in more balanced and prosperous communities, encouraging participants to create a mind map of the ideal supportive environment.

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SPEAKER | Second Session

Dr. **Khadijah** Aboud Al-Moadi Assir

Associate professor, Department of Psychology, College of Education,
King Khalid University, KSA

PROFESSIONAL SUMMARY

Dr. Khadijah Al-Moadi Assiri is an Associate Professor of Counseling and Mental Health at King Khalid University and a member of the University's Mental Health Promotion Committee. She has contributed significantly to the field through her published research on various aspects of mental health, including emotional chemistry as a predictive indicator of psychological fitness among administrative and technical staff at King Khalid University, and persuasive techniques used to promote mental health in infographic posts: an analytical study of the Qareboon Application (2023) in Saudi Arabia. Her scholarly work also includes studies on the effectiveness of a brief counseling program based on mindful understanding in enhancing psychological recovery among orphaned girls in the Asir Region, as well as cognitive insight and coping strategies for psychological hardship and their relationship to life enjoyment among female university students in Saudi Arabia.

Digital Emotional Intelligence and Its Role in Enhancing Occupational Mental Health

Abstract

This presentation defines digital emotional intelligence as one of the emerging dimensions in promoting mental health and highlights the importance of digital emotional communication skills within workplace and educational settings. It also addresses the psychological challenges that arise from low digital emotional awareness and proposes practical mechanisms for integrating digital emotional intelligence into training and professional development programs, ultimately contributing to healthier and more resilient professional environments.

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SPEAKER | Second Session

Hamdan bin Salman bin Abdullah Al-Ghamdi

Senior Social Worker – Eradah Mental Health Complex CEO – Al-Hayat Risalah
Association for the Care and Rehabilitation of Addiction Patients and Their Families

PROFESSIONAL SUMMARY

Mr. Hamdan bin Salman bin Abdullah Al-Ghamdi holds two Master's degrees, one in Sociology – Rehabilitation and Social Care and another in Sports Management, and is also a certified addiction therapist. Alongside his clinical work, he serves as Editor-in-Chief of the television program Family Harmony on Zad Scientific Channel (Season 2), with preparations underway for Season 3. Al-Ghamdi is an active media figure in both sports and social commentary, with over 300 published articles in Al-Riyadi and Al-Yaum – Al-Maydan Al-Riyadi. He has delivered more than 200 awareness lectures on family and addiction, and has participated in conferences, seminars, and research collaborations with institutions such as Batterjee Medical College and Northern Border University. His contributions include five medical conferences, three scientific seminars, and five research papers on social responsibility. He is a certified trainer by both the Saudi Commission for Health Specialties and the Technical and Vocational Training Corporation, having delivered over 50 training courses in social work, human resource development, and journalistic writing. He also works as a family counselor and addiction therapist through the Labaih App for Family Counseling, where he was recognized in 2023 as one of the top ten consultants. Al-Ghamdi is the founder of the Family Harmony Center App for family counseling and addiction treatment. Over the course of his career, he has received more than 150 honorary shields and 100 certificates of appreciation. He is currently authoring a book titled: "Social Work in the Field of Addiction."

The impact of electronic and digital applications on the feasibility of family counseling

Abstract

Strategies to enhance mental health and well-being rely on an integrated mix of therapeutic, social, and preventive approaches. Evidence-based psychological treatments, such as Cognitive Behavioral Therapy (CBT) and Dialectical Behavior Therapy (DBT), have proven effective in addressing depression, anxiety, and other mental health disorders. Digital technology also plays a pivotal role through the use of mobile applications and online platforms that provide remote psychological support and real-time interaction with specialists. Equally important is the role of nutrition in mental health, with diets rich in omega-3 fatty acids, fruits, and vegetables contributing to improved mood and reduced anxiety and depression. Family and social support are critical in assisting individuals facing psychological difficulties or family disintegration, alongside the need for greater investment in scientific research on individual, family, and social integration. Furthermore, interdisciplinary collaboration among mental health and community professionals is essential to reduce social stigma and strengthen family and community mental health. Leveraging technology can also expand access to services for individuals and families coping with co-occurring conditions such as substance use disorders. Finally, telephone counseling remains a highly effective intervention, enabling professionals to gather and verify information while providing timely recommendations and guidance.



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SPEAKER | Second Session

Ali Mohammed Abuhekmah

A Senior Clinical Psychologist at Abha Psychiatric Hospital, Abha, Saudi Arabia

PROFESSIONAL SUMMARY

A Senior Clinical Psychologist at Abha Psychiatric Hospital (July 27, 2006–present), previously serving as a Clinical Psychologist at the Comprehensive Rehabilitation Center–Abha (December 23, 2003–July 26, 2006). Scientific and academic contributions include invited speaker roles on the Fundamentals of Interpersonal Psychotherapy (Hayat National Hospital, 2018); Fundamentals of Cognitive Behavioral Therapy (Training Health Asir, 2015); Cognitive-Behavioral Therapy for Obsessive-Compulsive Disorder (Training Health Asir, 2015); participation as a speaker in the CME/PD activity “New Updates of Psychiatry” (2014); participation in the First National Conference for Clinical Psychology at the Institute of Neuroscience at King Fahd Medical (2014); contribution to World Obesity Day activities at King Fahd University in Khobar (2013); and a presentation on Clinical and Counseling Psychology with HIV Patients (Training Health Asir, 2011).

Metacognitive Therapy : **Therapeutic Strategies and Techniques**

Abstract

Metacognitive Therapy (MCT) is a structured, evidence-based psychological intervention developed to address emotional disorders by targeting dysfunctional metacognitive beliefs and maladaptive thinking styles. Unlike traditional cognitive-behavioral approaches that emphasize the content of thoughts, MCT focuses on the processes of thinking—particularly worry, rumination, threat monitoring, and attentional biases—that maintain psychological distress. This therapy is grounded in the Self-Regulatory Executive Function (S-REF) model, which conceptualizes psychopathology as a result of the Cognitive Attentional Syndrome (CAS), a maladaptive pattern of perseverative thinking and coping strategies. Core therapeutic strategies include attention training techniques, detached mindfulness, metacognitive questioning, and modification of positive and negative metacognitive beliefs. By reducing reliance on unhelpful coping styles and restructuring beliefs about thinking itself, MCT aims to enhance flexible self-regulation and restore cognitive control. Research demonstrates the efficacy of MCT across a range of conditions, including anxiety disorders, depression, post-traumatic stress disorder, and obsessive-compulsive disorder, with outcomes often showing rapid and enduring improvement. The therapy is typically brief, highly focused, and transdiagnostic, making it adaptable to diverse clinical presentations. Overall, Metacognitive Therapy represents a paradigm shift in psychological treatment, offering clinicians a practical set of strategies and techniques to interrupt maladaptive cognitive cycles and foster long-term emotional resilience.



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SPEAKER | Second Session

Abdullah Mohammed Aldarba

Senior Clinical Psychologist, Irada Hospital and Mental Health, Abha, KSA

PROFESSIONAL SUMMARY

Mr. Abdullah Mohammed Aldarba is a Senior Clinical Psychologist at Irada and Mental Health Hospital in Abha, Saudi Arabia. He holds a Master’s degree in Psychology from Bangor University, College of Health and Behavioral Sciences, United Kingdom, and is currently a PhD researcher at the Faculty of Arts, Mansoura University, Egypt. His professional expertise covers the assessment and treatment of psychological disorders in both adults and adolescents. In addition to his clinical work, he serves as Supervisor of Psychological Services at Al-Najah Hospital in Riyadh and provides psychotherapy at the Specialized Medical Complex. Mr. Aldarba has actively participated in numerous national and international conferences and training courses in the field of mental illness and has been a recognized media influencer through multiple television interviews on topics related to psychology

Integrative psychotherapy strategies for patients with schizophrenia and chronic schizophrenia

Abstract

This paper explores integrative psychotherapy strategies for patients with schizophrenia and chronic schizophrenia, aiming to provide an overview of diagnostic foundations and key therapeutic techniques. It emphasizes the combination of pharmacological, psychological, and social interventions to achieve optimal treatment outcomes and improve patients’ functional adaptation. The study highlights the supportive tools that can be incorporated into therapeutic programs, alongside practical applications that enhance quality of life and reduce relapse rates. Furthermore, it reviews recent studies and research demonstrating the effectiveness of integrative psychotherapy in alleviating symptoms and promoting psychological and social stability in patients with schizophrenia

WORKSHOPS



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SPEAKER

Dr. **Hanan** Ayed Alahmri

Assistant Professor of Psychology, King Khalid University

PROFESSIONAL SUMMARY

Dr. Hanan is an Assistant Professor of Psychology at King Khalid University and a practicing psychotherapist at the University Medical City. She also serves as a consultant at the University's Counseling and Therapy Center. With a diverse academic and professional background, she has contributed as a reviewer for peer-reviewed scientific journals.

She has a strong commitment to training and awareness, having designed and delivered numerous programs and workshops in mental health and personal development. In addition, she plays an active role as a member of the Mental Health Promotion Committee at King Khalid University. Clinically, her practice focuses on evidence-based interventions for anxiety disorders, adjustment problems, and depression, with particular expertise in supporting the mental health of adolescents, university students, and adults.



SPEAKER

Dr. **Rasha** Mohammed Alshehri

Assistant Professor of Educational and Psychological Medicine at King Khalid University

PROFESSIONAL SUMMARY

Assistant Professor of Educational and Psychological Medicine at King Khalid University. I have held administrative positions at the Talent and Creativity Center, the Creative Awareness Unit, and extracurricular activities at the university. I am interested in the field of training, as there are many specialists in the fields of medical mental health. I have obtained professional training in professional training from the National Institute for Professional Educational Development. I have numerous scientific research papers and articles published in peer-reviewed scientific journals, and I have published a book specializing in psychological counseling programs.

