

MAY

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# MACHS NEWSLETTER

# VOL 5 ISSUE 3

MAY

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# COLLEGE NEWS

## NCAAA ACCREDITATION FOR NURSING

كلية محمد المانع للعلوم الطبية  
Mohammed Al-Mana College for Medical Sciences

اعتماد  
NCAAA  
المركز الوطني  
للتقويم والاعتماد  
الأكاديمي

تتقدم إدارة الكلية بالشكر والتقدير لجميع منسوبي قسم التمريض من أعضاء وعضوات هيئة التدريس وموظفين وموظفات، وطلاب وطالبات، لجهودهم وسعيهم في

# حصول برنامج التمريض على الاعتماد البرامجي

من هيئة تقويم التعليم والتدريب، ونسأل الله أن يزيد القسم نجاحاً وتوفيقاً وأن يحقق الأهداف المنشودة منه خدمة للعلم والتعليم وللمملكة العربية السعودية

   MACHSCOLLEGE

MACHS management proudly announces the NCAAA accreditation for the Nursing program. The management is hereby extending its genuine gratitude for the endless efforts by the Nursing staff and students, and everyone involved for accomplishing NCAAA requirements. Let us all cheer up, celebrate the accomplishment, and encourage the remaining programs to erect their flags onto the summit, too!

## IN LOVING MEMORY OF A TRUE DREAMER

On June 7th, we remember the deceased Mohamed Abdullah Almana, the founder of Almana General Hospital who fathered the idea of establishing MACHS. May his soul rests in eternal peace

كلية محمد المانع للعلوم الطبية  
Mohammed Al-Mana College for Medical Sciences



### في ذكرى وفاة المغفور له "محمد عبد الله المانع"

يصادف اليوم الذكرى السنوية لوفاة المغفور له محمد  
عبدالله المانع المؤسس لمستشفيات المانع وصاحب  
الحلم لتأسيس هذه الكلية

عمل محمد المانع كمترجم بالديوان الملكي مع الملك عبد  
العزیز آل سعود وشهد مراحل توحيد المملكة.

ساهم في تأسيس مدينة الخبر وكان من ضمن أعضاء المجلس  
البلدي الأول المعين لها.

كان من المشجعين على العلم والتعليم وبخاصة تعليم الفتيات  
وساهم في بناء أول مدرسة للبنات بالشرقية.

كان يرغب بتأسيس كلية للطب لكنه كان يقول إذا أنشأنا كلية فمن  
أين سنأتي بالطلبة حيث كان التعليم في بداياته.

رحم الله محمد عبد الله المانع  
وأسكنه فسيح جناته

## COLLEGE NEWS

### FOLLOW YOUR DREAM

The Admission department is pleased to announce the admission commencement for the first semester of the academic year 2023/2024 on Sunday, June 11th, 2023.

كلية محمد المانع للعلوم الطبية  
Mohammed Al-Mana College for Medical Sciences

تعلن كلية محمد المانع للعلوم الطبية فتح

# باب القبول

لبرنامج البكالوريوس  
للفصل الدراسي الأول 1444-1445 هـ

تقدم الكلية عدد من المنح الكاملة والجزئية

للبدء بأول خطوة، امسح الباركود

التخصصات المتاحة

الصيدلة، التمريض، المختبرات الطبية، العلاج التنفسي، العلاج الطبيعي

تطبيق الشروط والأحكام ولمزيد من التفاصيل زوروا موقعنا

MACHSCOLLEGE MACHS.EDU.SA

# PUBLIC RELATIONS

## GRADUATION CEREMONY 2023

كفالة الزميلة 11

حفل تخرج كلية محمد المانع  
للعلوم الطبية لعام 2023

"بداية عمر مشوار .. تخلّق ليس من عدم  
سأنهي اليوم ما بدأت .. به رؤيائي في الحلم  
لأبدأ بعدها فـصلاً .. من الإنجاز والهيّقم"



MACHS celebrated the 11th graduation for the year 2023 on June 12th, under the gracious sponsorship of Her Highness, Princess Abeer bint Faisal bin Turki Al Saud, the spouse of HRH, the Governor of the Eastern Province.

