



SCFMS 2025

THE FOURTH SAUDI CONFERENCE ON
FORENSIC MEDICAL SCIENCES

المؤتمر السعودي الرابع للعلوم الطبية الشرعية

27-29 OCTOBER - RIYADH, KSA

ORGANIZED BY **تنظيم**



وزارة الصحة
Ministry of Health



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SAUDI SOCIETY OF
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AGENDA

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**Empowering Justice Through
Innovation** in Forensic Medical Sciences



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WORKSHOPS

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Workshops (October 27, 2025)

Time	Venu	Workshops Titles
08:00 AM - 03:00 PM	AIUla 1 – Floor 9	Forensic Anthropology: Identification Using the Skeleton
08:00 AM - 12:00 PM	AIUla 2 – Floor 9	Quality Assurance and Enhancement in Forensic Toxicology Laboratories
01:00 PM - 03:00 PM	AIUla 2 – Floor 9	Forensic Perspectives in MRO Evaluations of Positive Drug Tests
08:00 AM - 03:00 PM	AIUla 3 – Floor 9	From Case to Court: Managing Child Abuse Cases from a Multidisciplinary Perspective
08:00 AM - 01:00 PM	AIUla 4 – Floor 9	Real Cases in Forensic Medicine and Responding to Prosecutors' Inquiries
01:00 PM - 04:00 PM	AIUla 4 – Floor 9	The Strategic Dimensions of Forensic Medical Services in the Saudi Armed Forces: Legal, Medical, Educational, and Operational Roles in Armed Conflicts
08:00 AM - 02:00 PM	AIUla 5 – Floor 9	Breaking the Silence: Practical Forensic DNA Strategies for Identifying Human Remains
08:00 AM - 12:00 PM	Opal 2 – Floor M	Operational Management and Identification of Human Remains in Conflict Zones Involving Weapons of Mass Destruction
01:00 PM - 03:00 PM	Opal 2 – Floor M	The Role of Forensic Evidence in Disaster Victim Identification (DVI)



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DAY 01

October 28, 2025

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AGENDA (DAY 01 - October 28, 2025)

Time	Room	Session Topic	Chairperson	Presentation Titles	Presenters
07:00–08:00	REGISTRATION				
08:00 - 10:00	MAIN HALL	PANEL SESSION	• Prof. Mohammed Madadine	Towards Clarity: The Saudi Initiative to Identify and Classify Deaths of Unknown Cause	• Dr. Ahmed Alyahya
				Guardians of Truth: The Fundamental Role of International Protocols and Guidelines in Clinical Forensic Medicine and Forensic Pathology	• Prof. Duarte Nuno Vieira
				Alternate Light Sources (Als) - A Tool for The Detection of Traces and Injuries	• Dr. Yanko Kolev
				Forensic Medical Services for Child Sexual Harm in Ireland within a Barnahus Model	• Dr. Joanne Nelson
10:00 - 10:30	COFFEE BREAK DIGITAL POSTER SESSION (1)				
10:30 - 12:30	ROOM A	CLINICAL FORENSIC	• Dr. Fadia Khattab; • Dr. Joanne Nelson	Elder Abuse: Between Reality and Myth	• Dr. Ahmad Oqailan
				False Pains, Real Consequences: Medico-Legal Reflections on Malingering	• Prof. Abdelhamid Addou
				Study on Criminal Abortion in Middle East	• Dr. Mohamed Elgebely
				Documentation and Expert Evaluation of Sexual Violence Cases: Legal and Ethical Challenges in Algerian Practice	• Prof. Khaled Doubali
				Traumatic Pelvic Fractures Hospitalized in Kasr Al-Ainy Hospital: Retrospective Study	• A/Prof. Hanaa Elzahed
				Epidemiological and Clinical Assessment of Interpersonal Violence Against Women and Children in Southern Algeria: A Cross-Sectional Forensic Study in Laghouat"	• A/Prof. Massinissa Benyagoub
				Forensic Psychiatry of Post-Rape Body Mutilation: Psychodynamics of Sexual Sadism and Extreme Offender Behavior	• Dr. Paridhi Billore
				The Role of Nursing in Forensic Medicine in Saudi Arabia: Gaps and Future Directions	• Mr. Salman Almutairi

AGENDA (DAY 01 - October 28, 2025)