SPEAKER

Dr. **Fatimah** Salem Mohameed Alshehri

Assistant Professor of Family and Marital Psychology, King Khalid University, and a licensed psychologist

PROFESSIONAL SUMMARY

Assistant Professor of Family and Marital Psychology at King Khalid University, and a licensed psychologist. She has delivered a number of training courses, most notably on family interventions in addiction treatment, and has contributed to the publication of several scientific research papers in peer-reviewed journals. She is also the author of an awareness book specializing in family and marital relationships.

Keys to Navigating Adolescence: **How to Understand and Support Them**

Abstract

The workshop aims to enhance parents' and teachers' awareness of the importance of early intervention and prevention during childhood and adolescence, by highlighting early signs of psychological and behavioral difficulties and providing participants with practical strategies to identify and address them effectively.It also seeks to empower families and schools to adopt supportive psychological and social practices that foster healthy development, in addition to promoting collaborative partnerships between health and educational sectors to ensure the sustainability of preventive programs and the advancement of mental health during these sensitive developmental stages.



SPEAKER

Dr. **Sattam** Ahmed Yahyia Jaddoh

Consultant psychiatrist and addiction medicine, Head of Addiction Department
Eradah Mental Health Hospital, Saudi Arabia

PROFESSIONAL SUMMARY

Dr. Sattam is a Consultant Psychiatrist and Addiction Medicine Specialist, serving as the Head of the Addiction Department at Eradah Mental Health Hospital. He is also Chairman of the Forensic Psychiatry Committee in Jazan, Chairman of the Board of Directors of the Association for Drug Harm Awareness, and Chairman of the Board of Directors of the Sawab Association for Addiction Recovery. Dr. Sattam brings extensive expertise in forensic psychiatry, addiction treatment, and community awareness, with significant contributions to preventive and therapeutic programs that promote mental health and combat addiction at both individual and community levels.

Cognitive behavioral therapy for addiction

Abstract

This workshop introduces the core principles of Cognitive Behavioral Therapy (CBT) as an evidence-based approach for substance and behavioral addictions. We'll show how thoughts, emotions, and cues drive craving and use, and how CBT builds practical skills—trigger mapping, cognitive restructuring, coping strategies, and relapse-prevention planning. Through brief demonstrations and case vignettes, participants will learn actionable tools they can apply in clinical and campus settings to support safer, sustained change.



SPEAKER

Bandar Naif Ayidh ALshalawi

Armed Forces Hospital in the South, Head of the Psychology Unit at the Prince Mohammed bin Salman Center for Autism and Developmental Disorders, Saudi Arabia

PROFESSIONAL SUMMARY

Mr. Bandar Naif Ayidh Alshalawi is a psychologist at the Armed Forces Hospital in the South. He holds a Bachelor's degree in Psychology from King Saud University and is a Board-Certified Assistant Behavior Analyst (QASP-S) under supervision. He currently serves as Head of the Psychology Unit at the Prince Mohammed bin Salman Center for Autism and Developmental Disorders and as a collaborating psychologist at Ertiqa Al-Afkar Center for Family Counseling. Specializing in psychological interventions for children and adolescents, he has nine years of professional experience in developmental disorders and therapeutic interventions targeting young populations.

Innovative Digital Solutions to Support the Mental Health of Children and Their Families

Abstract

Children's and families' mental health forms the foundation of healthy and thriving communities. This workshop emphasizes the critical role of creating psychologically supportive educational and professional environments that reduce anxiety and depression, enhance motivation and engagement, and foster creativity alongside academic and professional performance. It will focus on three key areas: (1) the characteristics of supportive environments and strategies to ensure well-being and enable individuals to reach their potential; (2) the challenges and barriers that hinder mental health promotion, with practical approaches to address them; and (3) actionable interventions in universities and workplaces, such as establishing psychological support units, training staff, integrating mental health skills into curricula, adopting employee assistance programs, implementing flexible working hours, launching awareness initiatives, and providing safe and stimulating environments.

Additionally, the workshop introduces innovative digital solutions to support children's and families' mental health, including interactive educational platforms, smart applications for real-time monitoring and support, and digital tools that empower parents to effectively manage children's emotional and behavioral challenges.

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SPEAKER

Seham Alhalafi

Psychologist, Private Clinic Ertiqaa Alafkar, Saudi Arabia

PROFESSIONAL SUMMARY

Seham Alhalafi is a licensed psychologist accredited by the Saudi Commission for Health Specialties, specializing in the treatment of psychological and behavioral disorders. She is passionate about advancing thought, behavior, and emotions, and is dedicated to helping individuals overcome psychological challenges while enhancing their overall quality of life. Her practice focuses on applying evidence-based therapeutic approaches to ensure effective and lasting outcomes.

Psychological Well-Being in the Digital World

Abstract

This workshop explores how our always-online lives shape mood, attention, relationships, and resilience. We'll examine benefits and risks of social media and AI-driven platforms, digital fatigue, and privacy stressors and translate evidence into practical habits. Participants will leave with simple, science-based tools for digital balance at work, home, and study.

Batterjee Medical College
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Innovation Forum October 2025

SPEAKER

Lama Abdulhadi Masoud Al-Qahtani

Psychologist – Azm Specialized Center for Daycare

PROFESSIONAL SUMMARY

Lama Al-Qahtani is a psychologist at Azm Specialized Center, specializing in providing therapeutic services and psychological support for children and adults with disabilities. She has practical experience in designing and implementing innovative therapeutic programs that integrate technology into psychological practice, such as the use of interactive applications and digital platforms to enhance communication and therapeutic support.

Through her work, she strives to integrate digital innovation into the development of mental health services in alignment with Saudi Vision 2030 and the Sustainable Development Goals (SDGs), with a strong focus on quality of life and community empowerment. She has also participated in training and awareness initiatives aimed at raising psychological awareness in the community and promoting modern professional practices in the field.

Digital Innovation in Mental Health: From Ideas to Impact

Abstract

This workshop explores the role of digital innovation in advancing mental health services by leveraging modern technologies such as artificial intelligence and digital applications to support diagnosis, treatment, and psychological follow-up. It showcases both local and global models of digital mental health applications, highlighting how these solutions can be integrated into therapeutic and educational settings. The aim is to demonstrate the impact of digital transformation in expanding access to equitable and effective psychological services, enhancing quality of life for individuals and communities, and shedding light on the challenges and future opportunities in this field.

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Innovation Forum October 2025

POSTER



HEALTH AND SOCIAL CARE PROFESSIONALS' EXPERIENCE OF PSYCHOLOGICAL SAFETY WITHIN THEIR OCCUPATIONAL SETTING: A THEMATIC SYNTHESIS REVIEW.

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1- Nicola Peddie, Josephine Hoegh, Gemma Rice, Shruti Shetty, Aoife Ure, Nicola Cogan.

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RELATIONSHIP BETWEEN THE PERCEIVED ACADEMIC SELF-EFFICACY, SELF-RATING ACHIEVEMENT AND ACADEMIC ACHIEVEMENT AMONG PRIMARY SCHOOL STUDENTS

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2- Hend Wageh Abozed, Safaa Gomaa AhmedAbu El Soud, Nesma Ahmed Kamel Farag,

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CURRENT UPDATES ON GENETIC TESTING AND SCREENING METHODS FOR ALZHEIMER'S DISEASE: REVIEW ARTICLE

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3- Saifaleslam Mahmoud,Zainab Yusuf, Husna Irfan Thalib, Mohamed Hossam Abouassad, Faisal Makki, Basil Saud Almutairy, Saifaleslam A Mahmoud, Asim M Alshanberi, Shakeel Ahmed Ansari

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HEALING THE MIND WHILE TREATING THE BODY: AN INNOVATIVE APPROACH TO BOOST SELF-ESTEEM AND SELF-EFFICACY IN CHILDREN ON HEMODIALYSIS

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4- Dr.Ahmed Gomaa Zaki, Prof. Ghada Mourad

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EXAMINING THE MENTAL HEALTH AND QUALITY OF LIFE OF MOTHERS WITH CHILDREN WHO UNDERWENT SURGICAL CORRECTION OF CONGENITAL HEART DEFECTS IN QASSIM, SAUDI ARABIA, AND ITS INFLUENCE ON CHILDCARE.

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5- Bandar Abuageelah, Alahmed Saleh, Osama Alrussani, Khalid Alameer,Raghad Alhojailan, Reema Alharbi, Raghad Alkhalifah, Reema Alkhalifah, Rose Alharbi

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TH EFFECT OF BENSON'S RELAXATION THERAPY ON PRE-CESAREAN SECTION FEAR AND ANXIETY AMONG NULLIPAROUS WOMEN

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6- Samah Elshora , Hanan Elsayed , Nagwa Ibrahim Alfishawy ,Hend Abdelmagid

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FACTORS ASSOCIATED WITH FEAR OF CHILDBIRTH: IT'S EFFECT ON WOMEN'S PREFERENCE FOR ELECTIVE CESAREAN SECTION

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7- Samah Elshora , Suzan Elsaid Mansour ,Nahid Fikry Hassan

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EFFECT OF MUROTTAL AL-QUR'AN THERAPY AND FINGER HANDHELD RELAXATION TECHNIQUE ON POSTOPERATIVE PAIN AND SELF-ESTEEM AMONG WOMEN WITH GYNECOLOGICAL CANCERS

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8- Shaimaa Elbayar , Om hasim mahmoud saadoon , Reda abdelhady , El-shaimaa El-Ansary

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CO-CREATION AND EXPERT EVALUATION OF A TRAUMA CONVERSATION SIMULATOR: DEVELOPING AN AI-BASED TRAINING TOOL TO SUPPORT TRAUMA-INFORMED PEER DIALOGUE

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9- Nicola Cogan, Ross O'Hara, Hakan Turan, Erin MacKay, Sotirios Terzis, Alison Kirk, William Hodgson, Spence Whittaker, Dawn Orr, Donald MacIntyre, Patricia Graham, Hannes De Kock, Linda Irvine Fitzpatrick, Susan Rasmussen, Christoph Graf Rodriguez.