CHECK PAGE 24 FOR THE GALLERY

# COLLEGE NEWS

## NCAAA ACCREDITATION FOR MDLB

On June 25th, 2023, the Medical Laboratory program was granted the Conditional Accreditation Certificate for the period from July 2023 till June 2025. MACHS administration hereby extends its appreciation to every personnel involved in this achievement from Admin, MDLB staff and students, and Quality department for their commitment and hard efforts.



تتقدم إدارة الكلية بالشكر والتقدير لجميع منسوبي  
قسم المختبرات الطبية لجهودهم وسعيهم في

## حصول برنامج المختبرات الطبية الاعتماد البراهجي

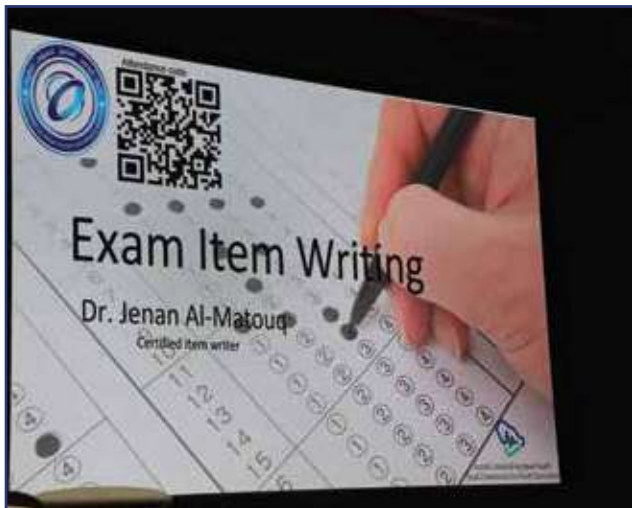
من هيئة تقويم التعليم والتدريب. نسأل الله أن يزيد القسم نجاحاً  
وتوفيقاً وأن يحقق الأهداف المنشودة منه خدمة للعلم والتعليم  
بوطننا الغالي

MACHSCOLLEGE



# QUALITY AFFAIRS

## PROFESSIONAL DEVELOPMENT ITEM WRITING



On May 14th, 2023, the professional development unit organized a workshop that focused on blueprinting design and writing MCQ items that can test lower and higher cognitive skills and analyzing MCQ-Items.



# QUALITY AFFAIRS

## PROFESSIONAL DEVELOPMENT Rubric Development workshop



On May 17th, 2023, the Professional Development Unit organized a workshop that aimed to provide MACHS employees with the skills and techniques necessary to grasp the basic concept of rubric development to master content and use these skills with different evaluation needs.

# QUALITY AFFAIRS

## PROFESSIONAL DEVELOPMENT Item Banking workshop



On May 18th, 2023, the Professional Development unit, in collaboration with Imam Abdulrahman bin Faisal University, conducted a workshop titled 'Item Banking and Developing Equivalent Forms of Exams' - presented by Dr. Wissam Mohammed. The workshop focused on the importance of creating question banks, the necessary requirements, and models to be used to describe the courses and learning outcomes for the program. Additionally, the speaker presented a set of softwares that can be used to assess student learning results and outcomes.

# QUALITY AFFAIRS

## PROFESSIONAL DEVELOPMENT

### Policy Writing workshop

On May 23rd, 2023, the Professional Development unit organized a Policy Writing workshop that aimed to identify the value, structure and standards of policy and procedure documents. The attendees were also given the opportunity to practice writing policy statements based on given scenarios and to write procedures to correctly follow them. The workshop also sought to identify the good practices of policy documentation and maintenance.



# QUALITY AFFAIRS

## PROFESSIONAL DEVELOPMENT

### "Cancer Stem Cell Dormancy" Workshop

The Research Committee at the Medical Laboratory department, in collaboration with the Professional Development unit, organized a scientific research seminar to discuss and review some main research concepts on: "Cancer Stem Cell Dormancy". The seminar was conducted physically on 8th of June, 2023, and presented by Dr. Bader Al Alwan, assistant professor at the Medical Laboratory Department. The seminar sparked a research interest among MDLB community with many exciting research opportunities.



