



# AFLMR

1<sup>ST</sup> CONFERENCE OF  
ARMED FORCES LABORATORIES  
OF MEDICAL RESEARCH  
AND BLOOD BANK

*The future of laboratory diagnostics*

1<sup>st</sup> - 2<sup>nd</sup> DECEMBER 2022

INTERCONTINENTAL CITYSTARS - CAIRO - EGYPT

# Welcome Message

Armed Forces laboratories of Medical Research and the Blood Bank always strive to improve their academic, research and societal outputs, and always give scientific research great attention as one of the pillars of creativity and innovation, development, enrichment, and dissemination of knowledge, which explores the energies of society and solves its various problems, as the laboratories morally and materially support scientific research activities. All these activities are carried out in collaboration with faculty staff members, researchers and graduates of the Armed Forces College of Medicine, to achieve its goals of growth, development and improvement of the scientific knowledge base, which will be reflected upon members of our society, leading to a change in the quality of life of to the fact that scientific research is one of the most important indicators of quality and excellence locally, regionally and internationally.

The administration is also keen to link the laboratories' work plan with the strategic goals of the state, the strategic plan for technology, science and innovation, and Egypt's vision for sustainable development 2030.

The importance of this conference is to emphasize the role of laboratories and their various departments, their responsibilities towards patients, especially in the past period, and the repercussions of confronting the Corona virus pandemic in Egypt. It stems from the fact that the laboratories of the Armed Forces for Medical Research and the Blood Bank are keen to hold and organize scientific conferences and workshops on an ongoing basis within the framework of academic and scientific cooperation with universities and research centers, this is reflected in the medical care and treatment system within the armed forces.

This conference will be held over two days and will include 6 scientific sessions in various scientific disciplines, in which 30 professors will lecture, in addition to the participation of 50 professors and researchers from universities in conference activities over the Internet. Also, twenty wall posters will be displayed, portraying scientific research in various specialties of laboratories. A specialized scientific committee will be responsible for their evaluation.

The conference will cover a number of laboratory topics, including the role of hematology and its relationship to the immune system as immunohematology aspect, the role of quality control over laboratory tests and its impact on economic results, the applications of molecular biology in the fields of clinical chemistry and medical microbiology.

The conference will also hold a directed session entitled

"The future of medical analysis after a pandemic Corona" in which distinguished research submitted by young researchers will be presented in order encourage them to further pursue their scientific interests.

We are honored to have you all in this conference and very happy to share your abundant knowledge and experiences in the various fields of laboratory medicine, and we are proud to be among this elite group of distinguished professors of such a scientific and personal caliber at such an important event.

Maj. Gen. Dr.

**Raafat Zaher Abdelrahman**

*Raafat Zaher Abdelrahman*

President of the conference.

Maj. Gen. Dr.

**Mostafa Mahmoud Elnakib**

*Mostafa Mahmoud Elnakib*

Vice President of the conference

**ORGANIZING COMMITTEE:**

Brig. Dr. Mohamed Abdelhamid Bayoumi

Col. Dr. Ahmed Gad Taha

Maj. Dr. Victor Sedhom

Maj. Dr. Marwa El Shahawy

Maj. Ramy Mohamed Abdelaziz

Cap. Dr. Mahmoud Khaled

**SCIENTIFIC COMMITTEE:**

Maj. Gen. Dr. Mostafa Mahmoud Elnakib

Prof. Nevien Mohamed Kasem

Prof. Nadia Mohamed Hassan Madany

Brig. Dr. Ahmed Farouk El-Shamy

Prof. Ghada Mosallam

Brig. Dr. Mohamed El-Badawy Mohamed

1<sup>st</sup> Thursday  
December  
2022

08:00 – 09:00

Registration

SESSION 1

09:00 – 10:30

(YOUNG RESEARCHERS)

**CHAIRPERSONS:**

Maj. Gen. Dr. Tarek Taha, Maj. Gen. Dr. Abdallah Yehia, Prof. Amel Naguib, Prof. Amal Zidan