University of Strathclyde; NHS 24; NHS Lanarkshire; NHS Highlands

DEVELOPMENT OF AN INNOVATIVE SOFTWARE SIMULATION FOR CREATING THE COMPOSITE ANXIETY INDEX (C.A.I) THROUGH COMPUTATIONAL INTEGRATION OF HRV AND GSR.

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10- Mohamed Ibrahem Mohammed Assiri

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DEVELOPING GUIDANCE FOR NURSING STAFF TO IDENTIFY AND MANAGE THE MENTAL HEALTH OF PATIENTS PRESENTING TO THE EMERGENCY DEPARTMENT IN KING KHALID EMERGENCY DEPARTMENT IN RIYADH REGION OF SAUDI ARABIA: AN EXPERIENCE-BASED CO-DESIGN APPROACH

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11- Ashwaq Alblowi

College of Nursing-North Border University, College of Nursing-University of Birmingham

CORRELATIONS BETWEEN OVERWEIGHT/OBESITY AND MENTAL HEALTH DISORDERS AMONG PATIENTS ADMITTED TO THE PSYCHIATRIC UNIT AT SAUDI GERMAN HOSPITAL-ASEER BRANCH

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12- MOHAMMED FAGEER , Fatima Mohamed, Aseel Emadudin Salman, Aya Abdalla Ibrahim, Saliha Mujib Saeed , Humeda Suekit Ahmed

General Medicine Practice Program, Batterjee Medical College, Aseer, Saudi Arabia

ASSOCIATION BETWEEN SLEEP QUALITY AND ACADEMIC PERFORMANCE AMONG UNDERGRADUATE MEDICAL HEALTH SCIENCES STUDENTS: A CROSS-SECTIONAL STUDY

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13- Abdulkhalig A Alhefzy , Najeeb M Alqahtani , Salihah M Alshahrani , Omar Alharthi, Muhannad Alharbi.

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EMOTIONAL INTELLIGENCE, PERCEIVED STRESS, AND BURNOUT AMONG MEDICAL STUDENTS IN SAUDI ARABIA: A STRATIFIED CROSS-SECTIONAL STUDY

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14- Asrar Garsan Alqahtani, Bandar M. Abuageelah, Khalid Alameer,Bader Almantashri, Hala Alshehri, Yara Jahlan, RTeem Altaweel, Rinas Majrashi,Ahmed Bishi, Mohammed Elhussiny, Abdullah Almilbary

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THE PREVALENCE AND ACADEMIC CONSEQUENCES OF BURNOUT AMONG MEDICAL AND HEALTH SCIENCES STUDENTS: A CROSS-SECTIONAL STUDY AT BATTERJEE MEDICAL COLLEGE, SAUDI ARABIA

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15- Abdulkhalig Alhefzy, Najeeb M Alqahtani , **Salihah M Alshahrani ,** Omar Alharthi, Muhannad Alharbi , Khaled W Al Assiri , Bandar W Al Assiri.

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PREVALENCE AND DETERMINANTS OF DEPRESSION, ANXIETY, STRESS, AND BARRIERS TO MENTAL HEALTH SERVICES AMONG MEDICAL AND HEALTH SCIENCES STUDENTS: A CROSS-SECTIONAL STUDY.

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16- Shaimaa Mohamed Hassan , Najeeb M Alqahtani, Salihah M Alshahrani, Abdulkhalig A Alhefzy, Khaled W Al Assiri , Bandar W Al Assiri , Omar S Alharthi, Muhannad M Alharbi

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

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17- Mai syed Batal , Amal Farhat

Department of Nursing Batarjee Medical College Aseer Khamis Meshiet Saudi Arabia

ASSESSMENT OF CAFFEINE CONSUMPTION BEHAVIOR AMONG JAZAN UNIVERSITY STUDENTS IN THE SOUTH OF SAUDI ARABIA: A CROSS-SECTIONAL STUDY

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18- Mona Alfaifi, Ibrahim Gosadi, Shatha Alfaifi, Aseel Alfaifi, Mohammed Shajeri, Hana Alsam, Faisal Tawhri, Bander Abuageelah

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MENTAL HEALTH
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EXHIBITIONS

جمعية التنمية الأسرية بعسير (أمال)
Family Development Association (Amaal)

مركز عزم التخصصي
Azm Specialist Center

جمعية آباء يدكم الحانية
جمعية آباء لرعاية الأيتام بمنطقة عسير
A'ABA ORPHANS' WELFARE SOCIETY IN ASIR

جمعية صواب جازان
لتأهيل وتوعية ورعاية المتعافين من المخدرات
SAWAB FOR ADDICTION REHABILITATION AND PREVENTION
مسجلة برقم 1962

إرتقاء للإرشاد الأسري
إرتقاء الافكار للارشاد الاسري
FAMILY GUIDANCE

جمعية التوعية بأضرار المخدرات
بمنطقة جازان

عبور
رعاية وتأهيل
Rehabilitation & Care

جمعية مطمئنة
اطمئن معنا

تبصّر
لأن وعيك بالأدوية يصنع الفرق





كليـــة البتـــرجي الطبـــية
BATTERJEE MEDICAL COLLEGE

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Batterjee Medical College

Medical Education and Lifestyle



BMC SCIENTIFIC Research Forum

Feb | 2025

SMART HEALTH

AI-Powerd Research And Healthcare Solution

06th of February 2025

BMC

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BATTERJEE MEDICAL
College

MEDICAL EDUCATION
and Lifestyle!

ABOUT

In alignment with Saudi Vision 2030, which aims to diversify the economy and enhance key public services sectors such as health, education, and technology, Batterjee Medical College proudly host the Scientific Research forum “ Smart Health: AI-Powered Research and Healthcare Solutions” on 6th February 2025. As Saudi Arabia aspires to become a global hub for technological innovation and a leader in sustainable practices, this forum underscores BMC commitment to this vision by exploring the transformative potential of artificial intelligence (AI) in healthcare and sustainable development, making this forum a critical step toward achieving these ambitious goals. The event will bring together researchers, healthcare professionals, experts, and community leaders to share insights, foster collaboration, and drive innovative solutions that align with the Saudi Vision 2030 and Sustainable Development Goals.

5 | Smart Health AI-Powered Research and Healthcare Solutions 06 Feb, 2025



VISION

To become the premier forum for the convergence of AI, healthcare, and sustainable development, driving transformative innovations that improve human health and promote sustainable practices.

MISSION

To foster innovative research and promote the development of AI-driven solutions that enhance health outcomes and contribute to sustainability.

GOALS

- Increase awareness of the potential of AI to address pressing healthcare and sustainability issues.
- Facilitate interdisciplinary collaboration among researchers, healthcare professionals, and industry leaders to drive innovation in AI applications for healthcare and sustainable development.
- Highlight cutting-edge research and technological advancements in AI that have the potential to transform healthcare practices and support sustainable development goals.
- Provide a platform for sharing insights, best practices, and case studies related to AI in healthcare.
- Identify and discuss the ethical, regulatory, and practical challenges associated with implementing AI in healthcare and sustainable practices and explore solutions to these challenges.
- Encourage the submission and discussion of high-quality research papers that contribute to the body of knowledge in AI-driven healthcare and sustainable development.
- Build and strengthen partnerships between national and international institutions, fostering collaboration on AI research and development projects that align with Saudi Vision 2030 and global sustainability goals.

KEY THEMES AND TOPICS

The forum will cover a broad range of topics, including:

- **AI in Medical Imaging and Diagnostics**
  - Machine learning algorithms for early disease detection.
  - AI applications in radiology and pathology.
  - Improving diagnostic accuracy and speed with AI.
- **AI in Healthcare Management and Operations**
  - Optimizing hospital operations with AI.
  - AI in supply chain management for healthcare.
  - Enhancing patient flow and resource allocation through AI.
  - Tailoring healthcare interventions based on AI-driven insights.
- **AI for Drug Discovery and Development**
  - Accelerating drug discovery with AI.
  - AI in clinical trials and drug repurposing.
- **Ethical and Regulatory Aspects of AI in Healthcare**
  - Addressing ethical challenges in AI implementation.
  - Regulatory frameworks for AI in healthcare.
  - Ensuring data privacy and security in AI applications.
- **AI in Telemedicine and Remote Care**
  - Enhancing telemedicine with AI technologies.
  - Remote patient monitoring and AI-based interventions.
- **AI and the Sustainable Development Goals (SDGs)**
  - AI contributions to achieving SDG 3 (Good Health and Well-being).
  - AI for reducing inequalities (SDG 10).
  - Promoting sustainable cities and communities through AI (SDG 11).



