

Special edition to honor the recipients of medical
awards of Hamdan bin Rashid Al Maktoum
Foundation for Medical and Educational Sciences

5 Awards

Recognizing Excellence
in Healthcare Development
and Medical Research

Winners:

Hamdan Foundation Emerges as Global
Benchmark for Excellence and Innovation
in Medicine and Science

Hamdan Foundation Honors the Winners of the Medical Excellence Awards

Judging Committees:

Hamdan Foundation Awards
Recognized as the Region's Most
Prestigious, Driving Research and
Development



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Celebrating Medical Creativity and Achievement

- Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences takes immense pride in being one of the pioneering initiatives that, since the 1990s, has consistently supported the medical sector. Since its inception as a medical sciences award, the Foundation has shone a spotlight on the extraordinary efforts of scientists, doctors, nurses, researchers, and professionals working in this vital field—a cornerstone of human health, life, and the future.
- Today's ceremony, honoring the distinguished recipients of the latest edition of the medical awards, underscores the visionary outlook of the late Sheikh Hamdan bin Rashid Al Maktoum, may his soul rest in peace. His firm belief in the importance of motivation, recognition, and appreciation for those who work tirelessly to address health challenges continues to inspire the healthcare system toward greater service quality, development, and innovation.
- Today, Sheikh Rashid bin Hamdan bin Rashid Al Maktoum, the Supreme Chairman of the Foundation, carries forward this noble mission. Under his leadership, the Foundation continues to uphold the legacy of promoting excellence in health awareness, supported by a government committed to achieving the highest standards of community service. By recognizing individuals and institutions that go beyond their professional duties and demonstrate exceptional dedication to the medical field—be it through outstanding healthcare services, groundbreaking medical research, or innovative scientific achievements—we celebrate their ambitious vision and exceptional performance, which truly merit this recognition and award.
- As we honor this distinguished group of achievers, it is a fitting occasion to reflect on the immense efforts and sacrifices made within the medical institutions, whether large or small. These efforts undeniably leave a profound impact on the lives of patients and their families, reminding us to value and extend our gratitude to all those working in the healthcare sector.
- We extend our heartfelt congratulations to the winners of the 2024 awards and reaffirm the commitment of Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences to supporting outstanding medical practices locally, regionally, and internationally through its awards and initiatives, striving toward a brighter and healthier future.

Humaid Mohammed Al Qatami

Chairman of the Board of Trustees

Vision

A pioneering foundation fostering excellence

Mission

Designing and implementing distinguished awards and programs that empower achievements in medicine and education, while nurturing the giftedness of individuals



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In recognition of outstanding achievements
in the healthcare sector and scientific research

Hamdan Foundation Honors the Winners of the Medical Excellence Awards

Dubai - 'Akhbar Al Tamayoz'

Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences will honor the winners of the 2024 Medical Excellence Awards at both the Arab world and UAE levels during a ceremony at Mohammed bin Rashid University of Medicine and Health Sciences. This prestigious recognition celebrates outstanding achievements in the healthcare sector and scientific research.

His Excellency Dr. Khalifa Al Suwaidi, Secretary-General and CEO of the

Foundation, said that the awards promote a culture of innovation and scientific research in the healthcare sector, encouraging professionals to achieve distinctive accomplishments that benefit both local and Arab communities. His Excellency congratulated the winners, expressing his pride and honor in the results achieved by the winning accomplishments, research, and studies for the medical community. He emphasized that these awards reflect the Foundation's commitment to fostering innovation and celebrating excellence in the healthcare sector. They

aim to highlight the most significant achievements in the field and promote a culture of continuous development, contributing to the advancement of the sector and improving services provided to patients.

Arab Award for Research in Healthcare

In the Arab Awards, the Arab Award for Research in Healthcare was awarded to two studies: "Challenges in the Diagnostic Significance of Identifying Molecular Variant Descriptions", which was conducted by a research team from King Faisal Specialist Hospital & Research

Centre. This study involved 4,577 families and addressed the challenges of identifying and interpreting genetic variations in patients with Mendelian diseases—genetic disorders caused by mutations in a single gene.

The second study, "Transition to Oral Antibiotics in Gram-Negative Bacteremia Cases," is a randomized, open clinical trial carried out by a research team from Hamad Medical Corporation Home in Qatar, Kuwait University, and Istanbul Medipol University.

Arab Award in Genetics

The Arab Award in Genetics was awarded to Professor Dr. André Megarbane, Head of the Human Genetics Department and Assistant Dean for Research at the Lebanese American University. Dr. Megarbane is renowned for his dedication and extensive contributions to advancing knowledge about genetic disorders through early diagnosis, genetic counseling, and raising awareness while his efforts widened to include many Arab states.

Best Research in Healthcare Award (UAE Level)

In the United Arab Emirates Awards, the Best Research in Healthcare Award was granted to three outstanding studies: a study titled "Testicular Torsion Code: A Multidisciplinary Approach to Improve Outcomes in Testicular Torsion Cases". Conducted by a research team from Cleveland Clinic Abu Dhabi, the study aims to enhance patient care by providing a collaborative, multidisciplinary approach to streamline, accelerate, and optimize the treatment of testicular torsion cases.

Another Award was granted to a study titled "Innovation in Pneumonia Treatment through Guideline Adherence Review and Mortality Prediction Using Interpretable Machine Learning", conducted by a research team from the University of Sharjah, Al Qassimi Hospital, and Tawam Hospital.

The other winning study, titled "Effectiveness of Pharmacological Treatments in Managing Overactive Bladder in Children and Adolescents: A Systematic Review and Meta-Analysis", submitted by a research team from Al Jalila Children's Specialty Hospital, Cleveland Clinic Abu Dhabi, and the University of Sharjah.

Hamdan Award for Distinguished Personalities

The Hamdan Award for Distinguished Personalities in healthcare was awarded to Dr. Ali Abdulkarim Al Obaidli, Consultant in Nephrology and Organ



Khalifa Al Suwaidi:

The awards promote a culture of innovation and scientific research in the healthcare sector and encourage distinctive achievements

Transplantation and Chair of the National Organ Transplant Committee at the Ministry of Health and Prevention, and Dr. Fathiya Fardallah Alawadi, Consultant and Head of the Endocrinology and Diabetes Department, as well as Medical Director at Dubai Hospital – Dubai Health.

Innovation in Healthcare Award

The Innovation in Healthcare Award was presented to the UAE Lung Transplant Program— "Hope with Every Breath".

Another recipient of the Innovation in Healthcare Award was the study titled "Diabetes Risk Calculator for Fasting During Ramadan", conducted by an independent team from Dubai Hospital, UAE University, and Dasman Diabetes Institute (Kuwait), involving 6,736 patients from several countries, with the aim of assessing the risks of fasting on diabetic patients and raising health awareness.



