

THE LIFE SCIENCES  
LAW REVIEW

EIGHTH EDITION

Editor  
Richard Kingham

THE LAWREVIEWS

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# PREFACE

The eighth edition of *The Life Sciences Law Review* covers a total of 33 jurisdictions, providing an overview of legal requirements of interest to pharmaceutical, biotechnology and medical device companies. The chapters are arranged so as to describe requirements throughout the life cycle of a regulated product, from discovery to clinical trials, the marketing authorisation process and post-approval controls. Certain other legal matters of special interest to manufacturers of medical products – including administrative remedies, pricing and reimbursement, competition law, special liability regimes and commercial transactions – are also covered. Finally, there is a special chapter on international harmonisation, which is of increasing importance in many of the regulatory systems that are described in the national chapters.

The past year has seen a number of significant developments. Shortly after the publication date for this edition, the European Union will begin enforcing significant changes in the regulatory regime for medical devices. The United States is considering measures to improve the transparency of pricing for prescription drugs. The United Kingdom is addressing changes to drug regulatory systems that must accompany the country's withdrawal from the EU, and drug and device manufacturers are actively planning for the effects of Brexit on their supply chains. The governments in India and China continue to consider changes in their regulatory systems for drugs and medical devices.

It is vitally important that lawyers who advise companies in the life sciences sector and the business executives whom they serve have a working knowledge of the regulations and policies that govern drugs, biologics and medical devices. It is equally important to keep up to date with developments in the regulatory systems, which govern access to the market, pricing and reimbursement, advertising and promotion, and numerous other matters that are essential to success. It is our hope that this annual publication will be helpful in this respect.

All of the chapters have been written by leading experts within the relevant jurisdiction. They are an impressive group, and it is a pleasure to be associated with them in the preparation of this publication.

**Richard Kingham**

Covington & Burling LLP

Washington, DC

February 2020

# UNITED ARAB EMIRATES

*Melissa Murray and Surabhi Singhi*<sup>1</sup>

## I INTRODUCTION

The UAE biotechnology and pharmaceutical industries are subject to stringent regulation – primarily by rules and regulations at the federal level and, to a lesser degree, at the individual Emirate level. Abu Dhabi and Dubai have the most developed rules and regulations of the seven emirates with respect to biotechnology and pharmaceutical matters, and the other Emirates usually follow their respective cues as regards policy and legislation.

As the United Arab Emirates (UAE) has now evolved as a member of the globalised economy, it has endeavoured to make itself a global destination for healthcare. Accordingly, much of its new legislation reflects the influence – and direction – of jurisdictional trends of international market players in the pharmaceutical and medical industries. There has been a growth phase in the healthcare sector in the past few years, which has helped the UAE move towards becoming a hub for medical tourism. The nation's strategy also aims to guide and support the industry by building sustainable public-private partnership models in the healthcare sector.

## II THE REGULATORY REGIME

To be supplied in the UAE, therapeutic goods must be vetted by the Registration and Control Department (RCD) of the Ministry of Health and Prevention (MOHP). The importer, exporter, manufacturer or seller of medicine or medical devices must satisfy the requirements of the RCD before they can be disseminated for public consumption within the UAE.

### i Classification

The RCD regulates medication and medical devices (which includes a delineation for devices that include a pharmaceutical component). The RCD further oversees the examination and registration of dietary supplements (including vitamins and herbal extracts), medicated cosmetics, antiseptics and disinfectants, and all other products that contain a pharmaceutical component or medical claim that cannot otherwise be appropriately classified as a medication. Foodstuffs and general consumer products are not regulated by the RCD provided they assert no medical or therapeutic value or claims.

The RCD and the MOHP have the unilateral right to pull or ban any products that they may later deem to be unsafe for public consumption based on studies or recent cases within the UAE.

---

<sup>1</sup> Melissa Murray is a partner and Surabhi Singhi is a senior associate at Bird & Bird (MEA) LLP.

## ii Non-clinical studies

### *Use of animals*

UAE Federal Law No. 16 of 2007 (on animal protection) states, at Article 12, that the use of animals for scientific purposes must be approved by the applicable governmental authority. Further, animals are protected from neglect, abuse and cruel treatment by applicable UAE law.