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|---------------|---|
| 09:00 – 09:15 | Autophagy-Mitophagy related serum markers for the early detection of hepatocellular carcinoma<br><b>Dr. Nourana Gamal</b>   |
| 09:15 – 09:30 | Study of Vancomycin Susceptibility pattern among Staphylococcus Auris isolated from superficial incisional surgical site infection<br><b>Cap. Dr. Aly Mohamed Aly</b>   |
| 09:30 – 09:45 | Application of immuno- informatics and machine learning for design and evaluation of effective multiepitope viral vaccine<br><b>Dr. Mostafa Raafat</b>                  |
| 09:45 – 10:00 | Efficacy Of Tocilizumab On Critical Intensive Care Unit COVID-19 Patients: Retrospective Study Among Egyptian Armed Forces Hospitals.<br><b>Cap. Dr. Mahmoud Khaled</b> |
| 10:00 – 10:15 | Why Data Matters: Role of diagnostics in AMR<br><b>Dr. Asif Samad</b>   |
| 10:15 – 10:30 | Discussion  |

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Opening Ceremony

10:30 – 11:00

- Holy Quran
- National Anthem

**Maj. Gen. Dr. Raafat Zaher Abdel- Rahman**

Manager of armed forces laboratories for medical research and blood bank

**Maj. Gen. Dr. Hisham Mosaad Al- Sheshtawy**

Chief Of Medical Services Administration, Armed Forces

**Maj. Gen. Dr. Mostafa Abo-Hatab**

Assistant to Minister of Defense for Medical Services

**11:00 – 11:15 Coffee Break**

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SESSION 2  
(IMMUNOLOGY)

11:15 – 13:15

### CHAIRPERSONS:

Prof. Mohamed Sherif, Maj. Gen. Dr. Raafat Zaher, Prof. Mervat Ansary, Prof. Nancy El- Guindy,  
Prof. Reem Jan

- |                      |  |
|----------------------|--|
| 11:15 – 11:30        | Accreditation of the histocompatibility & immunology labs. Documents and doing<br><b>Prof. Medhat Askar</b>  |
| 11:30 – 11:45        | Immune evasion and relapse post hematopoietic stem cells transplantation<br><b>Prof. Ghada Mossalam</b>  |
| 11:45 – 12:00        | Crosstalk between Tumor microenvironment and drug Resistance in Cancer cells:<br>A Promising biomarker for Cell-based therapy<br><b>Prof. Nashwa El-Khazragy</b> |
| 12:00 – 12:15        | The Role of Histocompatibility & Immunogenetics Laboratory in Hematopoietic Cell<br>Transplantation: The Service & The Consultation<br><b>Prof. Medhat Askar</b> |
| 12:15 – 12:30        | NK cell receptors: are we there yet?<br><b>Prof. Sally Elfishawi</b>   |
| 12:30 – 12:45        | Transfusion practice before, during and after hematopoietic stem cell Transplantation<br><b>Prof. Rania Bakry</b>  |
| 12:45 – 13:00        | The new Roche cobas Family. Maximize your lab's value with Roche serum<br>Work Area Systems<br><b>Dr. Magdy Lotfy</b>  |
| 13:00 – 13:15        | Discussion   |
| <b>13:15 – 13:30</b> | <b>Coffee Break</b>  |

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SESSION 3  
(CLINICAL CHEMISTRY)

13:30 – 15:15

### CHAIRPERSONS:

Prof. Kareem Shahin, Maj. Gen. Dr. Ahmed Khaled, Prof. Abla Abo-Zaid, Prof. Azza Saleh,  
Prof. Samah Bastawy

- 13:30 – 13:45      Towards standardisation of molecular reports world wide  
**Prof. Sahar Abdel-Aaty**
- 13:45 – 14:00      Management of Postanalytical Phases: Increasing Efficiency and Reducing Errors  
**Prof. Lamia Mansour**
- 14:00 – 14:15      HbA1c: what we need to know before signing a result  
**Prof. Heba Baz**
- 14:15 – 14:30      Nutrition support in critically ill  
**Prof. Enas Mogawer**
- 14:30 – 14:45      Laboratory Data Handling for better Decision  
**Dr. Mohamed Gharib**
- 14:45 – 15:00      Genetic approach to inborn error of metabolism  
**Prof. Heba Kasem**
- 15:00 – 15:15      Discussion

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SESSION 4  
(MICROBIOLOGY)

15:15 – 16:30

**CHAIRPERSONS:**

Maj. Gen. Dr. Mahmoud Ali, Prof. Ashraf Wegdan, Prof. Ahmed Asaad, Prof. Hala Kandil

15:15 – 15:30      Presepsin is an early monitoring biomarker for predicting clinical outcome in patients with sepsis

