

HEALTHCARE AND PHARMACEUTICALS SECTOR REPORT FOR DUBAI

FOR DEVELOPMENT OF DUBAI AS A GLOBAL TRADE AND INVESTMENT HUB

Business Advocacy – Center for Business Studies and Research Dubai Chambers

AMBITION IN FOCUS



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Snapshot of UAE & Dubai Economy

Position of Healthcare and Pharmaceuticals Sector in the Economy

Break- Down of Healthcare and Pharmaceuticals Industry

Healthcare and Pharmaceuticals : Major Economic Aggregates

ECONOMIC OVERVIEW

SNAPSHOT OF DUBAI



			ECONOMIC O	VERVIEW OF DUBAI
SNAPSHOT	OF ECONOMY IN 202 Inflation Rate: GDP Growth: Population: Foreign Trade: Unemployment R	4.67% 3.58% 3.61 mn USD 722 bn	BUSINESS RANKING23 # 4th largest economy in the Middle East # 3rd globally for government efficiency # 8th globally for business efficiency terms of power	 TAX⁴ The Dubai taxation system is one of the most advantageous in the world : Corporate Tax: 9% for profits of more than USD 102k Rental Tax: Levied on rental of real estate properties located in the Emirate Tourist Tax: 10% (other taxes could also apply for various other services) Value Added Tax: 5%
COMPOSITION OF GDP (2021) ⁵		/holesale, etail Trade — 11.9% Finance & Insurance 8.9%	 FREE ZONES⁸ 9 26 Free Zones Special Economic Area Licenses obtained do not require approval from external authorities 100% foreign ownership 100% repatriation of capital earnings 100% exclusion from personal and corporate tax Varied number of visa packages Benefits like Flexi-Desk 	100% OWNERSHIP1013 The list of over 1,000 business activities that allow 100% foreign ownership can be obtained from the Dubai's Department of Economic Development (DED) website Industries with 100% Ownership Agriculture Agriculture Fishing Fishing Image: Contracting Trading & services

Source: 1. Dubai Statistics Center 2. CEC Data 3. International Trade Administration 4. Telecommunications and Digital Government Regulatory Authority 5. Statista Market Insights 6. Ministry of Economy 7. Meydan Free Zone 8. Zawya 9. The National News 10. L.P Corporate Service Asia Limited 11. Department of Economic Development

ECONOMIC OVERVIEW



ECONOMIC OVERVIEW OF UNITED ARAB EMIRATES



BUSINESS RANKING 24

Competitiveness: #1 country in the Arab world



World Bank's Annual Ranking for **Ease of Doing Business: # 16th** globally

FREE ZONES⁷⁸

- 46 Free Zones
- Licenses obtained do not require approval from external authorities
- 100% foreign ownership
- 100% repatriation of capital earnings
- 100% exclusion from personal tax
- Varied number of visa packages
- Relatively easier documentation.
- Long term leasing options.
- Simplified recruitment and workforce process.
- Benefits like Flexi-Desk

•

Finance & Insurance

TAX⁴

Federal tax system that is applicable to all businesses and commercial activities operating within the 7 emirates, with no income taxes levied on individuals.

Corporate Tax: 9% for profits of more than USD 102k



- **Rental Tax**: Levied on rental of real estate properties located in the Emirate
- Tourist Tax: 10% (other taxes could also apply for various other services)
- Value Added Tax: 5%



100% OWNERSHIP¹⁰¹¹

The list of over 4,000 business activities that allow **100% foreign ownership** can be obtained from the Dubai Economy Development (DED)

Industries with 100% Ownership Agriculture Manufacturing Fishing Mining & Quarrying Contracting Trading & services

Source: 1. International Monetary Fund 2. World Bank 3. Arabian Business 4. Zawya 5. Telecommunications and Digital Government Regulatory Authority 6. Statista Market Insights 7. Ministry of Economy 8. Meydan Free Zone 9. Invest Emirates 10. L.P. Corporate Services Asia Limited 11. Department of Economic Development

HEALTHCARE AND PHARMACEUTICALS SECTOR IN DUBAI

CONTRIBUTION OF SECTOR

- UAE's healthcare sector contributes 0.9% of GDP in 2021, while the health expenditure is 5.7% of the GDP in 2020.
- Private sector investment in health services has played a pivotal role in the substantial expansion of Dubai's healthcare infrastructure in recent years, as the city has emerged as a thriving domestic market and a prominent regional destination for medical tourism.

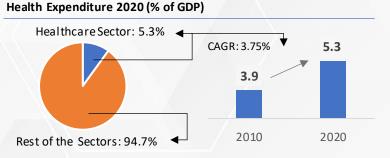
CONTRIBUTION OF HEALTHCARE AND PHARMACEUTICALS SECTOR TO DUBAI ECONOMY^{1 2 3 4}

 Pharmaceutical industry to grow from USD 2.6bn in 2021 to USD 6.8bn by 2025

Value Addition to GDP 2021 (% of GDP)

0.9%

In 2021 to USD 6.86h by 2025
Growth rate of Dubai's share of the UAE's healthcare market - 10% (2019 to 2023)



BREAKDOWN OF HEALTHCARE AND PHARMACEUTICALS ACTIVITIES IN DUBAI⁵ ⁶

100% population covered under health benefits
10-15% growth projection for medical professionals (for 2023 and beyond)
9.5% growth in medical tourists (2015-2020)

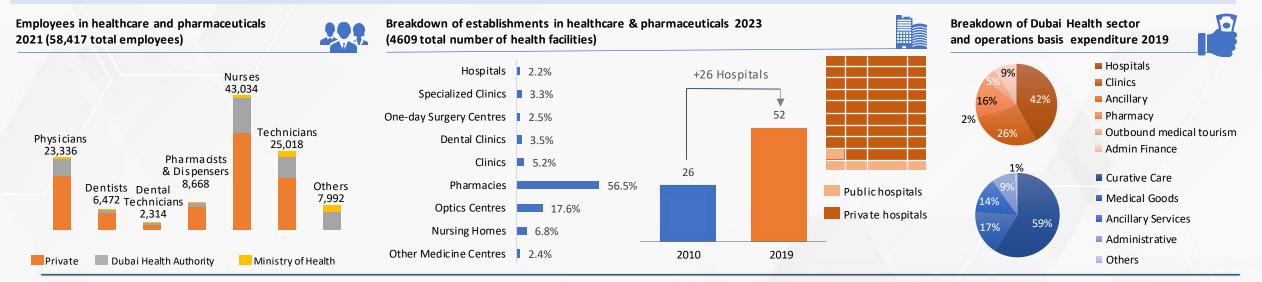
Dubai ranked #1 city globally for the number of FDI projects in the healthcare sector in 2021



674,000 medical tourists in 2022 spending AED992m, an increase of AED262m from 2021.

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CONTRIBUTION OF HEALTHCARE AND PHARMACEUTICALS SECTOR TO DUBAI ECONOMY^{7 8 9}



Source: 1. Dubai Health Authority 2. Arabian Business 3. Ministry of Economy 4. thedubaiadvantage 5. Dubai Statistics Centre 6. Arabian Business 6. Dubai Health Authority 7 Dubai Statistics Centre 8. Dubai Health Authority 8. Arabian Business

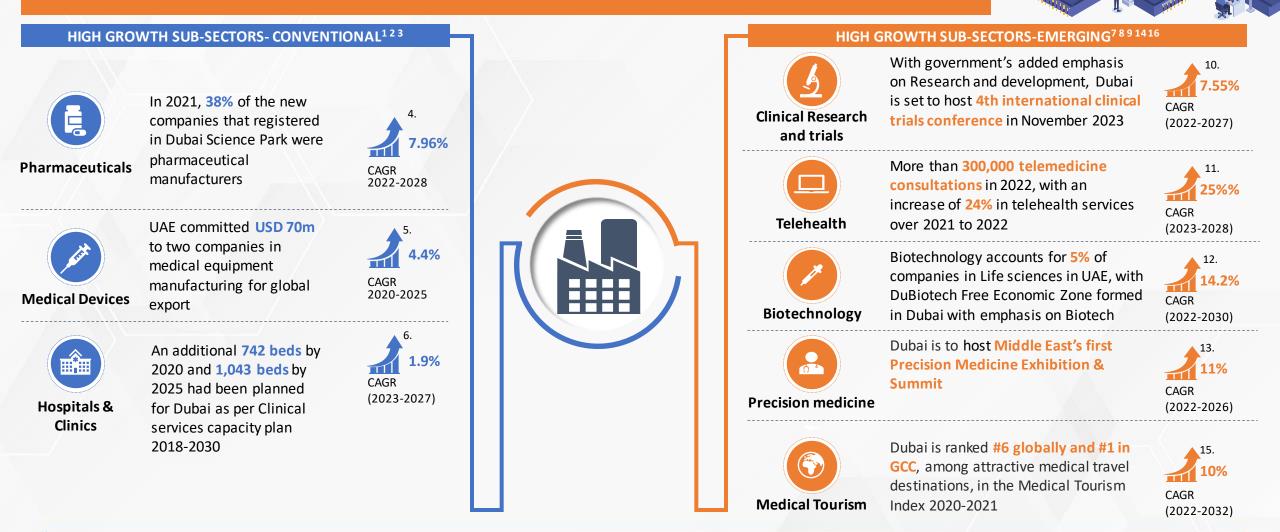


HEALTHCARE SECTOR IN DUBAI

COMPOSITION OF SECTOR

Conventional high-growth sub-sectors of Dubai's Healthcare sector include Pharmaceuticals, Medical devices, and Healthcare delivery.

