



Vol. 03, Issue 05, No. 17, September-October 2019

MEDIWORLD

Middle East



Dr. Mohammed Naji
Cosmetic Dental Surgeon
& Executive Director of
Liberty Medical Group

The Next Generation of Perfect Teeth

FEATURES

Highlighting the importance
of clinical effectiveness

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China's 'smart'
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Middle East, Africa and Asia & Beyond

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Editor's Note

Transforming your smile

Did you know that most of adults are unhappy with the appearance of their teeth?

The cosmetic dentistry industry is witnessing an exciting period of advancements with progress in several areas mainly due to the introduction of new technology and revolutionary materials. There is no doubt that 3D dentistry and laser dentistry are the most exciting trends in cosmetic dentistry, and with technological advancements in whitening and restorations, patients now have their teeth looking more natural than before. Dr. Naji, a Dubai-based certified cosmetic dental surgeon highlights the latest innovation in cosmetic dentistry in our cover story.

In this month's issue, Dave Patnaik talks to us about the importance of clinical effectiveness explaining in detail how it helps healthcare providers provide optimal care to their patients by improving quality and enhancing patient experience.

In the United States, the estimated number of people over 18 years of age with diagnosed and undiagnosed diabetes is 30.2 million. The figure represents between 27.9 and 32.7 percent of the population, according to National Diabetes Statistics report, 2017.

Without ongoing, careful management, diabetes can lead to a buildup of sugars in the blood, which can increase the risk of dangerous complications, including stroke and heart disease. Mike Mensinger, CTO at Companion Medical explains to us how a reusable injector pen plus an intuitive smartphone interface equals smart insulin delivery.

We explore China in our medical destination section; which is known to be the latest hotspot as a healthcare destination. It is a significant point of contention for many expats. Moreover, China's medical and healthcare services have seen profound upgrades in recent years. An efficient drug regulatory system, policies focusing on disadvantaged people, steady progress of Traditional Chinese Medicine (TCM) and, most importantly, embracing cutting-edge technologies, are behind this improvement.

Last but not the least, you can email us with your valuable feedback at ayesha@7dimensionsmedia.com.

Sincerely,

Editor, MediWorld ME

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The Next Generation of Perfect Teeth



Global Cosmetic Dentistry Market is expected to rise at an estimated value of \$33.41 billion by 2026, registering a CAGR of 6.8% in the forecast period of 2019-2026 with the annual sales of \$19.74 billion in the year of 2018. This rise in market value can be attributed to the increasing awareness and concerns regarding the health of patients

Cosmetic Dentistry is a combination of multiple simple procedures performed by a dentist to boost a patient's confidence, self-esteem and psychological wellbeing.

This segment of dentistry has gone through various changes over the last few years and has transformed from being a lengthy invasive surgical procedure, to a very simple treatment, that can be done in several conservative methods within a few minutes or hours.

Global Cosmetic Dentistry Market is expected to rise gradually to an estimated value of \$33.41 billion by 2026, registering a CAGR of 6.8% in the forecast period of 2019-2026 with the annual sales of \$19.74 billion in the year of 2018. This rise in market value can be attributed to the increasing awareness and concerns regarding the health of patients.

According to an expert, tooth loss is comparable to post traumatic experiences that can affect mood, confidence, career and relationships. Therefore, there is an opportunity for dentists to make a lasting change in the lives of their patients through innovative new cosmetic dentistry methods.

Ayesha Rashid from Mediworldme talks with Dr. Mohammed Naji, a Dubai based certified cosmetic dental surgeon and executive director of Liberty Medical Group about the latest innovations in cosmetic dentistry.

Innovation throughout the history

Truth be told, cosmetic dentistry has been around for millennia. In fact, historians believe the first pair of dentures were made in 700 B.C., fashioned out of animal teeth by the ancient Etruscans. Over the years, people used other objects as stand-ins for teeth, such as animal bones and even seashells. By the time the Roman Empire rose to power, people were scrubbing their teeth with toothpaste

containing abrasive substances, such as ammonia, in an attempt to wipe away stains.

Fastforward, That brings us to today. There have never been more options for enhancing your smile than we have right now. Whether you need a tooth replaced, whitened, or moved, your dentist can draw on an array of tools to help you out. While the methodology has changed, the aim of cosmetic dentistry has remained the same: to create more appealing smiles. These days, patients prefer minimally invasive procedures that will cause them the least amount of discomfort. Many of the advances made in cosmetic dentistry are aimed at achieving this end.

The goal is to make the cosmetic dentistry experience as painless and as fast as possible. We know our patients often have busy schedules. They may be interested in improving their smiles, but they don't have hours to spend sitting in our dental chair waiting for their teeth to be whitened or straightened. A great deal of current dental technology has focused on speeding up these processes to save patients from having to make return visits to our office, as well.

Dr. Naji said, "Maintaining a clean and healthy smile will always be a patient's responsibility – it is up to them to brush their teeth, make regular dentists' appointments and maintain an overall oral health possible. However, most patients that walk in with bad oral health – as soon as they get a cosmetic dental treatment and they get a beautiful smile – they immediately get very motivated to start taking care of their teeth, brushing them well and maintain a very good oral hygiene".



Dr. Mohammed Naji

Technological innovations

Digital mapping of the gums and interior oral surfaces has already demonstrated potential in cosmetic dentistry, using CAD/CAM systems. Digital intraoral scanning creates an exact three-dimensional scan that allows dentists to order precise orthodontics and prosthetics for dental reconstructive appliances. From a digital scan, a 3D printer can be used to produce a bridge, a single cap/crown or a full denture, and progressive practices are even encouraging patients to have a full digital scan before they lose teeth, in order to have a database ready for tooth replacement.

By having an accurate full oral digital scan on file, any tooth or collection of teeth can be 3D printed and replaced as a dental implant. This will eliminate many of the problems with fit and discomfort, misaligned bite patterns and more. The result isn't an artificial tooth that is "close" in structure to your original tooth; it is an exact replica, which offers a better long term prognosis and utility for the patient.

While three-dimensional printers have been available for years, the biggest obstacle to applying the technology in dentistry was the invention of a bio-compatible resin that would work within a 3D printer.

The first bio-compatible resin was designed by

Form labs, called the Dental SG Resin, which is a Class 1 material and surgical grade.

Technicians can maneuver within a digital image map, and customize the fit before printing, and production of dentures or orthodontics using this method is fast, and affordable, allowing dentists to provide quality solutions at a fraction of the cost, to benefit patients and provide comprehensive care.

According to Dr. Naji, other new innovations in the dentistry world are:

- **The NNN Veneers technology**
- **QuickSleeper**
- **iTero Element 5D scanner**
- **Waterlase Dental Laser**
- **Shape Trios Scanner**

Any dentist that can combine these technologies mentioned above will be able to give his patient the ideal treatment without any pain or discomfort and in a few short visits rather than the multiple lengthy treatment sessions.

Demand for aesthetic treatments

Innovations in technology also lead to faster treatment and alternative materials to successfully address oral disease and dental problems. Imagine getting checked in instantly and getting a painless root canal on the same day — the technology is on the way.

"The demand for aesthetic treatments or cosmetic dental treatments will never stop growing and will only keep increasing because day-by-day getting

aesthetic smile is becoming easier and more accessible to public. Before it was more of an obstacle to go for multiple dental visits and long treatment times however now it has become a very short and simple procedure.

“Moreover, getting an aesthetic treatment doesn't always mean you have to get veneers or crowns placed on your teeth – it can be a very simple procedure or an orthodontic treatment which enables dentists to align your natural teeth with the help of braces. This is an aesthetic treatment as well – I personally believe that almost 89% of the civilized population will approach an orthodontist to get braces fixed. Especially in the younger ages and adolescence”.

Currently, many dentists use soft tissue lasers for inpatient gum surgeries, but soon, these procedures can be done more quickly and accurately with a computer. The dental drills could get replaced with lasers that can penetrate hard tissue with precision and high speed, using mirrors controlled digitally to extract tooth decay.

Biomaterials are now lab-grown to easily fill cavities or even let cavities heal themselves, preventing the need for an expensive root canal. New diagnostic technology can detect oral cancer in its early stages with specialized lights that analyze tissue changes that the dentist can't observe with the eye alone.

Popular innovative trends

Dr Naji notes that the most popular treatment done by patients is Veneer.

According to the American Academy of Cosmetic



“Cosmetic industry has been shifting towards the natural appearance and conservative treatments. People are more aware now that they can achieve the results that they want by maintaining their natural teeth. The cosmetic treatment that is in high demand now a days 'NNN Veneers' which can give the patient the color and shape of the teeth they always wanted without drilling their natural teeth at all, without pain and injections. This treatment will always give the patient a way to go back to their natural teeth in case they are not happy with the result”.

Dentistry (AACD), a veneer is a "thin piece of porcelain used to re-create the natural look of teeth, while also providing strength and resilience comparable to natural tooth enamel." They are custom made to the contour of your teeth and are bonded to the tooth's original enamel during a series of in-office procedures.

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will always give the patient a way to go back to their natural teeth in case they are not happy with the result”.

Veneers are a less intrusive option than crowns or braces. According to the British Dental Health Foundation, veneers can be used to close gaps or correct small misalignments. Patients also choose veneers as a cosmetic solution to enhance the brightness of their teeth and to straighten their smile, correcting issues like discoloration, fractures, or chips.

“Usually the most expensive treatment is getting crowns as it requires a lot of work from the doctor's end – with multiple visits being set up and drilling of the teeth. However, in my clinic, I make sure that the veneers and crowns both cost the same so that the treatment can be chosen for the patient on their medical need and based on what's best for his oral condition – because generally people go for the cheaper option so we make sure that both cost the same so the patient can choose comfortably.

“Whitening is the cheapest procedure because it takes 30 minutes to give the patient a brighter smile. However, this does not last long and personally I don't consider it a cosmetic procedure”.

What role does technology play in dentistry?

Technology plays a huge role all around the world not just the UAE. The technology has not only been introduced to clinics but also to the homes of people. All these advanced gadgets - whether it's the electric toothbrush, whitening kits used at home or water flossers, they all contribute to increasing the awareness and bringing ease into oral healthcare.

“When it comes to dental clinics, we depend a lot on technology. Back in the days it was all about the dentist's skill, however, nowadays, we also depend a lot on the latest material and devices we use throughout the treatment. It is not just about the quality anymore; it is quality plus the duration of the treatment or the speed of the treatment.

“In a city like Dubai where we depend a lot on medical tourism and we have a lot of people coming from out of town, they expect to get their treatment in a matter of few days. We now have the latest technology in our clinics, which we can use to give them that treatment, which usually would take 5 visits over a month, in just 2-3 hours in a single visit,” Dr. Naji concludes our interview.