TARGETED AUDIENCE

- **Researchers and Academics**
  Individuals involved in AI research, healthcare innovations, and sustainable development.
- **Healthcare Professionals**
  Doctors, nurses, and other medical staff interested in AI applications in diagnostics, treatment, and healthcare management.
- **Technology and AI Experts**
  Specialists in AI, machine learning, data science, and technology companies working on healthcare solutions.
- **Healthcare Administrators**
  Decision-makers responsible for implementing AI solutions in healthcare settings and those involved in policy development.
- **Industry Leaders**
  Executives from healthcare and technology companies looking to explore or showcase AI-driven solutions.
- **Students and Educators**
  Medical students, along with educators, who are interested in the intersection of AI, healthcare, and sustainable practices.
- **Ethicists and Legal Experts**
  Professionals focused on the ethical, legal, and regulatory challenges associated with AI in healthcare.
- **Community Leaders and Social Responsibility Advocates**
  Those engaged in advancing public health and sustainability initiatives, aligning with Saudi Vision 2030.



FORUM SCIENTIFIC COMMITTEE



Dr. **Ikhlas** Abdulaziz Sindi

Vice Dean of Student Affairs,
Research Unit Director

Batterjee Medical College,
Jeddah, Saudi Arabia



Prof. **Sabrin** R.M. Ibrahim

Professor, Deputy of Research and Ethical Committees,
Preparatory Year Program

Batterjee Medical College,
Jeddah, Saudi Arabia



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Head of Pharmacy
Program

Batterjee Medical College,
Jeddah, Saudi Arabia



Dr. **Dareen** Khalid Aljehani

Head of Dentistry
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Dr. **Amal** Alsalamah

Head of Radiological Sciences
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SPEAKERS



SPEAKER |

Prof. **Sergio** Grunbaum

Professor of Medicine, Medical School
at Central University of Paraguay, Ciudad del Este, Paraguay

PROFESSIONAL SUMMARY

PhD - BSc - Bachelor of Science. PhD - Biomedical Engineering .Cambridge University - United Kingdom. Professor of Medical School at UCP university's .Professor of Science Investigation Methodology. Professor of Medicine. Science Investigation Specialist ORCID: 0000-0003-2291-9192. Dr. Sérgio Grunbaum is a distinguished biomedical engineer who holds a Ph.D. from both Cambridge University and Arizona State University. With a deep commitment to advancing medical technology, he has made significant contributions to the field of biomedical engineering. Currently, he serves as the General Coordinator of Scientific Research in Paraguay, where he oversees and promotes cutting-edge research initiatives aimed at improving healthcare outcomes. His expertise and leadership have positioned him as a key figure in the scientific community, driving innovation and collaboration across borders. Artificial Intelligence in Healthcare and its Impact on Service Innovation

The Utility of Artificial Intelligence as an Example of Large Language Models in Healthcare Education.

Abstract. In the current digital era, artificial intelligence (AI) has emerged as a transformative force across various fields, and health education is no exception. This article will explore the crucial role of artificial intelligence, particularly Large Language Models (LLMs), in the evolution of health education (1). In today's digital age, artificial intelligence (AI) has become a driving force in multiple areas, and health education is not exempt from this transformation. The purpose of this article is to meticulously examine the essential role of artificial intelligence, with a specific focus on Large Language Models (LLMs), in the development of health education (1). Artificial intelligence, or AI, refers to the capability of machines to perform tasks that would typically require human intervention. In the context of health education, this technological advancement has proven to be an invaluable tool. From more accurate medical diagnoses to the training of health professionals, AI has left a significant mark (1). Large Language Models are a specialized category of artificial intelligence focused on understanding and generating human language in an advanced manner. In the educational realm of health, these models have become a paradigm shift by providing a deeper and more contextualized understanding of medical concepts (2). It is essential to explore how artificial intelligence, particularly Large Language Models, have evolved and continue to shape health education. Since their introduction, these models have influenced the way students and health professionals' access, assimilate, and apply medical knowledge (2). In summary, this article will delve into the intricacies of artificial intelligence and Large Language Models, highlighting their revolutionary role in health education. Practical cases, concrete benefits, and ethical challenges will be examined to provide a comprehensive view of how AI is transforming the way we learn and teach in the field of health (2).

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SPEAKER |

Dr. **Pavol** Prazenica

Physician, CEO & Co-Founder of Medannot,
Bratislava, Region of Bratislava, Slovakia

PROFESSIONAL SUMMARY

MUDr. Pavol Praženica is the CEO and Co-Founder of Medannot, a med-tech startup specializing in the development of advanced AI solutions for radiology, 3D pre-operative planning, and AI diagnostics. With over six years of experience in the med-tech industry, he has successfully contributed to several startup projects, resulting in spin-offs and innovative medical solutions. Dr. Praženica is also an active speaker and expert in the application of artificial intelligence in medicine. He has delivered presentations at prestigious international forums, where he addressed an audience of over 1,500 participants. His vision is to leverage AI to help physicians automate repetitive tasks, enabling them to focus on what truly matters—diagnostics and patient care.

Artificial Intelligence based prostate cancer screening and PI-RADS scale classification from MRI

The current screening for prostate cancer is very time-consuming and requires an invasive biopsy, making it challenging to scale. The aim of this project is therefore to develop and implement an artificial intelligence (AI) model for prostate cancer screening from MRI scans and to automatically classify findings according to the PI-RADS scale. This model will enable faster and more accurate diagnostics while providing the necessary scalability for screening.



SPEAKER | Online

Dr. **Shashi** Kant Gupta

Post Doctoral Fellow, Eudoxia Research University,
Delaware, New Castle, USA
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PROFESSIONAL SUMMARY

Dr. Shashi Kant Gupta, Post-Doctoral Fellow and Researcher, Computer Science and Engineering, Eudoxia Research University, USA in collaboration with Eudoxia Research Centre, India. ORCID: 0000-0001-6587-5607. He is currently working as an Adjunct Research Faculty, Centre for Research Impact & Outcome, Chitkara University Institute of Engineering and Technology. Chitkara University, Rajpura, 140401, Punjab, India. He is working as Honorary Adjunct Faculty, School of Computing, Maryam Abacha American University of Nigeria (MAAUN), Nigeria. He is working as an Honorary Senior Research Fellow, Department of Scientific Research, Innovation and Training of Scientific and Pedagogical Staff, University of Economics and Pedagogy, Karshi City, Uzbekistan. He is working as a Research Collaborator and Invited Visiting Senior Scientist at the Research Institute of IoT and Cybersecurity, Department of Electronic Engineering, National Kaohsiung University of Science and Technology, Taiwan. He has completed his Ph.D. (CSE) from Integral University, Lucknow, UP, India, & Worked as Assistant Professor in the Department of Computer Science and Engineering, ITM, Lucknow, U.P., India & Worked as Assistant Professor in the Department of Computer Science and Engineering, PSIT, Kanpur, U.P., India, Worked as Associate Professor, School of Computer Applications, BBD University, Lucknow, UP, India, Worked as Assistant Professor, Department of Computer Science and Engineering, Ambalika Institute of Management and Technology, Lucknow, UP, India. & Also worked as Senior Lecturer, Department of IT, MCSCET, Lucknow, UP, India. He is currently working as Founder and CEO of CREP PVT. LTD., Lucknow, UP, India. He is a member of Spectrum IEEE & Potentials Magazine IEEE since 2019 and many more international organizations for research activities. He is an Editor-in-chief of International Journal of Data Informatics and Intelligent computing (IJDIIC) also Editor-in-chief of International Journal of Emerging Technologies in Computer and Communication (IJETCC). Senior Editor in Global Research Journal form London Organization of Skill Development, London, United Kingdom. He has published many research papers in reputed international journals, conferences & seminars with SCOPUS and SCI indexing. He has got many awards from many International and national organizations. He has organized various Faculty Development Programs, Seminars, Workshops, and Short-Term Courses at University level. His main research work focuses on Cloud computing, Big Data Analytics, IoT and Computational Intelligence-based Education. He is currently working as a reviewer and editorial in various international journals. He is currently editor in many edited books of different publishers like CRC Press, Taylor and Francis group Publication, Routledge Publisher, Bentham Science Publishers, Springer Nature Publisher, Wiley Publisher etc. He has published many patents like Indian, Germany, UK etc in the field of CSE and IT. He has more than 12 years of teaching experience, 2 years of Industrial Experience and more than 2.5 years as CEO and Founder of a firm.

Exploring Brain-Inspired Intelligence and Brain-Machine Interfaces

This study examines the changing realms of brain inspired intelligence and brain machine interfaces (BMIs) investigating how they could transform technology and human engagement significantly. Brain inspired intelligence aims to replicate the mechanisms of the human brain to improve artificial intelligence systems by providing better problem solving abilities that are more efficient and adaptable. By drawing from neuroscience findings to create algorithms and structures that imitate processes effectively this method brings biological and artificial systems closer together. At the time brain computer interfaces symbolize an unexplored territory in direct communication between the brain and outside gadgets opening up fresh ways for engagement and management. These interfaces offer hope for uses in healthcare like bringing back movement to people with paralysis and in enhancing human skills to surpass what is naturally possible. The study explores the state of studies in these fields emphasizing significant technological progressions, obstacles encountered and moral reflections. By combining knowledge from both areas of expertise in this research project the goal is to offer an examination of how intelligence inspired by the brain and brain machine interfaces can work together to progress the evolution of smart systems and the relationship between humans and machines. In essence this investigation emphasizes the ability of these technologies not to improve collaboration between humans and machines but also to potentially reshape our perception of intellect and autonomy.

