

الابتكارات المتقدمة في الطبيب المنبري ومستقبل المختبرات



Innovative Advancement in Laboratory Medicine
Future of Laboratories

19 TO 21 2025



BOOKLET





In the name of God, the Most Compassionate, the Most Merciful.

It is with great pride and sincere anticipation that I welcome you to our conference: "Innovative Advancements in Laboratory Medicine; Future of Laboratories."

We gather today at a remarkable crossroads. Advances in artificial intelligence, molecular diagnostics, automation, and data integration are transforming how laboratories function—improving outcomes while redefining our expectations of speed, precision, and personalization in medicine.

Healthcare itself is undergoing a profound shift, guided by data, technology, and deeper insight into human biology. This conference represents a strategic investment in that future. At its heart lies our belief that delivering world-class treatment begins with empowering our diagnosticians through knowledge, innovation, and the very best tools.

The sessions curated for this conference are not designed merely to inform, but to ignite. They will spark meaningful conversations, foster collaboration, and inspire ideas that will directly impact the lives of patients. Together, let us seize this opportunity to learn, to grow, and to shape the future of patient care.

This gathering is a testament to our shared commitment to remain at the forefront of progress. It is a forum for learning, inspiration, and collective advancement. I encourage each of you to engage openly, challenge assumptions, and explore the boundless possibilities that lie ahead.

Our hope is that this event energizes you, provides you with fresh insights, and reinforces the critical importance of your role in advancing excellence in laboratory medicine.







Chief Operation Officer
King Fahad Specialist Hospital Dammam

In the name of God, the most compassionate, the most merciful. Welcome to our Conference Innovative Advancement in Laboratory Medicine: Future of Laboratories conference. Which is the first laboratory medicine conference in the Eastern province addressing innovation and up to date ancillary techniques.

The 'future laboratory' we are discussing today is no longer just about processing samples with accuracy though that will always be our bedrock. It is about using the power of Artificial Intelligence to interpret complex data, about leveraging genomics and proteomics to understand the unique blueprint of a disease, and about integrating tele-pathology to bring diagnostic expertise to the patient's bedside, no matter where that may be.

This conference is a testament to our commitment to not just adapt to that future, but to lead it. Over the next three days, you will hear from brilliant minds who are pushing the boundaries of what is possible. I encourage you to engage deeply, to challenge assumptions, and to build the collaborations that will define the next chapter of laboratory medicine.

Our conference today will focus on health integration, innovation, automation and high technologies that are transforming laboratories and Patient Care. This gathering is about collaboration and practical solutions that will strengthen how we serve patients in the best way every day.

Thank you for being here and I am confident that the conference will be productive and shall enrich your knowledge







Welcome to "Innovative Advances in Laboratory Medicine: The Future of Laboratories," conference dedicated to the transformative forces reshaping the Laboratory Medicine field. Over three days, we will delve into the critical developments propelling us forward.

This is more than a conference; it is a collaborative mission to shape what comes next. We have gathered the highly experienced pathologists, scientists, technologists, and industry pioneers to provide you with the knowledge, tools, and connections to lead the change. Let's come together to envision, discuss, and build the future of laboratories.

This conference is your gateway to this new era, prepare yourself to explore groundbreaking technologies and discover strategies to future-proof your practice. Join us as we map the exciting journey from the laboratory we know to the laboratory of tomorrow.

We have curated a program that doesn't just predict the future, it showcases it through cutting-edge presentations, and dynamic discussions, you will gain a clear vision of the upcoming technological shifts and their practical applications in improving patient outcomes. Get ready to be inspired and to turn possibility into reality.





GOALS AND OBJECTIVES



Demonstrate how up to date practices could promote innovation in the field of laboratory Medicine.



Discuss the latest approach for cancer diagnosis and treatment.

Determine how innovative laboratory practices contribute to the best patient's management



Identify skill enhancement and leadership strategies for laboratory professionals.





ORGANIZING COMMITTEE





Dear Esteemed Attendees, Colleagues, and Guests,

On behalf of the organizing committee, it is our great pleasure to extend a warm welcome.

This conference is a premier platform for sharing groundbreaking research, fostering collaboration, and discussing the strategic direction of laboratory medicine. We are thrilled to have such a distinguished group of speakers and delegates gathered. We encourage engagement, networking, exchanging knowledge and experience to reshape the future of laboratories.