• Emerging high-growth sub-sectors of Dubai's Healthcare sector include Clinical Research, Biotechnology, Telemedicine, Personalized medicine and medical tourism.



Source: 1. Arabian Business 2. Chartered Institute of Procurement & Supply 3. Dubai Health Authority 4. For UAE, techsciresearch 5. For UAE, Ken Research 6. For GCC(annual average growth of hospital beds), Alpen Capital 7. plusconference 8. Zawya 9. Deep Knowledge Analytics 10. For Middle East & Africa, marketdataforecast 11. For UAE, Telemedicine market, marketadvisors 12. For Middle East and Asia pacific, Coherent market insights 13. For GCC, Omnia Health 14 WAM 15. Future Market Insights 16. DHIG

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HEALTHCARE AND PHARMACEUTICALS SECTOR IN DUBAI

POLICY FOCUS AND DEMAND DRIVERS

- Key Demand Drivers for Local Investment for Value Added Exports and for Import Substitution include free trade zones, logistics, location, demography, regulations and steady investment.
- The government policy focuses upon creating Dubai a global hub. The key areas involve Mental health, rehabilitation, urgent care, long-term care, MedTech, and homecare.

DUBAI AS A RE-EXPORT HUB FOR HEALTHCARE AND PHARMA:¹²

UAE domestic and re-

export markets by

greatest USD size:

Diagnostic Imaging,

Dental, Ortho, Aids,

(Ophthalmic, Hospital

Ultra-Violet/Infra-Red

Excellent Location: Dubai's excellent

Under 8 hours

of the world's

population.

Dubai to 260

destinations.

infrastructure: Zayed

Port, and Khalifa Port

and Industrial Zone

140 airlines

Air and Sea

flying time for 2/3

directly connecting

Consumables.

Other Devices

Furniture, Other

Apparatus

connectivity:

DRIVERS OF CONSUMPTION OF HEALTCARE AND PHARMA IN DUBAI:^{3 4}

Healthcare facilities: Number of licensed facilities by DHA increased by 6.8% (2012-2019)

Population Growth:

U.A.E.'s population >65 yrs to grow from **1% at present to 3% by 2030**, stimulating growth for general care and geriatric care.

Instruments, Medical/ Surgical Sterilizers.

Disease suffrage: Non-Communicable Diseases (NCD) account for * 76% of all deaths * 35% are overweight

- * 16% suffer from diabetes * 15% mental or substance use disorder.
- * Cardiovascular diseases >3 times developed countries.

Medical Tourism:

Over 350,118 health tourists from the region, Asia and Africa and generated over AED 726 Mn in total healthcare revenue

Free Zones: Two dedicated free zones, DHCC Dubai Healthcare City Free Zone (DHCC) and DSP (Dubai Science Park)

Foreign Ownership: 100% foreign ownership of onshore companies and a new 10-year visa or Golden visa is available to investors and professionals in the medical, scientific, research and technical fields.

POLICY AND VISION PLAN⁵





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VALUE CHAIN OF HEALTHCARE SECTOR

IDENTIFYING KEY COMPONENTS

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• The Healthcare sector value chain covers from producers and suppliers, to distributors, providers, fiscal intermediatories and payers of service.

VALUE CHAIN FOR HEALTHCARE SECTOR¹

Potential Opportunity Areas



Producers and suppliers	Distributors	Providers of service	Fiscal Intermediatory	Payers	
 Pharmaceuticals Biologics Devices medical supplies Capital equipment Information system Research and development Education institutions 	 Wholesalers and other distributors of medical products 	 Hospitals and Clinics Pharmacies Nursing home Home Health Other providers like mental health units, rehab, disabled care. Professionals 	Insurance providers	 Individuals Government Employee Philanthropy 	
VALUE CHAIN FOR PHARMACEUTICAL SECTOR ²					

Import of finished pharma products Distribution and Trading of finished pharma products Packaging & Labelling on imported bulk finished pharma prod Manufacturing of Finished Products from imported API API Manufacturing R&D of new formulations

MULTI-LATERAL TRADE HIGHLIGHTS OF HEALTHCARE SECTOR IN UAE

TOTAL MULTI-LATERAL TRADE AND COMPONENTS

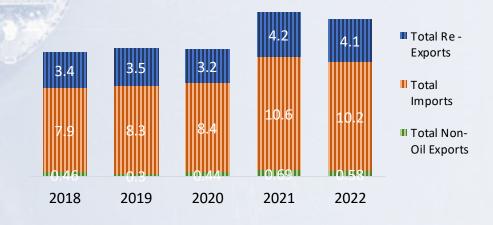
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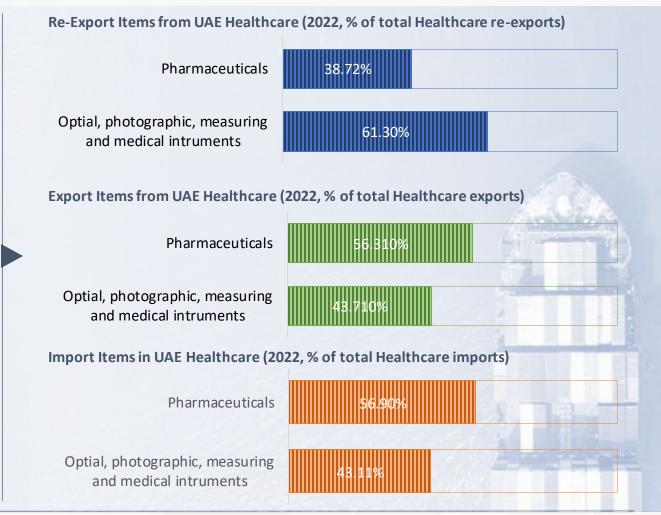


- In 2022, Healthcare trade accounted for 2.39% of total UAE trade.
- In 2022, total multilateral trade value for Healthcare stood at USD 14.9 billion. 68% were imports, 5% were exports and 27% were re-exports.
- Top products from the Healthcare sector were pharmaceuticals and medical equipment.



Total Multi-Lateral Trade Value in UAE Healthcare (USD Billion)





MULTI-LATERAL INVESTMENT HIGHLIGHTS OF HEALTHCARE & PHARMACEUTICALS SECTOR IN DUBAI

USA, UK, Israel, Spain

Finland

RSA

Turkey, UK

Netherlands

Malaysia

UK, USA, Lebanon, RSA, Spain,



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Hospital, Quironsalud

Health

EMS Ambulance

The Wave Clinic

de Oftalmologia Barraquer

Hair of Istanbul, Regent Street Clinic

Wuhan General Group (M2Bio Sciences)

Fountain Life, Alphagenix, Aviv Scientific (Xtend Scienific), Igenomix, Centro

Hexarad, Genesis Lifesciences International, Feetness, Mediclinic Middle

East, Mediclinic Middle East, Holistic Rehab Clinic, Grupo Asisa, Neosmart

Outpatient care centres & medical & diagnostic

Offices of physicians, dentists, & other healthcare

Home Healthcare & all Other Ambulatory Health Care

laboratories

practitioners

Services

Other (Healthcare)