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SPEAKER |

DR. **Niko** Azhari Hidayat

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PROFESSIONAL SUMMARY

He is a senior lecturer in Digital Health Technology at the Faculty of Advanced & Multidisciplinary Technology (FTMM), Airlangga University. He started his education and obtained a Bachelor's & Professional Medical Degree at Udayana University, Denpasar, Bali, which he successfully completed on time in 2004. Then he specialized in the Cardiac & Vascular Thoracic Surgery Study Program at the Faculty of Medicine, Airlangga University, Surabaya, graduated in 2013. In 2014, he created the opportunity & with the support of his teachers to pursued Consultant (Fellowship) education in Vascular & Endovascular Surgery at the Universitair Medisch Centrum, Utrecht, Netherlands, which he completed in 2015. He built his professional journey as a Civil Servant by serving as a Cardiac & Vascular Thoracic Surgeon Specialist at Airlangga University Hospital since 2010, when he was undergoing Chief Level of his BTKV (CTV) Specialization Education. In 2017 he appointed to be the Vice secretary general of Indonesian Association of Thoracic Cardiac & Vascular Surgeons (IATCVS/ HBTKVI) until current time period. The COVID pandemic accompanied his work as an elective block lecturer in the field of Digital Health at the Faculty of Medicine, Airlangga University, who came from FTMM UNAIR which has a Digital Health Research Group, where his Vascular Indonesia platform helped the Indonesian Ministry of Health to provide Telemedicine for isoman patients together with Care Protect. The transformation of Care to Protect into One Healthy, encouraged him to also transform the Vascular Indonesia platform into iVascular: Vascular Indonesia Super Apps & initiate VIBES - Vascular Indonesia Book Education Series, where this book is one of the works in it. A book with the theme Vascular Science was also produced in 2023, namely The Art of Televasculobiomedicine 5.0 with scientific colleagues who are currently taking a Doctoral Program in Taiwan. Wrote the book Endovenous Ablation Technology in Leg Varicose Veins is an embodiment of the strengthening and creativity of Science-based Health Tourism (Health Science Tourism), which together with Varises Indonesia as the flagship chapter of Vascular Indonesia, hopes that in the future it can make the lives of the Indonesian nation smarter & healthier, especially in the scientific literacy of Vascular Health (Blood vessel). In 2022, he completed his doctoral studies in the human resource development study program at the Postgraduate School of Airlangga University, and then published the book Information Technology Communication PSDM in the Health sector. At Airlangga University he is a member of the Airlangga University Academic Board Senate – Research Innovation & Community Development commision. He also carries out his mandate as Collaboration & Internationalization Coordinator for Research and Community Service Institutes (LPPM) – previous role on Health & Environment Project Coordinator & current position either as the Secretary of World University Association for Community Development (WUACD). Apart from the academic field, he has also forged himself in the clinical - industrial world, namely in digital health startups, including establishing the Vascular Indonesia digital health platform, Varises Indonesia, AVShunt Indonesia, KakiDiabet Indonesia, Aorta Indonesia & Vascular Science Club, he also the founder of Medical Tourism Indonesia, platform Digital health is being widely discussed. In the organizational aspect, his position is Secretary General of the Association of Cardiac & Vascular Thoracic Surgeons (HBTKVI), Secretary General of the Indonesian Healthtech Association (AHI) & Advisory Board of the Indonesian Telemedicine Association (ATENSI). He also the Chief of IT & Telesurgery in Indonesian Surgeons Association (PP IKABI). The experience brought him to be the Telemedicine (Telehealth) expert on several stake holder – Goverment discussions & forums. His digital portfolio can be widely viewed at www.nikoazharihidayat.com. He Wrote the book of Medical Ethics in Digital Health as Science-based Digital Health Technology, which together with Association (Healtech.id) & the Ministry of Health to enhance the flagship chapter of Digital Health Initiative in Indonesia, the next target for Indonesian nation brighter & healthier, especially in the scientific Digital Health & ethical literacy. This Book will complete the Digital Health & Telemedicine Curriculum as one of the Text Book for students Nation wide, & either will be so ready to be Globally challenged.

iVascular : Digital Telehealth Vascular Indonesia Platform - Televascular superApps Experienced since Pandemi, Sustaining & Transforming

DR. Niko Azhari Hidayat., MD.,FIATCVS
Faculty of Advanced Technology Multidiscipline – Universitas Airlangga Hospital
www.nikoazharihidayat.com

Introduction Vascular diseases, including peripheral artery disease, varicose veins, and deep vein thrombosis, require consistent monitoring and management. However, access to specialized vascular care can be limited, particularly in rural or underserved areas. The COVID-19 pandemic exacerbated these challenges by restricting in-person consultations, thus highlighting the need for digital health solutions. iVascular, a telehealth startup in Indonesia, was developed as a response to these challenges, offering remote consultations and management for patients with vascular conditions. This study aims to evaluate the platform's effectiveness in improving healthcare access, maintaining patient outcomes, and transforming vascular care delivery. The research question guiding this study is: How effective is iVascular in sustaining and transforming vascular care in Indonesia, particularly in a post-pandemic context?

Methods An analysis were conducted on data obtained from iVascular's user base between 2020 and 2023. The inclusion criteria for the study were patients diagnosed with vascular conditions who utilized the iVascular platform for remote consultations and management. Exclusion criteria included patients with non-vascular health issues and those who did not engage in regular follow-ups.

Results The findings indicate that the platform significantly improved access to specialized vascular care, particularly in remote and underserved areas of Indonesia. Patients reported high levels of satisfaction with the convenience and accessibility of the platform. Additionally, the continuity of care was maintained, with no significant decline in patient outcomes, despite the shift to remote consultations. The quality assessment of the data indicated a moderate to high level of confidence in the results, with consistent positive outcomes reported across different patient demographics.

Conclusion iVascular has proven to be an effective digital telehealth solution for managing vascular conditions in Indonesia, particularly during and after the COVID-19 pandemic. The platform not only sustained but also transformed vascular care delivery by making it more accessible and convenient for patients across the country. Continued efforts to enhance the platform's features and address potential barriers, such as digital literacy and access to technology, will be crucial in maintaining its success and furthering its impact on the healthcare system in Indonesia.



SPEAKER |

Dr. **Nicola** Cogan
Ph.D, D.Clin.Psy

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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.

Co-Creating AI-Powered Digital Solutions for Trauma Management and Prevention: Pilot Testing with Frontline Health and Social Care Workers

The increasing prevalence of workplace trauma among frontline health and social care workers underscores the urgent need for innovative, scalable interventions. This presentation introduces Sentinel, an AI-powered digital solution designed to address trauma management and prevention in high-stress occupational environments. Developed through an iterative co-creation process with frontline workers, clinical psychologists, and AI developers, Sentinel integrates cutting-edge technology with evidence-based practices to offer personalized support, enhance psychological safety, and build resilience.

Key features include a natural language processing (NLP)-enabled trauma conversation simulator, a personalization engine delivering tailored content, and on-demand interventions for acute stress episodes. The design process emphasized inclusivity and user-centered approaches, ensuring the platform addresses real-world challenges faced by its target audience.

We will present findings from pilot tests conducted in collaboration with NHS 24, NHS Lanarkshire, and NHS Highlands & Islands. Preliminary results highlight Sentinel's potential to improve self-regulation, facilitate peer support, and foster a trauma-informed workplace culture. Lessons learned from pilot testing will inform the app's iterative development, offering insights into the role of AI in mental health interventions for essential workers.

This session will explore the ethical, technical, and practical implications of integrating AI into trauma care and prevention, aiming to inspire broader adoption of digital tools for workplace well-being.

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SPEAKER |

Dr. **Chiara** Gallese

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PROFESSIONAL SUMMARY

Dr. Chiara Gallese is a Marie Sklodowska-Curie, Postdoctoral Fellow, Department of Law, University of Turin, Turin, Italy, with a project on the ethical reuse of health data. Department of Electrical Engineering, Eindhoven University of Technology, Eindhoven, The Netherlands; School of Engineering, Carlo Cattaneo University - LIUC, Varese, Italy; ISLC fellow, University of Milan, Milan, Italy. Her research is focused on AI and Law, Data Ethics, and Data Protection Law.

The reuse of health data for AI training

The secondary use of health data to train Artificial Intelligence models poses several legal and ethical issues. Recently, the European Union has approved two new regulations, the European Health Data Space and the AI Act, introducing new data sharing mechanisms and mandating new data governance requirements and obligations. This talk will explore the most recent issues of health data reuse for AI training in light of the new legal framework.



SPEAKER |

Omar Farshad Jeelani

Centrynex Cyber Security limited,
England / ITMO University, Russia

PROFESSIONAL SUMMARY

I am a Chief Technology Officer (CTO) at Centrynex Cyber Security Limited, operating in Monaco and the UK. Since 2023, I have led enterprise-wide cyber security strategies and technology initiatives. As a researcher, my work focuses on health informatics, cyber security, AI security, and network security. I am also a part-time assistant professor, mentoring graduate students in advanced cyber security topics. With a robust academic background and hands-on expertise, I continue to make significant contributions to both industry and academia.

Methods and Algorithms of Ensuring Data Privacy in AI-Based Healthcare Systems and Technologies

This project seeks to devise novel algorithms and techniques leveraged in healthcare to guarantee data privacy in AI-powered systems. To bolster its credibility, the study review presents various modern approaches and technologies used to preserve data privacy of healthcare data. The project conducted an empirical study of the current development in healthcare regarding AI privacy protection to compile a steadfast literature on the subject.

Keywords: Artificial Intelligence (AI); Data Privacy; Data Sharing; Healthcare AI; Healthcare Organizations (HCOs)

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SPEAKER |

Dr. **Mohammad** Hamad Allayoun

Head of the E-Learning and Instructional Design Unit,
Gulf University, Kingdom of Bahrain

PROFESSIONAL SUMMARY

With 17 years of academic experience, I have developed a wide range of teaching and learning methods to achieve optimal results. As an Assistant Professor for eight years, I taught various information technology subjects, including artificial intelligence, data analysis, and enterprise resource planning systems. My research interests have led to numerous publications in reputable journals and conferences on topics like Artificial Intelligence, Business Intelligence, and E-Learning. As the Head of the E-Learning and Instructional Design Unit at Gulf University, I focus on advancing e-learning tools and methodologies.