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Highlighting the importance of clinical effectiveness

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“Undoubtedly it is variability in care. Healthcare leaders around the world tell us that this is one of the biggest challenges they face today. Variability drives inequality in health outcomes as well as health service inefficiency”

The term clinical effectiveness means the application of the best knowledge, derived from research, clinical experience and patient preference to achieve optimum processes and outcomes of care for patients. The process also includes a framework of informing, changing and monitoring practice.

Clinical effectiveness is about improving patient's total experience of healthcare and is an essential part of improving and assuring quality. The aim of clinical effectiveness is to use evidence to improve effectiveness of clinical practice and service delivery.

Wolters Kluwer provides trusted clinical technology and evidence-based solutions that engage clinicians, patients, researchers and students. The primary goal is to help healthcare providers provide optimal care to their patients by improving quality, reducing cost and enhancing the patient experience.

Dave Patnaik, VP & Segment General Manager, Health CE International – Wolters Kluwer explains to Ayesha Rashid of Mediworldme the importance of clinical effectiveness and why the company puts a lot of focus on it?



“

“We know that a focus on improving clinical effectiveness makes a difference to care quality, clinical outcomes and patient experience – over 100 independent studies on the impact of UpToDate support this.

Dave Patnaik,

VP & Segment General Manager, Health CE International

Electronic Patient Record

Every day clinicians across the Middle East face decisive moments that impact the lives of their patients. In these situations we want patients to benefit from the latest evidence and best practice by putting knowledge at the clinician's fingertips, whether on a laptop, mobile device or within the Electronic Patient Record (EPR).

"We know that a focus on improving clinical



Lexicomp®



effectiveness makes a difference to care quality, clinical outcomes and patient experience – over 100 independent studies on the impact of UpToDate support this.

"We do this currently with four main products: UpToDate®, which provides decision support to more than 1.7 million users worldwide; Lexicomp® and Medi-Span® - drug reference and embedded drug data solutions, and Emmi® patient programs, a multimedia medical content product designed to engage patients in their care.

"We have customers across the Middle East, and our teams in UAE and KSA work directly with hospitals, clinics and medical schools or through channel partners to implement digital healthcare technologies that deliver deep impact for clinicians and patients".

Monitoring patient safety

Monitoring patient safety during clinical trials is a critical component throughout the drug development life cycle. Pharmaceutical sponsors must work proactively

and collaboratively with all stakeholders to ensure a systematic approach to safety monitoring. The regulatory landscape has evolved with increased requirements for risk management plans, risk evaluation and minimization strategies. As the healthcare industry transitions from passive to active safety surveillance activities, there will be greater demand for more comprehensive and innovative approaches that apply quantitative methods to accumulating data from all sources, ranging from the discovery and preclinical through clinical and post-approval stages.

'Unwanted variation' (or 'variability') in care describes the difference in decisions made by clinicians, perhaps because more than one equally good option exists for treating an illness. What we see as a result are patients with the same condition receiving different treatments. While one treatment option may be more costly than the other, the clinical outcomes may be the same – leading to more costly care for one patient. In another scenario, clinical guidelines may change but not be adopted immediately, leading to less effective care.

Equipping clinicians with the most current clinical information at the point of care allows healthcare providers to ensure patients receive the best quality care based on the latest evidence & recommendations from world-renowned experts.

"Undoubtedly it is variability in care. Healthcare leaders around the world tell us that this is one of the biggest challenges they face today. Variability drives inequality in health outcomes as well as health service inefficiency.

"Forward thinking organizations are reducing unwanted variability by aligning decisions and harmonizing care. This means empowering all caregivers and patients with consistent clinical and drug information from one trusted source across the continuum of care, and ensuring this information aligns with evidence-based medicine and best practices. That's where we come in".

Improving patient outcome

Clinicians in the Middle East and beyond rely on Wolters Kluwer's UpToDate® clinical decision support resource to make the best diagnosis and treatment decisions for patients. It is the only resource associated with improved patient outcomes and hospital performance.

Researchers at Harvard University found that use of UpToDate over a three-year period was associated with statistically significant, improved quality, lower lengths of stay and lower mortality rates. Use of UpToDate was also associated with 372,000 hospital days saved per year and 11,500 lives saved every 3 years.

"Many healthcare organizations in the Middle East choose our Lexicomp and Medi-Span drug solutions to provide clinicians with evidence-based drug information such as drug warnings, interactions, and precautions. These solutions are proven to improve patient safety by reducing medication error. Embedding a drug solution such as Medi-Span into the clinical workflow can provide automatic screening and alerts, reducing the risk of error even further.

"Our Emmi patient engagement programs help patients to take an active role in their care. Healthcare organizations use Emmi interactive voice and video programs to engage patients in their health and optimize resources and the reach of care teams. As 80% of factors



affecting health outcomes occur outside healthcare delivery, it's important that we support patients when they are at home, as well as when they are in a hospital or clinic setting. Studies of Emmi show increased engagement and improved clinical outcomes when patients interact with an Emmi program".

The content in UpToDate that is used to make diagnosis and treatment

decisions is created by more than 6,700 world-renowned physician authors, editors, and reviewers. They use a rigorous editorial process to synthesize the most recent medical information into trusted, evidence-based recommendations to help clinicians diagnose and treat patients.

"More than 150 pharmacists and clinicians independently produce and update the content in Lexicomp, which is then peer-reviewed by 260 external experts.

Providing reliable and actionable information that clinicians can trust is at the core of everything we do".

Point of care solutions

The healthcare industry is in a transformative stage as it undergoes reform through initiatives that focus on improving patient outcomes, tying provider reimbursement to quality metrics (rather than traditional fee for services), adopting electronic patient records, and developing accountable care organizations. One of the major enablers of these changes is the proliferation of point-of-care (POC) technologies that offer the promise of improving outcomes and reducing costs through increased access to and use of diagnostic and monitoring solutions.

POC technologies have the potential to improve the management of various diseases and conditions, especially in resource-limited settings where healthcare infrastructure is weak and access to quality and timely medical care is a challenge. These tests offer rapid results, allowing for timely initiation of appropriate therapy and/or facilitation of linkages to care and referral. Most importantly, POC devices can be simple enough to be used at the primary care level and in remote settings with no laboratory infrastructure. These solutions can potentially empower patients to self-test in the privacy of their homes, especially for stigmatized diseases such as HIV and other sexually transmitted diseases.

"Point of care solutions put clinical information at the clinician's fingertips exactly when and where they need it. This may be on a tablet on a ward round or in the patient record during a consultation for example. These solutions help clinicians to make better and faster decisions but also enable patients to be involved in their care by providing patient education information about their condition and treatment options.

"The next generation of clinical decision support solutions uses algorithms and AI to offer a guided, patient-specific approach to clinical decision making. Our new solution, UpToDate® Advanced™, combines core UpToDate content with interactive pathways to provide recommendations that are tailored to the individual patient. As well as supporting clinician decision making, UpToDate® Advanced™ is designed to tackle variability by providing pathways for the most common conditions and those with high levels of variability in care".

Outlining healthcare clarity

With a wealth of patient-specific educational materials in a variety of formats - from printed information on a new prescription to videos explaining a surgical procedure and how to prepare for it - doctors have more opportunity than ever to engage patients in their care.

Studies show that improving patient education and engagement has a positive impact on clinical outcomes; decision-making and appointment attendance rates so the benefits to both patients and doctors are clear.

Dave believes that this is the kind of healthcare clarity can really make a difference.

Example Emmi study

We have found that patients who become more engaged in their care by watching programs on hypertension have better blood pressure control. Centura Health, a large healthcare network in the western US, sought to engage its hypertensive patient population to increase its rate of controlled blood pressure. To do so, Centura Health sent the Hypertension Emmi® program to 6,509 patients, with varying levels of blood pressure control, to help increase understanding of the condition and improve self-management. After six months, the impact of program viewership relative to blood pressure control was measured. We found that patients who viewed an Emmi program were more likely to have controlled blood pressure. Significant improvements were reported regardless of patients' initial blood control status (controlled, unknown or uncontrolled).

"What we know about effective clinical decision making is that it is increasingly difficult for doctors to keep up with growing volumes of medical information and new evidence in order to make the best decisions. That's why our editorial team does the time consuming work of continuously hand searching and reviewing more than 435 medical journals. This team works with world-renowned experts in each specialty to synthesize evidence and provide actionable recommendations that help doctors make effective decisions.

This is all about empowering clinicians and freeing up their time so they can focus on what matters most – their patients," Dave concludes our interview.



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Your cure to time sensitive shipments

Medical Drones Market size is set to exceed \$399 Million by 2025; according to a new research report by Global Market Insights, Inc. Technological advancements in medical drones will improve its efficiency that should increase its preference during emergency cases ●



Donald Gintzig, WakeMed President/CEO, notes, "Drone transport will improve speed of deliveries at a lower cost, enhance access to care and create healthier communities. WakeMed is committed to innovation and we believe drone technology has the potential to achieve transformative improvements in health and health care delivery."

Donald Gintzig

WakeMed President / CEO

Delivery time sensitive medical equipment/supplies in a extremely short period of time is no easy task for any of us human beings. Many medical professionals from emergency responders to aid workers face challenges every day, the challenges, which unmanned aircraft systems or UAS, can help overcome.

Drones make it possible to transport time sensitive medical shipments such as blood, vaccines to areas that are inaccessible to reach the victims who require immediate medical attention within minutes, which in most cases require differentiation between life and death situation. UAS offer a variety of exciting possibilities to the healthcare industry, possibilities that can help save money as well as lives.

Medical Drones Market size is set to exceed \$399 Million by 2025; according to a new research report by Global Market Insights, Inc. Technological advancements in medical drones will improve its efficiency that should increase its preference during emergency cases. Key industry players heavily invest in R&D activities to develop innovative medical drones. For instance, companies are developing drones with diagnostic imaging capabilities that will have role in assessing health in remote locations with the usage of telemedicine technology. Additionally, medical drones aid aged people and therefore, due to convenience offered by the technologically advanced medical drones, its adoption will remain high. Aforementioned factors will drive the industry growth.

Growing public acceptance towards medical drones in developing economies will surge its demand, thereby propelling business growth. Government implements certain programs and initiatives to increase the awareness level regarding availability of superior quality medical drones amongst healthcare professionals in underdeveloped economies. Government promotes usage of medical drones due several associated benefits. Thus, increasing government initiatives will escalate acceptance and adoption of medical drones thereby, fostering the industry growth. However, complications associated with medical drones may hamper industry growth to some extent.