We wish you a productive and inspiring conference.

Sincerely,
The Organizing Committee





CHAIRPERSON

Dr. Miral Mashhour

Consultant Anatomic pathologist, Laboratory Director King Fahad Specialist Hospital-<u>Dammam</u>



Co-CHAIRPERSON

Dr. Manal Atta

Consultant Microbiologist, Section head Microbiology King Fahad Specialist Hospital-Dammam



Dr. Ayedh Saad Alqarni

Consultant clinical scientist Clinical laboratory Manager King Fahad Specialist Hospital-Dammam

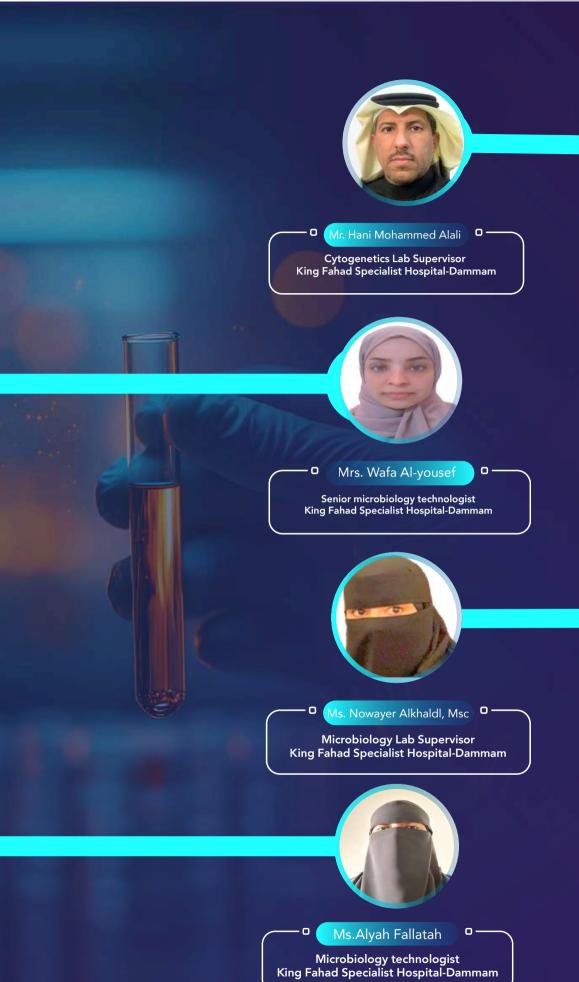


Mrs. Najla Almahbashi 🛛 -

Director, Allied Health King Fahad Specialist Hospital-Dammam



Innovative Advancement in Laboratory Medicine Future of Laboratories



Innovative Advancement in Laboratory Medicine Future of Laboratories



−□ Mrs. Sultanah Al Obaid

Histopathology Lab Supervisor King Fahad Specialist Hospital-Dammam



Mr. Ali Saud Altwilae

Head, Inventry Control Management King Fahad Specialist Hospital-Dammam

0 -



Ms. Noufah Abdulaziz Al Fadhli

Senior Administrative Specialist King Fahad Specialist Hospital-Dammam



Mr. Mohammed Al Gahmdi 🔘 🗖

Associate Executive supply Chain Affairs Administration



Innovative Advancement in Laboratory Medicine Future of Laboratories

- Scientific -- committee





Dear Delegates and Speakers,

On behalf of the Scientific Committee, it is our great pleasure to welcome you to this Conference. We stand at a remarkable inflection point in healthcare, laboratory medicine is no longer a silent partner in diagnosis but is rapidly becoming the dynamic, data-driven engine of personalized health, predictive analytics, and precision medicine.

Our mission is to curate a program that not only showcases the cutting edge of these technologies but also critically address their practical implementation, ethical considerations, and their ultimate impact on patient care. Our program features 11 sessions over three days covering a wide range of topics presented by experienced top notched speakers, these sessions will provide valuable insights, fruitful discussions and networking are the main aim of each session.