Medicinal & botanical

Psychiatric & speciality hospitals

30.5

27.00

10.20

6.50

2.20

1.3

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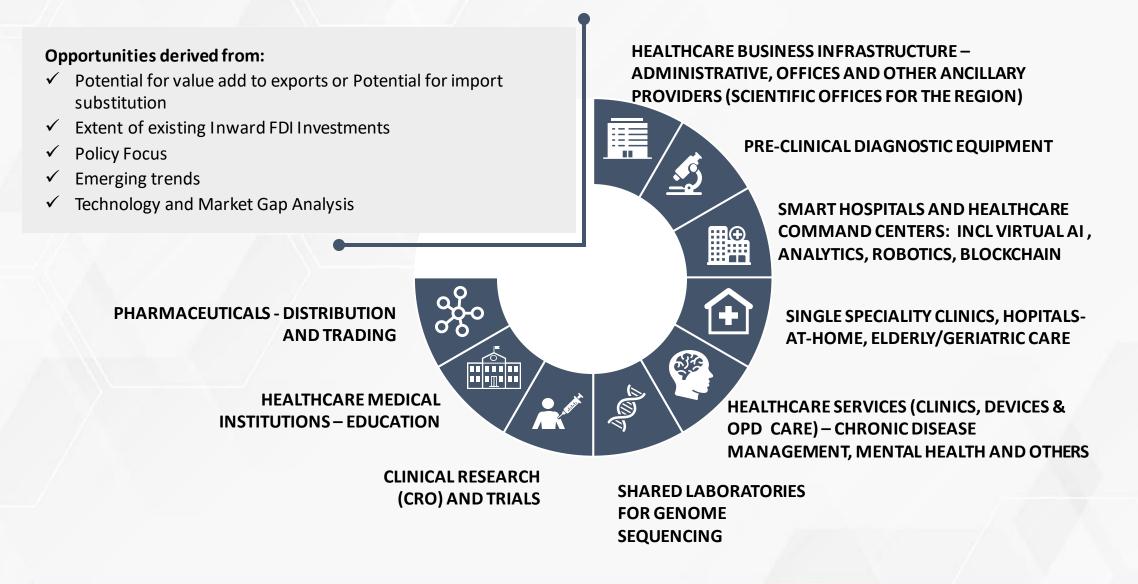
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Top 8 Sectors of Focus for Healthcare and Pharmaceuticals in UAE/Dubai

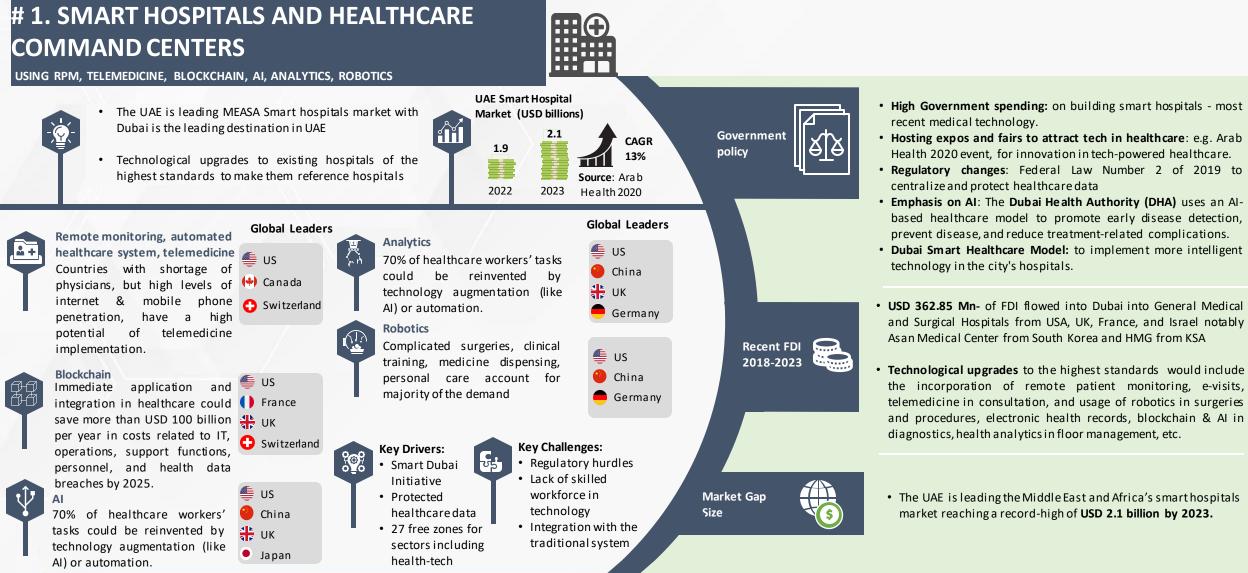
Sector Opportunity Deep Dives

INWARD INVESTMENT OPPORTUNITY IDENTIFICATION- DUBAI





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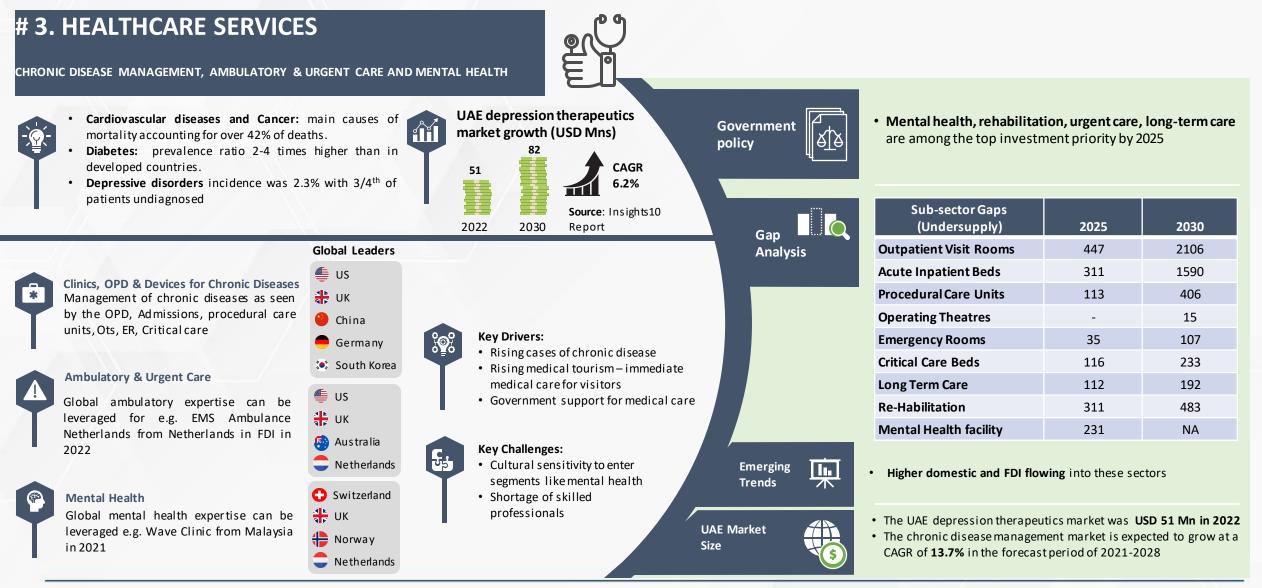


- Medical care saw a shift from hospitals to homecare in the Government UAE Home Healthcare market post-pandemic era, a 65% increase from pre-COVID policy growth (USD billions) **Elderly care** is the main service in demand at in-home care 3.59 1.83 CAGR • Single specialty clinics are growing for specialized care 8.93% without the need for a visit to the hospital Source: Insights10 at-home care 2022 2030 Report Gap Analysis: Overall **Global Leaders Single Specialty Clinics** 🕌 US 2022 Specialty Clinics for Diabetes, Pediatric Care, ermanv Gastroenterology, Rheumatology; Cardiology, **Key Drivers:** မ္လာ Oncology, Orthopedics, Maternity and 💿 India • Medical Tourism for specific Urology and dental, eyecare, IVF, and kidney Gap Analysis: specialties dialysis have major demand Acute same Ageing population 🕌 US day priority Hospitals at Home Technology focused vision (+) Canada In the post-pandemic era, 65% increase from hospital to home care Switzerland **Key Challenges:** • For rehabilitation, palliative care, post-**7**25 Requirement of skilled surgery/accident care, physical therapy, workforce chronic disease care, maternal care, etc Gap Analysis: 🐠 US Regulatory compliance Outpatient • Supportive infrastructure 🔶 Canada **Elderly/Geriatric Care** consultation requirement • In 2021, UAE Nationals (60+ y.o.) accounted Switzerland room for 7% of Dubai's Emirati population but for ermany 21.7% of Insurance expenses.
 - Dubai has dedicated specialty centers under DHA, like Dubai Genetics Center, Dubai Diabetes Center, etc.
 - Homecare has been a vision for DHA in Dubai, with Dubai government investing in this area
 - Gap analyses show areas of care that are critically undersupplied in Dubai and can be well served by specialty and
 - International players from the USA like Kindered Healthcare, Teladoc, Genesis, and Amedisys set standards for homecare
 - UAE has a market size for home healthcare at USD 1.83 Bn in

Sub-sector	Gaps – 20250	Gaps – 2030
Dialysis	39	370
Paediatric medicine	15	159
Gastroenterology	22	155
Orthopaedics & Rheumatology	21	144

Sub-sector	Gaps – 20250	Gaps – 2030
Respiratory Medicine	100	209
Allied Health	120	262
Neurology	75	157
Primary Care	198	726

