



Saudi Society for
Clinical Chemistry

7th Annual
Conference

3rd International Meeting on Clinical Chemistry & Laboratory Medicine



30th Nov - 3rd Dec
2021

✉ INFO@SSCC.MED.SA  SSCC.MED.SA

   @sa.sccc

 +966 504957748

1:00 pm – 1:10 pm	Opening Remarks	Dr. Maram Alotaiby General Supervisor for Laboratory Services, Blood Transfusion and Forensic Medicine services Ministry of Health
1:10 pm – 1:20 pm	Welcome Speech	Dr. Ali Al Othaim SSCC Vice President
Time		Speakers
Keynote Lecture AFCB		
1:20 pm – 2:00 pm	Male Infertility & Trace Metals	Prof. Abderrazek Hedhili Professor of Toxicology University of Pharmacy of Monastir -Tunisia
SESSION 1 Old Problems & New Challenges Moderator: Dr. Salah Al Meshawi Toxicology Consultant Head of Toxicology Department in Comprehensive Specialized Clinical Security forces in Jeddah		
2:00 pm – 2:20 pm	Drug Related Deaths in Jeddah, Saudi Arabia: A Forensic Carboxyhemoglobin Autopsy-Based Study	Dr. Ahmed Al-Asmari Consultant Forensic Toxicology King Abdul-Aziz Hospital -Jeddah
2:20 pm – 2:40 pm	A Post DDT Era	Dr. Ahmed Abo-Khatwa Emeritus Prof. of Biochemistry Biochemistry Department, Faculty of Science King Abdul-Aziz University - Jeddah
2:40 pm – 3:00 pm	An Episode of Phosphine Poisoning	Dr. Ahmed Abo-Khatwa Emeritus Prof. of Biochemistry Biochemistry Department, Faculty of Science King Abdul-Aziz University - Jeddah
3:00 pm – 3:20 pm	Chronic Inhalation of Pod-based E-cigarette Aerosols on Inflammatory Biomarkers in Central Nervous Peripheral Systems	Prof. Youssef Sari Department of Pharmacology & Experimental Therapeutics College of Pharmacy & Pharmaceutical Sciences The University of Toledo - Ohio
3:20 pm – 3:40 pm	The Role of Poisons Control Center in Emergency Toxicology	Mr. Magbool Oraiby Laboratory Specialist Poison Control & Forensic Medicine Chemistry Center - Jazan
3:40 pm – 4:00 pm	Direct Analysis in Real Time (DART) Applications in Forensic Toxicology	Dr. Torki Alzughabi Assistant Prof. (Forensic Science)/Senior Specialist Faculty of Applied Medical Science Department of Medical Laboratory Technologies King Abdul-Aziz University - Jeddah
4:00 pm – 4:15 pm	Question and Answer	
4:15 pm – 4:30 pm	Break	



SESSION 2

Modern Forensic Toxicology & Mass Spectrometry Application

Moderator: Prof. Yousef Sari

Department of Pharmacology & Experimental Therapeutics

College of Pharmacy & Pharmaceutical Sciences

The University of Toledo - Ohio

4:30 pm – 4:50 pm	The Value of High Resolution LC/MS in Forensic and Clinical Toxicology Laboratory	Dr. Asim Jilani Consultant Forensic Toxicologist Poison Control & Forensic Medicine Chemistry Center – Makkah Al-Mukarmah
4:50 pm – 5:10 pm	Silica Monolithic Column Coated with Graphene as Drugs Extraction and Clean Up Procedure	Dr. Amin Khattab Consultant Forensic Toxicologist Poison Control & Forensic Medicine Chemistry Center
5:10 pm – 5:30 pm	Testing Human Hair for Cannabis	Dr. Farouq Alzahrani Consultant Forensic Toxicologist Medical Department at Presidency of State Security
5:30 pm – 5:50 pm	New Challenges in Forensic Toxicology: Focus on New Psychoactive Substances	Dr. Abdulaziz Aldlgan Consultant Forensic Toxicologist Security Forces Hospital, Toxicology Lab -Riyadh
5:50 pm – 6:10 pm	Forensic Toxicology and Doping Control Drugs Related Analysis	Dr. Mansour Al-zahrani Forensic Toxicologist Senior Specialist Poison Control & Forensic Medicine Chemistry Center
6:10 pm – 6:30 pm	Testing of GHB in Hair Using GC-MS/MS	Mr. Sami Al-Ghamdi Forensic Toxicologist Senior Specialist Poison Control & Forensic Medicine Chemistry Center – Jeddah
6:30 pm – 6:45 pm	Question & Answer	
6:45 pm – 7:00 pm	Break	