• Arab Award for Research in Healthcare

- Research team from King Faisal Specialist Hospital & Research Centre
- Research team from Hamad Medical Corporation in Qatar, in collaboration with Kuwait University and Medipol University in Istanbul

• Arab Award in Genetics

- Dr. André Megarbane from the Lebanese American University

• Best Research Award (UAE Level)

- Study by a team from Cleveland Clinic Abu Dhabi
- Study by a team from the University of Sharjah, Al Qassimi Hospital, and Tawam Hospital
- Study by a team from Al Jalila Children's Specialty Hospital, Cleveland Clinic Abu Dhabi, and the University of Sharjah

• Hamdan Award for Distinguished Personalities

- Dr. Ali Abdulkarim Al Obaidli, Consultant in Nephrology and Organ Transplantation
- Dr. Fathiya Fardallah Alawadi, Head of the Endocrinology Department at Dubai Hospital

• Innovation in Healthcare Award

- UAE Lung Transplant Program – "Hope with Every Breath" by Cleveland Clinic Abu Dhabi
- Study: "Diabetes Risk Calculator for Fasting During Ramadan" by a team from Dubai Hospital, UAE University, Dasman Diabetes Institute (Kuwait), and Saifee Hospital (India)

5 Awards

Recognizing Excellence in Healthcare Development and Medical Research

Dubai - 'Akhbar Al Tamayoz'

Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences recognizes individuals dedicated to advancing healthcare and medical research through five distinguished awards. Two of these awards honor contributions at the Arab World level, while three focus on local achievements.

• Arab Award for Research in Healthcare

- This award acknowledges researchers in the Arab World who have made significant contributions by publishing impactful studies in internationally recognized, peer-reviewed scientific journals.

• **2 winners**

• **AED 200,000** per winner

Arab World Awards

1

2

• Arab Award in Genetics

- This award honors physicians and researchers specializing in human genetics and genomics in the Arab World, recognizing their substantial scientific contributions that have positively impacted the advancement of research in genetic disorders.

• **1 winner**

• **AED 370,000**

Local Awards

3

Best Research in Healthcare

- This award targets young professionals, honoring outstanding research talents and promoting a culture of scientific inquiry.

- **3 winners**

- **AED 100,000** per winner

4

Innovation Award in Healthcare

- This award is granted to projects that demonstrate outstanding innovation in the healthcare sector. It celebrates initiatives that have enhanced healthcare services in the UAE, contributing to individual well-being and community safety.

- **2 winners**

- **AED 250,000** per winning project

5

Hamdan Award for Distinguished Personalities

- This award is given to UAE nationals who have made outstanding and impactful contributions to the healthcare sector in the UAE.

- **2 winners**

- **AED 200,000** per winner



Judging Committees: Hamdan Foundation Awards Recognized as the Region's Most Prestigious, Driving Research and Development

Prof. Rabih Halwani: The submissions reflect exceptional diversity and creativity, combining precise scientific vision with modern technologies

Prof. Shamsa Al Awar: The award established a high-level competition and reinforced standards of excellence, fostering innovation for distinction

Prof. Mohamed Seghier: The awards serve as a compelling stimulus for innovation, improving current practices in the healthcare sector

Dubai – Dareen Mahmoud

Members of the medical awards judging committees for the Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences stressed that the submissions reflect exceptional diversity and creativity. They emphasized that these awards foster a competitive environment, encouraging world-class standards of excellence in medical research and services. Notably, this cycle's submissions stood out for their reliance on modern technologies. The judges highlighted that Hamdan Foundation's awards are among the most prestigious in the Middle East and North Africa, significantly impacting research and development in the region.

The judging committees comprise specialized experts from the UAE and abroad, while the evaluation process uses the advanced electronic system, Awards Force, which efficiently manages all stages of the process, including organizing nominations, assigning tasks, and ensuring transparency in judging. The system also generates detailed statistics and performance evaluation reports.

Prof. Rabih Halwani, Director of the Research Institute for Medical and Health Sciences, University of Sharjah, and a judge for the local Best Scientific Research in Healthcare Award, stated: "The submissions in this cycle demonstrate exceptional diversity and creativity, combining precise scientific vision with modern technologies. This

is evident across medical research and clinical practices, reflecting participants' maturity and commitment to addressing the local and regional healthcare sector's needs."

He added: "These awards create a competitive environment that encourages the adoption of world-class standards in medical research and services. Undoubtedly, recognition motivates individuals and institutions to enhance their capabilities, positively impacting healthcare quality and services."

According to Prof. Halwani "Clear and precise criteria of the award play a fundamental role in guiding submissions toward innovation and quality. Focusing on sound research methodology and adherence to medical ethics help

distinguish outstanding projects and ensure fair competition. These criteria also encourage participants to employ the latest technologies and keep pace with global developments in specialized medical fields."

He pointed out that the submissions in the current cycle remarkably relied on modern technologies, such as AI and digital applications in diagnosis and treatment. There was also a prominent focus on preventive health programs and primary care, alongside a striking emphasis on ethical and humanitarian aspects. This reflects a growing awareness of the importance of balancing technological progress with human values in medical practices. Prof. Halwani advised future participants to prioritize scientific accuracy at all stages of their research, utilize modern technologies, and develop solutions that align with societal needs. He also recommended focusing on ethical considerations and patient rights, as well as documenting and publishing results in accredited journals and conferences to ensure broader scientific impact and dissemination.

Additionally, he highlighted that the submissions contribute to fostering a culture of scientific research and innovation among medical professionals, enhancing collaboration among healthcare institutions, universities, and research hubs. They also help spotlight successful models and share expertise, accelerating the development and improvement of healthcare services and encouraging further investments in the medical field. He stated that these awards are a key factor in supporting and encouraging excellence and innovation. They provide moral recognition and scientific acknowledgment of innovative work, draw attention to vital and promising areas in the healthcare sector, and encourage researchers and institutions to expand their networks and enhance cooperation. This raises ambitions and strengthens the status of medical research at both regional and global levels.

He also extended his thanks and gratitude to Sheikh Rashid bin Hamdan bin Rashid Al Maktoum, Supreme Chairman of the Foundation, for his support, encouragement, and sponsorship of distinguished medical and scientific initiatives.

Finally, Prof. Halwani praised the efforts of all those involved in organizing the awards and motivating researchers,



Rabih Halwani



Shamsa Al Awar



Mohamed Seghier

doctors, and healthcare professionals to present their best ideas and research. He concluded: "This forward-looking vision and ambitious initiatives represent a valuable addition to the journey of scientific progress and contribute to establishing a culture of excellence and creativity in the Arab world."

High-Level Competition

Prof. Shamsa Al Awar, Obstetrics and Gynecology Department Chair at the College of Medicine and Health Sciences, UAE University, and a judge for the Hamdan Award for Distinguished Personalities in the UAE, described the submissions as 'excellent.' She said: "The award has established a high level of professional competition and clearly reinforced standards of excellence, making the evaluation and classification of all submissions a smooth and effective process."