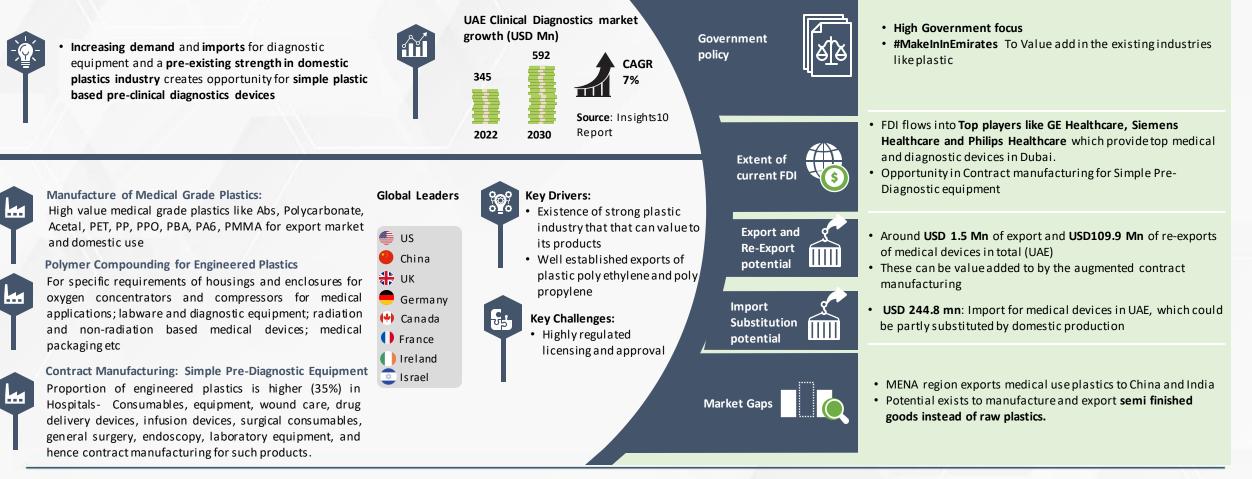








MEDICAL GRADE PLASTICS, COMPOUNDING, PLASTIC TUBES (SYRINGES& OXYGEN) AND CONTRACT MANUFACTURING



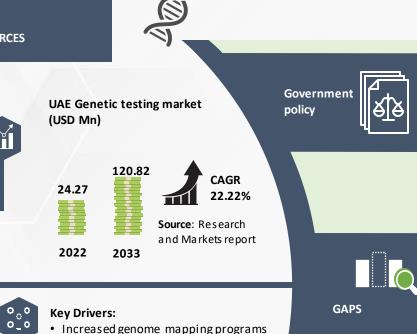
Source: 1. DHA 2. Zawya 3. Arab Health 4 Ministry of Economy 5. FDI Intelligence 6. usauaebusiness 7. investmentmonitor



5. SHARED LABORATORIES FOR GENOME SEQUENCING

NATIONAL PRIORITY WITH TECH ADVANCEMENTS SPURS SHARING OF RESOURCES

- A shift towards next-generation sequencing (NGS) technologies, which held almost half of the Genetic Testing Market in 2021, is expected to witness the highest growth in the next decade
- NGS being integrated into clinical laboratory analysis, testing, and disease diagnoses.
- With high government priority due to genetic disorders, shared laboratories for sharing of resources is a high growth opportunity in Dubai



Government Focus: VERY HIGH

- UAE launched National Genome Strategy 2023 and devotes considerable resources to the field of genetic sequencing
- Dubai Genetics Center (DGC) provides Medical Genetic Services as a focus area for the next 3-5 years for better disease diagnosis and treatment.
- Established a board for the Emirati Genome Program and launched a Center for Genomic Discovery
- in March 2018, the Dubai authority announced testing the DNAs of all 3 Mn citizens.
- Genetic disorders are a significant health concern in the UAE.
- Genetic disorders are the fourth-highest cause of deaths in the UAE and the nation is ranked sixth among 193 countries in terms of prevalence of birth defects, mainly due to genetic causes
- Dante Labs Genomics, First Genomix and Igenomix are a few shared laboratories for genome sequencing in Dubai.
- Dubai 10X Initiative outlines Human Genome Map for residents with ~ 400,000 citizens' blood samples and DNA cheek swabs submitted by 2023 with the aim to collect one Mn samples.
- The UAE genetic testing market size was valued at USD 29.27 Mn in 2022

• The NGS market on a global scale achieved a valuation of USD 6.76 billion in 2022, with huge expected valuation gains in the next decade.



- Most significant players are USA, UK, China, Germany and South Korea
- Shared laboratories with technical collaboration holds high opportunity

Global Leaders 🕌 US

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🥘 China

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South Korea

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- Expanded applications of NGS
- increasing healthcare expenditure
- technological advancements in sequencing technology

Key Challenges:

- Data Privacy and security
- High technical capabilities
- High expenses

UAE Market

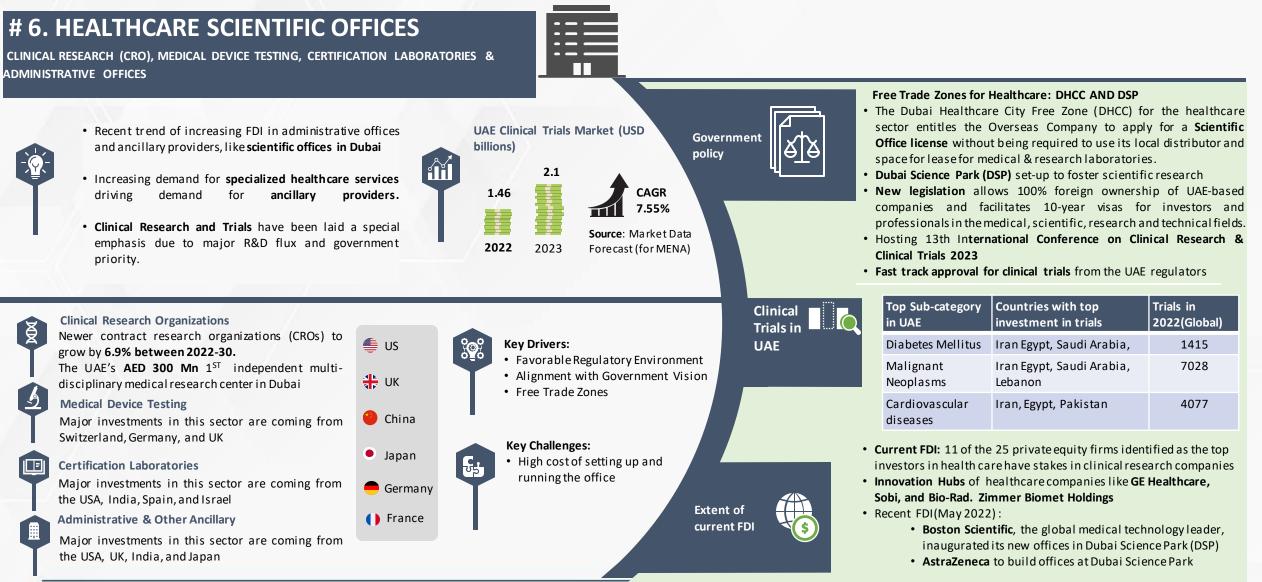
Size

Emerging

Trends

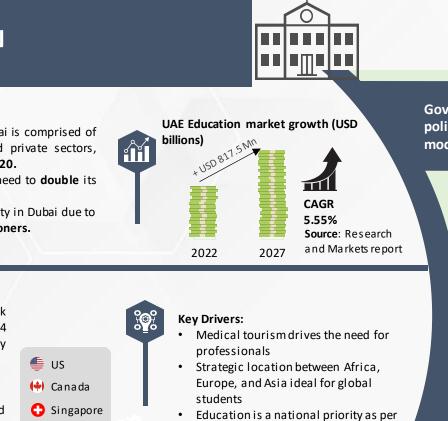
Source: 1. DHA 2. globalnewswire 3. biospace 4. Zawya 5. frontlinegenomics 6. Research and Markets





7. MEDICAL EDUCATION

PHYSICAL AND ONLINE MEDICAL EDUCATION



- The licensed medical workforce in Dubai is comprised of 7,616 FTE across both the public and private sectors, which has been in undersupply since 2020.
- By 2030, the Dubai health system will need to **double** its medical workforce.
- Medical institutions are a growing priority in Dubai due to the expected major shortage of practitioners.

Medical Colleges and Nursing Schools Gaping workforce gap of close to 14k nurses and 4184 GP and 2144 pediatricians by 2030 to be closed by

Healthcare Professionals

medical institutions

Â

Service imports and expat nursing and healthcare professionals can be replaced by domestic training and upskilling of staff

Online Medical Education

Healthvarsity LLC, the GCC region's biggest online learning platform for health professionals, using AI and blockchain technology, was launched in Dubai

🥵 Australia 🚼 UK

the Ministry of Education (UAE)

Key Challenges:

- Cultural and language diversity
- Cost of Education

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EMERGING

TRENDS

• In 2015, Dubai unveiled a 10-year plan, building three new medical colleges and five nursing schools.