The law specifically states ‘scientific purposes’, which seems to implicate medical or pharmaceutical testing and does not directly address or contemplate the use of animals for the testing of (non-medicated) cosmetics or household products. The governmental approval process is always at the discretion of the concerned director, who may reject any request deemed excessive, unnecessary or generally harmful.

### *Embryos*

UAE Federal Law No. 11 of 2008 (on the licensing of fertilisation centres) contained several provisions that allowed for the freezing of embryos, which were overturned a few years later by a directive of the UAE government and, as a result, hospitals and clinics were ordered to destroy or otherwise dispose of any frozen embryos in their custody. Now, only unfertilised eggs may be stored at appropriately accredited and licensed facilities.

The UAE Federal National Council approved the draft regulations relating to embryo freezing, with a particular focus on keeping pace with the other regions of the world that allow for this protocol.

### *IVF regulation*

IVF clinics are regulated pursuant to UAE Federal Law No. 11 of 2008 (on the licensing of fertilisation centres). Governmental approvals are contingent upon satisfaction of numerous requirements, including facilities, equipment and staffing with appropriate professional personnel. There are numerous IVF clinics throughout the UAE.

### *Stem cells*

There are no specific regulations (and, therefore, no restrictions) with respect to stem cell therapies in the United Arab Emirates. In 2010, the MOHP licensed its first stem cell practitioner, a specialist in spinal cord and brain injuries, and a facility to perform stem cell therapies within the UAE. There have been reports of autologous stem cell treatment on two patients with degenerative diseases. However, general stem cell transplants have been permitted on a restricted, alternative basis, although the storage of stem cells has been permitted. The Dubai Health Authority (DHA) approved the first stem cell and regenerative medical centre in Dubai in 2018.

The Department of Health – Abu Dhabi (DoH), the regulator of the healthcare sector in Abu Dhabi, alongside the Abu Dhabi Health Services Company and the United Arab Emirates University, signed a memorandum of understanding (MoU) with a Swedish company, Takura in September 2019, with the aim of bringing the entities together to develop and implement several revolutionary cell therapy treatments in the hope of aiding the treatment of several chronic diseases including cancer, diabetes and dementia.

The UAE has further announced the intent to inaugurate a new cancer treatment and research centre by 2020, which will also have a state-of-the-art bone marrow transplant division.

### ***Organ transplants***

The UAE federal law permitting organ transplantation became effective in March 2017. The law allows the transplant of tissue or organs from either live or deceased patients for the care of patients in need of the same. However, the law prohibits the sale of human tissue or organs, the funding of transplantation if this results from such sale, and the unlicensed advertising of transplantation services.

The DHA announced in November 2018 that a local committee will be formed to regulate the transport and transplantation of organs and tissues in Dubai.

### **iii Clinical trials**

All clinical and research trials within the UAE require human subject consent, as well as the written approval of the MOHP, or other concerned governmental authorities, after a review of an application for such trials.

The Guidance of the Drug Control Department (DCD) of the MOHP states that the sponsor of a specific clinical trial or experimental protocol is required to secure all the necessary agreements between the concerned parties.

Designated clinical trial centres should establish independent institutional ethics committees (IECs), which are then tasked with reviewing the relevant proposals of the sponsors. These IECs will review the proposals for clinical trials and experimental protocols, taking into consideration the soundness of the objectives and the medical protocols and practices.

The IECs will render recommendations as whether or not to commence a clinical trial based upon the information provided. The findings and recommendation will then be provided to the applicable governmental authorities for their final, official approvals.

In the respective proposal, the sponsor is to set forth the compensation (if any) for the investigators and the subjects of a clinical trial in its proposal to the IEC. Furthermore, the IEC is to review and approve the proposal of the sponsor with respect to insurance coverage, indemnities or other forms of compensation in case of subject injury.

The investigator may also be the sponsor of a clinical trial, provided it independently plans, conducts and assumes full responsibility for the clinical trial.

All amendments to protocols and all unexpected or serious adverse reactions to drugs administered during the clinical trial are to be reported immediately to the Ethics Committee.

While the clear letter of the law states that no unregistered drugs may be used within the UAE, there are certain circumstances where the MOHP or other governmental departments have approved the use of unregistered drugs (discussed in further detail in subsection iv, below).

The Guidance further states that all clinical trials should follow the Helsinki Declaration to safeguard the rights of individuals subject to a clinical trial.