# ACADEMIC DEPARTMENTS

## PHYSICAL THERAPY

### **A Recent Research Study Examining Convergent Validity of a Physical Activity Pediatric-Reported Outcome Measure with Wearable Step Trackers Worn for a Week**

Dr. Reem Abdrabalrasoul Algheryafi, an assistant professor in the Physical Therapy Department at MACHS, conducted a research study in collaboration with Dr. Carole A Tucker, the Associate Dean of Research at University of Texas Medical Branch, and other researchers at Temple University, Janssen Global Services LLC, Northwestern University, USA. In this study, they examined convergent validity of the Patient Reported Outcome Measurement Information System-Pediatric Physical Activity instrument (PROMIS®-PA) with step counts from wearable devices and another validated self-reported instrument. Furthermore, they explored the effect of different recall timeframes (7-day, end of day [EoD], and ecological momentary assessment [EMA] during day). The PROMIS®, supported by the National Institutes of Health (NIH), developed psychometrically robust self-reported outcome measures across multiple health domains for use as clinical trial endpoints. The pediatric PROMIS®-PA measure was developed using a mixed-methods approach. The PROMIS-PA instrument typically uses a 7-day recall period, which requires recall over an extended period and may contain recall bias. The EMA, more frequent reporting (e.g., several times a day or daily) of a behavior of interest (e.g., physical activity), has emerged as an option for self-report to reduce recall bias. Dr. Algheryafi and her colleagues' findings supported the validity of PROMIS-PA as a measure of self-reported physical activity when compared with other instruments in school age children and adolescents (aged 10-20). The long-term research goals of Dr. Algheryafi involve improvements in the rehabilitation services delivered to children with physical disabilities based on sound assessment of their conditions.

# ACADEMIC DEPARTMENTS

## RESPIRATORY THERAPY DEPARTMENT ASTHMA AWARENESS DAY

On May 16th, 2023, the Respiratory Therapy department organized an educational event meant to increase the awareness of Asthma in respect to its pathophysiology, risk factors, triggers, management, and treatment in order to enhance the understanding and self-control over the symptoms in the society.



# ACADEMIC DEPARTMENTS

## PHARMACY

### SAFETY IN WORKPLACE AWARENESS



On May 23rd-24th, 2023, awareness campaigns were organized by Pharmacy and Respiratory departments for the staff of National Oilwell Varco, which aimed to raise the awareness of safety at workplace. MACHS faculty and students were toured inside the industry to witness the safety procedures for the workers.

Additionally, stations were prepared to check the workers' vitals including blood sugar and pressure while educating about the importance of maintaining an ideal weight, problems of obesity and nutritional requirements for a healthy body.

# ACADEMIC DEPARTMENTS

## RESPIRATORY THERAPY & PHARMACY NO TOBACCO DAY

On May 31st, 2023, Pharmacy and Respiratory departments organized the 'No Tobacco Week' campaign. It started with an activity to raise awareness of smoking cessation and specific health risks of tobacco including lung cancer, heart disease and stroke. A corner for counselling and medications used for cessation was prepared to demonstrate studies and experiences of tobacco user's chance of successfully quitting.





# RESEARCH NEWS

## RESEARCH PUBLICATIONS

1

Algheryafi RA, Bevans KB, Hiremath SV, Lai J-S, Tucker CA. Convergent Validity of the Patient Reported Outcome Measurement Information System-Pediatric Physical Activity Instrument (PROMIS®-PA) with Wearable Devices in Adolescents. *Children*. 2023; 10(6):940. <https://doi.org/10.3390/children10060940>

Indexing: Scopus



PubMed



Web of science



**PUBLICATION**

Quartile: Q2

Impact Factor: 2.835

2

Reem Hassan, Nourah Ali Alrasheed, Ahmad Al Sayegh, Ali Almobark, Nuzhat Banu and Mohammad Daud Ali, Knowledge, attitude, and practice of using Antibiotics Among the Community in Eastern Province, Saudi Arabia. *Journal of Pharmacy and Bioallied Sciences*. (Accepted).