Prof. Shamsa added: "The diversity of the applications and their societal impact have added significant value, with passionate work emerging as a clear factor in achieving success. The award has also laid a strong foundation for creating benchmark standards aimed at excellence, fostering innovation, and setting high standards for achieving distinction and leadership."

Compelling Stimulus

Prof. Mohamed Seghier, from the Department of Biomedical Engineering and Director of the Healthcare Engineering Innovation Center at Khalifa University of Science and Technology and a judge for the local Innovation in Healthcare Award jury, praised the high standard of applications, noting they reflect the quality of innovations emerging in the UAE.

He stated: "Such awards serve as a compelling stimulus for innovation, directly contributing to the improvement of current practices in the healthcare

sector. This is particularly significant as some applications included pioneering solutions with a direct impact on the health of citizens and residents in the UAE. The quality of these applications highlights the high value these awards hold for participating teams."

Prof. Mohamed emphasized that the award focuses on critical evaluation criteria, sending a clear message about the expected quality standards for research and innovation. These criteria include innovation and originality, feasibility and implementation, quality, and ethical considerations.

He further noted that this year's cycle was distinguished by the exceptional quality of submissions, which came from different emirates and a variety of institutions. These submissions targeted diverse needs and employed a wide range of technologies, showcasing the award's ability to attract a broad spectrum of innovative ideas.

Prof. Mohamed recommended clarity and thoroughness in highlighting the impact and originality of proposed solutions during evaluation. He suggested providing clear examples of how the solutions function and their potential impact on the healthcare sector, particularly for evaluators who may not share the same level of expertise as the developers.

He highlighted the vital role these awards play in driving innovation across the MENA region. In addition to offering incentives and increasing visibility for developers, they provide decision-makers and leaders with valuable insights into the state of innovation in the region. In the end, Prof. Mohamed expressed his gratitude to Sheikh Rashid bin Hamdan Al Maktoum for his support of this prestigious award, describing it as one of the most respected in the MENA region. He acknowledged its significant impact on advancing research and development in the healthcare field.

Arab World Awards

Arab Award for Research in Healthcare



**Research Team from King
Faisal Specialist Hospital
& Research Center**

**Study Title: Diagnostic Challenges
in Identifying Genetic Variants**



Dr. Lama Al-Abdi



Dr. Fawzan Alkuraya



Research Team:

**The Foundation's Awards Motivate Medical
Institutions to Improve Service Quality**

Dr. Lama bint Abdullah Al-Abdi and the Research Team:

Our research team consists of a group of talented and dedicated individuals, including the coordination team, cell culture team, and team of researchers and scientists.

We extend our deepest gratitude to Sheikh Rashid bin Hamdan bin Rashid Al Maktoum, the Supreme Chairman of the Foundation, and its leadership for their pioneering efforts and prominent role in supporting excellence and innovation.

The initiatives and programs offered by the Foundation reflect a profound vision for developing individuals and institutions, contributing to building a brighter future. Thank you for your belief in excellence and your continuous encouragement, which motivates us to elevate performance standards and always strive for the best.

Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences stimulates scientific research, encourages doctors and scientists to innovate in medicine and health, and motivates medical institutions to improve the quality of services and develop new technologies to enhance healthcare. It also contributes to raising awareness about serious and rare diseases, promoting health awareness in society, and honoring individuals and research teams that provide exceptional educational and medical services. This fosters a strong and creative spirit in the medical sector.

Our research summarizes over 15 years of experience in identifying complex genetic causes and variables to achieve accurate genetic diagnoses. The award's criteria serve as a roadmap for excellence, inspiring us to adopt best practices and reinforcing our commitment to quality and innovation. Winning the award has filled us with pride and honor, enhanced our professional reputation, and strengthened the confidence of our patients and research partners, driving us to continue delivering the best.

The study addressed challenges related to diagnosing diseases caused by genetic disorders resulting from single-gene mutations. It demonstrated that addressing non-sequencing-related challenges could improve diagnostic rates by 71%, successfully identifying disease-causing variants in 54.5% of previously undiagnosed cases. The study analyzed data from 4,577



families to identify key obstacles to accurate genetic diagnoses.

The research recommended the development of an integrated diagnostic approach that goes beyond genetic sequencing techniques. This could improve detection efficiency, accelerate diagnostic processes, and provide more precise medical solutions for patients, enhancing the efficiency of healthcare systems locally and globally. Through scientific research, new treatments for chronic and complex diseases can be discovered and developed, which contributes to improving healthcare and enhancing patients' quality of life. This is particularly relevant to health challenges in the Arab world, such as genetic and rare diseases.

Scientific research also helps raise awareness about diseases and prevention methods, contributing to improved public health and reduced disease rates.

We are overjoyed and proud to have been selected for this prestigious award by the esteemed judging committee. We encourage researchers to apply and participate in this award.

Fawzan Alkuraya:

I express my appreciation and gratitude to the Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences and the esteemed judging committee for selecting our research to win the Arab Award for Research in Healthcare. Undoubtedly, receiving the news of

our winning was extremely joyful for me and the entire research team. It is a testament from a prestigious and reputable Foundation that conducted a scientific and objective evaluation of numerous high-quality research submissions from our region.

We are deeply grateful for this great honor and are pleased that the award highlights the importance of our research, which has improved the performance of genetic testing. While genetic testing is now widespread, it still faces limitations in diagnostic accuracy—a challenge that has stumped many researchers. In this study, we conducted a detailed analysis of potential causes, leading to a significant increase in diagnostic accuracy. This will positively impact healthcare for patients with genetic disorders, not only in our region but globally.

I would like to emphasize that the success of this research is closely tied to the unique genetic patterns in our region. This serves as a living example of the potential we have as local researchers to contribute to global scientific discoveries derived from our communities.

I conclude by expressing my deepest thanks to the leadership of Hamdan Foundation for encouraging such research. My gratitude also extends to the patients and their families who participated in this study. Congratulations once again to the research team and everyone who contributed to the success of this research.



Research Team from Hamad Medical Corporation in Qatar, in collaboration with Kuwait University and Medipol University in Istanbul

Clinical Study Title: "Switching to Oral Antibiotics in Gram-Negative Bacteremia"



Dr. Ali S. Omrani



Wadha Alfouzan



Research Team:

The Awards Recognize the Efforts and Scientific Contributions of Researchers

Dr. Ali S. Omrani:

Our research focused on patients with bloodstream infections and the possibility of completing their treatment with oral antibiotics. This simplifies treatment, avoids the side effects associated with intravenous therapies, and allows for early hospital discharge

Dr. Wadha Alfouzan:

We extend our thanks and appreciation to the UAE, the organizers and staff of Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences, and the judging committee for selecting our research as a winner. We hope this is one of many steps toward advancing scientific research in the Arab World, particularly in the GCC

I am a specialist in medical microbiology with over 15 years of clinical and academic experience.