### **iv Named-patient and compassionate use procedures**

In exceptional circumstances, governmental authorities in the UAE have permitted the importation and use of unregistered medicine into the country. The MOHP has recently put forth an approval process that allows such importation, under any of the following circumstances:

- a* to extend the life of a patient in an emergency situation;
- b* certain heart or cancer treatment medication that is not available in the UAE and cannot be dispensed in hospitals;

- c* other medication that has not yet been regulated by the MOHP, but which the MOHP has determined may be of benefit in emergency or other circumstances;
- d* medications that have been previously registered but have been cancelled by the local agent as a result of lack of market demand; or
- e* unregistered narcotic or psychotropic drugs for use in specialised hospitals with specific protocols.

Because of the nature of the UAE's regulated market, applications to obtain or use unregistered medication or devices must be tailored for specific patients, trials or protocols, and exigent circumstances. As a result, the quantity of unregistered medication should be limited to a specific hospital or clinic capacity, and for existing or anticipated patients per the application. The MOHP has the discretion to reject, approve, or approve with modifications any application for unregistered medication.

Furthermore, the application to the MOHP must include the following documents or information: (1) a signed undertaking letter from the concerned hospital or clinic that it shall bear all liability for the use of the unregistered medicine; (2) a certification that the medicine is registered in the country of origin or an approved jurisdiction, such as the United States, the European Union or the Gulf Cooperation Council; and (3) a registration certificate from the manufacturer listing the chemical components of the medication.

#### **v Pre-market clearance**

To be supplied in the UAE, medication, pharmaceuticals and medical devices must be vetted and cleared by the MOHP. A foreign manufacturer of medication, pharmaceuticals and medical devices must appoint a local representative and a local agent (which may be the same person) for the sale and distribution of these products within the UAE.

Unless there are exigent circumstances (as described in subsection iv, above), there are virtually no exceptions to expedite or accelerate the approvals process. The approval of a new medication, for example, would take, on average, no less than two years from submission of an application to the relevant authorities.

#### ***Medicines and biologicals***

The UAE is a signatory to international conventions on narcotics and psychotropic substances. When a medication is approved and registered for use in the UAE, the method of dispensation is also agreed. This is based on the level of control in the source country, as well as the level of control of the active ingredient pursuant to UAE law.

Pricing for medications are fixed by UAE law, and the MOHP provides an updated pricing list for these periodically. Attempts by manufacturers and agents to circumvent the fixed pricing may be subject to fines, bans or other legal recourse by the UAE government.

#### ***Devices***

Medical devices must also be approved by the MOHP before they can be sold or distributed in the UAE. The law defines a medical device as any such device that is used to diagnose, monitor or treat an illness. UAE laws and regulations make a distinction between devices that provide therapeutic benefit through purely mechanical or non-pharmaceutical means and those devices that have a pharmaceutical component (i.e., devices that dispense a drug therapy). The latter may be subject to pricing controls similar to those of medication.

Currently the UAE is largely dependent on import of sophisticated medical equipment. However, recently, there has been development in the nascent medical products industry. In the near future, the UAE may play a leading role in 3D printing in the medical products sector, which could involve developing 3D-printed teeth, bones, artificial organs, medical and surgical devices, and hearing aids.

#### **vi Regulatory incentives**

Patents are registerable for pharmaceuticals for a period of up to 20 years, with no extension period allowed.

However, unlike other jurisdictions in the region, the UAE recognises the patentability of second-use medical inventions under the law, and has registered a number of these.

There are no remarkable regulatory incentives within the UAE with respect to the marketing, developing or production of pharmaceuticals at this time.

#### **vii Post-approval controls**

Under UAE law, the foreign manufacturer of a drug must appoint a local authorised representative within the UAE. The representative may also be the distributor of the medication within the UAE. The representative will be tasked with handling all complaints or recalls relating to the medication, as well as fulfilling all requirements with respect to placing the product in the market. The post-market obligations include the obligation to maintain distribution records, complaint-handling procedures and incident-reporting processes, and implement processes to execute investigations and recalls in respect of defective or potentially defective products promptly.

The RCD or MOHP have the discretion to recall any medication based on any information or incident reports directed to them.

#### **viii Manufacturing controls**

The relevant governmental authorities must approve a pharmaceutical manufacturing plant within the UAE. A foreign shareholder cannot own more than 49 per cent of the shares of a pharmaceutical manufacturing company within the UAE.