Indexing: Scopus



PubMed



Web of science



**PUBLICATION**

3

Al Khamees, Mohammad, et al. "Prevalence of Iron Deficiency and its Association With Breast Cancer in Premenopausal Compared to Postmenopausal Women in Al Ahsa, Saudi Arabia." *Cancer Informatics* 22 (2023): DOI: <https://doi.org/10.1177/117693512311725>

Indexing: Scopus



PubMed



Web of science



**PUBLICATION**

4

Albasha, S. A., Almotawa, M. Z., Alsaleh, A. A., Alibrahim, N. N., Alamoudi, M. K., Al Mohsen, Z. F., Aldawood, Y., Al-Taweil, H. A., Al Shaikh, F. J., & Almatouq, J. (2023). Examining the DNA Methylation Profile of Childhood Solid Tumors to Identify Novel Therapeutically Targeted Sites. *The Journal of Pharmacology and Experimental Therapeutics* 2023, 385 (S3), 438. DOI: <https://doi.org/10.1124/jpet.122.535980>.

Indexing: Scopus



Quartile: Q2

Impact Factor: 4.402

**PUBLICATION**

# RESEARCH NEWS

## RESEARCH PUBLICATIONS

5

Almotawa, M. Z., Albasha, S. A., Alsaleh, A. A., Alibrahim, N. N., Radwan, Z. H., Alhashem, Y. N., Almatouq, J., & Alamoudi, M. K. (2023). Targeting Epigenetic Modification of T-Cell Inflamed Signature to Enhance Immune Checkpoint Inhibitors Response in Small Cell Lung Cancer. *The Journal of Pharmacology and Experimental Therapeutics* 2023, 385 (S3), 435. DOI: <https://doi.org/10.1124/jpet.122.536220>.

Indexing: Scopus



PubMed



Web of science



**PUBLICATION**

Quartile: Q2 Impact Factor: 4.402

6

### PHYSICAL THERAPY JOURNAL CLUB

A Journal club session in the PT lab on 5/6/2023, organized by the departmental Research Committee Chair, Dr. Reem A Algheryafi:

The discussion was guided by Dr. Fatimah Jaffar Al Shaikh for the following article:

Anne Bruton, Amanda Lee, Lucy Yardley, James Raftery, Emily Arden-Close, Sarah Kirby, Shihua Zhu, Manimekalai Thiruvethiyur, Frances Webley, Lyn Taylor, Denise Gibson, Guiqing Yao, Mark Stafford-Watson, Jenny Versnel, Michael Moore, Steve George, Paul Little, Ratko Djukanovic, David Price, Ian D Pavord, Stephen T Holgate, Mike Thomas, Physiotherapy breathing retraining for asthma: a randomised controlled trial, *The Lancet Respiratory Medicine*,

Volume 6, Issue 1,  
2018,

Pages 19-28,  
ISSN 2213-2600,

**PUBLICATION**

7

Nazar, Z., Al Hail, M., Al-Shaibi, S., Hussain, T. A., Abdelkader, N. N., Pallivalapila, A., Thomas, B., Kassem, W. E., Hanssens, Y., Mahfouz, A., Ryan, C., & Stewart, D. (2023). Investigating physicians' views on non-formulary prescribing: a qualitative study using the theoretical domains framework. *International journal of clinical pharmacy*, 10.1007/s11096-023-01616-7. <https://doi.org/10.1007/s11096-023-01616-7>