Machine Learning Algorithms for Early Disease Detection

The “Machine Learning Algorithms for Early Disease Detection” will explore the transformative role of artificial intelligence in healthcare, focusing on the application of machine learning algorithms for the early diagnosis of diseases. As part of the “Smart Health: AI-Powered Research and Healthcare Solutions” Scientific Research Forum, this workshop will provide an in-depth overview of how machine learning models can analyze vast datasets, identify patterns, and predict disease onset with high accuracy.

Participants will learn about the latest advancements in supervised and unsupervised learning techniques, feature selection, model training, and validation methods tailored for medical applications. Real-world case studies will be presented to demonstrate the use of machine learning in detecting diseases such as cancer, diabetes, and cardiovascular disorders at their earliest stages. Additionally, the workshop will cover the challenges of data quality, privacy, and ethical considerations in AI-driven healthcare.

This session aims to equip researchers, healthcare professionals, and data scientists with the knowledge and skills needed to develop and deploy machine learning models that can enhance early disease detection, ultimately improving patient outcomes and advancing the future of smart healthcare.



SPEAKER |

Prof. **Mohammed** Ahmed Hassanien

Pharmacy Practice Department Faculty of Pharmacy,
King Abdulaziz University, Jeddah, Saudi Arabia

PROFESSIONAL SUMMARY

Professor at Pharmacy Practice Department and Head of Assessment Unit and AI Committee at Faculty of Pharmacy, King Abdulaziz University senior fellow, Advance HE – UK. Master and FAIMER fellowship in Health Professional Education. Master of Leading innovation and leading change – UK. Certificate of Data sciences and machine learning, MIT – USA. International Certified trainer IBCT

Advancing Medical Outcomes with AI: Tailored GPTs for Disease Interpretation and Management

In an era where artificial intelligence (AI) is revolutionizing medical practices, tailored GPT models emerge as pivotal tools in enhancing diagnostic accuracy and optimizing disease management. This talk delves into the development and application of three bespoke GPT models designed to address distinct challenges within healthcare settings. The first model focuses on predicting gestational diabetes among pregnant women, employing advanced machine learning algorithms to anticipate this condition early, thereby facilitating timely interventions. The second model interprets biochemical test results with precision, aiding healthcare professionals in making informed decisions rapidly. The third model supports junior physicians by providing AI-driven guidance for managing common pediatric nutrition issues, enhancing the quality of care delivered to the youngest patients. These models not only exemplify the integration of AI into healthcare diagnostics and patient management but also highlight the potential of AI-driven tools to transform medical practice by improving outcomes, efficiency, and patient care. This presentation will explore the technical foundation, implementation strategies, and the significant impact these AI tools have on everyday medical decisions, ultimately contributing to the broader goals of improved healthcare services and patient outcomes.

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SPEAKER | Online

Dr. **Wasswa** Shafik

Research Director, Dig Connectivity Research Laboratory
(DCRLab), Kampala, Uganda

PROFESSIONAL SUMMARY

Wasswa Shafik (Member, IEEE) is a Research Director at the Dig Connectivity Research Laboratory (DCRLab), Kampala, Uganda. His research broadly examines, integrates, and focuses on developing computationally and statistically efficient models and algorithms to address complex questions about artificial intelligence, computer vision, and machine learning problems. Specific interests include Health Informatics, Smart Agriculture, Ecological Informatics, Applied Artificial Intelligence, the Internet of Things, Cybersecurity and Privacy, and Smart Computing. Reviewer/editorial support of 10+ journals and UN SDG interests 3, 6, 12, 13, 14 and 15. He attained a Bachelor in Information Technology at Ndejje University, Kampala, Uganda, a Master in Information Technology Engineering (Computer and Communication Networks) at Yazd University, Iran, and PhD in Computer Science at Universiti Brunei Darussalam, Brunei. More so, he received additional training from the National Institutes of Health, the US Department of Health and Human Services, and the Bloomberg School of Public Health, USA, such as Data Quality, Monitoring and Evaluation Fundamentals, and Protecting Human Research Participants, among others. Prior to DCRLab, he served as a community data officer at Pace-Uganda, a research associate at TechnoServe, a research assistant at PSI-Uganda, a research lead at the Socio-economic Data Centre (SEDC-Uganda), and a former ag. managing director at Asmaah Charity Organization.

Wearable Medical Electronics in Artificial Intelligence of Medical Things

The integration of artificial intelligence (AI), the Internet of Things (IoT), with medical devices avails the recent development in the medical sector, specifically digital health, referred to as the Internet of Medical Things (IoMT). This makes it simpler for patients to relax, for health problems to be solved quickly and modestly, for hospital medications to be given right away, and for healthcare to be more personalized. All of these things together make up AIoMT. In addition, artificial intelligence and other critical support technologies such as big data, mobile internet, cloud computing, microelectronics, and others have made it possible to process the collected patient data to get better insights. This has turned traditional healthcare into an all-around, efficient, and personalized experience. During this time, AI applications in medicine became more popular worldwide, and people who were sick with the virus were saved with the help of intelligent technologies and the algorithms that went with them. The AIoMT made it leisurely to collect, analyze, and make sense of a vast amount of patient information so that healthcare and well-being monitoring can be done effectively through different electronic devices. Comprehensively, surveys several wearable medical electronics in the AIoMT. There has been a focus on the known and commonly used medical devices, such as the electronic signals for AIoMT sensors. In addition, the AIoMT architecture shows how intelligent sensors can be used to collect, combine, and control data for smart healthcare structures. The study further reviews the challenges of electronic devices in the AIoMT, such as data security threats, data interoperability, and regulatory concerns. Addressed to improve medical standards of operation for medical personnel, patients, and other medical stakeholders. Finally, open research issues for future research in AIoMT are highlighted.

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SPEAKER |

Dr. **Saeed** Saad Alahmari

Vice-dean for Scientific Research,
Najran University, Saudi Arabia

PROFESSIONAL SUMMARY

Dr. Saeed Alahmari is an assistant professor of computer science at Najran University, Najran, Kingdom of Saudi Arabia. He received his Ph.D. degree in computer science from the University of South Florida in 2020. He is currently the vice-dean for scientific research at Najran University. He has authored and co-authored many journal and conference papers. His research interest includes learning from noisy and limited labeled data, machine learning, and deep learning, medical image understanding, computer vision, and deep learning repeatability and food computing

Deep Learning Repeatability and Reproducibility and Impact on Healthcare.

Deep Learning Deep learning training typically starts with a random sampling initialization approach to set the weights of trainable layers. Therefore, different and/or uncontrolled weight initialization prevents learning the same model multiple times. Consequently, such models yield different results during testing. However, even with the exact same initialization for the weights, a lack of repeatability, replicability, and reproducibility may still be observed during deep learning for many reasons such as software versions, implementation variations, and hardware differences. In this talk, I will present our study of repeatability of training deep learning models for segmentation and classification tasks. Furthermore, I will illustrate the repeatability of LLM fine-tuning for text generation and question-answering. Additionally, I will highlight some impact of such repeatability issue on healthcare, and the reproducibility issue that it can cause.

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SPEAKER |

EVHY APRYANI, PhD

Head of Clinical Research Unit, Faculty of Medicine, Airlangga
Teaching Hospital Airlangga University, Surabaya, Indonesia

PROFESSIONAL SUMMARY

Dr Evhy Apryani joined Faculty of Medicine, Universitas Airlangga after previously getting her research fellow training at Harvard Medical School/Mass Eye and Ear/Schepen Eye Research Institute working on drug discovery and development field. She has over 8 years of research experience working as a scientist from target identification to Clinical trials. She retains her doctoral degree from Shanghai Jiaotong University and works as study director at CRO focusing on personalized cancer medicine. Prior to this, she completed her master's degree at Faculty of Medicine, University Putra Malaysia and bachelor's degree at Faculty of Pharmacy, Universitas Airlangga. Her research interests are in the areas of mental health, neuroscience, ophthalmology, aging related diseases such as cancer, etc. She was involved with research adopting multidisciplinary and multidimensional approaches from wet lab to dry lab. She is a member of the association for research in Vision and Ophthalmology.

The role of AI in revolutionizing drug discovery

Implementing artificial intelligence in drug discovery has revolutionized the industry, making it faster, more accurate, and more efficient. Take an example from medicinal chemistry, where AI can identify and develop chemical compounds compared with traditional methods, which are very laborious and costly. Conventional techniques often rely on hit-and-miss approaches, which can be very expensive and lengthy and take up to 12-18 months, with an average cost of $2.6 bn. At the same time, implementing AI in medicinal chemistry allows the synthesis of chemical compounds to enable better interactions. In silico medicine, one of the pioneers of companies that use generative AI in drug design and discovery has developed and validated a generative adversarial network-based AI platform and integrated it into commercially available pharma. Their current success design was the world's first AI-generated anti-fibrotic small molecule inhibitors (INS018_055) on lung function in patients with idiopathic pulmonary fibrosis, which successfully entered clinical trials phase II. The implementation of AI in drug discovery expanded into the clinical trials application, where AI can help from patient enrollment to identification of the patient cohort, analysis of patient data to the prediction of treatment response, and optimization of trial design. However, the use of AI is challenging, ranging from the readiness of the law, such as the patent applicability of the drug generated from AI, to the ethical concerns of data used in clinical trials. However, there is no doubt that the implementation of AI shaped the industry, and further steps need to be taken to accelerate this, motivating us to contribute to this progress, as the implementation of AI can help reduce time and cost by more than half



SPEAKER |

Prof. **Abdulrahman** M. Al-Zahrani

Professor of EdTech and AI at the Department of Learning Design and Technology, University of Jeddah, Jeddah, Saudi Arabia.