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• The Dubai Health Authority (DHA) has launched online medical education platforms, to offer healthcare professionals access to digital medical learning resources and support.

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Leading Institutions	Workforce Dubai Gap by 2030
Nursing workforce	13923
General Medicine & Surgery	4184
Pediatrics	2144

SERVICE IMPORTS

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- GCC countries are heavily dependent on an expatriate health care workforce of 40,000 health care professionals from 110 nationalities
- · Doctors and nurses' additional training as well as further upskilling of healthcare staff can be done in domestic medical institutions
 - · Affiliations can result in satellite campuses of global medical colleges to create a medical education hub for the region



8. PHARMACEUTICAL: API MANUFACTURING & DRUGS DISTRIBUTION & TRADING

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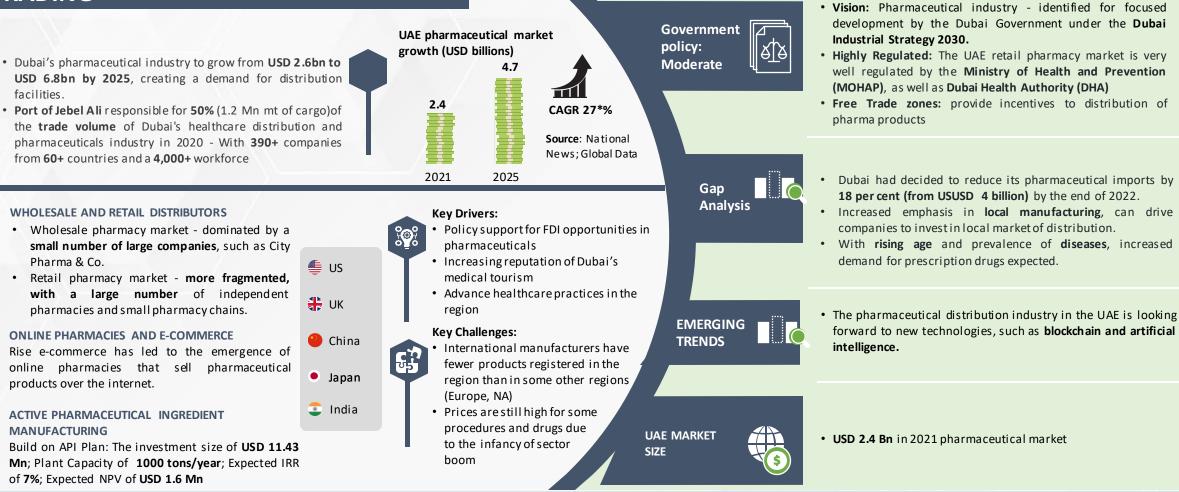


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INVESTMENT OPPORTUNITY IDENTIFICATION IN UAE GREEN TECH

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Key takeaway: Smart Hospitals and Command Centers, Single Specialty Hospitals, Hospitals-at-home, Elderly Care, Healthcare services, Plastic Based Pre-Clinical Devices provide a Promising opportunity.

INWARD INVESMENT OPPORTUNITY ¹					RECOMMENDATION
		FDI Value 2018-2023 (USD)		Target markets	How to Facilitate
SMART HOSPITALS AND COMMAND CENTERS	 For international manufacturers or service providers of rpm, telemedicine, blockchain, ai, analytics, robotics in healthcare. 	N/A	>>>	 USA UK Switzerland China Germany 	 Target high growth countries to attract FDI into Dubai for providing rpm, telemedicine, blockchain, ai, analytics, robotics in healthcare. Approach highlighted companies in particular like Globalmed, Medgate, Blockpharma, Augmedix, Siemens Healthineers, Megarobo etc. (details in appendix)
SINGLE SPECIALITY CLINICS, HOPITALS- AT-HOME, GERIATRIC CARE	• For international healthcare providers of single specialty clinics for Diabetes, Pediatric Care, Gastroenterology etc., along with special emphasis on hospitals at home and geriatric care for chronic diseases.	2.2 Mn		 USA Canada Germany Switzerland 	 Target high growth countries to attract FDI into Dubai for Single specialty clinics, hospitals at home and elderly care. Approach highlighted companies in particular like Spiteex, Medically Home, CBI Health Group, BrightStar Care, AWO etc. (details in appendix)
CHRONIC HEALTHCARE SERVICES	 For international healthcare Providers of chronic disease management, ambulatory & urgent care and mental health 	403.33Mn		 USA UK South Korea Germany China 	 Target high growth countries to attract FDI into Dubai for chronic disease management, ambulatory & urgent care and mental health. Approach highlighted companies in particular NHS, Samsung Medical centre, Asklepios Kliniken, Cleveland etc. (details in appendix)
PLASTIC BASED PRE-CLINICAL DEVICES	 For international manufacturers of medical devices, special emphasis on diagnostic devices using medical grade plastics, compounding, plastic tubes (syringes& oxygen) and contract manufacturing 	N/A`	>>	 USA Germany Canada Israel UK France China 	 Target high growth countries to attract FDI into Dubai for development of plastic based pre-clinical devices especially, medical imaging equipment. Approach highlighted companies in particular like Thermo Fisher Scientific, Abaxis, Medinol, GE Healthcare, Mindray etc (details in appendix)

INVESTMENT OPPORTUNITY IDENTIFICATION IN UAE GREEN TECH



Key takeaway: Shared Laboratory for Genome Sequencing, HealthCare Scientific Offices, Medical Institutions, and Pharmaceuticals manufacturing, distribution and Trading provide a Promising opportunity.

INWARD INVESMENT OPPORTUNITY ¹					RECOMMENDATION
		FDI Value 2018-2023 (USD)		Target markets	How to Facilitate
SHARED LABORATORIES FOR GENOME SEQUENCING	 For international providers of genome sequencing via shared laboratory, national priority with tech advancements. 	N/A	>>	 USA Germany China UK South Korea 	 Target high growth countries to attract FDI into Dubai for manufacture of genome sequencing. Approach highlighted companies in particular like Illuminia, Macrogen, Pacific Biosciences, Oxford Nanopore technologies etc. (details in appendix)
HEALTHCARE SCIENTIFIC OFFICES	 For international providers of clinical research (cro), medical device testing, certification laboratories & administrative offices. 	27 Mn		 Germany USA UK China France Japan 	 Target high growth countries to attract FDI into Dubai for development of clinical research (cro), medical device testing, certification laboratories & administrative offices. Approach highlighted companies in particular like Merc. And Co., GlaxoSmithKline, Astrazeneca etc. (details in appendix)
MEDICAL EDUCATION	 For international medical colleges setting up branches in Dubai. 	N/A		 USA UK Singapore Canada Australia 	 Target high growth countries to attract FDI into Dubai for development of medical colleges. Approach highlighted companies in particular like John Hopkins Medicine, Imperial College Kings College, etc.
PHARMACEUTICAL MANUFACTURING, DISTRIBUTION, AND TRADING	 For international companies that participate in distribution and trading of medical equipment. 	411.32 Mn	>>	 USA China UK Japan India 	 Target high growth countries to attract FDI into Dubai for manufacture of API and distribution and trading of medical equipment. Approach highlighted companies in particular like McKesson, AmerisourceBergen, Cardinal Health etc. (details in appendix)

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MULTI-LATERAL TRADE HIGHLIGHTS

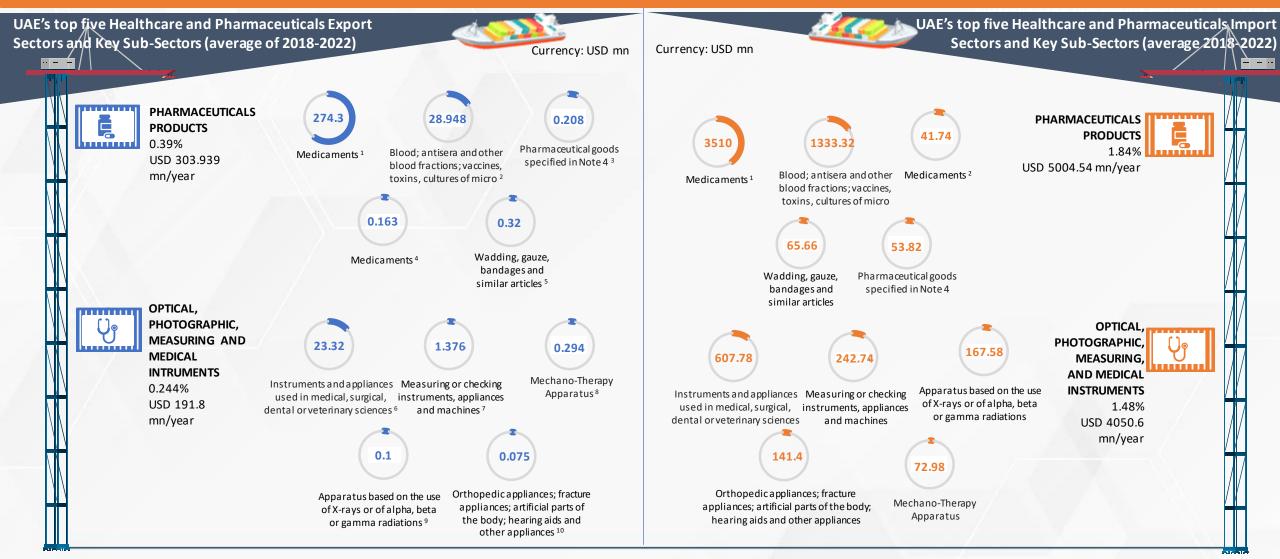
Key takeaway

TOP 5 TRADED COUNTRIES AND KEY HEALTHCARE AND PHARMACEUTICALS PRODUCTS (TRENDS 2018-2022)