The proposed facility must be approved as far as its layout, infrastructure, manufacturing capacities, and its storage and handling of chemicals. The government reserves the right for site inspections and for assessing penalties upon non-compliant facilities.

The UAE Federal Law No. 19 of 2018 (the FDI Law) introduces the framework under which the UAE Cabinet will exercise its powers in respect of permitting increased levels of foreign ownership in companies operating in certain sectors of the economy but specifically excludes medical retail (including pharmacies) and blood banks, quarantines, and venom and poison banks. On 1 July, 2019, His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai, announced that 'a resolution allowing 100 per cent foreign ownership in UAE's 122 economic sectors was adopted, giving foreigners 100 per cent ownership of their investment'. There is a list of 122 activities, purportedly the 'positive list', available in the public domain. The purported positive list also highlights various criteria, such as a minimum capital requirement, use of advanced and latest technology and participating in the Tawteen Partners Club at the Ministry of Human Resources & Emiratisation to be complied with to allow a maximum of 100 per cent foreign ownership in mainland UAE. We mention here that 'medical and dental practice activities', 'hospital activities' and 'other human health activities' are some

of the activities in the purported positive list which should benefit from the new FDI Law. Please note, however, that no formal resolution has been published in the Official Gazette yet in this regard and therefore there may be some changes to the final list. While the process to obtain approval for establishing 100 per cent ownership has not yet been formalised, we are aware that the governmental authorities are considering ad hoc applications from large multinational groups for processing approvals for an increased level of foreign ownership.

## **ix Advertising and promotion**

Healthcare and medical advertising are strictly regulated by governmental authorities and there are stringent guidelines to ensure transparency and honesty, and to stamp out misleading marketing practices. All forms of medical and pharmaceutical advertising require governmental pre-approval before publication. Comparative advertising is usually not permitted and, given other considerations (mainly relating to potential criminal liability for libel or harm to business reputation), most companies steer clear of any advertising pitting themselves against their competitors. Even advertisements on discount websites for businesses such as laser hair removal or dermal fillers require Ministry of Health approval and carry a requisite warning to customers relating to efficacy or potential risks of such procedures.

Additionally, advertisements must not violate public morals, decency, UAE customs or Islamic values and traditions. Medical advertising cannot be false, deceptive or misrepresent the quality or type of medical treatment or product presented. Further, it cannot mislead potential patients regarding the efficacy of certain medication treatment, therapy or protocol, or that the aforementioned will have no potential side effects.

Advertising for telemedicine companies should clearly state what services they are and not authorised or licensed to provide. Advertisements geared towards children are prohibited.

Incentives to healthcare workers for the sale of specified medications, procedures or devices are not permitted by any medical or healthcare advertisement.

## **x Distributors and wholesalers**

The UAE has a number of provisions within its Agency Law, Civil Code and Commercial Code that provide a number of protections to local agents and distributors. Some pharmaceuticals or medical equipment may, in certain circumstances, require a registered 'commercial agent' be the importer on record. Such registered commercial agents enjoy wide protections under the UAE's Agency Law, including exclusivity within the UAE market.

A registered agency under the Agency Law makes it difficult for a foreign principal to terminate. Often, a registered agency will only agree to deregister a registered agency (and, hence, allow the principal to distribute products through other agents or resellers) upon an agreed and substantial financial settlement.

## **xi Classification of products**

In addition to the basic definition of 'prescription' medication, the MOHP recognises the following three classifications: narcotics, CDA and CDB.

Narcotics are defined based upon their active ingredients and composition. Additionally, CDA medications are defined by their active ingredients, as well as their potential for abuse or diversion for illegal use. CDB medications are defined as those that are used for psychiatric conditions, avoid narcotic controls and restrictions owing to their chemical formulation, or require stricter control than simply those medications that are designated as 'prescription'.

Medical devices are classified in order of risk:

- a* Class I medical devices are considered to be of low risk to patients. A declaration of conformity is usually accepted from the manufacturer.
- b* Class II medical devices are considered of medium risk because of the invasive nature of the device; however, these devices are only applied to the body's natural orifices.
- c* Class III medical devices are considered to be of medium risk to patients and are partially or wholly implantable within the human body, and may modify the biological or chemical composition of body fluids.
- d* Class IV medical devices are considered to be of high risk to patients. They involve clinical trials and product certification. These devices affect the functioning of vital organs or life-support systems. These devices are usually life-sustaining, life-supporting and invasive.