Indexing: Scopus



PubMed



Web of science



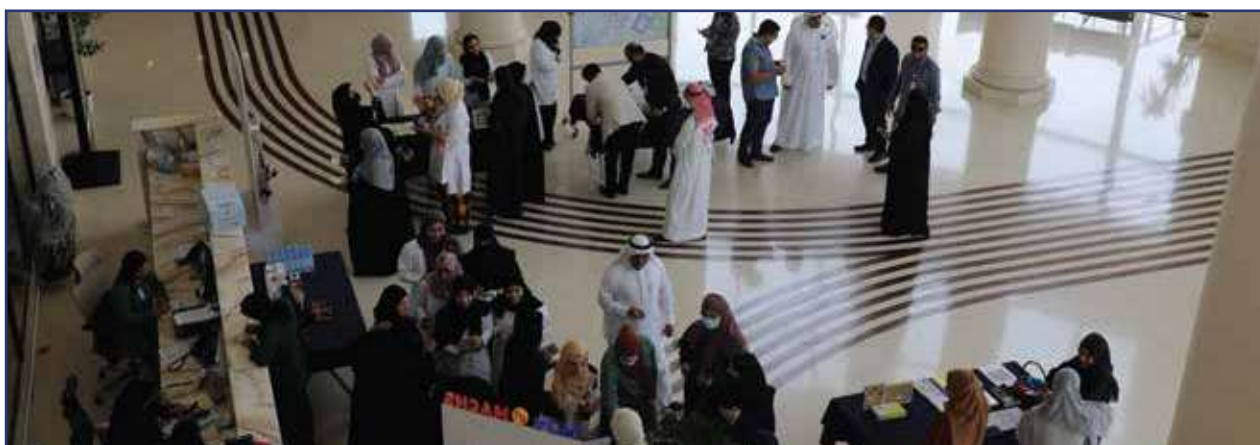
**PUBLICATION**

Quartile: Q1 Impact Factor: 2.4

# HUMAN RESOURCES

## HUMAN RESOURCES DAY

On May 18th, 2023, the Community Service Committee organized the World's Human Resources Day that aimed to introduce MACHS HR units and achievements. The HR department welcomed all suggestions from the employees and prepared a few activities and contests for the staff.



# HUMAN RESOURCES

## WELCOME NEW EMPLOYEES



# STUDENT AFFAIRS

## STUDENT COUNCIL

**MACHS family wishes all the best for the students who won the Student Council seats for the academic year 2023/2024.**

كلية محمد المانع للعلوم الطبية  
Mohammed Al-Mana College for Medical Sciences



تتقدم كلية محمد المانع للعلوم الطبية بتهنئة الطلاب الفائزين في  
**انتخابات المجلس الاستشاري الطلابي**  
للعام 2023-2024. نتمنى لهم التوفيق والنجاح

قسم الصيدلة



حصة الشاهين  
زهراء الجليح

قسم التمريض



سارة الحاج  
زهراء السليس

قسم الرعاية التنفسية



غيداء المبارك  
نورة البوخيت

قسم علوم المختبرات الطبية



فرح الشمري  
فاطمة المرهون

قسم العلاج الطبيعي



فاطمة الناصر  
أريج أبوه زيد

كما نشكر أعضاء المجلس الطلابي لعام 2023-2022  
على ما قدموه خلال عضويتهم في المجلس

# STUDENT AFFAIRS

## TEDX AT KSU-HS

On May 8th, 2023, the Student Affairs and the Intellectual Awareness unit organized a students' trip to attend TEDx Talk held at King Saud University for Health Sciences in Riyadh. The event hosted elite speakers to enhance the concept of identity and the values of belonging to the homeland and loyalty to leadership in the hearts of university students, and to promote the values of moderation, tolerance and positivity, as well as to protect society from various threats to national identity.



# STUDENT AFFAIRS

## MACHS MODEL UNITED NATIONS

On May 18th, 2023, Toast MACHSters Club and the Intellectual Awareness unit organized MACHS Model United Nations, which discussed belonging to the homeland and supporting its international views and agenda.



# ADMISSION DEPARTMENT

## SCHOOL VISITS AND MORE

On May 4th, 2023, the Admission department participated in a number of events held at various institutions and healthcare centers to showcase the college's medical programs and admission requirements for high school graduates and interested diploma carriers, by presenting MACHS goals, objectives, and action plans. Some of these institutions and healthcare centers included Dhahran International Schools, John Hopkins Healthcare Center and Career Guidance Event - by the Ministry of Education.





# ALUMNI UNIT

## HOW TO PREPARE FUTURE NURSES TO WORK ENVIRONMENT



On June 4th, 2023, the alumni unit - under the supervision of Mrs. Israa Turmukh - organized a workshop titled 'How to prepare future nurses to work environment' that aimed to familiarize the nursing interns with their future work environment. The committee invited two MACHS alumni as speakers, Ms. Bushra Al-Faraj and Mr. Abbas Al-Shokan, to share their experience in the medical field. More than 50 nursing interns attended the workshop and actively participated in the discussions.