DAY 1

Schedule PRE-CONFERENCE



30TH November Tuesday, 2021

SESSION 3

Young Scientist

Moderator: Dr Ahmad Al Asmari

Consultant Forensic Toxicology

King Abdul-Aziz Hospital –Jeddah

7:00 pm – 7:20 pm	Application of Validated LC-MS/MS Method for the Detection of Synthetic Stimulants in Suspicious Urine Samples from Riyadh, Saudi Arabia	Mr. Abdulaziz Aldubayyan Department of Analytical, Environmental and Forensic Sciences, Faculty of Health Sciences & Medicine King College London, London -UK Toxicology Department Prince Sultan Military Medical City
7:20 pm – 7:40 pm	A survey on public awareness of the relationship of heavy metals: lead & mercury to autism in KSA	Ms. Asia AL-Harbi Toxicologist/Medical Researcher Center of Excellence in Genomic Medicine Research King Abdulaziz University – Jeddah
7:40 pm – 8:00 pm	Victims of chemical and biological warfare	Ms. Mashaal Al-Asmari Saudi Scientific Working Group for Forensic Toxicology
8:00 pm – 8:20 pm	Detection of Amphetamines in Dried Blood spots	Ms. Huda Alkhalaf Laboratory Specialist Central Military Laboratory & Blood Bank/Toxicology Prince Sultan Military Medical City –Riyadh
8:20 pm – 8:40 pm	The global deadly trend of Novel Synthetic Opioids	Mr. Abdulrahman Assiri Laboratory Specialist Assir Poison Control and Forensic Medical Chemistry Center -Abha
8:40 pm – 9:00 pm	Ethyl Glucuronide and Ethyl Sulfate: Ethanol Biomarkers and their Role in Forensic Toxicology Analysis	Ms. Salma Alsayed Toxicology, Senior Specialist Pathology & Laboratory Department Prince Mohammed Bin Abdulaziz Hospital Ministry National Guard Health Affair-Al Madinah,
9:00 pm – 9:15 pm	Question & Answer	
9:15 pm – 9:30 pm	Closing	



1:00 pm – 1:15 pm	Opening Remarks	Dr. Samia Sobki SSCC President
Time		Speakers
CONFERENCE Keynote Lecture IFCC		
1:15 pm – 2:00 pm	Clinical Decision Limits in Evidence Based Laboratory Guidelines	Prof. Annalise E. Zemlin Head of Division; Chemical Pathology IFCC C-EBLM – South Africa
SESSION 4 Biomarkers of Diseases Moderator: Dr. Waleed Al Omaim Consultant Chemical Pathology Section Head of Automated Core Facility /POCT Department of Pathology and laboratory Medicine King Faisal Specialist Hospital & Research Center, Riyadh		
2:00 pm – 2:25 pm	Biomarkers of Kidney Diseases	Dr. Nawal Basri Medical Director, Medina Dialysis Center Ministry of National Guard Health Affairs (MNGHA)
2:25 pm – 2:50 pm	The Potential Utility of Exosomes in Diabetes as Early Biomarkers and Treatment	Dr. Anwar Borai Clinical Scientist, Clinical Chemistry King Abdulaziz Medical City-Jeddah
2:50 pm – 3:15 pm	Anti-Mullerian Hormone (AMH) in the Assessment of Fertility & Beyond	Dr. Majed Al Hudhud Consultant Ob/Gyn and IVF and Head of Ob/Gyn Department & IVF Services, Dr Sulaiman Al Habib Medical Group, Arryan Hospital, Riyadh, Saudi Arabia
3:15 pm – 3:40 pm	Biomarkers of Heart Failure	Dr. Damien Gruson Professor, Head of the department of clinical biochemistry Cliniques Universitaires Saint-Luc, Brussels, -Belgium
3:40 pm – 4:05 pm	Post-Covid Syndrome: Clinical manifestation and Biochemical Markers	Dr. Nafila Riyami Senior Consultant, Medical Biochemistry Sultan Qaboos university Hospital, SQU-Oman
4:05 pm – 4:15 pm	Question and Answer	
4:15 pm – 4:30 pm	Break	