Pharmaceutical transfer segment is anticipated to foresee around 25% growth in near future. Substantial growth is attributed to numerous capabilities of medical

drone to deliver medications in remote locations at a faster pace. These drones help in delivering drugs during severe circumstances such as disasters or medical emergencies. There have been instances of medical drones saving lives of many people during natural calamities by providing necessary drugs. For instance, medical drones successfully delivered small packages of pharmaceutical drugs during earthquake that helped people to get access to important medications. Thus, crucial role of medical drones during emergency cases will positively influence the segmental growth.

Emergency medical services segment was valued more than \$40 million in 2018 and it will continue to grow in coming years. Medical drones efficiently deliver medications in rural facilities as they can sense and avoid obstacles.

The Unmanned Aerial Vehicle (UAV) market was valued at \$18.14 billion in 2017 and is projected to reach \$52.30 billion by 2025, at a CAGR of 14.15% from 2018 to 2025.

Ayesha Rashid from MediworldME met with UPS' spokesperson Kyle Petersen to discuss UPS' new logistics' services for delivering medical supplies via unmanned drones.

On – demand and same –day delivery

UPS recently announced a groundbreaking new logistics service to deliver medical samples via unmanned drones through collaboration with Matternet, a leader in autonomous drone technology. The program is taking place at WakeMed's flagship hospital and campus in the Raleigh, N.C., metropolitan area, with oversight by the Federal Aviation Administration and North Carolina Department of Transportation. Today's flight marks the beginning of numerous planned daily revenue flights at the WakeMed Raleigh campus.

The UPS and Matternet program represents a major milestone for unmanned aviation in the United States. Currently, the majority of medical samples and specimens are transported across WakeMed's expanding health system by courier cars. The addition of drone transport provides an option for on-demand and same-day delivery, the ability to avoid roadway delays, increase medical delivery efficiency, lower costs and improve the patient experience with potentially life-saving benefits.

Donald Gintzig, WakeMed President/CEO, notes, "Drone

transport will improve speed of deliveries at a lower cost, enhance access to care and create healthier communities. WakeMed is committed to innovation and we believe drone technology has the potential to achieve transformative improvements in health and health care delivery."

With the approval of the Federal Aviation Administration and North Carolina's department of transportation, UPS and Matternet will conduct routine daily flights that transport medical samples. Previously, WakeMed relied on courier cars, which were subject to road delays.

he drone-led deliveries entail a medical professional first loading the drone with a medical sample or specimen, such as a blood sample. From there, the drone will fly along a predetermined route to a fixed landing pad at WakeMed's main hospital and central pathology lab.

UPS and Matternet will then be able to analyze the program and better determine how drones can be more broadly used to improve deliveries at other hospitals throughout the country. UPS previously partnered with Zipline to test medical deliveries via drone in remote communities.

Time critical shipments

In healthcare, delays, errors and inefficiencies jeopardize care and strain time critical shipments. UPS has invested in advanced technology to optimize inventory systems, and to monitor, protect and intervene for temperature-sensitive, time-critical and high-value shipments through final delivery.

As the company navigates through the new healthcare landscape, UPS adds developing agile, flexible, and scalable supply chains that add speed and reliability to meet patients' needs.

Petersen said, "For parcels requiring strict temperature environments, from CRT to cryogenic, and those requiring around-the-clock monitoring, our solutions include UPS Temperature True™ and UPS Proactive Response™ services. These portfolios contain best-in-class temperature control monitoring, packaging and visibility components to ensure sensitive, high-value pharma, specimen and medical device shipments are transported safely, securely, mitigates risks and damages, and avoids potentially disastrous temperature fluctuations.

"Moreover, our knowledgeable healthcare logistics experts remain ahead of changes and trends in patient needs, market conditions, R&D, and product regulations—and are ready to keep you poised for change".

Expanding healthcare network

Matternet drones will carry lab specimens from WakeMed clinics to its central laboratory for analysis. It will take the drones roughly three minutes to fly the inaugural route; currently it can take up to half an hour to get samples to the lab from the same location by a courier who may make multiple stops, the companies say. Drone delivery should enable quicker turnaround on urgently needed tests and ultimately could allow healthcare systems to save money by consolidating their labs.

Initially the drones will be kept within sight at all times by a monitor capable of taking control; UPS and Matternet are hoping to obtain a waiver from the US Federal Aviation Administration to operate longer routes from other WakeMed clinics that would go beyond the monitor's visual line of sight.

"This partnership with Matternet complements UPS's strategic transformation to meet business trends of today and well into the future. It will be even more critical as healthcare demands increase, that we meet those logistics challenges with superior service levels, speed and efficiency that customers expect. This emerging drone technology fits well into our current lab specimen logistics portfolio to enhance today's delivery models. Healthcare, like most industries, is undergoing dramatic transformation. UPS knows how to navigate disruptions with this accelerated pace of change – people are living longer, direct-to-patient services are growing, demand for more patient convenience. Adapting to new technologies and innovations will continue to be a strategic business priority," explains Petersen.

"Together with UPS, we aim to shift the status quo for on-demand logistics for healthcare systems in the U.S. through drone delivery networks," Matternet CEO Andreas Raptopoulos said in a statement. "Our technology allows hospital systems to transport medical items at an unprecedented level of speed and predictability, resulting in improved patient care and operational savings."

In other news

According to a financial newspaper, Zipline Medical expanded its presence in Africa, mobilizing the world's largest drone delivery network to transport '150 different medicines,' vaccines and blood to 2,000 clinics in remote parts of Ghana.

Vaccines for polio, tetanus and diphtheria -- all of which are supplied by the World Health Organization's Expanded Project on Immunization -- will be some of the treatments made available to Ghanaian clinicians as part of the expansion. Health workers will be able to place an order via text message and receive a delivery via parachute within 30 minutes. The range of the 'Zip' drone hasn't changed much over the past two years -- averaging around 160 kilometers. The aircraft is swift, however, reaching speeds of 110km per hour. Given that local hospitals can be remote and often lack adequate supplies of critical treatments, Zipline can provide a service that doesn't require new infrastructure or setting up new supply routes.





Emirates Obs & Gyne Congress

Dubai, United Arab Emirates
17th - 19th October 2019

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General Practitioners
Women's Health
Specialists
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Simplify your diabetes care plan with InPen

Rapid economic growth, sedentary lifestyles and unhealthy diets characteristic in the UAE are all risk factors, leading to the number of people with diabetes expecting to double to 2.2 million by 2040.

Diabetes is a common disease that occurs when your blood glucose levels go up vigorously. Even though blood glucose is your main energy source from the food you eat. Insulin, a hormone made by the pancreas, helps glucose from food get inside your cells and transforms it into energy, which is later used by your body.

But, overtime your blood glucose becomes out of control and may cause health related issues. Although, diabetes has no cure, you can take a number of steps to control your diabetes and stay healthy.

Figures from the International Diabetes Federation (IDF) revealed that, in 2017, 17.3% of the UAE population between the ages of 20 and 79 have type 2 diabetes. There are over 1 million people living with diabetes in the UAE, placing the country 15th worldwide for age-adjusted comparative prevalence. It is important to note that diabetes is a regional affliction with Saudi Arabia, Bahrain, Kuwait and Qatar all featuring in the top twenty countries in terms of prevalence worldwide.

Trends also indicate that the prevalence of diabetes in the UAE is rising at a faster rate than both the MENA region and the rest of the world. Rapid economic growth, sedentary lifestyles and unhealthy diets characteristic to the UAE are all risk factors, leading to the number of people with diabetes expecting to double to 2.2 million by 2040. However, an increasing population and a greater understanding of the condition among the communities have also contributed to the increase in patients diagnosed with diabetes.

The decision by UAE to levy a 50% tax on sugary products — any product with added sugar or other sweeteners, whether in form of a liquid, concentrate, powders, extracts or any product that may be converted into a drink — is laudable. The move is a continuation of the 2017 introduction of sin tax on sugary carbonated and energy drinks and tobacco products, a trend that is acquiring a growing global footprint as more countries move to tax unhealthy products to control the rampant rise in lifestyle diseases.

In conversation with Mike Mensinger, CTO at Companion Medical explains to us how a reusable



injector pen plus an intuitive smartphone interface equals smart insulin delivery.

Tell us in detail about InPen?

The InPen insulin injector pen is an easy-to-use pen that not only helps calculate your doses but also keeps track of injection data.

When paired via Bluetooth® with the smartphone app, the InPen delivery system keeps tabs on how many units you received at your last injection, when you took them, and other helpful information.

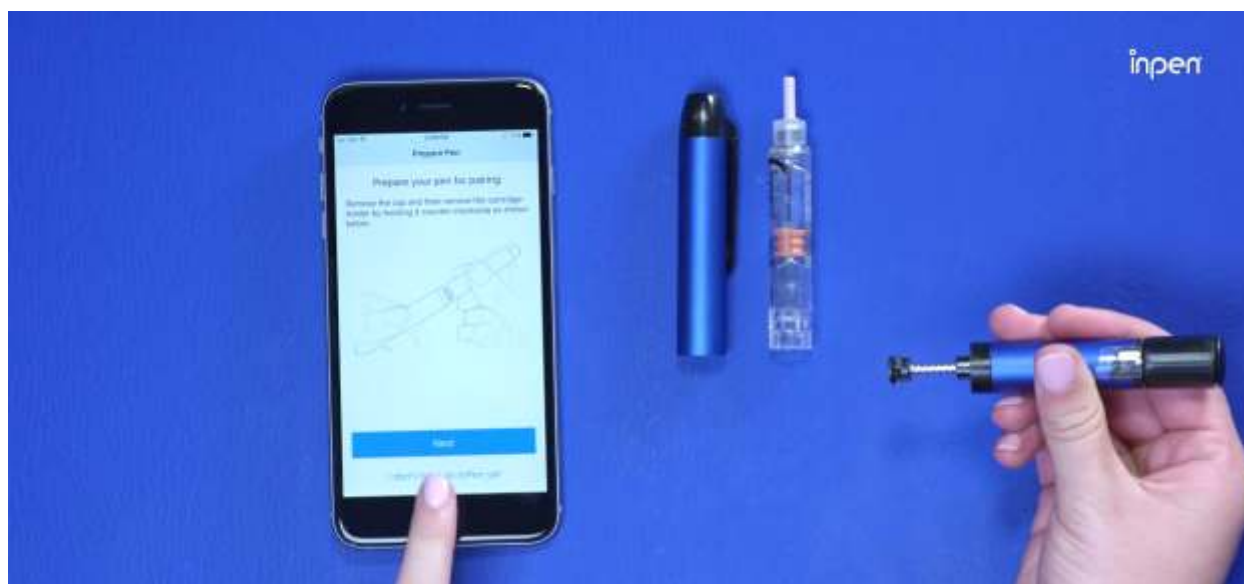
InPen was designed for insulin-dependent individuals 12 and older undergoing multiple daily subcutaneous injections. It can deliver 0.5 to 30 units of insulin, dialed in half-unit increments. Dial too many units? Not a problem. InPen lets you correct the dose without wasting insulin.