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PROFESSIONAL SUMMARY

Dr. Abdulrahman Al-Zahrani is a Full Professor of Educational Technology at the University of Jeddah, Saudi Arabia, with a PhD in Educational Technology from La Trobe University, Melbourne, and extensive experience in academic leadership. He has held various administrative roles, including Dean-in-charge and Vice Dean of the Faculty of Education, and contributed to multiple research initiatives, focusing on the intersection of technology and education. Dr. Al-Zahrani has published extensively on AI in higher education and is a recognized member of international educational technology associations, advocating for innovative pedagogies and AI integration in teaching and learning.

Advancing SDG 3: Harnessing Predictive Analytics, Health Monitoring, Decision-Making, and AI-Driven Interventions for Comprehensive Well-Being

This presentation explores the role of Artificial Intelligence (AI) in advancing Sustainable Development Goal 3 (SDG 3) by enhancing health and well-being. It covers key areas where AI contributes to improved health outcomes, including predictive analytics for early disease detection and prevention, health monitoring through wearable technology, data-driven decision-making for effective public health management, and addressing social determinants of health to reduce disparities. Additionally, the presentation highlights AI-driven mental health and emotional well-being interventions, such as virtual therapists and emotion recognition systems, that provide personalized support and foster mental health resilience. By showcasing these innovative applications, the presentation demonstrates how AI technologies can transform healthcare systems, promote well-being, and drive progress towards achieving SDG 3.

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SPEAKER | Online

Dr. **Taher** alkhalaf

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PROFESSIONAL SUMMARY

Dr. Taher Alkhalaf holds a Master 2 in Engineering of Entrepreneurship Projects (IPE) from the University of Caen Normandy, France (2016-2017). He earned his Doctorate in Management Science (2000-2006) and a Diploma of Advanced Studies (DEA) in Modélisation Microéconomique and Applications (1999-2000) from the same university. Additionally, Dr. Alkhalaf completed a Master 2 in Management Science (1989-1993) and a Master 1 in Management Science (1985-1986) at the University of Aleppo, Syria, where he also obtained his Bachelor's degree in Management (1981-1985). Dr. Alkhalaf has extensive academic experience, serving as an Academic Supervisor of Student Work at the American University for the Humanities in California, USA (2017-2022), where he taught courses in strategic management, human resource management, and innovation, and supervised master's and doctoral research. He was a Lecturer at Tishreen University in Latakia, Syria (2007-2015), where he taught entrepreneurship, management innovation, research methodology, organizational behavior, and business management, in addition to supervising graduate research. Dr. Alkhalaf also lectured at the University of Maine, France (2005-2006), where he taught statistical software and business management; the University of Reims, France (2004-2005), where he taught history of economics and business management; and the University of Paris 13, France (2003-2004), where he taught descriptive statistics.

Artificial Intelligence and Its effect on Performance in Healthcare Centers

The integration of artificial intelligence technologies into organizational and administrative procedures in healthcare facilities appears to contribute to the formation of capabilities that enhance organizational effectiveness and performance. However, there are challenges facing academics in identifying the factors that contribute to the integration of AI-CRM, the mechanism for creating these capabilities, and the extent to which they impact the delivery of services to AI-CRM customers. The study aims to identify the challenges facing the process of integrating artificial intelligence technologies into its various stages in customer relationship management. The research relied on the resource-based theory and the knowledge-based approach to explain the mechanism of capacity formation in health care facilities after the introduction of artificial intelligence technologies and to measure the extent of its impact on customer service. Given the organizations' need for multiple competencies to implement AI-CRM integration, interviews were conducted within the framework of a qualitative methodology with many cadres in the technical and administrative fields. We expect that the results of the study will contribute to providing empirical evidence about the benefit of integrating artificial intelligence into administrative work procedures in medical centers.



SPEAKER |

Dr. **Rania** Sultan

Dr. Rania Sultan, King Abdulaziz University R
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PROFESSIONAL SUMMARY

Rania Sultan is a microbiologist and teacher who investigates the mechanisms that bacteria use for responding behaviors. The process Rania studies is called hearing and seeing sensor. Rania's research is paving the way to the development of new therapies to repsensitive of multidrug resistant bacteria to antibiotics for combating nosocomial deadly multiresitant bacteria and overcoming the worldwide life threatening problem by saying suffering words and spotting red light photons making them responding again and becoming susceptible to different group of antibiotics. Rania is passionate about increasing diversity in the sciences. She is actively involved in educating lay people in science. Rania can often be found at community events, in science videos and interviews, first Saudi opened probiotic food and drinks diets from applied microbiology research. on the web, TV, and the radio, and doing policy work to make sure that everyone gets opportunities to learn and participate in science

AI-Enhanced Acoustic Vibration and Photodynamic Therapy for Multidrug-Resistant Bacteria - Vision 2030: Golden weapon to eliminate antibiotics and associated with Artificial intelligence.

Invasive bacterial infections have lately emerged as a leading cause of morbidity and mortality in immunocompromised people particularly, multi drug resistant bacteria is one of the most common pathogens found in intensive care unit (ICU) patients. MRSA, MDR, and CRE are currently one of the top four causes of nosocomial mbacterial infection, hospital-acquired infections, as well as catheter-associated urinary tract and bloodstream infections. Most invasive bacterial infections are caused by one of four species: Staphylococcus aureus (MRSA), K.pneumoniae (CRE), A.baumannii (MDR), and P.aerginosa (MDR). Other bacterial spp. Play a modest impact. On occasion, outbreaks caused by certain species have been documented in specific patient populations. For example, in 2022, Security Forces Hospital Dammam (SFHD) has reported an outbreak of multi-drug-resistant bacteria in Eastern Saudi Arabia with 969 cases and equally distributed between ICUs and hospital-admitted patients. Nosocomial bacterial infections might be caused by the patient`s flora or acquired exogenous sources through the hands of medical personnel. S. aureus (MRSA) is the most prevalent pathogenic bacterial species; it also could be a critical factor of the human microbiota, existing naturally on the skin and mucus membranes. Bloodstream and systemic caused infections have emerged recently. Accordingly, as microbiologist scientists by the vision 2030 and with this a unique project we have worked as a one team work on field of multidrug resistance organisms hardly to be back sensitive. Additionally, we have used a specific vibration frequency to increase positively the effectiveness of the bacteria to be sensitive rather than resistant. I issued a patent from the United States of America and the Saudi monarch is on its way to acquittal. Our prototype has already launched, and we are looking to improve our biomedical device according to the vision 2030 with artificial intelligence technique like Saudi made, because we need to eliminate multidrug resistance worldwide to make it sensitive again. We are in challenge by 2030 and 2050 will not definitely to be any antibiotics available worldly. It is a raspy of disaster. This is a disaster that kills millions of people. And this is an alternative technique that will guide us these vibrations can convert to AI (Artificial Intelligence) in the future to be in hands easily in everywhere. There are several solutions as following: Firstly, lower the duration of antibiotics. Secondly, staying at hospital. Thirdly, decreasing the cost of the treatment and burdens of the lab with kits. Fourthly, prevent hospital acquired infection and nosocomial infection. Fifthly, Speed of recovery, Sixthly, research development and innovation in complementary medicine area especially our biodiversity rich in medicinal plants. We hope with this suggestion and solutions to fulfill the promise of Mohammed bin Salman to achieve the Saudi dream in the research, innovation and development in the area of complementary medicine and increase the economic aspects of Saudi Arabia globally with Saudi hands and products

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SPEAKER |

Dr. **Wael** Yousef Alghamdi

Vice Dean for Training Affairs, Collage of Computers and Information Technology, Taif University

PROFESSIONAL SUMMARY

BD. King Abdulaziz University in computer Science, Saudi Arabia. MD. Acadia University in computer Science, Canada. Ph.D University of New South Wales, in computer science and engineering, Australia. Specialized in Wireless sensor network security, AI, and Digital Twin

AI paradigm in healthcare

In this presentation, I will explore several important topics related to Artificial Intelligence (AI). I will begin with an introduction to what AI is, providing a clear understanding of its definition and scope. Next, I will delve into the history of AI, highlighting its evolution and major milestones. Following this, I will discuss the transformative role of AI in healthcare, showcasing how it is revolutionizing diagnostics, treatment planning, and patient care. Finally, I will introduce the concept of the Digital Twin, explaining its significance and potential applications in the healthcare industry.

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SPEAKER |

Dr. **Khalid** Ahmed Salim Salman

Executive director of Research and Innovation, Consultant Nuclear Medicine and Radiology, King Abdullah Medical City, Makkah Healthcare Cluster, KSA

PROFESSIONAL SUMMARY

Experienced Medical imaging Consultant and Executive director of research and innovation at King Abdullah Medical City, with a demonstrated history of working in hospitals & healthcare industry. Skilled in Healthcare Management, Establishment, Education, Research, Innovation, and accreditations. Robust healthcare services professional with a Fellowship focused on Nuclear Medicine & PET/CT Imaging from the Hospital of Zurich University and the Hospital of the University of Pennsylvania.

Artificial Intelligence (AI)in Medical Imaging (MI)

Medical Imaging (MI) is the fastest-growing source of medical data digitalization, and it has become a fertile field for artificial intelligence (AI). AI Applications in MI have a positive impact, from reception to reporting. The Ethical Considerations of AI in MI are the same as those in all healthcare fields. AI will not replace the radiologist; however, the radiologist trained in AI will replace the untrained others. MI residency and fellowship programs should include advanced AI training for the trainees' future.