That being said, the vast majority of medication or medical devices that fall outside the categories of stricter scrutiny are available for sale and distribution over the counter.

## **xii Imports and exports**

To import medicine or medical devices into the UAE, a UAE company must obtain a medical warehouse licence or a UAE national must obtain a medical importer licence with the relevant government authorities. The law was amended to permit companies with mixed UAE and foreign shareholding to obtain a medical import licence.

Re-exportation of imported goods can occur within six months of importation – provided the goods are in unused and otherwise exportable condition and the applicable documentation relating to the goods is current.

The UAE's Boycott of Israel Law prevents the direct importation of any goods from Israel (referred to as the 'primary boycott'). The law also prohibits the importation of goods that may have even relatively minor components manufactured in Israel ('the secondary boycott'). Currently, however, the UAE usually enforces the primary boycott alone.

## **xiii Controlled substances**

Controlled substances are heavily regulated and monitored in the UAE. In most circumstances, narcotics or psychotropic substances can only be administered within the confines of a hospital or clinic, or dispensed exclusively from a government hospital upon submission of a valid prescription.

The MOHP has a list of controlled substances that cannot be brought into the UAE by people visiting or entering the country, regardless of whether the person has a valid prescription for the medication in the country of origin. Following changes in October 2018, the MOHP announced that all tourists and residents entering the UAE will be required to complete an electronic form to obtain prior online approval to carry narcotic, psychotropic and controlled medication in to the UAE for personal use. A Ministerial Decision of 2019 has laid out that a unified electronic platform shall be established for the prescription and dispensing of narcotics and controlled and semi-controlled medications, in coordination between the Ministry of Interior, the MOHP and the concerned health departments and entities.

#### **xiv Enforcement**

The UAE governmental authorities have broad powers of regulation and sanction for the violation of any laws or regulations relating to medication and medical devices. These include: warning, fining, banning of distribution of certain products, blacklisting of manufacturers or medication, suspension or deregistration of local representatives or agents, and closing operations of pharmaceutical plants. The fines may be substantial, and imprisonment may be warranted in cases of intentional criminal activity.

The UAE has recently enacted the New Health Data Protection Law (UAE Federal Law No. 2 of 2019), with the objective of addressing the protection of health data originating in the UAE. This law derives principles from the European Union's General Data Protection Regulation, including purpose limitation, accuracy, integrity and confidentiality. Any health-related information and data that originates in the UAE may not be stored, processed, generated or transferred outside the UAE. This has a direct effect on foreign companies that provide cloud-based services, in addition to local companies that use these services. With regard to enforcement, healthcare providers that violate certain provisions of the New Health Data Protection Law may face fines ranging from 1,000 to 1 million dirhams, effective from May 2019. Although the legislation has the clear intent of enforcement, it is not clear whether the MOHP and relevant authorities will take immediate action. It is appropriate to assume that a grace period will be given to companies to overcome technological hurdles in order to comply with the law.

### **III PRICING AND REIMBURSEMENT**

Pricing of medication is fixed and regulated by applicable laws, with specified margin limits. Hospitals and clinics must sell medication to the public at the prices specified by the MOHP, and cannot give discounts on medication outside the margins fixed by law. Bonus schemes between manufacturers and distributors are strongly discouraged (if not prohibited by law).

Since 2010, and under the direction of Abu Dhabi, the UAE has been moving towards a diagnostic rate group (DRG) system for insurance billing and reimbursement. One of the intended purposes of switching to the DRG system is to lower medical costs in the UAE (where the vast majority of medication is imported). The Emirate of Dubai announced a substantial rollout of DRG for 2018, with the projection that all healthcare facilities will be DRG-compliant by 2020.

The DRG system requires new billing systems within hospitals and clinics, and the requisite staff training for documenting and coding applicable medical services. One potential benefit of the installation and implementation of the DRG system UAE-wide is providing transparency and avoiding excess payments or overbilling.

### **IV ADMINISTRATIVE AND JUDICIAL REMEDIES**

The UAE Medical Liability Law (UAE Federal Law No. 4 of 2016 read together with the implementing regulation of 2019) gives patients the right to report any form of medical malpractice or medical negligence by their service providers or by pharmaceutical companies directly to the MOHP, or its applicable departments. The complaints are to be referred to medical liability commissions, formed by the MOHP, or the chairman of the local health authority.