The InPen injector pen is compatible with Lilly Humalog® and Novo Nordisk Novolog® U-100 3.0 mL insulin cartridges and single-use detachable and disposable needles (not included).

InPen is as easy to maintain, as it is to use. The InPen lasts for one year – no recharging needed. And with options in blue, grey, and pink, you can even add a bit of color to your management plan.

How is InPen a step forward in integrated diabetes management?

InPen combines an innovative app with a Bluetooth® enabled pen injector to simplify the tracking and calculating required for insulin therapy. InPen tracks active insulin, recommends doses, and alerts users of missed doses. It also provides temperature alerts should the insulin be exposed to extreme hot or cold. InPen users can send 'Insights by InPen' reports from their phones directly to their physicians. The reports display average glucose, average total daily dose, and more. It is also the first and only FDA-cleared, smart



Worldwide, the majority of people who require insulin utilize syringes or insulin pens. InPen provides the benefits of a pump to those users. InPen is currently only available in the United States. InPen received CE mark in July 2018 and plans to be available in Europe in 2019.

insulin pen paired with an integrated diabetes management app. InPen works exactly like a traditional insulin pen but has Bluetooth® technology that connects to an easy-to-use smartphone app.

How does it reduce stress over missed doses, under doses or stacking insulin?

InPen combines the benefits of sophisticated insulin pumps with the simplicity and affordability of pens and syringes, providing patients, physicians and caregivers increased confidence that diabetes is being managed optimally. It tracks doses and alerts users of missed doses. It also has a dose calculator and recommends doses based on current blood glucose, carbohydrate intake, and active insulin according to a user's personal settings. Combined, these features reduce stress since InPen tracks doses and do the math for users.

How does it empower people living with diabetes and their healthcare providers?

People who use other insulin pens do not have data such as insulin on board. With InPen, they get this data and much more. The data allows users to make informed decisions about their diabetes treatment.

Healthcare providers have never had reports for their

patients using insulin pens, so they have had to rely on patient memory. With InPen, providers get Insights by InPen reports, which give them accurate data to use to adjust patient treatment plans.

InPen users can send Insights by InPen reports from their phones directly to their physicians. The reports display average glucose, average total daily dose, and more.

Any product updates yet?

The InPen system was developed to bring better tools, technologies, and choices to people with diabetes and their healthcare providers. The updates to the InPen system more fully deliver on the potential of smart pen technology, which better integrates diabetes data making managing diabetes easier. The new app features include pairing support for multiple InPens, for those who, for example, need a pen at home and one at work, a Today Widget that simplifies access to the most recent injection data, and expanded glucose integration for Android users of the InPen App.

Also available is an enhancement of the Insights by InPen report. The Insights by InPen report integrates insulin, glucose and carbohydrate data in a simple, easy to read report that can be sent directly from the user's phone to their healthcare provider. The Insights by InPen update will provide additional visual data including long-acting insulin timing, multiple pen support, enhanced missed dose reporting, and bolus dose decision reporting.

With healthcare technology on a high rise, why did you think it was necessary to make a smart insulin delivery system?

Worldwide, the majority of people who require insulin utilize syringes or insulin pens. InPen provides the benefits of a pump to those users. InPen is currently only available in the United States. InPen received CE mark in July 2018 and plans to be available in Europe in 2019.



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- Head & Neck
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China's 'smart' healthcare system

-By Ayesha

The Health China 2030 plan is a comprehensive set of guidelines aimed at extending the services to all by the year 2030, and focuses on public health, the environment and food.

The People's Republic of China (PRC) is a country in East Asia and the world's most populous country, with a population of around 1.404 billion. Covering approximately 9,600,000 square kilometers (3,700,000 sq mi), it is the third or fourth largest country by total area. Governed by the Communist Party of China, the state exercises jurisdiction over 22 provinces, five autonomous regions, four direct-controlled municipalities (Beijing, Tianjin, Shanghai, and Chongqing), and the special administrative regions of Hong Kong and Macau.

Since the introduction of economic reforms in 1978, China's economy has been one of the world's fastest-growing with annual growth rates consistently above 6 percent. According to the World Bank, China's GDP grew from \$150 billion in 1978 to \$12.24 trillion by 2017. According to official data, China's GDP in 2018 was 90 trillion Yuan (\$13.28 trillion). Since 2010, China has been the world's second-largest economy by nominal GDP and since 2014, the largest economy in the world by purchasing power parity (PPP). China is also the world's largest exporter and second-largest importer of goods.

Healthcare in China consists of both public and private medical institutions and insurance programs. About 95% of the population has at least basic health insurance coverage. Despite this, public health insurance generally only covers about half of medical costs, with the proportion lower for serious or chronic illnesses. The Chinese government is working on providing affordable basic healthcare to all residents by 2020. China has also become a major market for health-related multinational companies such as AstraZeneca, GlaxoSmithKline, Eli Lilly, and Merck entered the Chinese market and have experienced explosive growth. China has also become a growing hub for health care research and development.

Universal healthcare coverage

The World Health Organization commended China for its health reform package, which provides a reference for universal healthcare coverage.

China has been pushing for hierarchical diagnosis and treatment development while implementing reform in payment and other insurance. Now all public hospitals in China have removed their medicine mark-ups as the country continues its medical health reform.

Dr Margaret Chan, the former WHO director-general, noted that China puts people first in medical reform and cares about their interests. The nation's success is worth spreading to other countries.

The country has leapt to 48th place among 195 nations and regions from 60th in 2015, according to the report.

Since 2017, China has made 53 cancer drugs



affordable after two rounds of negotiations between the state medical insurance administration and pharmaceutical companies to include these drugs on the medical insurance list.

On top of that, the Chinese government officially cancelled tariffs on imported anticancer drugs from 1 May 2018. This year, China will start another round of negotiations, aiming to expand the medical insurance list to include another 128 drugs.

With the implementation of 5G and Internet Plus, China also achieved many firsts in distance medical care, providing the public with convenient access to medical services. In the future, online medical services are expected to become part of national medical insurance.

Healthcare and innovation

China's medical and healthcare services have seen profound upgrades in recent years. An efficient drug regulatory system, policies focusing on disadvantaged people, steady progress of Traditional Chinese Medicine (TCM) and, most importantly, embracing cutting-edge technologies, are behind this improvement.

Progressive growth throughout the last seven decades has brought facilities to far-off counties at

Incorporation of 5G in hospitals is in full swing. This high-speed communication technology allows seamless synchronized actions of doctors who are hundreds of miles apart. Using robots, they can perform teleoperations with minimally invasive procedures; consequently reducing the time patients have to stay in hospital. Another innovative use of live broadcasts of surgical operations via 5G is providing new learning opportunities for young doctors.



times on par with those offered in top-tier metropolitan cities. The biggest role in achieving this is being played by high technology advances.

Incorporation of 5G in hospitals is in full swing. This high-speed communication technology allows seamless synchronized actions of doctors who are hundreds of miles apart. Using robots, they can perform teleoperations with minimally invasive procedures; consequently reducing the time patients have to stay in hospital. Another innovative use of live broadcasts of surgical operations via 5G is providing

new learning opportunities for young doctors.

From established corporations to fledgling startups, all recognize the potential for digital technologies, such as telehealth and artificial intelligence, to alleviate China's overstretched healthcare professionals and help provide better care.

In the process, hospitals are amassing an extensive amount of data. Artificial Intelligence (AI), with its ability to analyze large volumes of information, helps doctors in their diagnosis and making decisions. AI can also screen X-rays and predict a course of treatment combined with study of medical records.

Both local and foreign AI technologies are being utilized in China. To name a few, Shenzhen-based Tencent Holding is employing solutions that scan gastroscopy images to diagnose esophageal cancer at a preliminary stage with over 90 percent accuracy. Meanwhile, Microsoft, the American tech giant, has developed a system in collaboration with China's Airdoc to diagnose diabetes.

In fact, the 2019 Future Health Index from Philips, which surveyed healthcare professionals in 15 countries around the world, shows that China is leading the way in adoption of digital health technology.

However, global health technology innovators looking to China face barriers – including a medical and digital infrastructure that is vastly different from other countries, unique regulatory demands, and a lack of affordability of existing solutions for more widespread use in rural or impoverished regions.

In 2018, Philips struck a partnership with Digital Health China, the largest provider of cloud-based healthcare services in China, to jointly launch a tele-radiology platform. The platform allows radiological images and associated patient information to be remotely viewed and analysed by clinical experts anywhere in the country, so that patients can receive treatment via their local healthcare facility, wherever they are. Unlike traditional business models, which require larger investments from hospitals upfront, a pay-per-use arrangement makes the platform affordable even for smaller hospitals.

These scientific breakthroughs create a smart healthcare ecosystem, offering convenience to patients and medical practitioners.

Healthcare China 2030

Apart from dispensing facilities, the government has been implementing a stream of supportive policies to improve the overall healthcare structure.

The Health China 2030 plan is a comprehensive set of guidelines aimed at extending the services to all by the year 2030, and focuses on public health, the



Fifth xiangya hospital, China

In developing countries, China is providing a remarkable support to public health. During last year's Forum on China-Africa Cooperation, China pledged to upgrade 50 medical aid programs for Africa and has been regularly sending medical missions overseas, efforts that are appreciated by international bodies.

environment and food.

The plan has set some promising goals, which include increasing life expectancy to 79 years and creating a healthcare industry worth 16 trillion yuan. This will be achieved by attracting private and foreign capital, expansion of government investment and improvement of medical institutions.

Measures are also being taken, in parallel, to increase convenience for underprivileged areas.

By the end of 2018, every impoverished county had at least one public hospital, while about 95 percent of townships had at least one general practitioner. In the meanwhile, financing to village health centers is being expanded and they are also receiving technical support from large hospitals. As a result, the poor, who earlier didn't seek medical help until their condition became unbearable, are now being cured at an early stage.

In June 2019, the State Council issued a series of directives to guide the direction of healthcare reforms. Alongside the development of new drugs, production of generic drugs is encouraged and a list of urgently needed ones has been released for the

private sector to take up.

A crucial challenge addressed by these directives is China's ageing population. An improved healthcare system is being developed for senior citizens whose medical requirements continue to increase.

The State Council also outlined innovation in TCM since it is a major source of fulfilling the demand for health services. Authorities are promoting its integration with Western medicine and the latest guidelines call upon bolstering these efforts.

The government is making endeavors to ensure TCM develops through hospital-led, county-based and close-knit communities, according to a document released by the National Health Commission last month.