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• Dubai's HEALTHCARE EXPORTS: TOP SECTORS Are Pharmaceutical Products And Medical Equipment

Dubai's HEALTHCARE IMPORTS: TOP SECTORS Are Pharmaceutical Products And Medical Equipment



MULTI-LATERAL TRADE HIGHLIGHTS

TOP 5 TRADED COUNTRIES AND KEY HEALTHCARE PRODUCTS (TRENDS 2022)



 Key
 • Dubai's HEALTHCARE EXPORTS: TOP SECTORS Are Pharmaceutical Products And Medical Equipment

takeaway • Dubai's HEALTHCARE IMPORTS: TOP SECTORS Are Pharmaceutical Products And Medical Equipment

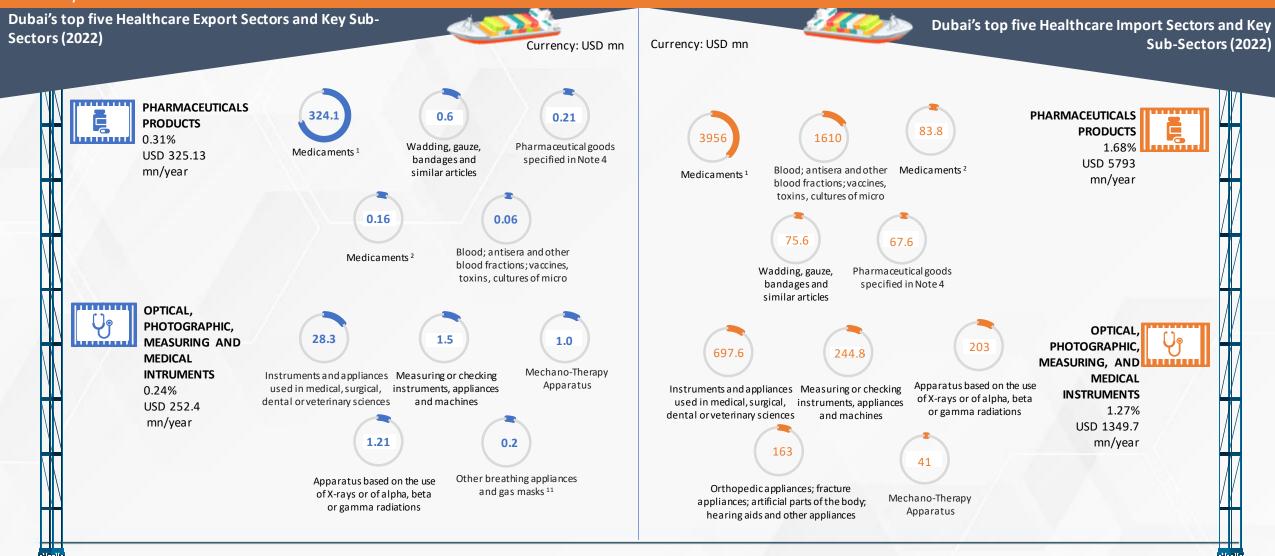


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FDI

SMART HOSPITALS AND HEALTHCARE COMMAND CENTERS			SINGLE SPECIALITY, HOSPITALS AT HOME & ELDERLY CARE		
			Hospitals at home		
	Remote monitoring, automated healthcare system, telemedicine	Switzerland	Spitex, Hirslanden At Home, Senevita		
USA	Global Med, 2nd MD, Allscripts Healthcare Solutions, Medtronic,	USA	Medically Home, DispatchHealth, Contessa, Landmark Health, Heal, Hometeam, Vivify Health		
	Teladoc Health, Doctor on Demand	Canada	Care at Home Services, Medisys Health Group, Bayshore Healthcare Spectrum Health Care, CBI Health Group		
(anada	Ontario Telemedicine Network , Tia health, Virtual Clinic+, aetonix,		Elderly Care		
	Teladoc Health	USA	Home Instead Senior Care, BrightStar Care, Senior Helpers, Right at Home,		
Switzerland	Medgate, Medi24	USA	Visiting Angels		
	Block Chain	Canada	Bayshore Healthcare, Comfort Keepers, Nurse Next Door, Retire-At-Home Services, VHA Home Healthcare		
USA	Akiri, Bustique, Avaneer Health, Coral health, Nebula Genomics	Switzerland	Pro Senectute, Spitex, Curaviva, Tertianum, ORS Service AG		
F n n n n n	Dissimbarra Dissimil	Germany	Johanniter-Unfall-Hilfe, Arbeiterwohlfahrt (AWO), Diakonie Deutschland,		
France	Blockpharma, Blockpill	Germany	Malteser Hilfsdienst, DRK (German Red Cross)		
UK	Medical chain, Farmatrust	_	HEALTHCARE SERVICES		
Switzerland	Gaurdtime, Authena AG		Clinics, OPD & Devices for Chronic Diseases		
	Artificial Intelligence	USA	Cleveland Clinic, Mayo Clinic, Medtronic		
USA	Augmedix, CloudMedX Health	UK	NHS, Bupa, Smith & Nephew		
China	Insilico, Yitu, ICarnX	Germany	Asklepios Kliniken, Fresenius Helios, Siemens Healthineers		
UK	Deepmind, Babylon Health	South Korea	Samsung Medical Center, Seoul National University Hospital		
Japan	Genoplan Japan, LPixel	China	Peking University People's Hospital, Mindray, iCarbonX		
	Analytics	Ambulatory and Urgent Care			
USA	Arcadia, IBM Watson Health, health Catalyst	Netherlands	Saltro, ZorgDomein		
034		USA	Concentra, GoHealth Urgent Care, MedExpress		
Germany	Siemens Healthineers, Caresyntax	UK	Care UK, Vocare		
China	Insilico, Yitu, ICarnX	Australia	Primary Health Care, Sonic HealthPlus		
UK BJSS, Healum Ltd, Databound Ltd.			Mental Health		
	Robotics	Norway	St. Olavs Hospital, Norwegian Centre for Mental Health and Substance Abuse		
USA	intuitive surgical, Hansen Medical, Medrobotics	Switzerland	Psychiatric University Clinics (UPK Basel), Klinik Waldhaus		
China	Megarobo, Edge Medical Robotics	netherlands	Arkin, GGz Centraal		
	Vathos Robotics, Franka Emika, Aeon Robotics	Denmark	Aarhus University Hospital Psychiatry, Psykiatrisk Center København		
Germany		Finland	Terveystalo, Valtio+		

TARGET COMPANIES FOR ATTRACTING HEALTHCARE & PHARMACEUTICALS FDI

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China

Japan

India



		HEALTHCARE SCIENTIFIC OFFICES		
	USA	Pfizer, Johnson & Johnson, Merck & Co., Gilead Sciences		
	UK	AstraZeneca, GlaxoSmithKline, University College London (UCL)		
	China	Sinopharm Group, Sinovac Biotech, Fosun Pharma		
	Japan	Takeda Pharmaceutical, Astellas Pharma, Daiichi Sankyo		
	Germany	Bayer, Boehringer Ingelheim, Charité – Universitätsmedizin Berlin		
	France	Sanofi, Institut Pasteur, Pierre Fabre		
		MEDICAL EDUCATION		
		Medical colleges		
	USA	Johns Hopkins University School of Medicine, Stanford University School of Medicine, University of California, San Francisco (UCSF) School of Medicine, Perelman School of Medicine at the University of Pennsylvania		
	Singapore	Yong Loo Lin School of Medicine (NUS), Duke-NUS Medical School, Lee Kong Chian School of Medicine (NTU)		
	Canada	University of Toronto Faculty of Medicine, McGill University Faculty of Medicine, University of Britis Columbia Faculty of Medicine, University of Montreal Faculty of Medicine, University of Alberta Faculty of Medicine and Dentistry		
Australia Univers		University of Melbourne Medical School, University of Sydney School of Medicine, Monash University Faculty of Medicine, Nursing and Health Sciences, University of Queensland School of Medicine, University of New South Wales (UNSW) Faculty of Medicine and Health		
	UK	University of Oxford Medical School, University of Cambridge School of Clinical Medicine, Imperial College School of Medicine, King's College London School of Medical Education, University College London (UCL) Medical School		