I earned my medical degree from the Faculty of Medicine at Kuwait

University, completed my advanced training as a Fellow at the Royal College of Pathologists (UK) in Medical Microbiology, and hold a Master's degree in Medical Mycology from University College London. I currently serve as an Associate Professor at the Faculty of Medicine, Kuwait University.

I have held prominent leadership roles, including Head of Laboratory Medicine at Farwaniya Hospital (2015–2018) and Head of the Microbiology Unit (2012–2022). I am currently a Consultant Microbiologist at Farwaniya Hospital, specializing in multidrug-resistant organisms, healthcare-associated infections, and invasive fungal infections, with a focus on candidemia.

I have received numerous prestigious awards, including the Kuwait Foundation for the Advancement of Sciences (KFAS) Jaber Al-Ahmad Young Researcher Award in 2020. I have published over 90 peer-reviewed articles in leading scientific journals, significantly contributing to the fields of microbiology and mycology.

This study is a randomized clinical trial, adding significant value to the research paper and enhancing its importance in driving proactive changes in current practices. The study proved that switching to oral therapy with early discharge for patients with Enterobacteriaceae infections is an effective and viable option.

Our win is a recognition of the outstanding work done by the team across sites in the Middle East and North Africa, particularly in the Gulf Cooperation Council (GCC) countries.

The study demonstrated that transitioning from intravenous (IV) to oral antibiotic therapy after 3–5 days in clinically stable patients with Enterobacteriales bacteremia is a safe and effective alternative, with similar rates of treatment failure and adverse events as continued IV therapy.

Switching to oral therapy reduces the need for prolonged IV treatment, lowering healthcare costs, simplifying patient care, and improving patient comfort without compromising outcomes.

These findings support the broader adoption of oral therapy in managing bloodstream infections when clinical

Ali Omrani:

Our research simplifies treatment, avoids the side effects associated with intravenous therapies, and allows for early hospital discharge

Wadha Alfouzan:

Hamdan Foundation's awards encourage excellence in medical research, driving advancements in healthcare, and inspiring medical professionals to achieve excellence

The awards highlight efforts to address healthcare challenges in the region, promoting progress and improving health outcomes

stability and source control are achieved.

The study revealed that for clinically stable patients with Enterobacteriales bacteremia, transitioning from IV antibiotics to oral antibiotics after few days of effective IV treatment is equally effective as prolonged IV therapy, with similar rates of treatment failure and side effects.

With rising antimicrobial resistance in the region, this study supports optimizing antimicrobial use by demonstrating the safety and efficacy of oral therapy, potentially reducing the risk of resistance development.

Prolonged IV therapy increases hospital stays and healthcare costs, and transitioning to oral therapy can alleviate financial burdens on healthcare systems and patients.

Early discharge facilitated by oral therapy enhances patient comfort and reduces hospital-acquired infections, which is particularly valuable in resource-constrained settings.

The study's findings are practical

and applicable in the Middle East, where hospitals often face high patient volumes and limited resources, making efficient and effective treatment strategies critical. Promoting such evidence-based practices can significantly improve clinical outcomes and resource management in the region.

Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences holds immense importance in the medical and scientific fields. It encourages excellence in medical research by honoring groundbreaking research and innovation, driving advancements in healthcare, and inspiring medical professionals to achieve excellence.

The award highlights efforts to address healthcare challenges in the region, promoting progress and improving health outcomes.

It also draws attention to critical health issues, encouraging research and development in high-priority areas. For recipients, it serves as recognition of their hard work and scientific contributions, enhancing their careers and motivating others in the field.

We are deeply proud and grateful to receive this prestigious award and extend our heartfelt thanks to the UAE for organizing it. This achievement is dedicated to every member of our team, led by Dr. Ali S. Omrani from Qatar. I also express my gratitude to His Highness Sheikh Mishal Al-Ahmad Al-Jaber Al-Sabah, the Emir of Kuwait, and my family for their unwavering support.

I recommend that researchers focus on conducting high-impact, innovative research that addresses critical global or regional health challenges, particularly those relevant to the Middle East. Publishing in reputable journals and engaging in interdisciplinary collaborations are also key.

I express my deepest gratitude to the Foundation's leadership for their efforts in honoring and promoting excellence in medical sciences. Your work inspires researchers and healthcare professionals to strive for innovation and significantly contributes to advancing healthcare standards. Thank you for creating this platform to celebrate impactful achievements and for supporting the global medical community.

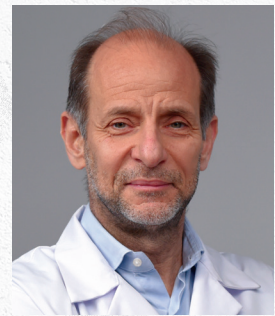
Arab World Awards

Arab Award in Genetics



Professor Dr. André Megarbane

Head of the Human Genetics Department and Assistant Dean for Research at the Gilbert and Rose-Marie Chagoury School of Medicine, Lebanese American University



André Megarbane:

Hamdan Foundation Sets a Global Benchmark for Excellence and Innovation in Medicine and Science

Dubai – Dareen Mahmoud

I begin by expressing my deepest gratitude to Sheikh Rashid bin Hamdan bin Rashid Al Maktoum, Supreme Chairman of Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences, and to all those involved in this prestigious foundation.

Your continuous support and encouragement for innovators and researchers in the medical and educational fields serve as a great source of inspiration for all of us. It significantly contributes to the development of research and innovations that benefit humanity. This award is the most important one in the Arab world and has become a global benchmark for promoting excellence and creativity in medicine and science. I am confident that this award will one day hold as much significance as the Nobel Prize. We pray for your continued success and guidance in your noble endeavors, and we promise to move forward with more contributions worthy of your great foundation's vision.

I established a clinical genetics service alongside an advanced diagnostic laboratory and dedicated myself to studying genetic diseases prevalent in Lebanon and the Arab region, as well as identifying genes associated with rare diseases.

This initiative included raising awareness among medical professionals about the importance of genetics in personalized medicine, leveraging knowledge of genetic and functional abnormalities in patients to tailor treatments more effectively. My strength in this endeavor came from practical experience and fieldwork. By traveling to various regions in Lebanon and building connections with different hospitals, I was able to identify a large number of patients with diverse genetic disorders and establish a DNA bank in Lebanon.

Through my efforts, I have published over 400 articles to date, identified more than 25 genes, and conducted molecular investigations into nearly 30 genetic diseases common in the Arab region. Additionally, I have reported over 17 new syndromes.

My research has not been limited to gene discovery but has also included treatment development.