Medical advancements

Benefits of China's medical advancements are spreading far beyond its borders. Chinese biotech startups are expanding their presence in Silicon Valley and bringing research opportunities to the United States. Besides, a myriad of devices developed by Chinese brands are being applied in hospitals all across the Western world.

In developing countries, China is providing a remarkable support to public health. During last year's Forum on China-Africa Cooperation, China pledged to upgrade 50 medical aid programs for Africa and has been regularly sending medical missions overseas, efforts that are appreciated by international bodies.

The process of improving medical services is a continuous one. As China moves ahead in its high-quality development, authorities are making amenities available to more and more people. With the adoption of latest technologies, it is expected that the best healthcare will continue to be extended even to the remotest areas.

UAE paramedics to be trained in emergency ultrasound procedures



UAE paramedics to be trained in emergency ultrasound procedures

Paramedics will soon be trained to carry out ultrasounds in emergency cases and relay the results electronically back to the hospital to save time in diagnosis, it was announced recently.

This was just one of the revelations made at a press conference to announce the World Academic Emergency Medicine Congress (WAEMC), which will be held in Dubai for the first time on October 20-24.

Around 2,000 participants are expected to take part in the event, which is being organized by the Dubai Health Authority (DHA) and Index Conferences and Exhibitions.

Congratulating Dubai for bagging the winning bid, Dr Sagar Galwankar, executive director of the World Academic Council for Emergency Medicine (WACEM) said, "In emergency medicine, speed is equal to better trauma care. By training first responders to carry out ultrasound, we provide advance knowledge of a patient's condition to doctors even before the ambulance reaches the hospital. Besides that we train first responders in carrying out sonography for adults and children prior to their hospital admission."

The congress will for the first time bring together educators, researchers, clinicians and institutions from across the world, to share experiences and talk about advancements, innovations and academic achievements in the fields of trauma, emergency and acute care medicine.

Humaid Al Outami, director-general of DHA, said the congress will focus on key topics that include public health and emergency medicine, critical care, trauma and injury prevention, paediatric emergency medicine and preventive child health, health promotion and health protection, pre-hospital and disaster medicine, education and quality in emergency medicine and emergency nursing.

Dr Sara Kadhim, secretary-general of WACEM and head of the emergency department at Rashid Hospital said: "The conference will also contribute to enhancing the general knowledge of the participants regarding diagnosis and treatment in emergency medicine and trauma. Participants can also receive the Continuing Medical Education points approved by DHA."

An exhibition enabling leading international companies to display and share their latest technological developments in the field of medical devices, technologies and equipment related to emergencies, crises and disasters will be a highlight of the congress.

Mubadala partners with Nirvana Travel to support Abu Dhabi Vision 2030



Mubadala Investment Company, through its healthcare arm, signed a memorandum of understanding, MOU, with Nirvana Travel and Tourism to formalize their intention to collaborate on projects that will support the Abu Dhabi Vision 2030 objective of establishing the emirate as a leading medical tourism destination.

Areas of collaboration will focus on potential visitors from the GCC, the MENA region, Russia, China and India, and will include creating attractive and all-inclusive medical tourism packages, as well as exploring joint marketing and business opportunities.

Commenting on the signing of the MoU, Abdulla Abdul Aziz Al Shamsi, Head of Mubadala Healthcare, said, "By working together, Mubadala and Nirvana can ensure that patients will experience only the highest standards across the full spectrum of treatment and travel, thus helping cement Abu Dhabi's reputation as the destination of choice for healthcare."

Alaa Al Ali, Nirvana CEO, said, "Abu Dhabi's huge investments in medical tourism have significantly boosted the sector and created numerous opportunities for us to enhance it. Cooperation between government agencies and partnerships with the private sector contribute to making the capital a viable international medical hub. Nirvana and Mubadala will work together to meet the needs of patients from abroad, thus complementing Mubadala's efforts to enhance the local healthcare sector by utilizing existing healthcare expertise and the advanced infrastructure found here."

The partnership between medical and tourism entities follows the example set by Abu Dhabi's Department of Health and the Department of Culture and Tourism. As part of their collaboration, the departments have jointly set up a patient portal that will serve as a one-stop shop, where potential medical tourists can find useful information about healthcare providers, medical tourism packages, visa applications, accommodations and more.

Al Shamsi explained, "Through its tremendous support and by focusing on the combination of superior medical care and Abu Dhabi's highly regarded tourism industry, the government has established a framework for extensive cooperation between stakeholders that will secure the emirate's position as a leading medical tourism destination."

GoBe2: The 1st in the world smart brand that tracks calorie intake and hydration



GoBe 2 is a smart band uses a unique patented FLOW technology to track your calorie intake, body hydration, sleep, and stress level as well as pulse, steps, and distance.

FLOW Technology uses information from three sensors: accelerometer, impedance sensor, piezo sensor, to deliver comprehensive insights on your calories intake and burned.

When a person eats or drinks something it makes its way through the natural digestion process and reaches the intestines, where enzymes break down food. The duration of the digestion process depends on what you eat and the speed of your metabolism. When the glucose concentration rises, the cell absorbs it and release water.

GoBe2 uses a bioimpedance sensor that sends high and low-frequency signals through the skin to determine the movement of this fluid, track calories The dynamics of extracellular fluid can estimate: How many calories you consumed, What quantities of fats, proteins and carbohydrates.

In the end, you get a graph showing metabolic processes that shows how many calories you digested each day.

Hydration is very important to keep the bodies in good shape and GoBe 2 helps to monitor hydration level in the bodies.

It measures increases and decreases in your body's hydration level with Piezo sensor. It also uses information about your activity and body data. To help you stay hydrated, GoBe2 uses algorithms to determine

how frequently it should remind you to drink. GoBe2 calculates your water balance, on the basis on the several parameters. The level of fluid in cells is calculated with a bioimpedance sensor. An accelerometer measures the number of steps taken and overall physical activity and your personal characteristics like gender, weight, and age are also taken into account. With this data, GoBe2's algorithms determine how frequently the device should remind you to drink so that you stay hydrated.

The stress levels are measured by estimating your stress level by conducting a complex analysis: Piezo sensor identifies a high heart rate; The bracelet analyzes data on the previous night sleep quality and time zones change; Accelerometer measures the absence of physical activity at this moment.

GoBe2 makes an overall analysis of your body measurements: The piezo sensor measures your current and daily heart rate, the Sleep Cycle algorithm analyzes the previous night's sleep quality, the synchronization of Healbe GoBe2 with your smartphone provides information of time zone changes low stress, high and low stress.

GoBe2 analyzes this information to determine your emotional stress level. You can see the complete picture in the app but how is the stress level defined: When you experience emotions, the sweat glands respond to it. Using a galvanic skin reaction sensor (GSR), GoBe2 measures the activity of the sweat glands. If they are active for more than 10 minutes, GoBe2 notifies you about emotional stress with message "Emotion".

Get a good night sleep as GoBe2 provides a thorough sleep analysis by measuring your heart rate and motion behaviour throughout the night. Every night, GoBe2 monitors your body's parameters to provide a full data report of your sleep phases.

It tracks your heart rate day and night and measures your resting heart rate and pulse during physical activity, automatically and constantly, while you're wearing the device. It delivers updated measurements every 10 seconds and helps you evaluate your lifestyle and maximize your workouts.

When you wear GoBe2 on your wrist its Piezo-sensor constantly determines the frequency of your heart rate, when moving, your heart rate measurement can be less precise than when you are at rest. The Accelerometer tracks movement to better measure your heart rate during exercise.

Lastly this smart brand helps you keep your weight under control by changing your food habits for your ideal weight.

The anaesthesia team at Al Zahra Hospital Sharjah utilized a Total Intravenous Anaesthesia Technique to aid monitoring of the Spinal Cord



Dr Sherief Elsayed

Dr Sherief Elsayed, Consultant Spinal Surgeon, the team were the first in the UAE to use a patient-specific 3D printed model of the Spine in order to aid accuracy. Al Zahra Hospital Sharjah also utilized Medtronic's O-Arm, delivered to the hospital for the first time and amongst only a few centers in the whole of the GCC.

Valerie Tytgat, the anaesthesia team, the neurophysiology team, the ICU team, the nursing staff in theatre and on the wards, the pharmacy team, the physiotherapy team, the blood bank (which was thankfully not required) and of course our industry partners Medtronic and Edge Medical. There are of course countless others who ensured that the surgery proceeded safely and successfully – a demonstration that at Al Zahra Sharjah is a champion of Teamwork and Innovation in the region."



The patient was a 16 year old female with a 60 degree Adolescent Idiopathic Scoliosis (Lenke Type 5). When a curve reaches such a magnitude, the likelihood of progression (curve increasing in size) is over 70% - hence the need for an instrumented correction and fusion using pedicle screws and Titanium rods.

The anaesthesia team was led by Dr Hazem Daaji, Chief Medical Officer, who utilized a Total Intravenous Anaesthesia technique to aid monitoring of the spinal cord throughout the surgical procedure.

The patient was discharged on Day 7 after the procedure, which proceeded without any complication. She will remain under follow-up in Dr Sherief's clinic, to ensure that her spine fuses as intended.

Dr Sherief states: "We are grateful to the whole Al Zahra team who helped provide exemplary care to our patient. She left hospital smiling and confident about her future. Much planning went into the case and we are grateful to all of the teams involved – the theatre team led by Ms

Brain stimulation help stroke patients regain movement



On the occasion of World Brain, physicians of Cleveland Clinic, Ohio have announced the results of their trials in the use of deep brain stimulation in helping stroke patients regain movement.

Dr Andre Machado, chair of the Neurological Institute at Cleveland Clinic

said, "We wanted to leverage our experience with deep brain stimulation to see if we could use it to try to help patients we couldn't help before. After 10 years in the lab, we've given this treatment to six patients, most of whom have recovered some of the movement they've lost."

Physicians at Cleveland Clinic's Neurological Institute are working closely with their colleagues at Cleveland Clinic Abu Dhabi to introduce deep brain stimulation for Parkinson's disease.

The introduction of the treatment could open the door to stroke patients in the UAE.

"We have a strong collaboration with the team at Cleveland Clinic. We are keenly following their advances in adapting the technology to treat stroke patients," says Dr. Florian Roser, Chair of the Neurological Institute at Cleveland Clinic Abu Dhabi.

Lung cancer is the leading cause of death in UAE due to smoking



Of the 4,500 new cancer cases reported each year, 150 are of lung cancer in the UAE, according to the official cancer portal of the UAE government.

While the number may seem relatively small, doctors warned on World Lung Cancer Day on July 31 that most cases that come to light are in an advanced stage.

Dr Mohannad Diab, consultant oncologist from NMC Hospital, Abu Dhabi, said, "Nearly 50 percent of those who come in for screening are those in advanced stages, of which a majority of the patients succumb to lung cancer. Lung, colorectal and breast cancer together account for 30 percent of the fatalities due to cancer."