	SHARED LABO	DRATORY FOR GENOME SEQUENCING	
USA	Illumina, Pacific Biosciences, 10x Genomics, Complete Genomics		
UK	Oxford Nanopore Technologies, Genomics England		
Germany	Qiagen, Eurofins G	Genomics	
South Korea	Macrogen, Therag	en Etex	
China	BGI Group, Novog	ene, Annoroad Genomics	
	PLASTIC BASE	D PRE-CLINICAL DIAGNOSTIC DEVICES	
JSA	Thermo Fisher Scientific, Bio-Rad Laboratories, PerkinElmer		
Germany	Siemens Healthineers, Carl Zeiss Meditec, QIAGEN		
Canada	Abaxis, BioTek Instruments, Microbix Biosystems		
srael	Medinol, Sight Diagnostics, Nanox		
JK	GE Healthcare, Ab	ingdon Health, Horiba Medical	
France	bioMérieux, Cephe	eid (Danaher), DiaSorin	
China	Mindray, Shanghai Fosun Pharmaceutical (Fosun Pharma), AnPac Bio		
reland	Bio-Rad Laboratories (formerly Biorad), Cirdan Imaging		
	DHA	RMACEUTICAL DISTRIBUTION	
Country	PHA	Companies	
•			
JSA		AmerisourceBergen, McKesson, Cardinal Health	
JK		Alliance Healthcare, Phoenix Group	

Suzuken, Alfresa Holdings

Sinopharm Group, Jointown Pharmaceutical Group

Apollo Pharmacy, MedPlus, PharmEasy, 1mg, Netmeds

FDI INFLOW IN PHARMACEUTICAL SECTOR IN DUBAI

FDI INFLOW	IN PHA	ARMACE	UTICALS	SECTOR IN	<u>غارف دي</u> DUBAI CHAMBERS کالکھا
Inward Manufacturing FDI Sectors (USDmn)	Investment Date	Investing Company	Country	Capital Investment (USD Mn)	Details
Medicinal & botanical (6.50)	Aug 2022	Wuhan General Group (M2Bio Sciences)	South Africa	6.5	Undergoing business as M2bio Sciences, it is a nutraceutical biotechnology company; that specializes in CBD-based products.
	Feb 2023	AstraZeneca	United Kingdom	6.5	Expected to open in quarter three of 2023, the offices will expand the company's local footprint in the UAE. This represents a commitment to the UAE sustainability goals and is in line with the 'We the UAE' vision.
	Jan 2023	Medytox	South Korea	45.3	It will produce MT10109L botulinum toxin. The facility in Dubai will serve the global market.
	Jan 2023	Chapper Healthcare	United Kingdom	6.5	It is a wholesaler and distributor of pharmaceuticals. Chapper Healthcare MENA FZ-LLC will serve the Middle East and north Africa, and is based at the company's existing local office.
	Dec 2022	Omnicals Pharma	India	6.5	It is investing in the Pharmaceuticals sector in a Sales, Marketing & Support project. This project is into an economic free zone: Dubai Airport Free Zone. The office will serve the market in Middle East and north Africa.
	Sep 2022	Clinexel Life Sciences	India	6.5	It is investing in the Pharmaceuticals sector in a Sales, Marketing & Support project. It is a full-service clinical research organization (CRO)
Pharmaceutical preparations	Jul 2022	Cor.Con. International	Italy	6.5	It is investing in a Sales, Marketing & Support project. It is a small private pharmaceutical company and will focus on promoting the export of products in the GCC region. The project is supported by Italian Industry and Commerce Office in the UAE.
(404.15)	May 2022	Menarini Group	Italy	40.7	It is investing in a Headquarters project. This project is into an economic-free zone: Dubai Science Park. The new entity, Menarini Middle East and Africa, forms part of the company's goal to expand its presence to the MEA region.
	Apr 2022	Gabri Labs	United States	4.9	It is investing USD 4.90m in the Pharmaceuticals sector in a Manufacturing project. This project is into an economic-free zone: Dubai Science Park. It will invest Dh18m in a new manufacturing facility. The 930 sq m plant will produce for the ENT, Otomar, and Curadem brands. It will have an initial volume of 12 Mn units per year, with further expansions planned by 2023. The facility will serve patients across the MENA region.
	Sep 2021	MSN Laboratories	India	24.65	It is investing in the Pharmaceuticals sector in a Sales, Marketing & Support project. This project is into an economic free: zone Dubai Science Park. The new entity, MSN Laboratories FZ-LLC, located at Dubai Science Park, will serve the Middle East.

FDI INFLOW IN PHARMACEUTICAL SECTOR IN DUBAI

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Inward Manufacturing FDI Sectors (USD mn)	Investment Date	Investing Company	Country	Capital Investment (USD Mn)	Details
	Jul 2021	Ipsen Pharmaceutical	France	40.7	It is investing in the Pharmaceuticals sector in a Headquarters project. This project is into an economic-free zone: Dubai Healthcare City. The company is based in the Al Jalila Foundation building, part of Dubai Healthcare City.
	Jun 2021	Organon & Co	United States	6.5	It is investing in the Pharmaceuticals sector in a Sales, Marketing & Support project. It is a pharmaceutical company focused on women's health.
	Oct 2020 Bayer Middle East Ger		Germany	5.15	It is investing USD 5.15m in a Headquarters project, creating 47 jobs. This project is into an economic-free zone : Dubai Science Park. It has invested USD 5.1.5m to expand its regional headquarters in Dubai, United Arab Emirates. It has moved to a larger location at the Dubai Science Park and created 47 jobs.
	Jul 2020	Emmaus Life Sciences	United States	6.5	It is investing in the Pharmaceuticals sector in a Sales, Marketing & Support project. The new office will be used to establish a presence in the Middle East and North Africa region (MENA) and to facilitate the registration and commercialization of the drug Endari. The company has also expressed this to be the first step in a wider expansion plan in the MENA region.
	Jun 2020	Xellia Pharmaceuticals	Denmark	6.5	It is investing in the Pharmaceuticals sector in a Sales, Marketing & Support project. It is a speciality pharmaceutical company and a subsidiary of Denmark-based Novo Nordisk. Located in Silicon Oasis, it will serve the Middle East and Africa.
	Feb 2020	Kyowa Kirin International (ProStrakan Group)	Japan	40.7	It is investing in the Pharmaceuticals sector in a Headquarters project. This project is into an economic free zone Dubai Healthcare City. Located at Dubai Healthcare City, the new office will serve as the company's headquarters for the Gulf Cooperation Council countries in the Middle East.

FDI INFLOW IN PHARMACEUTICAL SECTOR IN DUBAI

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		Capital Investment (USD Mn)	Details	
Feb 2020	Sanofi	France	40.7	It is investing in the Pharmaceuticals sector in a Headquarters project. This project is into an economic free zone Jumeirah Lakes Towers Free Zone. It develops therapeutic solutions.
Apr 2019	Geltec Pharmacare	India	29.95	It is a producer of dietary supplements and medicines in soft gelatin capsules. It is a subsidiary of India-based Geltec and has opened a manufacturing plant at the National Industries Park. The USD 30m plant will produce 1.5 billion units per annum and is expected to reinforce the UAE's healthcare sector and to support Geltec's operations in the United States and European markets.
Feb 2019	Sanofi	France	21.1	It is investing in the Pharmaceuticals sector in a Logistics, Distribution & Transportation project. This project is into an economic free zone Dubai Logistics City. France-based Sanofi-Aventis, a drug manufacturer, has moved to a new logistics hub in Dubai, United Arab Emirates. The move has increased Sanofi's capacity in the country.
Dec 2018	Atnahs	United Kingdom	6.5	It is investing in the Pharmaceuticals sector in a Sales, Marketing & Support project. It focuses on the acquisition of mature-branded medicines from large cap and speciality pharmaceutical companies. It will house a sales staff to support company expansion in the Middle East and north Africa.
Jul 2018	Wockhardt Bio	India	45.3	It is investing in the Pharmaceuticals sector in a Manufacturing project. It is a developer, manufacturer, and marketer of pharmaceutical and bio-pharmaceutical formulations. The new plant will be making drugs to treat anti-microbial resistance (AMR). The facility, which has applied for US FDA compliance, will produce sterile dry powder antibiotic injections. The facility is spread over 10,000 sq m of space and is self-sufficient for handling, warehousing, manufacturing operations, product testing and product stability.
Apr 2018	Merck & Co	United States	6.5	It is investing in the Pharmaceuticals sector in a Sales, Marketing & Support project. This project is into an economic free zone Dubai International Financial Centre. It is a research-driven pharmaceutical company, and has opened a new scientific office in Dubai.
Aug 2021	Power Gummies	India	0.67	It is investing USD 0.67m in the Pharmaceuticals sector in a Logistics, Distribution & Transportation project. It is a nutraceutical start-up which will invest more than Rs50m to establish a new warehouse in Dubai. It will serve the country as part of Power Gummies' strategy to increase its global footprint. It is the company's first global expansion.
	Date Feb 2020 Apr 2019 Feb 2019 Dec 2018 Jul 2018 Apr 2018	DateFeb 2020SanofiApr 2019Geltec PharmacareFeb 2019SanofiDec 2018AtnahsJul 2018Wockhardt BioApr 2018Merck & Co	DateFeb 2020SanofiFranceApr 2019Geltec PharmacareIndiaFeb 2019SanofiFranceDec 2018AtnahsUnited KingdomJul 2018Wockhardt BioIndiaApr 2018Merck & CoUnited States	Date(USD Mn)Feb 2020SanofiFrance40.7Apr 2019Geltec PharmacareIndia29.95Feb 2019SanofiFrance21.1Dec 2018AtnahsUnited Kingdom6.5Jul 2018Wockhardt BioIndia45.3Apr 2018Merck & CoUnited States6.5