**Maj. Gen. Dr. Mostafa Elnakib**

15:30 – 15:45      Rapid diagnostics of clinical microbiology: Pros and Cons

**Prof. Mona Wasef**

15:45 – 16:00      Enviromental and genetic biomarkers as a tool for risk assesment

**Prof. Wagida Anwar**

16:00 – 16:15      QIAstat-Dx for syndromic testing, Get the right diagnosis the first time

**Dr. Omar Adel**

16:15 – 16:30      Discussion

**16:30 – 17:30      Lunch**



2<sup>nd</sup> Friday  
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**SESSION 5  
(HEMATOLOGY)**

**09:30 – 11:30**

**CHAIRPERSONS:**

Prof. Neveen Kasem, Maj. Gen. Dr. Ahmed Nabih, Prof. Magdy Bordini, Prof. Sahar Kamal,  
Prof. Yousry ELZohairy, Brag Dr. Tarek Megahed

- 09:30 – 09:45      Problems in diagnosis of VWD  
**Brag. Dr. Osama Bekhiet**
- 09:45 – 10:00      Quality control in flow cytometry lab  
**Prof. Soha Younis**
- 10:00 – 10:15      Polycythemiaevolution. Novel thereby, Follow up case study  
**Brag. Dr. Ahmed Farouk Elshamy**
- 10:15 – 10:30      Digital hematology morphology  
**Prof. Gina Zini**
- 10:30 – 10:45      Pitfalls in bone marrow pathology: avoiding errors in the histological interpretation  
of bone marrow trephine biopsy  
**Maj. Gen. Dr. Mohamed Abdel- Rahman**
- 10:45 – 11:00      Plasma cell dyscrasia, New updates  
**Prof. Basma EL- Gamal**
- 11:00 – 11:15      Extrasosseous Plasmacytoma  
**Col. Dr. Haytham Mohamed**
- 11:15 - 11:30      Discussion
- 11:30 - 12:30      Friday Prayer & Coffee Break**



**SESSION 6**  
**(MICROBIOLOGY)**

**12:30 –14:00**

**CHAIRPERSONS:**

Prof. Wael Hablas, Abdallah El- Beialy, Prof. Haidy khalil, Prof. Saeed Abady

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|---------------|--|
| 12:30 – 12:45 | Respiratory viral infections during Covid-19 pandemic<br><b>Col. Dr. Ahmaed Gad</b>  |
| 12:45 – 13:00 | Implementation of care bundles for the prevention of ventilator associated pneumonia<br><b>Prof. Nadia Madany</b>                        |
| 13:00 – 13:15 | Next Generation Sequencing in Clinical Microbiology<br><b>Prof. Sahar Khairat</b>  |
| 13:15 – 13:30 | SARS-COV-2 antibody testing Versus Nasopharyngeal and Oropharyngeal swab Sample Polymerase Chain Reaction<br><b>Col. Dr. Ahmed Mousa</b> |
| 13:30 - 13:45 | Digital transformation cost control<br><b>Eng. Amr Saleh</b>   |
| 13:45 - 14:00 | Discussion   |

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SESSION 7  
(TRANSFUSION)

14:00 – 14:45

**CHAIRPERSONS:**

Prof. Faten Moftah, Brag. Dr. Ahmed Farouk, Prof. Fadia Attia

14:00 - 14:15      A practical approach to resolving ABO Discrepancies  
**Prof. Salwa Yousef**

14:15 - 14:30      Red cell antibody screening, overview and clinical applications  
**Prof. Bahy Ayoub**

14:30 - 14:45      Discussion

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SESSION 8

14:45 – 16:15

(BLOOD BANKING)

### CHAIRPERSONS:

Prof. Nehad Mohamed Mahmoud, Brag. Dr. Mohamed El-Badawy, Prof. Fekry Gobran

- 14:45 – 15:00      Resolving serological problems in the transfusion lab ( case studies)  
**Dr. Dalia Mohamed Abdelsalam**
- 15:00 – 15:15      Blood group compatibility: Does it matter in platelet transfusion?  
**Prof. Azza Sadek**
- 15:15 – 15:30      Roche Blood Safety Solutions - Delivering confidence in transfusion safety from  
donor to patient  
**Dr. Ahmed Wasfi**
- 15:30 – 15:45      Discussion
- 15:45 – 16:15      Closing
- 16:15 – 17:15      Lunch**

# SAVE — THE — DATE

**20<sup>th</sup>–21<sup>st</sup> October 2023**  
Triumph Luxury Hotel, New Cairo



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