Deaths from lung cancer are preventable provided they are detected in the early stages, according to Dr Redha Souilamas, chair of the thoracic surgery department of the Cleveland Clinic, Abu Dhabi and chairman of the Thoracic Tumour Board.

Dr Souilamas said, "Only 150 cases of lung cancer diagnosed each year means that this disease is under diagnosed. We have a very young population and a large section of them are heavy smokers. Nearly 90 per cent of lung cancer cases occur due to smoking. It's not just cigarettes; people who have other forms of tobacco such as dokha and sheesha are also at high risk. However, most young people never come forward for early screening. It is at that stage when lung cancer is completely treatable. If a person has a history of heavy smoking and is past the age of 40, he must come in for screening."

Dr Souilamas added that going by UAE government recommendations, the Cleveland Clinic Abu Dhabi will begin a low dose CT scan for lung cancer detection in the last quarter of 2019. "This screening, which is the best option for early detection, will be reimbursed by health insurance policies and help us gain better control over spread of lung cancer," he added.

Besides the screening, the clinic has also started the

hybrid multimodality management of lung cancer protocol. Under this protocol, patients who are suspected to have lung cancer based on their symptoms and tests are wheeled into an operation theatre where a multidisciplinary team not only conducts the bronchoscopy and biopsy but also goes ahead and conducts the lobectomy or segmentectomy to excise the cancerous portion.

"In one shot, once the patient is under general anaesthesia, we complete all the procedures and that saves time of recovery and gives better results in containing the cancer," added Dr Souilamas.

Dr Abdul Rehman Labann, medical oncologist from the Advanced Oncology Centre Dubai, said, "This cancer forms in the tissues of the lung, usually in the cells lining the air passages. These abnormal cells do not carry out the functions of normal lung cells and do not develop into healthy lung tissue. As they grow, the abnormal cells can form tumors and interfere with the functioning of the lung."

The treatment and protocol to be followed for any lung cancer depends on the category and the stage of advancement. Based on these assessments, an oncologist will decide if the patient needs surgery, chemotherapy, radiation or immunotherapy.

Dr Diab recommended immunotherapy as a viable method of treatment in advanced stage lung cancer.

"In cases of patients over the age of 70 who come to us at an advanced stage, immunotherapy works very well. This therapy loads the immune system of the body with medicine that only picks out malignant cells and destroys them. It is a sort of targeted cell therapy with very few side effects. This works well in not only slowing down the cancer, but improving the quality of life of the patient. It may not provide complete remission but makes treatment tolerable and control the disease," he said.

Turkish Cargo extends IATA CEIV Pharma certificate till 2022



Turkish Cargo, the air cargo brand flying to the most countries around the world, extended the validity period of its IATA CEIV (Center of Excellence for Independent Validators) Pharma certificate to 2022, proving its success in all processes throughout the air transportation of medicinal products.

Trainings for renewal period of the certificates, obtain initially in 2016 in order to be valid and applicable for a period of three years, were planned with the Turkish Airlines Aviation Academy, and completed successfully following the audits by the IATA, resulting in extension of the validity periods of such certificates for the "Turkish Airlines INC (Air Carrier) and Ataturk Airport (ISL)" station.

Turkish Cargo acts responsibly with priority to maintenance of the integrity of all cold-chain products throughout the transportation process of the critical medicinal products such as medicines, vaccines, biotechnological products, diagnosis samples, sensitive medical devices, organs, tissues, etc. which have a high level of importance in respect of temperature and time, and carries out its operations in accordance with the qualification criteria for the IATA CEIV Pharma certificate.

Implementing all handling procedures with dedicated teams working in harmony at its special cargo storage facility of 3,500 m² in all its accomplished special cargo operations, Turkish Cargo makes use of active temperature-controlled Envirotainer and CSafe containers, the electrical air-conditioning container Opticooler, Thermal Dolly and disposable thermal sheets equipped with thermal isolation features, minimizing any and all risks in highly-critical medicinal products.

Making use of special products designed exclusively for consignments including medicines and medical products and introducing its superior shipment quality to the giant global pharmaceutical companies, Turkish Cargo provides air cargo service to 126 countries thanks to its extensive flight network.

BRS Group to open stem cell company in Abu Dhabi

Abu Dhabi-based billionaire BR Shetty's BRS Group plans to launch a stem cell research company in Abu Dhabi, he said in an interview.

Stem cell therapy – also known as stromal vascular fraction cellular (SVFC) therapy – is a rapidly expanding set of medical technologies that restores cellular function by enabling the body to repair, replace and regenerate damaged, aging or diseased cells, tissues and organs.

The procedure can be used to significantly boost success rates for a wide variety of conditions, including pain management and neurologic, orthopedic and cardiovascular issues.

In an interview with a local business newspaper, Shetty revealed that the research company will focus on researching the production of human blood, kidneys and livers.

"I'm making a stem cell research company in Abu Dhabi. I have a partnership with an FDA [Food and Drug Administration] approved product from America," he said. "I'm getting the technology here."

Shetty added that he hopes the plans for the research company to be finalized in October.

"Then, in six or eight months, the product will be out," he added. "Kidneys are the major thing, and the immunity [levels] will be very good, because rejection will not be there."

"It's my giving back to the country and to the whole world," he added.

No further details about the new stem cell research company were disclosed.

BRS GROUP rather than NMC Healthcare -the UAE's first private healthcare facility –, which was founded by Shetty in 1974, just one year after arriving in the country, is undertaking the project. He remains as the group's joint non-executive chairman after being replaced as CEO by then-deputy Prasanth Manghat in March 2017.

According to Shetty, NMC hopes to expand in the near future.

"We will expand in the whole region and wherever is possible, especially in Europe and America," he said.

Stem cell research is gaining prominence in the UAE. In January 2019, for example, Dubai Healthcare City announced an increase in stem cell banking services with the opening of a CryoSave Arabia laboratory that can store a million samples.

In July 2018, Dubai's first dedicated stem cell treatment facility was announced as part of a partnership between Emirates Hospital Jumeirah – an Emirates Healthcare Company – and ReGen Medical Management Dubai.

The opening followed more than 600 successful stem cell therapy treatments by ReGen Medical in the US.

'As-a-service' business strategy spurs growth in the global medical imaging industry



With healthcare systems around the world gradually transitioning to value-based care, the \$250 billion global medical imaging industry is shifting from its traditional product-selling focus to the provision of solutions and services to adapt to the new market scenario. The 'as-a-service' business strategy currently being adopted by the industry, which exhibits a CAGR of 11.3%, offers market participants manifold growth opportunities.

"Traditional business models centered on selling products based on specification superiority or product USP will slow down the growth of the imaging vendors," said Dr. Suresh Kuppuswamy, Industry Principal at Frost & Sullivan. "Business models offering the product/solution-as-a-service with guaranteed performance will gain traction in the future as hospitals look to focus on achieving clinical excellence and explore partnerships to achieve operational and financial excellence."

Frost & Sullivan's recent analysis, Growth Opportunities in Radiology-as-a-Service Market, Forecast to 2023,

explores the factors and trends that have shaped the global medical imaging landscape, the challenges that lie ahead, and the opportunities that can be exploited. The study provides a detailed analysis of the growth opportunities for key players in the Radiology-as-a-Service (RaaS) space.

"As-a-service business models in radiology are prevalent across North America and Europe. While the European market has been witnessing the provision of offerings 'as-a-service' for a number of years, the North American market will grow in size as the industry matures," noted Kuppuswamy. "Apart from these two regions, service models are also seeing increasing interest in Asia-Pacific, Australia, New Zealand, and Gulf countries."

Companies operating in the RaaS industry can potentially foster growth by:

- Entering into long-term, service-based partnerships, which will promise business continuity for clients while ensuring recurring, stable revenues for vendors.
- Utilizing teleradiology services to offset the shortage of radiologists worldwide.
- Employing pay-as-you-use cloud-based IT services, thereby drastically reducing infrastructure investments and maintenance costs.
- Entering risk-sharing contracts with imaging equipment vendors, which enables cash-strapped healthcare providers to afford the latest equipment at a fraction of the cost.

Growth Opportunities in Radiology-as-a-Service Market, Forecast to 2023 is part of Frost & Sullivan's Transformational Health research and analyses available through the Frost & Sullivan Leadership Council, which helps organizations identify a continuous flow of growth opportunities to succeed in an unpredictable future.

MoHAP to provide free healthcare services to low-income patients

The UAE Ministry of Health and Prevention (MoHAP) has partnered with healthcare supplies firm Biologix and Axios Health Education Services to provide around 260 low-income patients will treatment, according to the WAM state news agency.

The initiative will see low-income patients - including those who aren't covered by insurance - gain access to vital medications to treat multiple myeloma, psoriasis, psoriatic arthritis, and relapsing-remitting multiple sclerosis.

"This humanitarian initiative is part of a series of initiatives launched by MoHAP in conjunction with the Year of Tolerance. It aims at providing drugs for the needy patients who aren't covered by insurance, improving patients' commitment to pursuing their treatment plan, supporting uninsured patients and those who don't have prescriptions to obtain their treatment," Dr. Ruqaya Al Bastaki, Director of Drug Department at the ministry, was quoted as saying.



Axios Health Education Services will work with charities and partners such as licensed doctors, pharmacies, to make sure the medications and treatments are delivered to those who need them.

New insurance system to streamline payment protocols in hospitals from 2020



The Dubai Health Insurance Corporation (DHIC) at Dubai Health Authority (DHA) will introduce a new insurance system that provides ease of payment and may bring down insurance premium from next year.

Diagnosis Related Group (DRG) classification, an internationally vetted billing system, will use algorithms to fix base fees for treatments of a range of health conditions.

Both private and public hospitals across Dubai will be covered by the system, which streamlines payment protocols, and both insurance and health sectors have welcomed the move towards greater transparency and accountability in medical procedure rates and billings.

Eventually, it is expected to bring down insurance premiums for UAE residents, as the entire billing system will move towards a more egalitarian method of payment.

A private hospital spokesperson said, "Hospitals will be graded according to the case, experience and their performance, earning points for their better performance. So we will have three aspects on which we can get a slightly better price – the relative rate, the grading by DHA and then we will have the privilege to negotiate with the insurance company on a case-by-case basis to get us a better price within that band of illnesses."

Saleh Al Hashimi, CEO of DIHC at DHA, said, "The

accuracy of medical coding plays an important role in DRG payments.

"DHIC will be introducing measures to standardize medical coding and adjudication rules to streamline practices in claims processing across all insurers and hospitals.

