



2019/2020 Hospital projects in the MENA region

Towards sustainable growth

Together for a healthier world

Arab Health 
By Informa Markets

Market synopsis

The healthcare sector in the Middle East and North Africa (MENA) region is witnessing a phase of significant growth. A recent report by Fitch Solutions suggests that the MENA region's healthcare market is projected to grow from US\$ 185.5 billion in 2019 to US\$ 243.6 billion with an 11.7% compound annual growth rate (CAGR) at constant exchange rates through to 2023. MENA's healthcare market will post a five-year CAGR of 6.6% in US dollar terms.

The report suggests that urbanisation, ageing demographics and a rising burden of chronic diseases will rapidly boost the demand for healthcare in the MENA region. With governments attempting to diversify their economies and reduce their vulnerability to oil price volatility, the private sector is likely to take on some of the healthcare burden, including projects through public-private partnerships.

In line with these predictions, Al Masah Capital data suggests that the MENA healthcare market will be worth US\$ 144 billion by 2020, while the private sector's share in healthcare spending is expected to reach 33% by 2020.

Drivers in the MENA healthcare market:

- Growing burden of non-communicable diseases
- Population growth and rapid urbanisation
- Changing focus from curative care to preventative care
- Adoption of mandatory health insurance
- Increasing importance of Public-Private Partnerships
- Smart application of modern technology
- Adoption of integrated care models
- Opportunities in areas of specialised care, rehabilitation and long-term care
- Medical tourism as an integral part of economic diversification plans

Top hospital projects in the MENA region

United Arab Emirates

The United Arab Emirates (UAE) government is extensively expanding and upgrading its healthcare system to develop a robust world-class healthcare infrastructure. According to Business Monitor International, healthcare expenditure in the UAE reached US\$ 17 billion in 2017 and is expected to rise to US\$ 21.3 billion by 2021. Overall, healthcare spending is projected to account for 4.6% of a country's GDP by 2026 from 4.2% in 2016.

Meanwhile, given the increasing need for care, Alpen Capital projects that the requirement for beds in the country will reach 14,969 in 2022, representing a demand for 2,069 new beds. This demand is being mitigated by the 700 healthcare projects worth US\$ 60.9 billion under various stages of development.

Burjeel Medical City, Abu Dhabi

City: Abu Dhabi

Project Cost: US\$ 381 million

Size: 1 million sqm

Beds: 400

Owner: VPS Healthcare Group

Main Contractor: NSCC International Limited

Consultant: Society Technology House

Project Development Consultant: AMS

Project Completion: Q4 2019

Facts about MENA healthcare sector:

- Healthcare market to be worth US\$ 144 billion by 2020 and US\$ 243.6 billion by 2023
- Healthcare market to grow at CAGR of 11.7% through to 2023
- Private sector's share in healthcare spending is expected to reach 33% by 2020
- Shortage of physicians could rise to 150,000 by 2020
- Medical device market to grow at a CAGR of 9.3% between 2018-2023
- Medical technology market set to grow to US\$ 11 billion by 2021

(Source: Fitch Solutions/ Al Masah Capital Research)

Burjeel Medical City, part of Mohammed Bin Zayed City, is a 92,903 sqm tertiary care complex on the Abu Dhabi-Dubai highway. Burjeel Medical City is being developed by Abu Dhabi's Burjeel Hospital, part of the VPS Healthcare Group.

When operational, the 400 bed main hospital, made up for four towers, will be equipped with specialised departments like oncology, acute care, long-term care and wellness as well as air ambulance service. It will also include an advanced imaging department, an emergency department, endoscopy, a rehabilitation centre with prosthetics & orthotics services, outpatient clinics and a large retail area. It will also have long-term care villas, an administrative building and a mosque.