My work has also focused on the well-



being of not only patients but also the general population. For example, I investigated the notable absence of breast cancer in women with Down syndrome, despite known risk factors in this group. I discovered a family of genes that may play a tumor-suppressing role against breast cancer in women with Down syndrome, suggesting potential applications for other solid tumors.

The pursuit of discovering new predictive factors and therapeutic or preventive strategies against breast cancer, which affects one in eight women, may soon become a reality.

Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences is a prestigious platform for recognizing outstanding contributions in the medical field and serves as a powerful source of inspiration for healthcare professionals to strive for excellence in their practices and research.

Recognition from such a reputable foundation boosts the morale of individuals and teams, encouraging further innovation and commitment to improving patient care.

By rewarding pioneering research, innovative treatments, and advanced medical practices, the award stimulates innovation within the medical community. It motivates researchers

and practitioners to push boundaries, explore new approaches, and adopt modern technologies that can lead to better healthcare solutions.

Hamdan Award does not only recognize local achievements but also highlights global advancements in healthcare. This international recognition fosters cross-border collaboration, allowing medical professionals, researchers, and institutions to share knowledge, expertise, and best practices. Such collaboration can have a profound impact on addressing global health challenges.

The award sheds light on initiatives that improve healthcare delivery, patient outcomes, and medical education. Recognition from the Hamdan bin Rashid Al Maktoum Foundation is expected to attract more investment in the winners' work, whether in research, technology, or healthcare infrastructure.

Winning this prestigious Arab Award highlights my ongoing commitment to advancing medical genetics in Lebanon and the Arab region. It brings with it the following significant impacts:

- It reaffirms my belief in the transformative potential of genetics in improving public health and personalized medicine.

- It enhances my role as a leader in the Arab region, recognizing my efforts in establishing advanced genetic services, modern diagnostic laboratories, and developing regional knowledge of genetic diseases. This honor increases the visibility of my work and encourages further progress.

- It inspires me to continue bridging the gap between research and practical applications in healthcare. It motivates me to contribute further to addressing genetic diseases, reducing healthcare costs, and improving the lives of patients and their families.

- It shines a greater spotlight on my initiatives, enhancing opportunities for international collaboration and partnerships.

- Finally, it supports my mission to nurture the next generation of researchers and doctors in the region. In fact, this award not only honors past achievements but also empowers me to continue developing genetics research, education, and healthcare practices for the benefit of Lebanon, the Arab region, and the world at large.

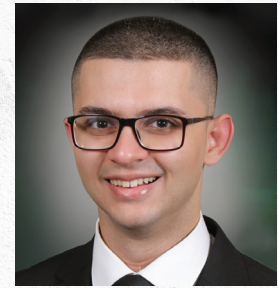
Local Awards

Best Research in Healthcare



Study: "Innovation in Pneumonia Treatment Using Interpretable Machine Learning"

Research Team from University of Sharjah, Al Qassimi Hospital, and Tawam Hospital



Dr. Kamil Samara



Study Team:

The Award is a Motivation to Pursue Giving, Excellence, and Innovation

Dr. Kamil Samara and the Research Team:

We extend our thanks and gratitude to Hamdan bin Rashid Al Maktoum Foundation for this recognition and attention to researchers, science, and scientists.

This award not only honors outstanding projects but also acknowledges the immense effort and work we have put into achieving this project.

The research took over five years of skill-building, learning, and mentorship from my professors to reach this stage. Therefore, we must not let any setbacks or difficulties hinder our journey, and we must continue striving toward our goals. We are in the United Arab Emirates,

where education and scientific research are highly valued and heavily invested in.

The prestigious status of the award was the primary motivation and strongest incentive to persevere and work hard for two full years. Winning this award is a badge of honor we will always cherish. The study aimed to evaluate adherence to community-acquired pneumonia (CAP) treatment guidelines at Al Qassimi Hospital in Sharjah, as well as to design and develop a mortality prediction model based on machine learning.

The study reviewed 783 cases of community-acquired pneumonia patients between 2016 and 2021.

One of the key findings was



microbiological diagnosis: although basic diagnostic tests were commonly performed, microbiological testing to identify the causative bacteria was limited, hindering targeted treatment. A mortality prediction model based on machine learning, named PneumoMLPred, was developed. This model showed high accuracy in predicting mortality, with the Pneumonia Severity Index (PSI), C-reactive protein (CRP) levels, and the presence of kidney diseases identified as the most significant factors associated with increased risk of death. The study revealed that antibiotic treatment was often inappropriate, particularly regarding coverage for resistant bacteria such as methicillin-resistant *Staphylococcus aureus* (MRSA) and *Pseudomonas aeruginosa*. While factors associated with mortality varied in previous studies, this study confirmed the importance of PSI, CRP,

and kidney diseases in predicting mortality.

The PneumoMLPred model is a promising tool for early identification of high-risk patients, potentially enabling more effective treatment and improved outcomes.

The research recommended increased use of microbiological testing to identify the causative bacteria, allowing for better-targeted treatment, raising awareness of the importance of adhering to treatment guidelines, particularly regarding correct antibiotic dosing, and enhancing preventive measures such as vaccination against pneumonia and influenza.

It also recommended implementing the PneumoMLPred model in hospitals to identify high-risk patients, which could contribute to improving pneumonia patient care.

The critical importance of scientific research in advancing the medical sector and saving lives is undeniable.

Awards like those from Hamdan Foundation are undoubtedly the strongest motivation to achieve this, as recognition has a profound positive impact on researchers, encouraging them to continue moving forward in their research.

The presence of motivation is the primary driver of a researcher's thinking. Knowing that their research will be recognized and honored pushes them to continue working hard and never falter until they reap the fruits of their labor, crowned with recognition through winning the prestigious Hamdan Award.

We extend our utmost respect and appreciation to Sheikh Rashid bin Hamdan bin Rashid Al Maktoum and thank him deeply for giving us the opportunity to participate and win. We wish the Foundation continued prosperity and progress, and that it remains a beacon for scientific research in the Arab world and globally.

Local Awards

Best Research in Healthcare



Study: "Efficacy of Pharmacological Treatments for Overactive Bladder in Children and Adolescents"

Team from Al Jalila Children's Specialty Hospital, Cleveland Clinic Abu Dhabi, and University of Sharjah



Dr. Tala Tallawi



Study Team:

Hamdan Foundation Awards Reflect the Highest Form of Appreciation for Scientists

Dr. Tala Tallawi:

The team consists of Dr. Tala Tallawi, Pediatric Specialist at Al Jalila Children's Specialty Hospital and Fellow in the Neonatal Intensive Care Unit; Dr. Abdulrahman Al-Midani (Resident Physician); and Dr. Zeinab Al-Koukhardi (Resident Physician).

We worked closely together to complete a high-quality scientific and research study, the results of which will improve global recommendations.