The relevant commission will review the complaint with all the applicable documentation, and make an adjudication on the existence of malpractice and, if applicable, the causes and results of that malpractice.

The decisions made by the commissions are appealable by the patients, doctors or providers within 30 days to a higher liability commission, formed by the UAE Cabinet. After review of the file, the decisions of such higher commission are final and binding upon all parties.

## **V FINANCIAL RELATIONSHIPS WITH PRESCRIBERS AND PAYERS**

The Emirates of Abu Dhabi and Dubai have instituted mandatory health insurance schemes upon all employers. Additionally, the DOH introduced a standard provider contract mandating that all contracts between insurers and providers meet required standards. One such requirement is that reimbursement of healthcare fees are made in accordance with a mandatory tariff, which specifies the price for basic services. Ideally, such requirement is an attempt to discourage or stop commissions or kickbacks between providers.

DOH previously issued a directive relating to kickbacks in medical laboratory services and testing. This directive was the result of complaints from patients who were often directed to a medical laboratory that a specific doctor had an agreement with, to be billed for examinations, diagnostics or treatments that were unnecessary. The doctor was given a portion of any fees generated from such visits.

Additionally, local insurers have recently taken a novel approach in requiring that providers sign an undertaking letter to the effect that providers would comply with the spirit and letter of contractual requirements of their binding contract, with a sworn statement that no volume incentives or commissions are being paid for obtaining services. Violation of the undertaking letter could result not only in a material breach of the underlying contract justifying termination, but would allow the insurer to petition DOH or another concerned governmental authority for redress.

Efforts to stem the flow of kickbacks are much more likely to have a significant impact on smaller secondary care providers (e.g., medical laboratory service providers or specialist diagnostic centres) that generate much of their revenue from larger hospitals or clinics. One way to ensure referrals is the payment of kickbacks. If kickbacks are no longer available through this route, companies will need to become more competitive.

The DRG billing system (as discussed in Section III) may be a further tool in the future to combat kickbacks and illegal commissions.

## **VI SPECIAL LIABILITY OR COMPENSATION SYSTEMS**

Other than the remedies delineated in Section IV, there are no special liability or compensation systems contemplated in applicable law.

## **VII TRANSACTIONAL AND COMPETITION ISSUES**

### **i Competition law**

UAE Federal Law No. 4 of 2012 on the regulation of competition (the Competition Law) became effective in 2013 and regulates competition within the UAE market. The Competition Law specifically exempts the pharmaceutical industry from competition (as stated elsewhere,

the pricing of medication and pharmaceuticals is fixed by UAE law. However, the Law does not exempt the pharmaceutical industry from other monopolistic practices. Therefore, agreements between competitors to divide territories, allocate or boycott customers, or limit or cease production are all prohibited by the Competition Law.

**ii Transactional issues**

With respect to the sale of pharmaceutical manufacturing plants, companies or patents in the UAE, generally, these would follow the rules and requirements contained in the UAE Commercial Companies Law or Commercial Transactions Law. Approval of the relevant health department (DOH or DHA) or the Ministry of Health may be required depending on the specific activity on the licence of the company.

With respect to patent licensing, a patent licence cannot be transferred to a third party unless ownership of the licensed item has been assigned and approved by the respective court.

**VIII CURRENT DEVELOPMENTS**

Many of the legal and regulatory reforms contemplated herein strongly convey the desire of the UAE to be at the forefront of medical care. The ultimate objective of the UAE (the Emirates of Abu Dhabi and Dubai in particular) to be able to manufacture or provide the medication and healthcare that rivals that of any country around the world. This also includes a renewed focus on research and development, and attracting qualified medical professionals and researchers.

During the past few years, the UAE has ramped up its investment strategy in the pharmaceutical industry. The UAE intends to attract more than 75 major pharmaceutical firms by 2021 – nearly 20 more than exist in the UAE today – with investments upwards of 2 billion dirhams per year. The number of pharmaceutical factories increased from 14 in 2014 to 18 in 2017, and is expected to reach 36 in 2020. A recent industry report shows that investments in healthcare in the UAE reached 62.2 billion dirhams in 2017 and are expected to be 118.1 billion dirhams in 2027. This augmented investment strategy is propelled to focus on one of the significant national agenda items (i.e., to achieve a world-class healthcare system in the UAE).

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