Welcome, and let us shape the future together

Sincerely,
The Scientific Committee





CHAIRPERSON

Dr. Miral Mashhour

Consultant Anatomic pathologist
Laboratory Director KFSHD

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Co-CHAIRPERSON

Dr. Manal Atta

Consultant Microbiologist
Section head Microbiology KFSH-D





−□ Dr. Reem Alrabeh

Consultant Hematopathologist Section head hematology and flow cytometry



Dr. Ahmed Al Bahrani

Consultant, Hematopathologist, Transfusion Medicine and Stem Cell Chairman Blood Bank and Stem Cell

0 -



Dr.Amani Mohammed

Section head , Immunology and Immunogenetics KFSH-D





- o Dr. Mohammad Awaji

0-

Head, Histocompatibility & Immunogenetics



Dr Walid Dridi

0 -

Cytogenetics Director, KFSH-D



Batool Hassan Alsaeed

Senior laboratory Quality Specialist Manager of business services, KFSH-D



Academic AffairORGANIZING COMMITTEE



CHAIRPERSON OF THE ORGANIZING COMMITTEE

Dr. Faisal Al Sayel

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0

ATA Director of Academic and Clinical Training Administration

Consultant Orthopedic, Foot and Ankle Surgeon

King Fahad Specialist Hospital Dammam



Dr.Rasha Marshad Alawwad

Group Manager, Medical Education Family Medicine Consultant, Eastern Health Cluster