We believe that mastering and dedicating ourselves to work with the aim of achieving impactful scientific and societal results will inevitably lead to success and victory, by the grace of God. This award is a great honor for us and

has added motivation to continue giving, excelling, and innovating. We thank the organizers of the award, which is evidence of support for science and scientists.

Overactive bladder is the most common urinary problem in children and adolescents, with the main symptom being a sudden urge to urinate. It is essential to recognize and treat it during childhood to prevent it from persisting into adulthood with further complications. Unlike in adults, there is insufficient evidence for the medications used in this condition for children. The only approved medication is oxybutynin, which is known to cause many undesirable side effects in children.



Therefore, other types of medications have been explored.

To date, there are no high-quality studies investigating the efficacy of all currently available medications for overactive bladder in children and adolescents, including anticholinergics, mirabegron, and botulinum toxin. Thus, this study aims to investigate the efficacy of these medications through systematic scientific research based on global trials addressing the management of this condition.

The results of eligible trials included in this study were assessed for quality, and their data were systematically synthesized to produce a better understanding of efficacy in terms of symptom improvement and better quality of life. The overall finding is that mirabegron is more effective than some anticholinergics in improving certain overactive bladder symptoms. The research recommends conducting future precise studies comparing side effects, especially at specific ages in children.

Scientific research is the cornerstone of developing the medical sector

and addressing health challenges, serving as a fundamental factor for sustainable progress that positively impacts community health. High-quality, impactful research is crucial for enhancing the quality of medical care and scientific leadership, enabling excellence locally and globally.

This great award promotes excellence and innovation in the medical sector by highlighting outstanding achievements and motivating researchers to innovate and develop. Winning the award overwhelmed us with happiness, pride, and immense gratitude, as our efforts and work were crowned with this great recognition.

Winning the award boosts our confidence in our scientific journey, increases our responsibility to continue delivering the best and serving the community with outstanding achievements. It is not just an honor for us but also a message of hope and motivation to continue achieving more in the service of science and society, reinforcing our sense of responsibility to contribute to a better future.

We extend our sincere thanks and

appreciation to Sheikh Rashid bin Hamdan bin Rashid Al Maktoum and the Foundation's team for their pioneering efforts in supporting science and scientists.

Dr. Abdulrahman Al-Midani and Dr. Zeinab Mansour:

We express our gratitude and thanks to Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences for this initiative, especially as these awards represent the first step toward building a research- and science-based society. They also help motivate future generations.

Our research is a systematic review of a type of bladder disease in children. The participating team compared the available medications for treating this type of disease and concluded that one type is better than the others, leading to better outcomes.

This type of research helps other doctors and patients themselves know the correct recommendations and the appropriate medication for their children.

Local Awards

Best Research in Healthcare



Study: "Testicular Torsion: A Multidisciplinary Approach to Improve Outcomes in Cases"

Research Team from Cleveland Clinic Abu Dhabi



Dr. Rashed Rowaiee



Study Team:

The Foundation is a Beacon for Scientific Research in the Arab World and Globally

Dr. Rashed Rowaiee and the Research Team:

We are an incredibly motivated team of urology residents working at Cleveland Clinic Abu Dhabi. Our passion for science brings us together in the pursuit of innovation and excellence.

The research began with a problem we faced as doctors when dealing with a specific health issue in urological surgery. The goal was to improve patient outcomes during diagnosis and treatment.

Testicular torsion is a medical emergency requiring immediate detection and management to prevent testicular loss. The study aimed to assess whether a

standardized clinical pathway modeled after other ischemic emergency pathways could improve testicular salvage rates.

A clinical pathway was developed in January 2022 to evaluate all cases of acute scrotal pain presenting to the emergency department. Risk stratification was based on the Testicular Workup for Ischemia and Suspected Torsion (TWIST) score, with Doppler ultrasound used depending on the time of presentation.

Activating Testicular Torsion Code triggered a series of actions culminating in the expedited transfer of moderate- and high-risk patients to the operating room, aiming for a door-to-OR time of



approximately 60 minutes.

The study included 45 patients, with the post-implementation group showing a significant reduction in predefined metrics compared to the pre-implementation group. Time from door-to-examination decreased from 17.5 to 10.0 minutes, door-to-imaging from 62.7 to 23.1 minutes, and door-to-OR from 207.4 to 66.5 minutes. Testicular salvage rates significantly improved in the post-implementation group, with the orchiectomy rate decreasing from 52.2% to 13.6%.

The implementation of a standardized clinical pathway based on the TWIST score for acute scrotal pain, along with the creation of a hospital-wide Code Torsion, significantly improved door-to-OR times, reducing total ischemia duration and improving outcomes.

The awards from Hamdan Foundation reflect the highest form of appreciation for scientists striving to serve humanity

Rashed Rowaiee:

We thank Sheikh Rashid bin Hamdan bin Rashid Al Maktoum for his appreciation of science and scientists everywhere

Winning this award represents the culmination of our relentless efforts and gives us an incentive to continue scientific research

The awards from Hamdan Foundation reflect the highest appreciation for scientists striving to serve humanity

and its well-being everywhere. They not only honor those who have made efforts for humanity but also inspire others to follow the same path and achieve similar accomplishments.

We encourage everyone to pursue science with the aim of achieving public benefit and serving society. Good work is always appreciated and recognized, and this award is the best proof of that.

We thank Sheikh Rashid bin Hamdan bin Rashid Al Maktoum for his appreciation of science and scientists everywhere. Thank you for your support of this great initiative.

We extend our thanks to Hamdan Foundation for all the moral support and for fostering medical research and honoring science and scientists. This award is not just an honor but also a motivation for us to continue researching and advancing in the healthcare field.

Local Awards

Hamdan Award for Distinguished Personalities



Dr. Ali Abdul Kareem Al Obaidli

Consultant in Nephrology and Organ Transplantation, Chairman of the National Organ Transplant Committee – Ministry of Health and Prevention



Ali Al Obaidli:

I thank the wise leadership for providing the positive environment that helps serve humanity in this generous nation

I am delighted to win this award for the National Program for Organ and Tissue Donation and Transplantation, especially as it bears the name of the late Sheikh Hamdan bin Rashid Al Maktoum, may his soul rest in peace.