"DRGs will not streamline payment systems," he added. "But will help streamline the approval process for insured members by providing a calculated fixed price per inpatient service, in turn this will streamline payments to providers as any disputes between insurers and hospitals around the necessity of conducted procedures will be drastically reduced."

Once prices of treatments are standardized, services will be streamlined too. No patient will get over-prescription or over treatment and the duration and length of stay would also be considered in the fixed payment to the hospital. Under the new system, for example, if a certain illness requires a patient a four-day stay, the hospital will have to follow it. Also, following a surgery or any hospital stay, if the patient has a relapse of any kind and requires a repeat admission, the hospital will get negative points and will also have to treat the patient without the ability to file for a claim from the insurance company, an official of a private hospital explained.

Once insurance companies are able to save amounts and are not overcharged in the long run, the benefits of this are expected to eventually filter down to the patients and there is a likelihood of premiums coming down.

Al Hashimi said, "The implementation of DRGs focuses on benefitting the patient by encouraging hospitals to improve efficiency and quality of patient care. In the DRG payment model, bundle payments encourage hospitals to be more cost effective in their care delivery. As a result, the cost of healthcare and premiums would reduce overtime. Hospitals will now be required to be more efficient in treatment, leading to improved patient outcomes and increased patient satisfaction while reducing waiting time for approvals."

Dallah healthcare signs agreement with Siemens healthcare to provide technical support to all hospitals

Dallah Healthcare Company has signed a joint venture (JV) with Siemens Healthcare Limited.

The deal is the first of its kind in Saudi Arabia and the region in the medical field, according to the company's statement to the Saudi Stock Exchange (Tadawul).

Both parties are aiming to be in line with the National Transformation Plan in the healthcare sector and participating in achieving the 2030 vision.

Dallah signed a long-term strategic partnership contract with Siemens valued at SAR 112 million to operate and provide technical support for radiology sections in all hospitals that would be appointed to Dallah by private and public sector hospitals and its hospitals.

Moreover, Siemens will provide technical support for Radiology Divisions.

Siemens Healthcare, the mother company for several medical technology companies located in Germany, will



provide technical support, developing medical skills and replace current equipment for X-ray divisions for 10 years period.

As for the financial impact, it is considered to be positive, as there will be a reduction in the costs of assets and maintenance.

The financial impact of the long-term deal will be reflected in Dallah's financials of the first quarter of 2020.

Aster leverages health advancements with new research center in Bangalore

Aster DM Healthcare is to set up a research Centre for the GCC and India in Bangalore.

The Aster Innovation and Research Centre aims to leverage the advances in digital health research like AI, cognitive psychology, blockchain, IOT, behavioural economics etc. and on-board start-ups that can drive innovation.

It will also focus on applied research with universities, startups and industry partners.

Dr Azad Moopen, founder chairman and managing director, Aster DM Healthcare, said, "With evolving patient needs, it is essential to focus on the digital transformation of healthcare because of advances being made in various areas like AI, genomics and molecular biology which is likely to produce a quantum leap."

Aster DM Healthcare offers services ranging from primary care to quaternary care and has the MIMS Research Foundation in-house research center as well as a medical college, DM Wayanad Institute of Medical Sciences.

The chief of innovation, Dr Satish Prasad Rath, MD, a post-graduate medical doctor and a digital health scientist with multiple patents, with rich experience of leading research and innovation labs at Xerox Innovation



Group, Wipro Technologies, Intel labs and Philips Research, will head the new research and innovation center in Bangalore.

He said, "We will be tapping into the rich evolving entrepreneurship culture of start-ups and academia in a collaborative model whom we can curate and co-create for better future. Simultaneously we will be preparing the digital health aware/ empowered workforce in collaboration with government and teaching institutions."

UAE medical tourism sales up by 5.5% reaching Dh12.1b in 2018



Medical tourism sales in the UAE increased 5.5 percent year-over-year to reach Dh12.1 billion in 2018, with growth supported by several government-led initiatives and the rising number of medical tourists in the country, new analysis released by Dubai Chamber of Commerce and Industry revealed.

The analysis, based on recent data from Euromonitor International and Fitch Solutions, found that health expenditure in the UAE amounted to an estimated Dh50.3 billion in 2018, marking a 5.4 percent increase compared to the previous year.

Key factors supporting this growth trend include new medical tourism initiatives implemented by government entities and increasing sector privatization in the form of investment and by building state-of-the-art health facilities.

Among the main initiatives recently introduced by the

Dubai Health Authority is the Dubai Health Experience, which is the first medical tourism portal in the region that enables tourists to book their entire medical holiday online.

The Abu Dhabi Department of Health and Department of Culture and Tourism - Abu Dhabi, jointly launched the Abu Dhabi Medical Tourism e-portal, a digital platform that provides visitors to Abu Dhabi all medical offerings and healthcare facilities throughout their visit.

Also, DCT Abu Dhabi and Medical Tourism Association, MTA, signed a Memorandum of Understanding to mark the opening of the MTA's first office in Abu Dhabi and the hosting of the World Medical Tourism and Global Healthcare Congress in Abu Dhabi in October 2019.

According to the analysis, there were 154 hospitals in the UAE in 2018, up from 107 in 2013. UAE hospitals saw 49.1 million patients visits last year (up 3.5 percent from 2013), and 789,198 public inpatient admissions were accounted for last year, while 119,897 surgical procedures were performed during the same period.

Growth momentum behind medical tourism in the UAE is expected to continue over the years, with sales in this sector projected to grow at a compound annual growth rate, CAGR, reaching an estimated value of Dh19.5 billion by 2023.

Expo 2020 and continued development of the healthcare sector is projected to drive the sector's growth in the near future, in addition to Dubai government's target to attract more than 500,000 medical tourists by 2020, the Dubai Chamber analysis said in conclusion.

Health ministry unveils postpartum initiative for new mothers



The Ministry of Health and Prevention has launched a Postpartum initiative to encourage young mothers to go on follow up visits to their health centers after delivering a baby.

The initiative will help entrench the culture of medical visits and follow-ups among women after childbirth, to check on the health of the mother and child and to conduct necessary tests. The visits will help the young mother be aware of the psychological changes that may occur in her life, in addition to raising awareness of the importance of breastfeeding for her and her child. As part of the initiative, awareness campaigns will be launched and educational brochures will be distributed, in addition to the promotion of videos and messages on social media.

The health ministry has launched this in line with government accelerators to empower women and encourage entrepreneurship among them and is likely to strengthen cooperation between the General Women's Union (GWU) and Ministry of Health and Prevention, Department of Health-Abu Dhabi, Dubai Health Authority (DHA) and the UAE Gender Balance Council.

The initiative will be implemented under direct follow up by Her Highness Shaikha Fatima Bint Mubarak, Chairwoman of the General Women's Union (GWU), President of the Supreme, Council for Motherhood and Childhood, and

Supreme Chairwoman of the Family Development Foundation (FDF), Mother of the Nation, to speed up the execution of the government accelerators concerned with the empowerment and entrepreneurship of women.

Dr Hussain Al Rand, Under-Secretary Assistant of Health Centres and Clinics Sector at the ministry, reaffirmed that the Postpartum Acceleration initiative was aimed at raising women's awareness on the importance of visiting the hospital post-delivery to enhance their health. Many hospitals such as Al Tawam, Al Rahba, Latifa Women and Children Hospital and Hatta Hospital in Dubai, in addition to Fujairah Hospital and Dibba Hospital in Fujairah, will be open for post-partum follow-ups.

Dr Al Rand said, "The initiative is expected to yield positive results and ensure better health for mothers and children. The positive outcomes include an increasing proportion of women breastfeeding and enhance their awareness on its importance, improving the percentage of women undergoing early screening for cervical cancer, detecting and early treating post-partum depression, which in turn will reduce maternal and infant mortality."

Last June, Shaikha Fatima announced the launch of the fifth batch of government accelerators concerned with the empowerment and entrepreneurship of women in the UAE with the participation of 30 government and private entities.

The participating entities will work on a number of challenges in 100 days, focusing on the quality of life of women in all stages of life, providing counseling services especially during the first years of marriage, the introduction of the gender balance of the financial and banking sector, raising the employment rate for those with an emphasis on women, and providing specialized health care services for women after childbirth.

UAE to add sweetened beverages and e-cigarettes to its excise tax list in 2020

The UAE Cabinet recently made a decision to expand the list of excise taxable products to include sweetened beverages, sugary drinks and electronic smoking devices, starting from January 1, 2020.

The decision to add a tax of 50 percent is part of efforts to reduce consumption of unhealthy goods and modify consumers' behavior, state news agency WAM reported.

A statement released by the Cabinet General Secretariat read, "The decision comes to support the UAE government's efforts to enhance public health and prevent chronic diseases directly linked to sugar and tobacco consumption.

"A tax of 50 percent will be levied on any product with added sugar or other sweeteners, whether in form of a beverage, liquid, concentrate, powders, extracts or any product that may be converted into a drink," it added.

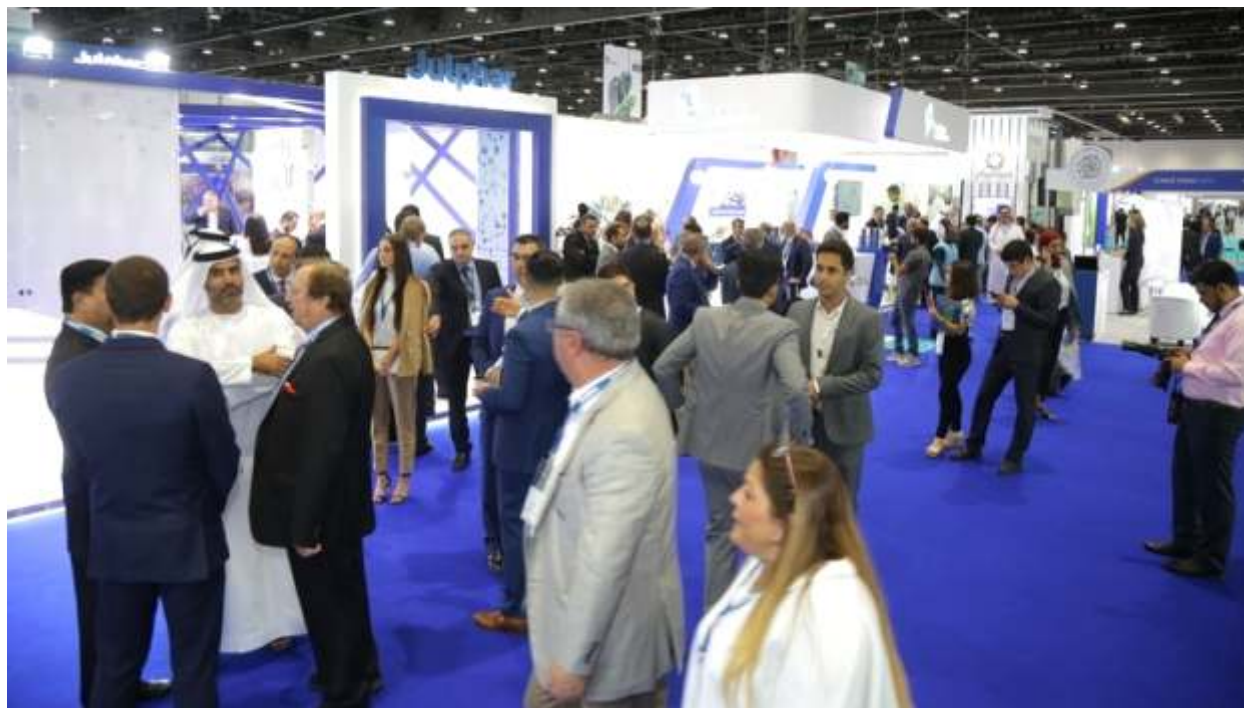
WAM said the decision also requires manufacturers to



clearly identify the sugar content in order for consumers to make 'sensible healthy choices'.