Time	Room	Session Topic	Chairperson	Presentation Titles	Presenters
10:30 - 12:30	ROOM B	QUALITY AND MORTALITY DATA	• Dr. Kholod Alsawygh; • Dr. Ada Al-Qunaibet	Optimizing Mortality Data Quality and Cause-of-Death Reporting in Multi-Sector Hospitals: A Strategic Initiative in Taif Governorate	• Dr. Mamdouh Zaki
				Improving the Quality of Mortality Data and Cause of Death coding: A Public Health Priority	• A/Prof. Fadwa Elroby
				Raising Life Expectancy in the Kingdom of Saudi Arabia	• Mr. Khalid Al Dahmashi
				Study on the quality of medico-legal reports writing in the academic hospital, Mardan, KPK.	• A/Prof. Shahid Iqbal
				Forensic Consideration in Acute Care Settings	• Dr. Wail AlKhaldi
				Where Vision Meets Innovation: Modular Emergency Response Towards Excellence in Disaster Fatality Management	• Dr. Hisham Dinar
				Errors in Forensic Medicine: Typological Analysis, Contributing Factors, and Preventive Strategies	• Prof. Abdelhamid Addou
12:30-13:30	BREAK DIGITAL POSTER SESSION (2)				
13:30 – 15:30	ROOM A	FORENSIC SCIENCES	• Dr. Yahia Khobrani; • Dr. Yanko Kolev	Photo-Induced Enhanced Raman Spectroscopy for Explosives on a hydride of in 2O3-Au Nanoparticles.	• Dr. Sultan Ben Jaber
				Terror Site Management	• Dr. Sven Benthous
				The Role of Forensic Science in Combating Bioterrorism	• Dr. Nora Aljalaud
				Ultrastructural study of antennal sensilla in three forensically important dipteran species	• A/Prof. Marwa Ramadan
				A Complementary Spectroscopic and Elemental Approach to Questioned-Document Ink Analysis	• Dr. Aisha Albeladi
				The Hybrid Investigator	• Dr. Fahad Al-Dousari
				Audio Evidence Analysis: Challenges in the Age of Deepfakes	• Lieutenant colonel/ Mohammed Al-Ghamdi
				Obstacles and Challenges in Estimating the Age of Handwriting: Global Insights and Implementations in Saudi Arabia	• Mr. Jubran Gushaish

AGENDA (DAY 01 - October 28, 2025)

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13:30 – 15:30	ROOM B	FORENSIC AI	• Dr. Suha Alfaihaid; • Prof. Michael Thali	Leveraging Artificial Intelligence in the Detection and Management of Munchausen Syndrome by Proxy (MSbP)	• Dr. Dena Atef Hamdi
				A Framework for Responsible AI Implementation in Law Enforcement: Lifecycle-Based Guidelines from INTERPOL and UNICRI	• Ms. Amira Abdelhamid
				The Role of AI-Assisted Medical Imaging in Classifying Head Injuries and Estimating Islamic Legal Compensation: A Comparative Study Between Medical and Jurisprudential Standards	• A/Prof. Meaad Elbashir
				Forensic Applications of Wearable Technology: Unlocking Hidden Evidence from Smart Devices	• Prof. Heba Shahatou
				Assessing Postmortem Brain Edema: A comparative Evaluation of Estimation Techniques	• A/Prof. Shrouk Ali
				From microbial data to forensic insights: systematic review of machine learning models for PMI estimation	• Dr. Abdulkreem Al-Juhani
				Artificial Intelligence / Computational Pathology in Forensic Cardiovascular Diagnosis	• Dr. Salman Alfifi
				The Incidence of Dental Anomalies in a Qatari Population Sample	• Dr. Sabiana Elsayed



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Digital Posters

October 28, 2025

Session 01

10:00 - 10:30

Digital Poster Session 1 10:00 - 10:30 (DAY 01 - October 28, 2025)