SESSION 5 Pre-analytical Group Moderator: Prof. Khalid Al Harbi Professor and Consultant in Medical Molecular Genetics in King Saud University		
4:30 pm – 4:55 pm	Improving Patient Safety by Control of Pre-analytic Errors in Clinical Laboratory	Dr. Waleed Tamimi Head of Clinical Chemistry Lab King Abdulaziz Medical City - Riyadh
4:55 pm – 5:20 pm	CBAHI requirements in pre-analytical clinical laboratory	Mr. Jaffar Khiary Acting Head Department of Pathology & Laboratory Medicine King Faisal Specialist Hospital & Research Center
5:20 pm – 5:45 pm	Reducing errors of samples and improving Quality in the Pre-analytical phase: The role of the Laboratory Medicine	Dr. Amani Gusti Senior Specialist Clinical Chemistry Emergency Laboratory King Fahd Armed Forces Hospital – Jeddah
5:45 pm – 6:10 pm	The Need for Quality Control for Serum Indices Detection	Mr. Abubaker Yagoot Supervisor Biochemistry King Abdul-Aziz Medical City, National Guard Health Affairs-Jeddah
6:10 pm – 6:25 pm	Question & Answer	
6:25 pm – 6:40 pm	Break	

Schedule INDUSTRY WORKSHOPS

Time		Speakers
Workshop 1 Automation Moderator: Dr. Ali Al Shangiti SSCC Board Member		
6:40 pm – 7:00 pm	Considerations When Looking QC for Multiple Instruments	Mr. Ayman Enayah Field Application Specialist Bio-Rad Laboratories
7:00 pm – 7:20 pm	Pre-analytical Errors and Quality Indicators	Dr. Vladimir Sashkov Interim EMA Head of Medical Affairs Becton Dickinson, Dubai
7:20 pm – 7:40 pm	How to Automate Sample Workflow Today & Tomorrow	Mr. Ahmad Abbas Workflow & Informatics (WITS) Manager MEA Beckman Coulter MEA – United Arab Emirates
7:40 pm – 8:00 pm	The Importance of Automated Toxicology Drug Screening	Mr. Mahmoud Zaghoul Saudi Arabia Country Sales Manager Thermo Fisher Scientific CDD
8:00 pm – 8:20 pm	Forensic Toxicology and MS applications	Mr. Shailesh Damale Deputy Manager; Application support Shimadzu Middle East and Africa, Dubai
8:20 pm – 8:40 pm	“Most recent innovations in clinical diagnostics for the Analysis of 48 Amino Acid Analysis in Serum/Plasma and Urine via LC-MS – Solutions for the Clinical laboratory.”	Dr. Frank Kühlwein Head, International Sales Chromsystems GMBH
8:40 pm – 9:00 pm	FLCs, SAA and Protis Software	Dr. Lenard Muller Global Marketing Manager of Plasma Protein at Siemens Healthineers
9:00 pm – 9:20 pm	COVID-19 S-RBD IgG Test Application in Epidemic	Dr. Fadel Alhababi Head of Virology Department, Regional Lab and Blood Bank in Riyadh
9:20 pm – 9:35 pm	Question and Answer	
9:35 pm – 9:45 pm	Closing Remarks	