The statement also said that a tax of 100 percent will be levied on electronic smoking devices, whether or not they contain nicotine or tobacco, as well as the liquids used in electronic smoking devices.

Saudi pharmaceutical market worth \$10.74b by 2023



The rapid growth of Saudi Arabia's pharmaceutical market was placed under the spotlight at the CPhI Middle East and Africa as latest industry data reveals it is expected to be valued at \$10.74 billion by 2023.

The event, sponsored by the Ministry of Health and Prevention (MoHaP), returned to the Abu Dhabi National Exhibition Centre (ADNEC) from September 16-18 explored the rapid reform of Saudi Arabia's healthcare system at both regulatory and service provision levels.

According to new research ahead of the event, the kingdom's pharmaceutical market is expected to grow at a compound annual growth rate (CAGR) of 5.5 percent until 2023.

Cara Turner, brand director – Pharma, UBM EMEA, the organizers of the event, said, "Saudi Arabia is one of the largest pharmaceutical markets in the Middle East, and its expansion over recent years can be attributed to a growing population, an increase in non-communicable diseases and strong state support for health services, with major government investment in new hospitals and clinics."

According to UN figures, Saudi's population stands at an estimated 34 million, 32 percent of which are under 14 years and is growing at around 2 percent annually. Life expectancy has increased from 69 years in 1990 to over 75 years today.

In addition, the country has seen a rise in non-communicable diseases such as cardiovascular diseases, cancer, chronic respiratory disease, diabetes and obesity, which tend to require long-term treatment and medication.

Many of these diseases are a consequence of poor lifestyle choices, but alarmingly over 35,000 children have been diagnosed with Type 1 diabetes placing the kingdom in the top four countries worldwide in terms of incidence.

"To address these issues, in 2019 alone, the Saudi government introduced a 17 percent increase (\$45.86 billion) in funds allocated for spending on health and social development – with approximately \$12.72 billion earmarked for spending on healthcare projects directly linked to Saudi's Vision 2030," said Turner.

At present pharmaceuticals manufactured overseas continue to account for the majority of the market – with around just 20 percent of the drugs consumed in the country made locally.

The government has implemented long-term development strategies in a bid to promote local medicines.

Turner said, "The kingdom is working to boost the proportion of local manufacturing in the pharma-sector to approximately 40 percent by the end of 2020 while the Ministry of Health has been tasked with further localizing the industry, both in terms of sources and in employment."

He added, "A price protection strategy for locally-produced products - such as exemptions from price cuts imposed during the re-registration process – is just one of the tools being used to attract further investment in the Saudi pharmaceutical sector in line with Vision 2030 and as an incentive for further stimulating local manufacturing in the region."

Expo 2020 Dubai to highlight healthcare innovations such as VR and robotics



Expo 2020 Dubai will organize a series of 9 medical conferences and specialized events during the six-month-long event.

The events – which will be held at the co-located Dubai Exhibition Centre – will focus on high-tech healthcare innovations including virtual reality, robotics, paediatric, orthopaedic and surgery technology, as well as 3D printing and wearable health-tech.

The conferences will be organised by the Dubai-based Medetarian Conference Organizing MCO, which will lease a cumulative 160,000 sq m of space.

"The 9 cutting-edge medical conferences and specialist events that will be hosted at DEC during Expo 2020, under this significant agreement with

MCO, will serve as an invaluable addition to the UAE's medical landscape, offering an opportunity for Expo 2020's international visitors and participants to engage in ground-breaking discussions regarding the global healthcare sector," said Najeeb Mohammed Al-Ali, the executive director of the Expo 2020 Dubai Bureau.

MCO's CEO, Dr. Mohammed Abuelkhair, added, "Expo 2020 Dubai is a great opportunity for conference organizers such as MCO to take on new initiatives and build something unique for the future."

Dubai is already hosting to a number of high-level healthcare and medical-related conferences, including the yearly Arab Health event.

Infor to support hospitals in improving outcomes and lowering costs

Infor, a leading provider of industry-specific cloud applications, announced Infor Healthcare Enterprise Analytics, a comprehensive solution that will provide healthcare organizations with greater insight into their operations, supporting their efforts to improve outcomes and lower costs.

Powered by the Infor Birst Cloud Analytics platform, the solution will transform complex data from any source into a comprehensive picture of patient and population health. Infor Healthcare Enterprise Analytics is part of Infor CloudSuite Healthcare, a complete software platform that includes solutions for finance, supply chain, human capital, and clinical interoperability.

Improving visibility to reduce the cost of care, while improving outcomes, is a top strategic priority for most hospital executives. With an analytics solution that can turn data into insights, healthcare organizations can identify opportunities for continuous improvement. They can get a better view

of operational productivity, urgent care performance, Emergency Department (ED) statistics, physician comparisons, and re-admission rates, for example.

"Addressing the issues related to data quality, aggregation, and processing is integral to creating a viable analytics environment, for the long-term, in healthcare organizations," said Tarik Taman, Vice President and General Manager for IMEA, Infor. "The benefits of our modern cloud analytics solution are both operational and strategic. The solution gives healthcare organizations the ability to automate and standardize the process of connecting, preparing and relating data, which speeds up time-to-value."

As healthcare organizations continue to grow and acquire other providers, having a single source of truth across all entities is critical for timely and accurate decision-making. They need a modern, secure cloud analytics platform to reduce IT costs, while providing new analytics capabilities to key stakeholders.

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Dubai Police (Non-Emergency)
Tel: 04-609 6999

Sharjah Police
Tel: 06-563 3333

Ajman Police
Tel: +971 6 740 9999

Fujairah Police
Tel: 09-222 4411

Ras Al Khaimah Police
Tel: 07-235 6666

Umm Al Quwain Police
Tel: 06-765 6677

Directory Enquiry Services
Etisalat - 181
Du - 199

Disclaimer: Contact details in this section are for reference only. For any inquiries, please get in touch with the relevant authorities and entities directly as the contact details such as telephone numbers, email IDs and website addresses may change in time.





Global conference on Surgery and Anesthesia (GCSA)
21-23 October Dubai, UAE
<https://surgery-conferences.magnusgroup.org/>

GCC pharmacy congress
24-26 October Dubai, UAE
<https://www.gccpharmacongress.com/events/6th-annual-gcc-pharmacy-congress-2019/event-summary-a6c438c14a284099ad0cb4b4e37e2cb7.aspx>

World congress of Neurology
27-31 October Dubai
<https://2019.wcn-neurology.com>

UAE International conference on Medical & Health science (CMHS)
1-2 November Dubai, UAE

Vision X
12-14 November 2019, Dubai, UAE
<http://dubaiopticalshow.com/home>

Global Conference on Research Innovation & Preventive Breast Cancer Advances
19-20 November
Dubai, UAE
<https://www.breastcancermeet.com/index.php>

IFHIMA International Congress
17-21 November
Dubai, UAE
<https://ifhima2019.com>

World Congress on Nursing & Healthcare
21-22 November
Dubai, UAE
<https://scientificfederation.com/nursing-healthcare-2019>

World Conference on Vaccine and Immunology
21-22 Nov 2019
Dubai, UAE
<https://immune.vaccineconference.com>

Vision X
12-14 November
Dubai, UAE
<http://dubaiopticalshow.com>

Congress of the Int'l Society for Organ Donation and Procurement
12-14 November
Dubai, UAE
<http://www.isodp2019.org>

Wellness World
21-23 November
Dubai, UAE
<http://www.wellnessworld.me>

Arab Health
27-30 January, 2020
Dubai, UAE
www.arabhealthonline.com

Emergency Medicine
27-30 January, 2020
Dubai, UAE
<https://www.arabhealthonline.com>
Medlab Middle East
3-6 February 2020
Dubai, UAE
<https://www.medlabme.com/en/home.html>

UAE International Dental Conference & Arab Dental Exhibition
4-6 February 2020
Dubai, UAE
<https://aeedc.com>

AEEDC Dubai World Orthodontic Conference
4-6 February 2020
Dubai, UAE
<https://aeedc.com/aeedc-dubai-world-orthodontic-conference-2018-scientific-organizing-committee>

Pediatric & Neonatal International Conference UHS
13-14 February 2020
Dubai, UAE
<http://www.uhspnc.com>

Arab International Paediatric Medical Congress
13-15 February 2020
Dubai, UAE
www.arabpediatriccongress.com/events/7th-annual-arab-international-paediatric-medical-congress
International Trauma Congress
19-21 February 2020

Dubai, UAE
<https://itcdubai.net/>

Dubai International Pharmaceutical & Technology Conference & Exhibition
25-27 February 2020
Dubai, UAE
<https://duphat.ae>
International Emergency Catastrophe Management Exhibition (IECM)
10 - 12 March 2020
Dubai, UAE
<http://emergency.ae>

Dental Congress
12-13 March 2020
Dubai, UAE
<https://www.hilarisconferences.com/dental>

GulfThoracic Congress
11-14 March 2020
Dubai, UAE
<http://www.gulfthoracic.com/>

Dubai World Dermatology and Laser Conference & Exhibition
16-18 March 2020
Dubai, UAE
<https://dubaiderma.com>

International Conference on Medical Environmental And Biotechnology
19-20 March 2020
Dubai, UAE
<https://waset.org/conference/2020/03/dubai/ICMEB>

EPOMEC
19-21 March 2020
Dubai, UAE
<http://www.epomec.ae/>

International Congress for Joint Reconstruction
2-4 April 2020
Dubai, UAE
<https://www.icjrmiddleeast.com/>

Dubai Accessible Tourism International Summit
5-6 November 2020
Dubai, UAE
<https://dubaiaccessibletourism.com>



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