Peresenter	Abstrct title
• Dr. Nuha Ramadan Alghamdi	Strangulation in children: A threat to child safety
• Dr. Abdulkreem Al-Juhani	Advances in Postmortem Interval Estimation: A Systematic Review of Machine Learning and Metabolomics Across Various Tissue Types
• Dr. Mohamed Elhafiz Abdelbagi Nouri	High-Pressure Water Jet injury: fatal outcome: A Case Report
• Dr. Tarek Mohamed Abdalrouf Ibrahim	Fatal Sudden death: incidental autopsy finding of mediastinal angiomyolipoma: A Case Report.
• Dr. Tareq Saud Aldweehy	Forensic Value of Multiple Focal Calvarial Thinning: A Case Report
• Prof. Rania Abdel Maguid Kaka	The AI-Augmented Autopsy: Revolutionizing Injury Interpretation and Forensic Diagnostics.
• Dr. Asem Ismail	Atypical Suicidal Hanging in a Prone Position with Frayed Ligature: A case Report.
• Dr. Hatoon Fahd Hakeem	Unrecognized case of constrictive pericarditis who presents with burn injuries.
• Dr. Abdullah Al-Shammari	Fatal Thoracoabdominal Impaction During Unauthorized Entry: A Rare Case of Mechanical Asphyxia and Positional Entrapment.
• Dr. Afnan Abdulrahman Alharbi	Penetrating Head Injury by Metallic Projectile
• Prof. Abdelhamid Mebirik Addou	Violent Suicidal Death in the Sétif Region: A Forensic and Epidemiological Approach
• Dr. Paridhi Billore	Autoerotic Asphyxia and Cross Dressing: Forensic and Psychiatric Insights from Unusual Paraphilic Fatalities
• Dr.. Safia bin Shayhon	Sudden death due to rupture ectopic pregnancy – Autopsy case report



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Digital Posters

October 28, 2025

Session 02

12:30 - 01:30

Digital Poster Session 2 12:30 - 01:30 (DAY 01 - October 28, 2025)

Peresenter	Abstrct title
• Mr. Omar Yousef Alqarzaee	Identifying genetic traits from fingerprint traces treated with chemical substances.
• Ms. Heba Mohammad Alharbi	Identification of Human DNA from Degraded Mosquito Blood Meals Over Time
• Mr. Mohammed Aldhafeeri	Assessment of DNA Extraction Method (Qiagen Mini Kit) on Different Substrates using Semen Samples
• Dr. Husein Alhatim	Autosomal Genetic and Lineage Marker Profiles in Saudi Pre-Treatment Leukemia Patients: A Case-Control Analysis
• Mrs. Shurog Saad Alharbi	A Theoretical Analysis of Environmental Effects on the Stability of Forensic DNA in Blood Evidence
• Ms. Atheer Khalid Almajed	A Y STR Study on Saudi Male Population Sample
• Ms. Rahaf Ahmed Alamri	Study To Determine Shedder Status in The Saudi Population Using Transfer of Trace DNA On Various Substrates
• Ms. Reem Saeed Alqahtani	Evaluation and Development of a Salting Out Method for DNA Extraction from Blood Samples Collected on Different Surfaces
• Ms. Sausan Abdulrahman Al Khrashi	Population Substructure Analysis Using Precision ID Ancestry Panel Kit for a sample of Saudi Arabian Individuals
• Ms. Deem Mohammed Aldawish	Assessment of DNA extraction methods using trace biological samples on different substrates
• Dr. Hattan Suliman Gattan	Screening of MAOA gene in general population in Jeddah
• Ms. Alya Saud Alghamdi	Temperature and humidity negatively impact the collection of human DNA from the air
• Mr. KHALED SAKHEEL AL SHAMMARI	The Importance of Medical Sterilization During Forensic Autopsy: Procedures in Preventing Infections Among Medical Staff and Obtaining More Accurate Results



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AGENDA (DAY 02 - October 29, 2025)