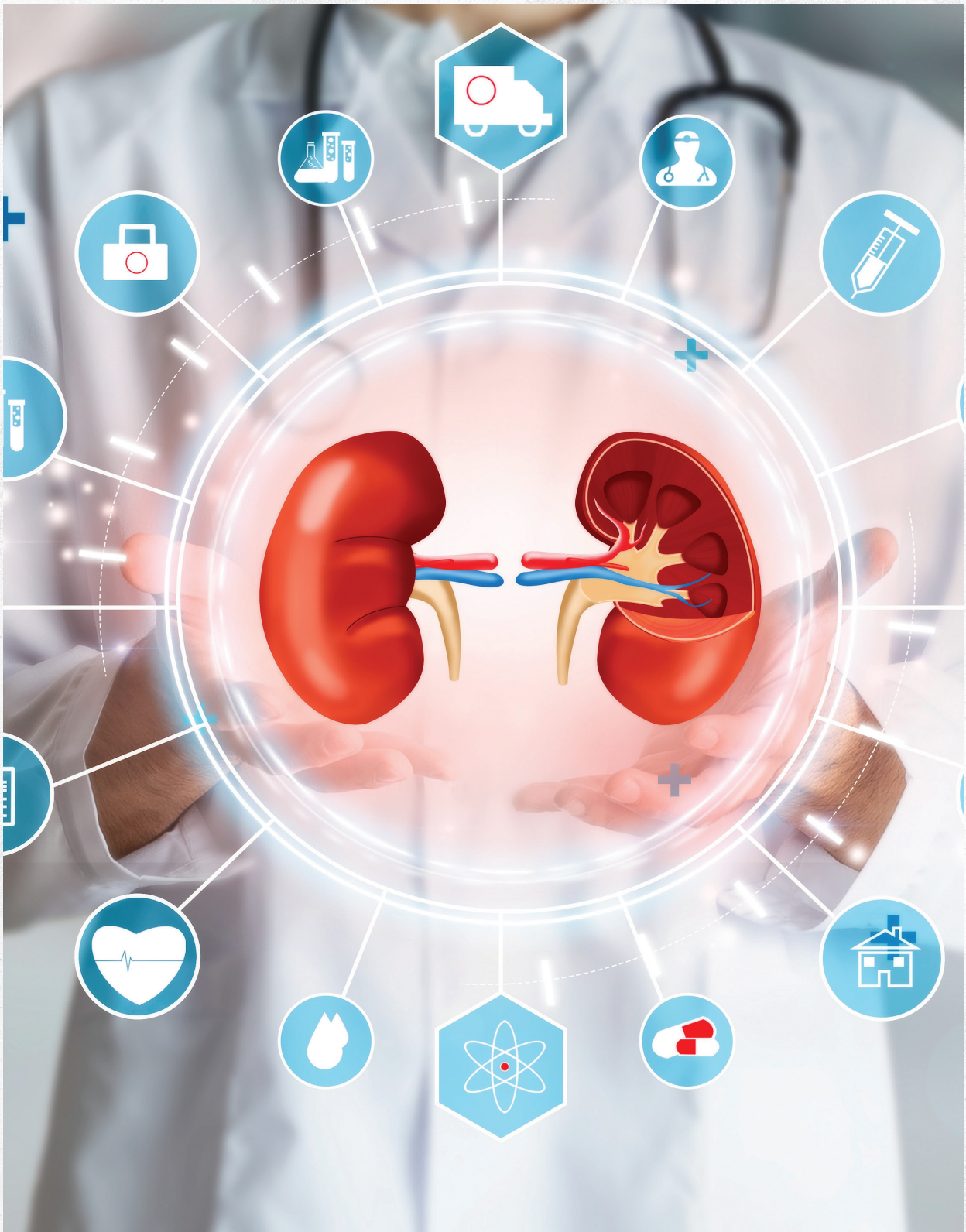
The National Program for Organ and Tissue Donation and Transplantation involves many aspects that intersect and integrate with medical, educational, and logistical sectors. Therefore, it is one of the programs that has truly benefited from the unlimited support of the wise leadership.

The UAE program stands out in terms of growth rate and the diversity of nationalities among both beneficiaries

and participants. The UAE is poised to become a model that inspires many other countries, as this program includes a preventive aspect on how to maintain a healthy life and prevent chronic diseases that lead to organ failure. The UAE program has been classified as the fastest-growing over the past five years.

I urge the community to engage with national programs, as public interaction enriches these initiatives.

I extend my thanks to the Foundation and its leadership, as well as the wise leadership that has provided this positive environment to serve humanity in this generous nation.



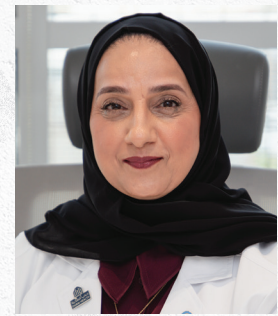
Local Awards

Hamdan Award for Distinguished Personalities



Prof. Fatheya Fardallah Al Awadi

Consultant and Head of the Endocrinology and Diabetes Department, Director of Medical Divisions at Dubai Hospital – Dubai Health Authority, President of the Emirates Diabetes and Endocrine Society (EDES)



Fatheya Al Awadi:

The Foundation motivates healthcare professionals to innovate and continuously strive to achieve the highest standards of excellence

My journey in healthcare began with a dedication to achieving academic and clinical excellence. I graduated from King Edward Medical University and pursued advanced academic training in the United Kingdom, specializing in endocrinology and diabetes at prestigious institutions such as Glasgow and Hammersmith. I delved into the diagnosis and treatment of endocrine disorders, paving the way for my future achievements.

I joined Dubai Hospital as a Consultant Endocrinologist and Head of the Endocrinology Department. I established specialized clinics tailored to meet the diverse needs of patients and expanded clinical services to ensure the delivery of high-quality healthcare.

I led the Endocrinology and Diabetes Department at Dubai Hospital toward significant expansion by introducing specialized clinics and innovative

initiatives such as telemedicine services. I also established "Combined Clinics" to provide comprehensive care for patients, including diabetes with pregnancy, diabetes with nephrology, and specialized thyroid services.

I contributed to health professions education as a Clinical Professor at Mohammed bin Rashid University of Medicine and Health Sciences (MBRU). I launched the first adult endocrinology fellowship program in the UAE as Program Director.

I initiated educational programs to enhance the skills of healthcare professionals in diabetes management and community outreach programs to raise awareness about diabetes prevention, early diagnosis, and healthy lifestyles.

I actively participated in community events such as the Beat Diabetes Walk,



reaffirming my commitment to giving back to society through volunteering and partnerships with public and private institutions.

I developed a Diabetes Registry in collaboration with the IT department and the electronic medical records team (SALAMA), leveraging data to improve care outcomes and inform diabetes management strategies.

I have published numerous studies in high-impact scientific journals and serve as the Editor-in-Chief of the Dubai Diabetes and Endocrinology Journal (DDEJ).

My career in endocrinology and diabetes management has been characterized by a relentless pursuit of excellence, driven by a passion for innovation and a desire to improve the lives of others.

From academic beginnings to leadership roles and impactful projects, my journey reflects the power of perseverance and dedication to achieving greatness. As a leader, educator, and advocate, I remain committed to advancing healthcare in the UAE and beyond.