Thumbay Hospital Dubai Expansion, Dubai

City: Dubai

Project Cost: N/A

Size: 13,000 sqm

Beds: 300

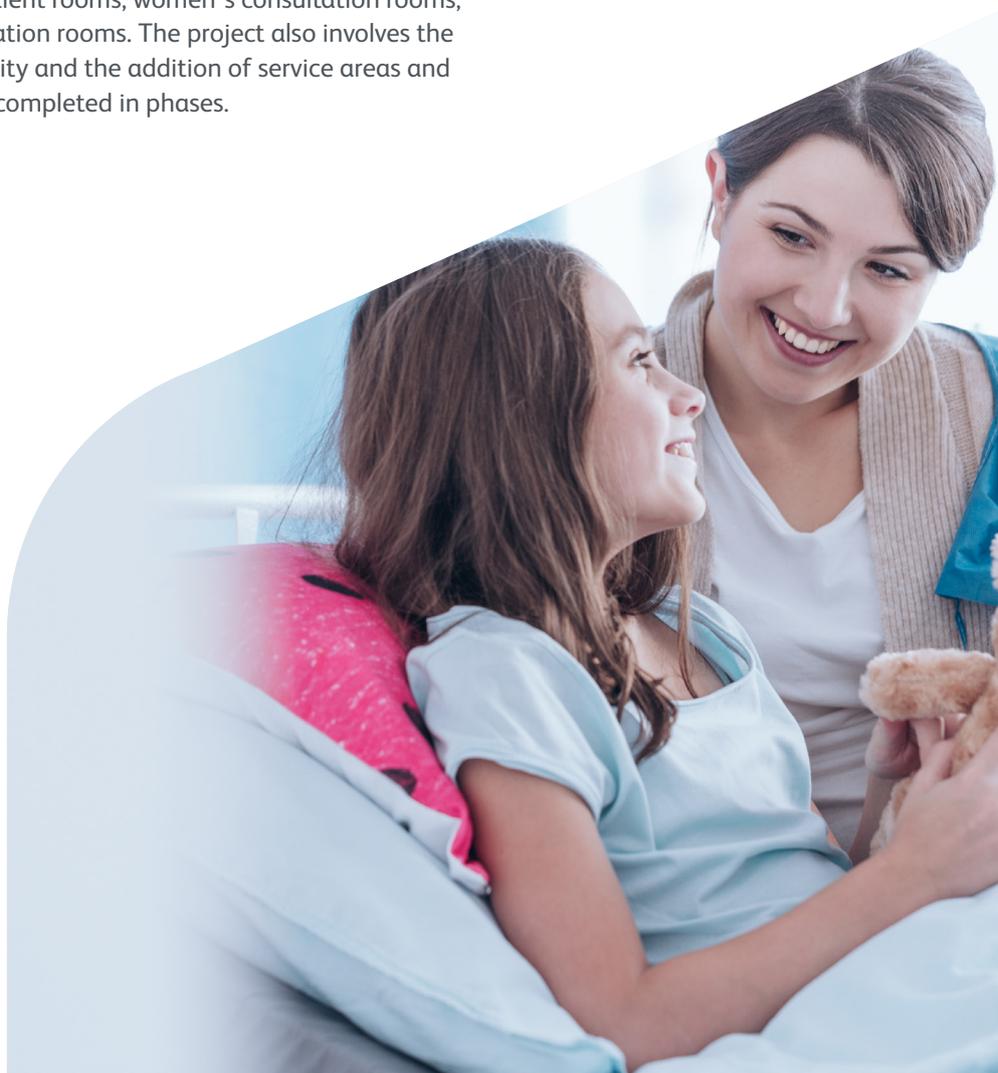
Owner: Thumbay Group

Main Contractor: Thumbay Builders

Project Completion: TBC

Thumbay Hospital Dubai has signed an expansion project with Thumbay Builders, for a substantial expansion of its facilities. The expansion includes the addition of over 13,000 sqm of built-up area by expanding the existing ground and first-floor areas, as well as the addition of a new four-storey building with advanced facilities. New inpatient rooms, OPD clinics, treatment rooms and dental clinics would be added to the existing building. A new Cath Lab, VIP patient room, ICUs and CCUs would also be added.

The new building would house a crèche, mortuary, pharmacy, restaurant, VIP lounge, day care beds, Standard/Deluxe/VIP patient rooms, women's consultation rooms, LDRs, NICU, Well Baby Nursery and isolation rooms. The project also involves the expansion of the hospital's parking facility and the addition of service areas and children's play area. The project will be completed in phases.