Public Relations ORGANIZATION COMMITTEE



O Mr. Assad Abdullah Alquria 🛛

Group director - Public relation, Eastern Health Cluster



Mr. Anwar AlMulaifi

0

Director, Public Relations
King Fahad Specialist Hospital-Dammam





Mr. Abdullah Al Zughaibi

Head of Corporate Affairs
King Fahad Specialist Hospital-Dammam



Mr. Ammar Almuhaishi

Head of Media Department King Fahad Specialist Hospital-Dammam



SPEAKERS

DAY 1 SPEAKER



Dr. FOUAD HASSAN



Dr. Abdulaziz Abdullah Al-Ajlan



Dr. Miral Mohammed Mashhour



A Dr. Ziad Zaky



Dr. Marwa Mohmmed
Abdulqader



Dr. Alaa
Almohammed <u>Salim</u>



Dr. Manar Mohammed Samman



Dr. Hernan Gonzalez



🚨 Dr. Zainab Al Ruwaii



Alkushi



🖺 Dr. Amani Joudeh



🚊 Dr. Ahmed Wabari



Dr. Najla Helmi ALdaoud



Dr. Nasreen Hasan Mohamed



Dr. Mohamed Alsomali



🚨 Dr. Deena T. Boqari

DAY 2 SPEAKER



🚨 Mrs. Mona AL-Najjar



Alhamil



Amr. Abdulrahman Mustafa Aboud



🚣 Mr. Mueen Jumaa



Prof. Hind
Al-Humaidan



A Prof. Salwa Hindawi



🚨 Dr. Ammar Hasan Ali Alsughayir



Dr. Abdulmegid Al Abdullatif



Prof. Tarek
Owaidah



Dr. Rabab Ahmad Mohammed Al Dawood



Alrabeh



🙎 Dr. Heba Nabil Ismail Raslan



Dr. Abdullah Nasser Alsuwaidan

DAY 3 **SPEAKER**



A Dr. Moheeb Al-Awwami



A Dr. Mohammad Awaji



🚨 Prof. Ashraf Dada



🚨 Dr. Amani Saeed Ali Mohammed



🖺 Dr. Khaled Omar Abdallah



🚨 Dr. Soha Abdulaziz 🚨 Dr. Walid Dridi Tashkandi





🚨 Dr. Raouf Fetni



Dr. Sameera Aljohani



A Dr. Amani **Mansour Alnimr**



🚨 Dr. Bashayer **Alshehail**



🚨 Dr. Baha **Abdalhamid**



🚊 Dr. Fatimah Ali Alturki



🚨 Dr. Safiya Al-Musawi



🚨 Dr. Jumanah Algazaq



Prof. Manal Amin Atta



Prof. Sherin Ahmed Sami El-Masry



Mr. AHMAD BASEM **ITBAILEH**

AGENDA



Agenda				
Activity Title		Innovative Advancement in Laboratory Medicine Future of Laboratories		
Activity Date		October 19 TO October 21, .2025		
Institution		King Fahad Specialist Hospital -Dammam		
Time	Title	Туре	Speakers	
Date:	OCTOBER 19, 2025			
	Session 1 A	natomic Patholog	y	
Moderator : Dr Salwa Alshaik , JHAH				
07:30-08:00	Registration			
08:00-08:20		Opening		
08:20-08:45	College of American Pathology (CAP) quality management system	n Lecture	Dr. Fouad Aldayel KFSHRC, KSA	
08:45-09:10	Digitalization in Anatomic Pathology challenges and advance	Lecture	Dr. Abdulaziz Ajlan NGH, Riyadh KSA	
09:10-09:30	Her-2 Reporting Updates and Practical Tips	Lecture	Dr. Miral Mashhour KFSH-D, KSA	
09:30-09:50	Next Generation Sequencing Adjuncti Testing in Kidney Allograft Biopsies	Lecture	Dr. Ziad Zaky Assistant professor Cleavland clinic	
09:50-10:05	Discussion			
10:05- 10:20	Coffee break			



DAY 1

Session 2 Anatomic Pathology Moderator: Dr Miral Mashhour, KFSH-D World Health Organization (WHO) Dr. Marwah Abdulkader 10:20-10:40 **Updates in Central Nervous** Lecture KFSH-D, KSA System tumors **Recent World Health Organization** Dr. Alaa Salim 10:40-11:00 (WHO) Classification of soft tissue Lecture KFSH-D, KSA tumors Genomics, from the Dr. Manar Samman Lecture 11:00-11:20 Ministry of Health laboratory to the clinic Dr. Hernan Gonzalez Molecular Testing in atypical 11:20 - 11:40 Lecture **Thyroid Nodules** Head and neck oncologist Chile 11:40 - 12:00 Discussion **Prayer time& Lunch Break** 12:00 - 13:00



Session 3 Anatomic Pathology			
Moderator : Dr Abdulraheem Shangity ,KFSH-D			
13:00 - 13:20	Claudin 18.2 for Gastric and Gastroesophageal Junction Adenocarcinoma	Lecture	Dr. Zainab Al Ruwaii, KFSH-D, KSA
13:20-13:45	Updates in Molecular Classification of Endometrial Cancer: Pathologist perspective	Lecture	Dr. Abdulmohsen Alkushi NGH, Riyadh KSA
13:45-14:05	Pathology of Renal tumors: up to date	Lecture	Dr. Amani Joudeh KFSH-D, KSA
14:05-14:30	Phase III DESTINY- BREAST 09 trial updated results	Lecture	Dr. Ahmed Alwbari Almoosa Specialist Hospital, KSA
14:30-14:45	Discussion		
14:45-15:00	Coffee break		
15:00 - 16:00	Demystifying the Complexity of Liver pathology	Case presentation	Dr. Miral Mashhour Dr. Mohammed Alsomali
16:00 -17:00	Renal pathology	Case presentation	Dr. Najla Aldaoud Dr. Deena Boqari Dr. Nisreen Hasan
17:00 -17:15	Concluding remarks of the First day		



Agenda				
Activity Title		Innovative Advancement in Laboratory Medicine Future of Laboratories		
Activity Date		October 19 TO October 21, .2025		
Institution King Fahad Specialist Hospital - Dammai		: Hospital - Dammam		
Time	Title	Туре	Speakers	
Date:	ОСТОВ	ER 20, 2025		
Session 1 Lab General				
Moderator : Mrs Najla Almahbashi - Dr. Hamoud Al-Khallaf, KFSH-D				
07:30-08:00	Registration			
8:00-08:20	Accreditation in Laboratory: Journey of Readiness	Lecture	Mrs. Mona El Najjar	
08:20-08:45	Enhancing Laboratory Workflow through Automation and Data Integration	Lecture	Mrs Marwa Alhamil , KFSH-D, KSA	
08:45-09:10	Quality Meets Innovation: Tools Transforming Today's Laboratories	Lecture	Mr. Abdulrahman Aboud Saud Abdulaziz Al-Shalan Company	
09:10-09:30	Environmental Sustainability in the Laboratory	Lecture	Mr. Mueen Jumah KFSH-D, KSA	
09:30-09:45	Discussion			
09:45-10:00	Coffee break			