Time		Speakers
SESSION 6		
Laboratory Management Moderator: Dr. Nashaat Nafouri Chair, Health Care Saudi Quality Council		
1:00 pm – 1:30 pm	THE Role of Private Healthcare in Realization of KSA Healthcare Transformation	Mr. Abdulla Alkhashan Director General Alborg Diagnostic, KSA
1:30 pm – 2:00 pm	Artificial Intelligence in the Clinical Laboratory	Prof. Samer Ellaham Director of Accreditation, Quality and Safety Institute Cleveland Clinic - Abu Dhabi
SESSION 7		
Quality & General Chemistry Moderator: Dr. Abdullah Turjoman Consultant Clinical Chemist Lab Director, Prince Mohammad bin Abdulaziz Hospital - Riyadh		
2:00 pm – 2:20 pm	Lean Six Sigma Approach in Quality Control Cost Management: A Study from Canadian Province of Newfoundland and Labrador	Dr. Vinita Thakur Division Chief Clinical Biochemist & POCT Scientific Lead Memorial University, Health Science Center Eastern Health Authority –Canada
2:20 pm – 2:40 pm	HbA1c : not just a number	Dr. Slavka Penickova Director/Clinical Biologists LHUB-ULB Medical Chemistry Laboratory, Brussels, Belgium
2:40 pm – 3:00 pm	Tests to Evaluate Immunological Response to SARS-CoV2 and Correlates of Immunity: The Abu Dhabi Experience	Dr. Laila Abdulwareth National Reference Laboratory Deputy ED & Chief Scientific Officer – Abu Dhabi
3:00pm – 3:20 pm	Osteoporosis: Overview and Update	Dr. Fahad Alshahrani Consultant Family Medicine Department of Family Medicine & Primary Health Care King Abdulaziz Medical City -Riyadh
3:20 pm – 3:40 pm	Post Bariatric Surgery Metabolic Complication	Dr. Sumaya Aljenedil Consultant Chemical Pathologist Clinical Lipidologist King Faisal Specialist Hospital and Research Centre - Riyadh
3:40 pm – 4:00 pm	SARS-CoV-2 variants: implications on diagnostic testing for detection and vaccine efficacy	Dr. Ioanna Skountzou Consultant Clinical Pathology, Jeddah Regional Laboratory, Jeddah, Saudi Arabia Associate Professor, Emory University School of Medicine, Department of Microbiology and Immunology, Atlanta, GA
4:00 pm – 4:15 pm	Question and Answer	
4:15 pm – 4:30 pm	Break	



SESSION 8 Low Carbohydrate Session Moderator: Dr. Ali Mahazri Assistant Professor in Laboratory Medicine Department /Head of Basic Sciences Department Albaha University		
4:30 pm – 5:00 pm	Insulin Resistance Conundrum	Mr. Rayyan Al-Sulaimani King Abdullah Medical City- Holy Capital (KAMC)
5:00 pm – 5:30 pm	Water Fasting Therapy	Dr. Ahmed Alayouby Consultant OBGYN Al Yamama Hospital, Riyadh
5:30 pm – 6:00 pm	T2DM reversal evidence based	Dr. Ammar Tonkal Senior Internal Medicine Resident KFAFH, -Jeddah,
6:00 pm – 6:35 pm	Type Two diabetes reversal and how to sustain (case series)	Dr. Abdulhadi Bima Chemical Pathology Consultant Clinical Biochemistry Laboratory King Abdul-Aziz University Hospital
6:35 pm – 6:45 pm	Question and Answer	
6:45 pm – 7:00 pm	Break	
SESSION 9 Protein Moderator: Dr. Zuhier Awan MD, MSc, PHD, FRCPC, FAACC Secretary General of Saudi Society for Clinical Chemistry		
7:00 pm – 7:25 pm	Contemporary Practice in Serum Protein Electrophoresis	Dr. Christopher McCudden Clinical Biochemist, Division of Biochemistry, The Ottawa Hospital Associate Professor & Vice Chair, Department of Pathology & Laboratory Medicine, University of Ottawa Medical/Scientific Director of Information Services & Information Technology & Deputy Chief Medical/Scientific Officer, Eastern Ontario Regional Laboratory Association – Canada
7:25 pm – 7:50 pm	Protein Electrophoresis: Recommendations for Standardize Reporting with Case Studies	Dr. Ronald A. Booth, FCACB Clinical Biochemist, EORLA & The Ottawa Hospital. Associate Professor, Department of Pathology and Laboratory Medicine, University of Ottawa. The University of Ottawa, The Ottawa Hospital and Eastern Ontario Regional Laboratory Association (EORLA) - Canada
7:50 pm – 8:00 pm	Question and Answer	

Schedule INDUSTRY WORKSHOPS

Workshop 2
(Laser Optical Rotational Red Cell Analyzer) LORRCA
Moderator: Dr Abdullah Almshari
Prince Sultan Military Medical City, Riyadh

8:15 pm – 8:45 pm	Determining novel biomarkers for sickle cell disease and other hereditary hemolytic anemia's using the Lorrca instrument.	Dr. Richard van Wijk University Medical Center Utrecht, Utrecht, The Netherlands
8:45 pm – 8:55 pm	Question and Answer	

Closing Session
Moderator: Dr. Salam Saadeddin
Consultant Clinical Scientist
Clinical Chemistry Division / CML&BB
Prince Sultan Military Medical City, Riyadh