Time	Room	Session Topic	Chairperson	Presentation Titles	Presenters
07:00 – 08:00	REGISTRATION				
08:00 - 10:00	MAIN HALL	PANEL SESSION	• Prof. Osama Almadani	Forensic and Legal Medicine in Saudi Arabia Advancing On-Site Drug Testing: Portable Semi-Quantitative Devices with Laboratory-Level Quality Every Death Reviewed: The new Medical Examiner system in England & Wales Thali View" of Forensic Imaging: from Virtopsy to Viroxy and AI-opsy! Human Identification by Skeletal Means: Useful Concepts for Practitioners	• Prof. Mohammed Madadine • Prof. Hee-Sun Chung • Prof. Jason Payne-James • Prof. Michael Thali • Dr. Joe Adserias-Garriga
10:00 - 10:30	COFFEE BREAK DIGITAL POSTER SESSION (3)				
10:30 - 12:30	ROOM A	FORENSIC MEDICINE	• Dr. Dalia Alsaif; • Prof. Jason Payne-James	Complex Suicides Involving Drowning: Forensic Perspectives Role of Body Farming (Forensic Taphonomy) in Research and Investigation Identification of Two Cases in Forensic Medicine Using Unsophisticated Methods in Al-Jouf Desert, Saudi Arabia Cardiac tamponade as a pathophysiology of death; case study Rare or Unusual Autopsy Cases: A Series of Medico-legal Curiosities from the Algerian Forensic Experience Distinguishing injury patterns in pedestrian motor vehicle collisions from fall-from-height impacts. Medico-legal implications Autopsy Findings in a case of adult death from Hyperthermia in a closed Vehicle (Case Report) Forensic Insights about Lightning-Induced Fatalities: Case Studies and Trends.	• Prof. Mahrous Ibrahim • A/Prof. Yogesh Kumar • Dr. Tareq Aldweehy • Dr. Omar Baadheem • Prof. Khaled Doubali • A/Prof. Asmaa Sharif • Dr. Mohammed Gaballah • Dr. Mohamed Hewit

AGENDA (DAY 02 - October 29, 2025)

Time	Room	Session Topic	Chairperson	Presentation Titles	Presenters
10:30 - 12:30	ROOM B	TOXICOLOGY	• Dr. Huda Hussain; • Dr. Farouq Alzahrani; • Prof. Hee-Sun Chung	The benefits of automation in DOA sample preparation	• Dr. Zhou Ibrahim
				Quality Management in Toxicology Laboratory	• Dr. Ali Kheyami
				Overview of presumptive and confirmatory drug Testing	• Dr. Nibal Badr
				The Role of Literature in Suicide: A Case Report of a Child Who was Assisted by A Book to Commit Suicide	• Dr. Suha Alfehaid
				Navigating the Novel Psychoactive Substances (NPS) Epidemic: Challenges in Forensic Toxicology	• Prof. Rania Kaka
				Fatal Acute Ethanol Intoxication: A Case Report	• Dr. Mohammed Mostafa
				Postmortem Identification of Sildenafil in Tissues Following Sexual Drug Overdose: A Case Report	• Dr. Abubakr Haj Omar
				Smart Toxicology Control System (STCS)	• Mr. Muteb Almansour
12:30-13:30	BREAK DIGITAL POSTER SESSION (4)				
13:30 – 15:30	ROOM A	PANEL DISCUSSION	• Dr. Abdelaziz Alshalhob; • Prof. Michael Thali; • Dr. Abdelaziz Almosabahi	Introducing Postmortem CT in Saudi Death Investigations: Insights from the First 13 Virtopsy Cases.	• Dr. Naif Aljohani
				Hyoid bone-based sex discrimination among Egyptians using a multidetector computed tomography: discriminant function analysis, meta-analysis, and artificial intelligence.	• Prof. Samah Ibrahim
				Comparing Post-mortem Computed Tomography versus Traditional Autopsy in Detecting Cerebrovascular Accidents (CVAs) as a Cause of Death: A Systematic Review and Meta-Analysis	• Dr. Maiyada Aldossary

AGENDA (DAY 02 - October 29, 2025)

Time	Room	Session Topic	Chairperson	Presentation Titles	Presenters
13:30 – 15:30	ROOM B	FORENSIC GENETICS	• Prof. Syed Sibte Hadi; • Dr. Joe Adserias-Garriga	Cutting-Edge Forensic DNA and Genomic Solutions for the Identification of Unknown Human Remains: A Comprehensive Review	• Dr. Yahya Khubrani
				Postmortem Skeletal Muscle Alterations as Forensic Markers: A Histological, Biochemical, and DNA-Based Approach to Estimating Time Since Death	• Prof. Heba Moustafa Shahatou
				From DNA to Dignity: Ethical Frameworks for Implementing Forensic Innovations in Middle Eastern Disaster Response	• Prof. Marwa Fawzi
				Plant DNA Barcoding and Nanomaterials as Forensic Tools for Linking Evidence to Crime Scenes	• Dr. Nadiyah Alabdallah
				A comparative analysis of DNA degradation under acid simulation using two different concentrations of acid to estimate post-mortem interval (PMI)	• Ms. Aparna Sajeevan
				Effect of Chemical Fixative preservation of postmortem human tissues on the integrity of STR profiles	• A/Prof. Ahmed Abdelaal
				Forensic Short Tandem Repeats (STRs) Amplification After Gamma Exposure: Toward Radiation-Resilient Human Identification	• Mrs. Jenan Almhaini
				Challenges, Efficacy and Validation of DNA extraction techniques in decomposed tissues: A taphonomy-based study	• A/Prof. Mohammad Ahemad
15:30 – 16:30	CONFERENCE RECOMMENDATIONS AND CLOSING				