Session 2 Blood Bank				
Moderator : Dr Ahmed Al Bahrani,KFSH-D				
10:00-10:25	Unmet Need For Plasma Protein	Lecture	Dr. Hind Ahumaidan, KFSHRC, Riyadh	
10:25-10:50	Patient blood management	Lecture	Dr. Salwa Hindawi, Jeddah King Abdulaziz University	
10:50-11:15	Transfusion support for Cart T cell Therapy	Lecture	Dr. Ammar Alsughayir KAMC, Riyadh	
11:15-11:40	Innovation in Blood Bank	Lecture	Dr. Abdulmajeed Al Abdullateef Central Blood bank, Riyadh	
11:40-11:50	Discussion			
11:50 – 12:30	Prayer Time& Lunch Break			



DAY 2

Session 3 Hematology, Flow cytometry Moderator: Dr. Reem Alrabeh, KFSH-D Thrombophilia testing: to Prof. Tarek Owaidah 12:30 - 13:30 Lecture do or not to do KFSHRC- Riyadh **Updates** in Von Willebrand Dr. Rabab Al Dawood 13:30 - 14:00 Lecture KFSH-Dammam disease diagnosis Myeloid neoplasms Dr. Reem Alrabeh associated with germline Lecture 14:00 -14:30 KFSH-Dammam predisposition Dr. Heba Raslan Flow cytometric evaluation of 14:30 -15:00 Lecture KFSH-D, KSA T cell neoplasms From diagnosis to action: Dr.Abdullah AlSwaidan 15:00 - 15:30 Leveraging precision Lecture KFSHRC- Riyadh oncology in leukemia cases 15:30 -15:50 Discussion Coffee break 15:50-16:00 Dr. Reem Alrabeh Challenging cases in hematology 16:00-17:00 Lecture Dr. Heba Raslan Concluding remarks of the second day 17:00-17:10



Agenda				
Activity Title		Innovative Advancement in Laboratory Medicine Future of Laboratories		
Acti	Activity Date		October 19 TO October 21, .2025	
Institution		King Fahad Specialist Hospital -Dammam		
Time	Title		Туре	Speakers
Date:		остов	ER 21, 2025	
	Session 1 Histor	compa	tibility and Immun	ology
Moderators : Dr. Abdulnaser Alabadi , KFSH-D Dr. Eman Alfares, KFSH-D				
7:30- 08:00	Registration			
08:00-08:25	Nanopore Based Typing: The next big thing is Really Small!		Lecture	DR Moheeb Al-Awwami, KFSHRC, Riyadh KSA
08:25-08:50	Histocompatibility In Xenotransplantation: Is your Laboratory Ready?		Lecture	Dr. Mohammad Awaji KFSH-D, KSA
08:50-09:15	Smart Diagnostics: Novel Tools for Modern Histocompatibility Laboratories		Lecture	Prof. Ashraf Dada, KFSHRC, Jeddah, KSA
09:15-09:40	Advances in Autoimmunity &Autoantibodies		Lecture	Dr. Amani Mohammed , KFSH-D
09:40-10:05	Green Clinical Laboratories		Lecture	Dr. Khaled Omar King Fahd Military Medical Complex
10:05 -10:20	Discussion			
10:20-10:35	Coffee break			



DAY 3

Session 2 Cytogenetics Moderator: Mr Hani Alali, KFSH-D New Technologies, Old Mysteries: Dr, Soha Tashkandi 10:35-11:00 Lecture Cytogenetics in the Molecular Era King Fahad Medical City From Cytogenetics to Dr Walid Dridi, 11:00-11:20 Lecture Cytogenomics KFSH-D Cytogenomics, Dr. Raouf Fetni, Lecture 11:20-11:45 Contemporary Art Quebec, Canada 11:45 - 12:00 **Discussion** 12:00 -13:00 **Prayer Time& Lunch Break**



DAY 3

Session 3 Microbiology

<u> </u>				
Moderators : Dr. Manal Atta ,KFSH-D Dr. Afrah Sait, KFSH-D				
13:00 - 13:20	Inn <mark>ovation of Microbiology</mark> Diagnostics	Lecture	Dr Sameera Aljohani, KAMC Riyadh KSA	
13:20-13:40	The Future of Mycobacteriology Laboratories	Lecture	Dr. Amani Alnimr, KFUH, KSA	
13:40-14:00	Advances in Antifungal Therapy: Current Trends, Emerging Treatment and Future Directions	Lecture	Dr. Bashayer Alshehail, KFUH, KSA	
14:00-14:10		Discussion		