Sheikh Khalifa Central Hospital, Fujairah

City: Fujairah

Project cost: US\$ 235 million

Size: 57,800 sqm

Beds: 300

Owner: Ministry of Presidential Affairs

Consultants: CC Group

Project completion: Q2 2019

The project's scope of work consists of a hospital building located at Al Faseel, Fujairah. The hospital has been made to hold growth from the initial 205 beds to an optimal amount of 300 beds, 24 hours service to patients, 11 specialised departments, outpatient clinics and a 32 bed emergency ward, three-storey rehabilitation centre housed in a separate building and 673 parking spots.

The hospital has a Trauma and Accident Department (ER), Inpatient Wards, Intensive Care Units (ICU), Department of Maternity and Premature Delivery, Department of Burn Unit, Department of Surgical and Internal Medicine, Radiology Department, Laboratory and Blood Bank Department, Department of Anesthesiology and Recovery Department, Operations Theatre Department, Cardiac Catheter Department, Endoscopy / Cystoscopy Department, Supporting Service Departments, and Outpatient Clinics.

Long Term Care Facility Health Project, Al Mamzar

City: Dubai

Project cost: N/A

Size: 157,935 sqm

Beds: 120

Owners: Dubai Health Authority

Contractors: Eng. Adnan Saffarini Office (construction supervision)

Consultants: OBE Architects

Project completion: TBC

The Dubai Health Authority long-term care facility project covers the construction of a G+1 nursing home facility spread over a land area of 57,242.21 sqm covering a built-up area of 15,7935.2 sqm including 10,000-seat theatre and other related facilities.

The centre, which will be located at the Seniors' Happiness Centre complex, will cater to the needs of long-term care patients and will provide them with a positive environment to promote healing. There is a link to the three main towers by a concourse, which is covered by a stunning glass roof linking the project's two main elements together.

Saudi German Hospital Al Marjan, Ras Al Khaimah

City: Ras Al Khaimah

Project cost: N/A

Size: N/A

Beds: 100

Owner: Middle East Healthcare Company

Main Contractor: TBC

Project Completion: H2 2019

Saudi German Hospital has signed an agreement to develop a 100 bed specialty hospital on Al Marjan Island, in the Emirate of Ras Al Khaimah.

The planned hospital will offer a range of healthcare services, including medical, rehabilitation, and cosmetic. The hospital will offer seven specialties, Saudi General Hospital Group said in a statement, adding that by 2020, this number will go up to 13.

According to Construction Week, the proposed expansion will also see an increase in the number of beds and the headcount of the hospital's medical and nursing teams.

Danat Al Emarat Hospital for Women and Children – Phase 2, Abu Dhabi

City: Abu Dhabi

Project cost: US\$ 81.6 million

Size: N/A

Beds: 100

Owner: UEMedical

Architects: HKS, Amar Golden Design

Main Contractor: TBC

Project Completion: Mid-2020

The second phase of the Danat Al Emarat Hospital for Women and Children includes the construction of a new tower with a capacity of 100 beds. The new tower will be adjacent to the current hospital building located in Abu Dhabi Gate City and will be operational by mid-2020.

With the completion of the second tower, the total number of hospital beds will increase to 225 beds covering various specialties. The number of beds at the NICU will double to 40 beds. Paediatric subspecialties, including paediatric orthopaedics, paediatric gastroenterology, paediatric pulmonology and paediatric neurology, in collaboration with the renowned The Hospital for Sick Children (SickKids), Toronto, Canada, will be further expanded.

The new expansion of the hospital also includes the addition of 50 new beds for women, three new digital operating rooms, and 10 additional delivery rooms.



Kuwait

According to a report by Alpen Capital, the healthcare market in Kuwait is projected to reach US\$ 5.8 billion in 2022, registering a CAGR of 3.4 % from 2017. Given the growing size of the healthcare market, the country is likely to witness a requirement of 9,807 beds in 2022, implying an additional demand for over 1,200 beds from 2017.

The Ministry of Health and the Ministry of Public Works announced a US\$ 4.42 billion project to replace or expand nine operating hospitals within the next ten years. The goal is to add 5,400 beds, 150 operating rooms, and 500 outpatient clinics to the current 7,095 hospital beds countrywide. Meanwhile, the private healthcare market is estimated to grow by 15 to 20 % in the coming years.