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Digital Posters

October 29, 2025

Session 03

10:00 - 10:30

Digital Poster Session 3 10:00 - 10:30 (DAY 02 - October 29, 2025)

Peresenter	Abstrct title
• Ms. Sarah Dafer Alshehri	Determine the Pharmacokinetics (half-life, volume of distribution and clearance) of AMB-FUBINACA in blood samples of rats using GC-MS / MS
• Dr. Afnan Abdulrahman Alharbi	Amphetamine and Chronic Starvation
• Prof. Abdelhamid Mebirik Addou	The Contribution of Forensic Toxicology to the Determination of Cause of Death
• Dr. Abdullah Al-Shammari	Phenethylamine-Induced Fatal Multiorgan Ischemic Injury: A Rare Case Report with Forensic and Toxicological Correlation
• Mrs. Noran Abdu Zilal	Investigating the Interference of Adulterants in EMIT Immunoassay Detection of THC-COOH in Urine Samples
• Dr. Ibraheem Mohammed Attafi	Chemo-profiling analysis of Suicidal Fatalities, Jazan, Saudi Arabia
• Dr. Ali Khrid	Patterns of Opiate-Positive Postmortem Toxicology Cases in 2024: A Retrospective Descriptive Study at the Jeddah Forensic Toxicology Center
• Ms. Rola Mohammed Alhifdhi	Effects of Five Adulterants on THC Detection and Quantification in Urine Samples
• Dr. Omar Oudah Aljohani	Suicide by Self-Administration of Multiple Drugs: Propofol, Lidocaine, and Codeine in an Anesthesiologist – First Case Report in Saudi Arabia
• Ms. Sarah Alsleebe	Forensic Identification of Unknown Human Remains through Skeletal Analysis
• Ms. Maha Qatomah	Fingerprints recovery at the crime scene for a distinguished applied case
• Ms. Jomanah Albishi	OTrace: A Portable USB-Based Toolkit for Live Forensics Investigation in OT Systems



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Digital Posters

October 29, 2025

Session 04

12:30 - 01:30

Digital Poster Session 4 12:30 - 01:30 (DAY 02 - October 29, 2025)

Peresenter	Abstrct title
• A/Prof. Asmaa Fady Sharif	Medico-legal evaluation of burn trauma injuries. Epidemiological features and predictors of mortality and other adverse outcomes
• Prof. Galal Eid	A Thorough study of CT scan and meticulous clinical correlation of fractures of lumbar vertebrae ruled out the claim of a recent direct traumatic injury to the back. A Case report.
• Mr. Haif Mohammad Alharbey	Domestic violence and the role of forensic medical services in detecting and reducing it
• Dr. Musleh Samil Reshidi	Awareness of Forensic Medicine Services Staff in Hail with Appropriate Infection Control Practices
• Dr. Hadil Rahal	The Dust Shield with Innovative Saw Designed to Prevent Infectious Diseases and Enhance Proper Forensic Medical Examination Practice
• Ms. Malak Essam Fathi	AI-based Framework for Enhancing Friction Ridge Analysis, Comparison, and Evaluation
• Dr. Nora Abdulaziz Aljalaud	Importance of Artificial Intelligence in Forensic Science: Applications, Challenges and Future Directions
• Ms. Renad Abdullah Alghamdi	Using Postmortem Microbiome to Link Dismembered Human Remains: A Review
• Dr. Ibrahim Abdullah Almutairi	Suicide by sulfuric acid ingestion: A Forensic case report
• Ms. Aljwharah Alqahtani	Radiation Impact on Quality of Fingerprints
• Mrs. Atheer Essam Zarnoogi	Methanol-related postmortem cases in Jeddah, Saudi Arabia
• Dr. Marwan Alkhalifah	Modern Approaches to Age Estimation from the Pubic Symphysis Integrating Morphology, Imaging, and Artificial Intelligence
• Mr. Abdulrahman Salem Al-Harathi	Partial Medical Dissection for Scientific Research Purposes from a Sharia Perspective



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