# PUBLIC RELATIONS

## PHOTO GALLERY



# PUBLIC RELATIONS

## PHOTO GALLERY



# FINANCIAL AID DEPARTMENT

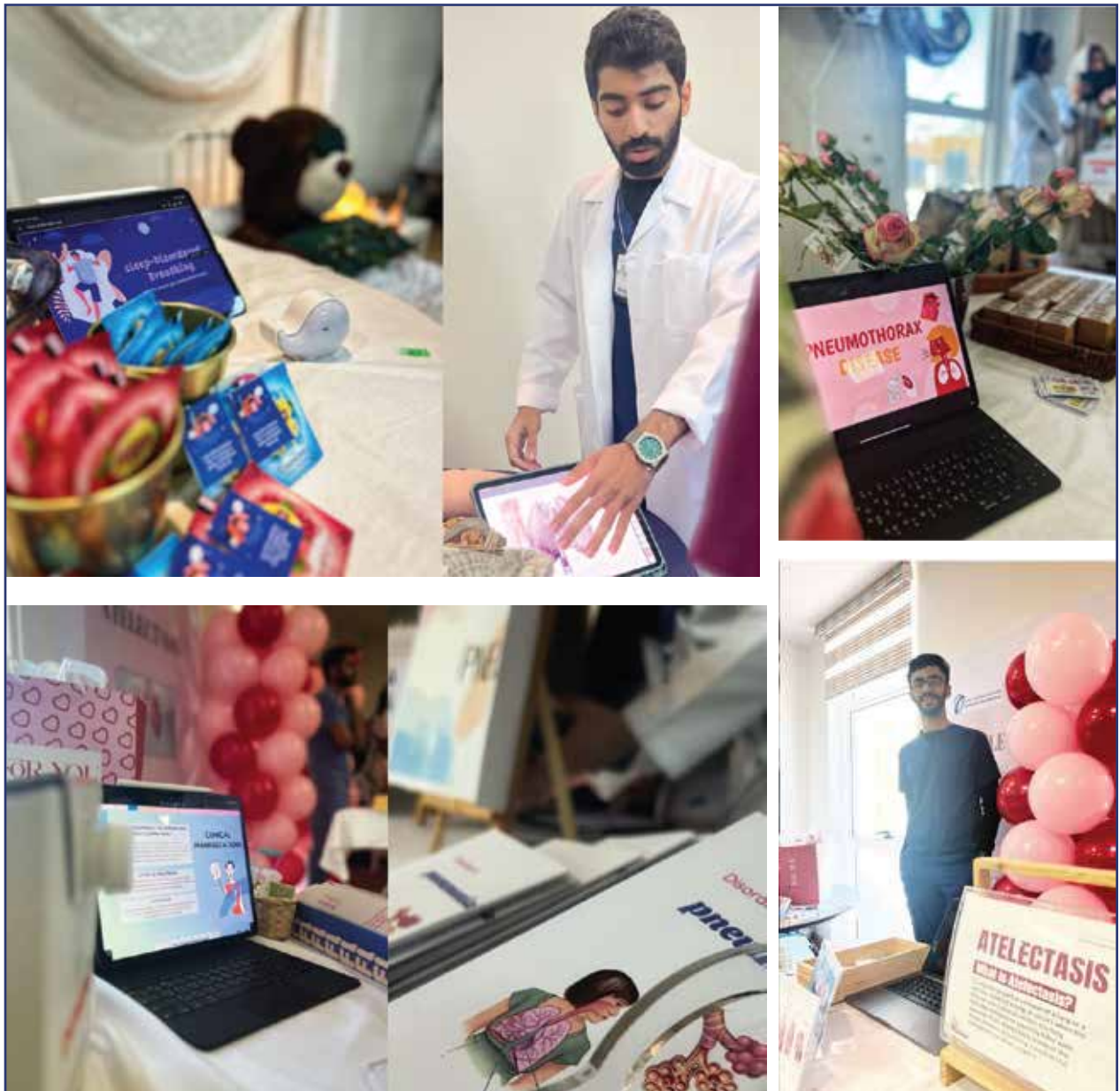
## MUBADARAT TAALUM GRADUATES

In pursuit of community service and support to a category of our dear graduates, Mohammed Al-Mana College for Medical Sciences attended two events organized by the charities in collaboration "Qatif Charity" and "Tarout Charity" on July 12th , 2023 celebrating Mubadarat Taalum "مبادرة تعلم" graduates. Represented by Dr. Alaa Al Helaili, the director Admission and Registration department, the college congratulated its students and wished them continued excellence.