8:55 pm – 9:25 pm	Poster Presentation/ Awarding	Dr. Salam Saadeddin Consultant Clinical Scientist Clinical Chemistry Division / CML&BB Prince Sultan Military Medical City, Riyadh
9:25 pm – 9:40 pm	SSCC Report 2021	Dr. Samia Sobki SSCC President



Workshop - POCT

Time		Speakers
SESSION 10 POCT Moderator: Dr. Saeed Alrashedi Consultant Clinical Laboratory Scientist, Head of Specimen Processing/ Send out/ Phlebotomy & POCT King Fahad Medical City – Riyadh		
4:00 pm – 4:20 pm	Effective Governance of POCT Services	Mr. Tony Cambridge Lead Biomedical Scientist Pathology Management University Hospitals NHS Trust - UK
4:20 pm – 4:40 pm	HOW TO TROUBLE SHOOT INACCURATE POINT-OF-CARE TEST RESULTS	Dr. Adil Khan Medical Director of POCT and Clinical Chemistry & Associate Professor of Pathology Department of Pathology & Laboratory Medicine, Temple University Lewis Katz School of Medicine, Philadelphia, PA. USA
4:40 pm – 5:00 pm	Development of Lean Provincial POCT Framework for the Installation of Blood Gas Analyzers within the Canadian Province of Newfoundland and Labrador	Dr. Vinita Thakur Division Chief/Clinical Biochemist & POCT Scientific Lead Memorial University, Health Science Center Eastern Health Authority – Canada
5:00 pm – 5:20 pm	The Evolving Role of Optimum Diabetes Care in Form of Low-Carbohydrate Diet Focused Education, Flash Glucose Monitoring System in Prediabetes Individuals (LCD-FGM)	Mr. Ayman Al Hayek Head of Diabetes Education and Insulin Pump Unit Department of Endocrinology and Diabetes, Diabetes Treatment Center, Prince Sultan Military Medical City
5:20 pm – 5:40 pm	Point of care testing, Quality and accreditation	Prof. Dalal Nemenqani Professor & Consultant of Pathology & Dean of the College Medicine Taif University
5:40 pm – 6:00 pm	POCT Current Practices and Future Perspective: The Egyptian Experience	Prof. Rania Al Sharkawy Prof. of Chemical Pathology Medical Research Institute, Alexandria University - Egypt
6:00 pm – 6:15 pm	Question and Answer	
6:15 pm – 6:30 pm	Closing Remarks	



Schedule INDUSTRY WORKSHOPS/LECTURE

Workshop 3 New Biomarkers of Diseases Moderator: Dr Walaa Mohammed saeed Associate professor in Clinical Biochemistry, Vice Dean of Applied Medical Science College at Taibah University		
7:00 pm – 7:20 pm	Clinical Utility of Prostate Health Index	Dr. Steven Ness Director, Medical & Scientific Affairs Beckman Coulter
7:20 pm – 7:45 pm	PVKA II: Biomarkers for HCC	Mr. Rani Besisou Medical Affairs Manager Roche Diagnostics – Riyadh, Saudi Arabia
7:45 pm – 8:10 pm	Adopting a new TBI 'Traumatic Brain Injury' test in the Emergency Department	Dr. Paul Jarvis Director of Global Medical Affairs, Abbott Consultant Emergency Medicine Calderdale & Huddersfield NHS Foundation Trust, UK
8:10 pm – 8:30 pm	Covid-19 (SARS-CoV-2) Rapid Antigen Testing During the Covid-19 Pandemic	Dr. Nedim Albayrak Head of Medical Affairs Integrated Diagnostic Solution, Eastern Europe, Middle East & Africa Becton Dickinson & Company
8:30 pm – 8:45 pm	Question and Answer	
8:45 pm – 9:00 pm	Break	
Workshop 4 POCT Moderator: Ms. Najwa Adlan Core Lab& Blood Bank Supervisor Al-Dara Hospital and Medical Center Riyadh, KSA		
9:00 pm – 9:20 pm	Role of POCT in Acute Care Diagnostics	Dr. Valentina Pigozzo Clinical Specialist Acute Care Diagnostics Werfen EEMEIA
9:20 pm – 9:40 pm	The Importance of Accurate Glucose Measurement in Clinically Ill Patient	Dr. Dennis Begos Medical Director, Medical Scientific Affairs Nova Biomedical - USA
9:40 pm – 9:50 pm	Question & Answer	
9:50 pm – 10:00 pm	Closing Remarks	

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