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Inward Manufacturing FDI Sectors (USD mn)			Capital Investment (USD Mn)	Details	
General Medical &	Jul 2023	Asan Medical Center	South Korea	85.50	It is investing in the Healthcare sector in a Construction project. This project is in an economic-free zone: Dubai Healthcare City. It is a healthcare institution that has unveiled plans to build a gastroenterology hospital in Dubai. The 21,150 sq m hospital will serve both patients in the UAE and globally. It will be the first hospital for Asan Medical Centre outside South Korea, and the first hospital specializing in the digestive system in the Arabian Gulf region. Construction is due to begin in quarter four, 2023. The hospital will have a capacity of 65 beds.
Surgical Hospitals (362.85)	Mar 2023	Mayo Clinic	United States	1.30	It is investing in the Healthcare sector in a Customer Contact Centre project. This project is into an economic free zone Dubai Science Park and is a provider of diagnostic, treatment, and surgical services. Their office will assist patients in inpatient transfers and outpatient visits.
	Sep 2022	Curie Institute (Insitut Curie)	France	2.20	It is investing in the Healthcare sector in a Sales, Marketing & Support project. A private health institution of collective interest, it has collaborated with Paris Saint-Joseph and Marie-Lannelongue Hospitals, Rothschild Foundation Hospital and C3 Medical to open a new regional office in Dubai, United Arab Emirates. It will address the needs of the populations of the Middle East countries by developing strong ties with local partners.
	Jan 2022	Dr Sulaiman Al- Habib Medical Group (HMG)	Saudi Arabia	85.50	It is investing in the Healthcare sector in a Construction project. It plans to expand its hospital in Dubai with the addition of a Mother and Child Centre. The expansion covers 6505 sq m and is equipped to provide comprehensive health care services in the specialities of obstetrics and gynaecology, paediatrics, and dermatology. In addition, the project also includes operating rooms, advanced diagnostic units such as radiology, imaging and medical laboratories.
	Oct 2020	Hadassah Medical Center	Israel	5.10	It is investing in a Business Services project. Its a medical organization that is in talks to open a branch in Dubai. The organisation is also considering relocating some of its doctors to the new branch. This project follows the signing of the Israel-UAE peace agreement in August 2020. Since then, the two countries have established bilateral agreements on a range of issues including tourism, telecommunications, and healthcare.

Inward Manufacturing FDI Sectors (USD mn)	Investment Date	Investing Company	Country	Capital Investment (USD Mn)	Details
	Sep 2018	King's College Hospital	United Kingdom	85.50	It is investing in a Construction project. An acute care facility, it has opened a new medical centre in Dubai. It offers international standards of care to local customers.
General Medical &	Sep 2018	King's College Hospital	United Kingdom	85.50	It is investing in a Construction project. It is an acute care facility that plans to open a new hospital in Dubai. The 100-bed facility will be located in the Dubai Hills area and forms part of a wider expansion plan for the UAE.
Surgical Hospitals	Jun 2018	Quironsalud	Germany	12.25	It is investing USD 12.25m in a Business Services project. It has invested Dh45m in a new ophthalmology centre in Dubai. It spans 2325 sq m and will provide cataract surgery, retina and vitreous surgery, oculoplastic surgery, refractive surgery, glaucoma, paediatric ophthalmology, strabismus, clinical optometry and ocular traumatology treatments to its patients.
Home Healthcare & all Other Ambulatory Health Care Services (2.20)	Apr 2022	EMS Ambulance	Netherlands	2.20	It is investing in a Sales, Marketing & Support project. This project is into an economic free zone Business Bay. Netherl a provider of ambulance and medical repatriation services, has opened a new office in Dubai Business Bay, United Arab Emirates.
	May 2023	Hexarad	United Kingdom	1.3	Hexarad is a tech-enabled teleradiology that supports the remote reporting of medical scans such as CTs, MRIs and X-rays.
	Mar 2023	Genesis Lifesciences International	United States	1.3	It is investing in the Healthcare sector in a Business Services project. It is a personlised wellness and lifestyle management company.
Offices of physicians, dentists, & other	Dec 2022	Feetness	Lebanon	5.1	It is investing in a Business Services project. It is a podiatry firm offering diagnoses and treatments for all types of foot disorders.
healthcare practitioners (27.00)	Oct 2022	Mediclinic Middle East	South Africa	2.7	It is investing in a Business Services project. This project is into an economic free zone: Dubai Production City Free Zone. It has reopened Mediclinic Me'aisem in Dubai Production City. The clinic will serve local residents and businesses
	Sep 2022	Mediclinic Middle East	South Africa	5.1	It is investing in a Business Services project. It is a private hospital group that has opened a new standalone aesthetics and wellness clinic in The Dubai Mall. Enhance by Mediclinic offers a full range of services and technologies in the fields of aesthetic medicine, plastic surgery, energy- based technology, aesthetic gynaecology, aesthetic dentistry and lifestyle-related treatments.

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	Inward Manufacturing FDI Sectors (USD mn)	Investment Date	Investing Company	Country	Capital Investmen t (USD Mn)	Details
	Offices of physicians,	Mar 2021	Holistic Rehab Clinic	United Kingdom		It is investing in a Business Services project. It is a health and well-being provider that specialises in osteopathy, physiotherapy and massage treatments, and has opened a new rehabilitation clinic in Dubai.
	dentists, & other healthcare practitioners	Oct 2019	Grupo Asisa	Spain		It is investing in a Business Services project. It has formed a joint venture with locally-based Faisal Holding to open a new clinic in Dubai. The joint venture plans to open more locations in the country.
		Jan 2019	Neos mart Health	n Finland		It is investing in a Business Services project. This project is into an e conomic free zone: Dubai Multi Commodities Centre. It is a preventative healthcare technology start-up.
	Other (Healthcare)	Mar 2023	Hair of Istanbul	Turkey		It is investing in a Business Services project. This project is into an economic free zone: Business Bay . It provides cosmetic hair transplantation services. It will offer follicular unit extraction consultation services to the market in Dubai.
	(10.20)	Dec 2020	Regent Street Clinic	United Kingdom	5.1	It is investing in a Business Services project. It will offer patients popular treatments including facial aesthetic services such as botox and dermal fillers, as well as private general practice services, IV vitamin nutrition therapy and health screening.
		Jan 2023	Fountain Life	United States		It is investing in a Business Services project. It is a preventative and healthly longevity company.
		Apr 2022	Alphagenix	United Kingdom	L 1	It is investing in a Business Services project. This project is into an e conomic free zone: Dubai Silicon Oasis. It is a specialist in medically supervised testosterone replacement therapy.
	Outpatient care centres & medical & diagnostic laboratories (30.5)	Sep 2020	AvivScientific (XtendScienific)	Israel	5.1	It is investing in a Business Services project. It operates medical centres where it uses technology and hyperbaric oxygen therapy to help ageing a dults improve physical and cognitivebehaviour. The clinic, which will be a flagship treatment and research centre, will be located in the Jumeirah Lake Towers and is set to open during the first quarter of 2021.
		Oct 2019	lgenomix	Spain	10.1	It is investing in a Research & Development project. It is a provider of reproductive genetic diagnosis services.
		Sep 2019	Centro de Oftalmologia Barraquer	Spain		It is investing in a Business Services project. This project is into an economic free zone: Dubai Healthcare City. It is an ophthalmology clinic.
	Psychiatric & speciality hospitals (1.3)	Oct 2021	The Wave Clinic	Malaysia		It is investing in a Business Services project. It offers a series of residential programs for teenagers and young adults suffering from a variety of health problems.

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