# COMMUNITY SERVICE

## Cardiopulmonary Disease Awareness



On May 4th, 2023, the Respiratory Therapy department, in collaboration with community service, organized an awareness day regarding the cardiopulmonary diseases. Under the supervision of Dr. Shereen and Mrs. Heba, groups of RT students delivered, demonstrated and discussed various types of diseases, treatments and condition management in presence of MACHS staff and students.

# COMMUNITY SERVICE

## Slow Down, Save Lives.



On May 16th, 2023, MDLB community service committee, in collaboration with Orbit International School, organized a successful community campaign commemorating the United Nations Road Safety Week. The goal was to draw attention to the high number of deaths and injuries resulting from traffic accidents. The campaign's objective was to raise the awareness among the next generation about the consequences of high-speed driving that is believed to be the main factor of life losses and serious injuries from traffic accidents. Road traffic injuries continue to be a major public health issue and a leading cause of death and disabilities in children and youths worldwide. Around 3,000 children and youths are killed or seriously injured on roads every day, which may be largely preventable by changing the reckless driving behavior on the roads.

By: Deya Eldin Mohamed

# CME AND PROFESSIONAL DEVELOPMENT

## Prevention of Medical and Medication Errors in Healthcare Setting



On June 18th, 2023, the Continuous Medical Education unit held a medical symposium accredited by the Saudi Commission for Health Specialties titled 'Prevention of Medical and Pharmaceutical Errors in the Healthcare Environment'. Specialized speakers from various medical specialties participated in this symposium, where they highlighted the best practices associated with safe medication systems. The speakers also identified and proactively prioritized facility-specific gaps in medication systems associated with surgery or after discharge to avoid harm to the patient.

## **AWARDS**

# **MEDICAL LABORATORY & RESPIRATORY THERAPY**

### **DEPARTMENTS MAKE SIGNIFICANT RESEARCH CONTRIBUTIONS IN ASEPT INTERNATIONAL CONFERENCE AT USA BY IDENTIFYING A NEW TREATMENT STRATEGY FOR CANCER**

The American Society for Pharmacology and Experimental Therapeutics (ASPET) Conference was held at St. Louis Union Station, St. Louis, USA between 18th-21st of May, 2023. Three research projects by MACHS students have received the interest of many researchers at the conference and hence their abstracts were published in the JPET journal.

The first research project was presented by Ms. Manar Almutawa (Respiratory Therapy student) to demonstrate her latest novel results under the title 'Targeting Epigenetic Modification of T-Cell Inflamed Signature to Enhance Immune Checkpoint Inhibitors Response in Small Cell Lung Cancer'. The second and third research projects were conducted by Ms. Sarah Albasha (Medical Laboratory student), who presented her latest meta-analysis research results on: 'Examining the DNA Methylation Profile of Childhood Solid Tumors to Identify Novel Therapeutically Targeted Sites' and 'In Silico Analysis of DNA Methylation Status of T-Cell Inflamed Signature Reveals a Therapeutic Strategy to Improve Immune Checkpoint Inhibitors Efficacy in Wilms Tumor'

These projects were under the supervision of Dr. Abdulmonem Alsaleh (Medical Laboratory), in collaboration with Dr. Mariam Alamoudi (Prince Sattam Ben Abdulaziz University) and other faculty members from MACHS.



# ACKNOWLEDGMENT SECTION

This newsletter issue is ostensibly supported by the following who contributed articles, reports and relevant updates within their work units.

## Presented to you by:

**Edited by: Mr. Ahmed Almosabeh - Pharmacy Department**

**Created & designed by: Ms. Latifa Alawad - Public Relations**

## QUALITY AND DEVELOPMENT AFFAIRS

**Fardus aljunibi**

## ACADEMIC DEPARTMENTS

**Dr. Reem Algheryafi   Ms. Manal Surour   Ms. Fatima ALdabil**

## SCIENTIFIC RESEARCH BULLETIN

**Dr. Ayaz Ahmed**

## COMMUNITY SPOTLIGHT

**Ms. Zainab Alabduljabbar**

## HUMAN RESOURCES

**Ms. Lujain Altheeb**

## ALUMNI

**Ms. Zahiah Almohsen**

## AWARDS

**Dr. Abdulmoem Alsaleh**

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**MACHS NEWSLETTER**

**VOL 5 ISSUE 3**

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**FOR INQUIRIES**

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