	Session 4 Microbiology				
Innovation in Antimicrobial Resistance					
		nab AlMusa , KFSH-D			
	Dr Mar	nal Chalak, KFSH-D			
14:10-14:50	Revolutionizing Clinical Microbiology: The power of Next Generation Sequencing (NGS)	Lecture	Dr. Baha Abdalhamid,KFSH-D		
14:50 -15:10	Antimicrobial Susceptibility Testing: What Clinicians need to know	Lecture	Dr. Fatimah Alturki KFUH, KSA		
15:10 -15:30	Multidrug-Resistant Organisms(MRDO): Breaking Down the Laboratory Report	Lecture	Dr.Safiya Al-Musawi Salmania complex Kingdom of Bahrain		
15:30-15:50	Superbugs on the Rise: Understanding and Treating Antimicrobial Resistance (AMR)	Lecture	Dr. Jumanah Algazaq,KFUH,KSA		
15:50 -16:00	Discussion				
16:00 – 16:10	Coffee break				



DAY 3

Session 5 Microbiology Antibiogram

Moderators: Dr Yamamah Aljeshi, KFSH-D

Dr. Hadi AlQahtani, KFSH-D

16:10 -17:30

Antibiogram ;preparation and interpretation

Case presentation

- Dr. Manal Atta KFSH-D
- Dr. Sherine Almasry
 AUH- Egypt
- Mr. Ahmad Itbaileh , KFSH-D

17:30-17:40

Concluding remarks of the conference

MODERATORS

Session 1 Anatomic Pathology



Dr. Salwa Alshaik

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Consultant Anatomic pathologist Johns Hopkins Aramco Healthcare



Session 2 Anatomic Pathology

Dr. Miral Mashhour

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KFSH-D Consultant Anatomic pathologist King Fahad Specialist Hospital-Dammam

Session 3 Anatomic Pathology



Dr. Abduraheem Shangity

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Head of Oncology Department King Fahad Specialist Hospital-Dammam







Mrs. Najla Almahbashi

Director, Allied Health KFSH-D King Fahad Specialist Hospital-Dammam



Dr. Hamoud Al-Khallaf

Consultant Clinical Chemistry, Clinical Molecular Genetics King Fahad Specialist Hospital-Dammam Eastern Health Cluster Pathology and Laboratory Chairperson

Session 2 Blood Bank



Dr. Ahmed Al Bahrani

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Consultant, Hematopathologist, Transfusion Medicine and Stem Cell , Chairman, Blood Bank and Stem Cell King Fahad Specialist Hospital-Dammam

Session 3 Hematology, Flow cytometry



Dr. Reem Alrabeh

Consultant Hematopathologist Section head hematology and flow cytometry King Fahad Specialist Hospital-Dammam



Session 1 Histocompatibility and Immunology



Dr. Abdulnaser Alabadi

MD,MPH, Chairman of Renal &Pancreas Department
Director of the Kidney Paired donation, ABOi and HLAi
transplantation programs at Multi Organ Transplant
Center of Excellence,KFSH-Dammam, EHC,



Dr. Eman Alfares

KFSH-D Consultant Anatomic pathologist King Fahad Specialist Hospital-Dammam

Session 2 Cytogenetics



Mr. Hani Alali

- 0

KFSH-D Cytogenetics Lab Supervisor King Fahad Specialist Hospital-Dammam



Session 3 Microbiology



Dr. Manal Atta

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Consultant Microbiologist , Section head Microbiology King Fahad Specialist Hospital-Dammam



Dr. Afrah Sait

Adult Infectious Diseases Consultant King Fahad Specialist Hospital-Dammam

Session 4 Microbiology



Dr. Zainab AlMusa

Adult Infectious Diseases Consultant King Fahad Specialist Hospital-Dammam





Dr. Manal Chalak

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Pediatric Infectious Diseases Consultant King Fahad Specialist Hospital-Dammam

Session 5 Microbiology Antibiogram



Dr. Yamamah Aljishi

Adult Infectious Diseases Consultant King Fahad Specialist Hospital-Dammam



Dr. Hadi AlQahtani

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Pediatric Infectious Diseases Consultant King Fahad Specialist Hospital-Dammam



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