Outside of work, I am a wife and a proud mother to an active daughter, balancing family life with my career and dedication to improving healthcare for my community.

Scientific medical research is the cornerstone upon which societies flourish, driving progress and innovation. Historically, the Arab world was a global leader in science and research during the Middle Ages,

laying the foundation for modern scientific disciplines.

The Islamic Golden Age was marked by an unparalleled openness to research and exploration, particularly in understanding human physiology and medical sciences. This culture of inquiry propelled Arab civilization to the forefront of medical advancements, introducing surgical innovations that remain integral to modern medicine.

The transformative power of research has shaped human history, enabling the development of advanced treatments that have significantly reduced infant and adult mortality rates. These advancements have not only extended life expectancy but also enhanced the quality of life for countless individuals worldwide.

Today, the Arab world has a profound opportunity—and a moral responsibility—to reclaim its legacy as a pioneer in scientific research. By fostering innovation and advancing knowledge, Arab nations and the UAE can lead the efforts in addressing global health challenges and shaping a healthier, more sustainable future for all of humanity. Through renewed dedication to research and discovery, our nation and the Arab world can once again inspire and drive progress on a global scale.

Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences plays a vital role in advancing the medical field by encouraging excellence, supporting research, and enhancing education.

As a recipient, I know that such awards prompt healthcare professionals to innovate and constantly seek higher standards of clinical excellence.

The Foundation's recognition adds immense value and assists clinicians and researchers by acknowledging their hard work, outstanding achievements, and fostering high standards for global healthcare and education.

Such recognition not only assists local and regional practitioners but also helps tackle global health challenges. By investing in educational programs, scholarships, and grants, it nurtures future leaders in medicine.

Additionally, it recognizes exceptional contributions, inspiring others while raising awareness of critical health issues.

I extend my deepest gratitude and appreciation to Sheikh Rashid bin Hamdan bin Rashid Al Maktoum for his steadfast commitment to continuing the distinguished legacy of the late Sheikh Hamdan bin Rashid Al Maktoum, may God rest his soul. His dedication to fostering innovation, excellence, and progress in the medical and scientific fields inspires us all.

This recognition motivates me to continue working toward advancing medical science and fulfilling the shared vision of a brighter, healthier future for generations to come. Thank you, Sheikh Rashid bin Hamdan bin Rashid Al Maktoum and the incredible team, for this honor and your enduring dedication to progress.

Local Awards

Innovation Award in Healthcare



Study: "Diabetes and Ramadan Risk Calculator"

Research Team from Dubai Hospital, UAE University, and Dasman Diabetes Institute in Kuwait



dr. Mohamed Hassanein



Study Team:

Winning Hamdan Award has a positive impact on all researchers

Prof. Mohamed Hassanein and the Research Team:

Winning the award was a unique moment in my life, and the feeling of pride on behalf of all colleagues over the years is immense. Years of hard work have culminated in recognition and success, leaving a significant mark in our field of expertise.

This achievement is the result of cumulative efforts by colleagues worldwide, leading us to identify the risks of fasting during Ramadan for patients. We identified more than 14 risk factors that determine the level of danger a patient may face. Additionally, we utilized technology to make this

information available on healthcare systems and mobile applications.

We also obtained approval from religious legislators, ensuring that the advice provided by doctors aligns with that of religious authorities or muftis.

Undoubtedly, winning Hamdan Award has had a positive impact not only on the winning team but also on all researchers in this field.

It is incredibly important to have respected institution like Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences, which encourages finding significant solutions for people while respecting their social, religious, and cultural sensitivities.

UAE Lung Transplant Program at Cleveland Clinic Abu Dhabi for the Project: "Hope with Every Breath"

Research Team from the Department of Thoracic Surgery and Lung Transplantation, Cleveland Clinic Abu Dhabi



dr. Osman Ahmed



Dr. Osman Ahmed:

As part of the UAE Lung Transplant Program at Cleveland Clinic Abu Dhabi, we care for patients from across the GCC, the Middle East, North Africa, Asia, and now Europe.

The UAE now attracts these patients to receive this complex level of care at Cleveland Clinic Abu Dhabi, aiming to save lives and improve quality of life.

I express my gratitude to Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences for recognizing the team that established this program, and we look forward to more achievements.

Dr. Fadi Hamed:

The Lung Transplant Program is a UAE-based program, and within a short period, the team has achieved significant milestones.

I express my appreciation to the Foundation and its pioneering initiatives in encouraging research, recognizing efforts, and motivating contributions to serve science and improve quality of life. The UAE Lung Transplant Program, "Hope with Every Breath" at Cleveland Clinic Abu Dhabi, is the first of its kind in the country. It is an exceptional program that provides medical services, restoring hope to patients suffering from chronic respiratory diseases and offering them a new hope in life.

The efforts of the medical team and their exceptional performance with outstanding results have elevated this program to a global level. Our program

is unique and distinguished, providing precise treatment for patients in advanced stages of disease.

At Cleveland Clinic Abu Dhabi, we take pride in offering specialized medical disciplines that provide the highest level of care to patients. The Lung Transplant Program is one of these specialized programs, delivering this complex surgical treatment within the UAE.

The award seeks outstanding research and programs within the country in the medical field that contribute to advancing and developing healthcare services.

Research Team:

The UAE Lung Transplant Program team is honored to be among the winners of this award, which reflects the continuous support provided by the UAE to doctors and the medical sector.

Winning this award is a source of pride for the medical staff and all employees of this institution. It serves as a great motivation to continue working diligently and delivering the highest levels of medical care to all.

Lung transplantation is one of the most complex procedures, requiring a specialized medical team across multiple disciplines. Our research has demonstrated our progress in performing this therapeutic intervention through a distinguished and specialized program. The success rates of these procedures match those of the largest global medical institutions.

Our program has provided treatment to a

large number of patients within the UAE and around the world, adding a global dimension to this exceptional program. We have treated patients from various countries, from the Gulf region to the far East and West, all thanks to the UAE's support for medical sciences and the healthcare sector.

Scientific research is a cornerstone for the advancement of the medical sector, and the Foundation is a strong supporter of scientific research. This motivates many institutions and medical centers to work and present research at the highest levels. We are proud to receive this prestigious award, which serves as a motivation and incentive for us and all employees to continue excelling and performing at the highest level. Our goal remains excellence, development, and providing the highest level of treatment within the country.

We invite all distinguished professionals in the medical field within the country to apply for the award next year. The collaboration of its organizers has made it a goal and a hope for many outstanding individuals.

We extend our sincere thanks and appreciation to all those who judged and guided the recognition of excellence in the medical sectors within the UAE.

The UAE Lung Transplant Program and all its team members express their deepest gratitude to Sheikh Rashid bin Hamdan Al Maktoum and are honored to be recognized by him through Hamdan bin Rashid Al Maktoum Foundation for Medical and Educational Sciences.