STUDENT POSTER

POST TRAUMATIC STRESS DISORDER AND EMERGENCE AGITATION

1. **Walaa Mohamed Dahlawi**
Department of Psychology, Faculty of Arts and Humanities, King Abdulaziz University, Saudi Arabia



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مدينة الملك عبدالله الطبية
King Abdullah Medical City

جامعة الملك خالد
KING KHALID UNIVERSITY

BMC
كلية البترجي الطبية
BATTERJEE MEDICAL COLLEGE

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Executive Summary

The BMC Innovation Bootcamp 2025 – From Idea to Product is a transformative training and mentorship program that empowers students across all BMC branches (Jeddah, Dammam, and Aseer) to develop innovative healthcare solutions from initial ideas to viable product concepts.

This initiative is jointly organized by Batterjee Medical College, in partnership with King Abdullah Medical City (KAMC), University of Jeddah (UJ), and King Khalid University (KKU).

It aligns with Saudi Vision 2030 and the national strategy for research, development, and innovation, promoting cross-institutional collaboration, creative problem-solving, and sustainable healthcare innovation.

The Bootcamp blends interactive workshops, hands-on activities, and intensive mentorship to help students convert innovative healthcare ideas into feasible, scalable, and impactful projects.



Objectives

Foster a culture of innovation, creativity, and design thinking among students.

Enable participants to transform healthcare ideas into practical solutions.

Strengthen student capacity in intellectual property (IP), patent development, and business modeling.

Encourage interdisciplinary collaboration between students, mentors, and experts from partner institutions.

Build a sustainable innovation ecosystem across BMC campuses and partner universities.



Target Participants

Eligibility Criteria

- Open to students from BMC Jeddah, Dammam, and Aseer branches.
- Applicants should have a clear idea, concept, or innovative healthcare solution (individual or team-based).
- Each participant/team must submit a brief idea abstract during registration.
- Students from all programs are encouraged to apply.
- Preference will be given to:
  - Multidisciplinary teams
  - Ideas addressing community or healthcare sustainability challenges
  - Solutions aligned with Vision 2030 and Sustainable Development Goals

Participation Process

- Online registration and abstract submission (October 2025).
- Review and selection of ideas by the Bootcamp Committee.
- Formation of teams and assignment of mentors after Day 1.

Program Overview & Timetable

Time	Theme/Session	Core Activities	Delivered by
Day 1 – Inspiring Innovation & Design Thinking			
1:00 – 1:20	Welcome & Orientation	Kick-off and overview of Bootcamp goals	BMC Research Unit
1:20 – 2:10	Introduction to Innovation in Healthcare	Understanding the role of innovation in modern healthcare	UJ & KKU Experts
2:10 – 3:10	Design Thinking Methodology	Empathize, Define, Ideate, Prototype, and Test framework	UJ & KKU Experts
3:10 – 4:00	Team Formation & Problem Identification	Building teams and defining healthcare challenges	UJ & KKU Experts
4:00 – 5:00	Success Story	Inspiring journey of a healthcare innovator	Invited Speaker
Day 2 – From Problem to Solution			
1:00 – 1:45	Ideation Techniques & Brainstorming	Generating innovative and practical solutions	UJ & KAMC Experts
1:45 – 2:30	Assessing Feasibility & Impact	Evaluating idea scalability, viability, and sustainability	UJ & KKU Experts
2:30 – 3:30	Mentorship Sessions	Breakout sessions with assigned mentors	UJ & KKU Experts
3:30 – 4:15	Group Work	Refining Ideas Team-based refinement of project ideas mentors	UJ & KKU Experts
Day 3 – Intellectual Property & Patents			
1:00 – 1:45	Fundamentals of IP	Understanding intellectual property concepts	KAMC Experts
1:45 – 2:30	Writing Patent Applications	Components, claims, and common mistakes	KAMC Experts
2:30 – 3:15	Patent Registration	National and international registration processes	KAMC Experts
3:15 – 4:00	Case Study	Practical patent examples and group discussion	KAMC Experts
4:00 – 5:00	Expert Q&A	Open dialogue and wrap-up	KAMC Experts

Program Overview & Timetable

Time	Theme/Session	Core Activities	Delivered by
Day 4 – From Idea to Product			
1:00 – 1:45	Business Model Design	Fundamentals of business model creation in healthcare	UJ & KKU Experts
1:45 – 2:30	Regulatory Pathways	Introduction to regulatory systems for healthcare innovations	UJ & KKU Experts
2:30 – 3:15	Prototyping Tools & Approaches	Practical methods for developing prototypes	UJ & KKU Experts
3:15 – 4:15	Pitch Preparation Workshop	Techniques for effective presentation and storytelling	UJ & KKU Experts
4:15 – 5:00	Pitch Rehearsal	Elevator Pitch Practice and Feedback	BMC Mentors
Day 5 – Field Visit			
1:00 – 5:00	Innovation & Entrepreneurship Centre Visit	Exposure to real-world innovation practices at The Shop Floor	BMC Research Unit
Innovation Expo – May 7, 2026			
To be announced	Final Pitch & Showcase	Presentation of developed prototypes before UJ edges	BMC + Partners
To be announced	Panel Discussion	Future of healthcare innovation	BMC + Partners
To be announced	Awards & Closing Ceremony	Recognition of best innovations and closing remarks	BMC + Partners

Participants will practice delivering concise, persuasive elevator pitches that communicate their innovation's value proposition, problem–solution fit, and market potential within 90–60 seconds. Feedback will focus on clarity, impact, and investor-readiness.



Mentorship Structure

The mentorship program is at the heart of the BMC Innovation Bootcamp, ensuring that every participant receives continuous guidance and expert feedback throughout all phases of the program.

BMC Faculty Mentors (Jeddah, Dammam, and Aseer Branches) will serve as the primary mentors, providing close supervision to assigned teams, supporting idea development, prototype refinement, and pitch preparation.

In addition, experts from King Abdullah Medical City (KAMC), Jeddah University (UJUJ), and King Khalid University (KKU) will deliver specialized workshops and actively participate in mentoring the student teams. Their involvement will ensure cross-institutional collaboration, interdisciplinary insight, and professional-level feedback.

Mentor Guidelines and Deliverables

To ensure consistency and accountability throughout the Bootcamp, each mentor will be provided with a Mentorship Toolkit outlining clear expectations, templates, and reporting mechanisms.



This toolkit will include:

Final Presentation Template – a standardized format for evaluating student outcomes and summarizing key project deliverables at the end of the Bootcamp.

Progress Report Template (every 2 weeks) – for mentors to document team progress, challenges, and milestones achieved during the follow-up mentorship phase (December 2025–April 2026).

Contact Hours Framework – mentors are expected to dedicate a minimum of 12–10 contact hours per team during the Bootcamp and follow-up period, ensuring continuous engagement and support.

Pitch Training Guidelines – structured guidance on coaching students to develop clear, impactful, and investor-ready pitch presentations.

Patent Support Procedures – for teams pursuing the Patent Development Track, detailed steps for the patent registration process will be provided in collaboration with KAMC, UJ, and KKU experts to ensure proper documentation and initiation of filing procedures during the Bootcamp phase.



Mentorship will take place in two phases:

Phase 1

During Bootcamp, Nov 2025

Intensive guidance during idea generation, design thinking, and prototyping sessions.

Phase 2

Post-Bootcamp, Dec 2025–Apr 2026

Continuous follow-up mentorship to refine concepts and prepare teams for the Innovation Expo (May 2026).



Governance & Coordination

A. Steering Committee

Composed of senior representatives from

- Batterjee Medical College (BMC)
- King Abdullah Medical City (KAMC)
- King Khalid University (KKU)
- Jeddah University (UJUJ)

Responsibilities:

- Provide strategic direction and oversight.
- Approve proposal, trainers, and mentorship plans.
- Monitor impact and outcomes.

B. Coordination Committee (BMC Research Unit)

- Manage logistics, communication, and registration.
- Assign mentors and track student participation.
- Organize the final Innovation Expo.



Expected Outcomes

- Empowered students capable of conceptualizing and pitching healthcare innovations.
- At least 5 patentable ideas and 3 prototypes developed.
- Enhanced collaboration among BMC, KAMC, UJUJ, and KKU mentors.
- Established innovation culture across all BMC campuses.



Innovation Tracks & Pathways

The Bootcamp offers two innovation tracks based on the nature of each project and mentor guidance:

- **Patent Development Track**

  for ideas demonstrating strong novelty and potential for intellectual property protection, participants will be guided through the process of patent drafting and registration.

- **Entrepreneurial Startup Track**

  for ideas with high commercial or societal impact, participants will receive mentorship on developing business models, feasibility studies, and startup strategies.

This dual-track model ensures that every innovative idea is directed toward either intellectual property creation or entrepreneurial application, aligning perfectly with the Bootcamp's core vision "From Idea to Product."



Timeline

Phase	Period	Activity
Announcement & Registration	October 2025	Call for participation + abstract submission
Selection & Team Formation	November 2025	Mentor assignment + orientation
Bootcamp	November 16–20, 2025	5-day online workshops
Mentorship Follow-Up	Dec 2025 – Apr 2026	Ongoing support
Innovation Expo	May 7, 2026	Pitch & Showcase event



Sustainability and Future Impact

The BMC Innovation Bootcamp represents a long-term institutional strategy to embed innovation and entrepreneurship within healthcare education.
It will serve as a recurring annual initiative, fostering continuous collaboration among partner universities and healthcare institutions.

Contact Information

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