New Al Jahra Hospital, Al Jahra

City: Al Jahra

Project Cost: US\$ 1 billion

Size: 426,000 sqm (main building)

Beds: 1,171

Owner: Amiri Diwan and the State of Kuwait

Main Contractor: Mohammed Abdul Mohsin Al Kharafi & Sons (EPC)

Consultants: PACE, e.construct

Project Completion: TBC

The New Al Jahra Hospital in the Al Jahra area of Kuwait is a full-service general secondary care public hospital, offering a selection of specialised services along with the infrastructure to accommodate select tertiary care capabilities. The 1,171 bed capacity hospital includes three VIP suites, 156 women's beds, 98 NICU beds, 168 paediatrics beds and 749 adult beds.

The main building is made up of a basement level, ground floor and 14 additional floors with a total built-up area of 426,000 sqm. The built up area also includes a dental services building housing over 104 clinics, an administration building, public car parking with 2,900 spaces and a power plant.

Major departments include: accident and emergency and separate adult and paediatric treatment areas; 135 outpatient clinics; outpatient procedures including endoscopy, pulmonary and cardiology; radiology and nuclear medicine; same day medical observation unit; a modern surgical suite with 20 OR's including two hybrid rooms; a women's centre including women's surgery, infertility clinic and outpatient services, NICU and special care nurseries, women's surgery. Inpatient beds include adult, paediatric and women's centre beds as well as 12 unique ICU bed units, 115 dentistry clinics spanning 29,000 sqm.

Farwaniya Hospital Expansion, Kuwait City

City: Kuwait City

Project Cost: US\$ 928 million

Size: N/A

Beds: Additional 955

Owner: Ministry of Health, Kuwait Health Assurance Company (KHAC)

Main Contractor: Sayyed Hameed Behbehani & Sons

Consultant: KEO International Consultants

Project Completion: TBC

The Al Farwaniya Hospital expansion is part of the National Healthcare Expansion Plan by the Ministry of Health (MoH) of the State of Kuwait.

The additional 955 beds in the new hospital will represent a 17 % increase in the total number of hospital beds in all of Kuwait. The dental facility will include 157 clinics, and the car park will accommodate 1,400 cars in a multi-storey car park.

The Al Farwaniya Hospital expansion project will include a new state-of-the-art hospital, an outpatient clinic for dermatology and physical therapy, a dental treatment and teaching facility, and a services building.

The project includes:

- New Hospital (HSP)
- Dermatology Outpatient Clinics (OP)
- Dental Clinic (DC)
- Services Building (SB)
- Multistorey Car park building (CP)

Al Adnan Hospital Expansion, Kuwait

City: Mubarak Al-Kabeer

Project Cost: US\$ 588 million

Size: 471,103 sqm (built up area)

Beds: Additional 632

Owner: Ministry of Health, Kuwait Health Assurance Company (KHAC)

Main Contractor: Sayyed Hamid Behbehani & Sons Co

Consultant: SSH, Dar International Engineering Consultants, PACE, Hill International - System Development and Project management (SDPM)

Project Completion: TBC

Initiated by the Kuwait Ministry of Health (MoH) as part of the Kuwait National Healthcare Development Plan, the expansion of the Al Adnan Hospital will provide 632 beds over 14 floors.

It will offer new maternity and paediatrics healthcare facilities including associated supporting facilities, a general surgical unit, same-day surgery, nutrition and dietetics, adult and paediatrics physiotherapy and rehabilitation unit, hospital administration and a multi-storey car park.

The main hospital has a clinical podium housing a large entrance atrium, clinics and acute services with three upper ward towers providing identity and scale to the development.

The project includes:

- Women & Children Hospital
- Surgical & C.S. Building
- Physical Therapy & Rehab. Building
- Health Region Admin. Building
- Strategic Stores
- Emergency Car Park
- P.T. Rehab. Car Park Building

Kuwait Cancer Control Center Expansion, Kuwait City

City: Kuwait City

Project Cost: US\$ 596 million

Size: 200,000 sqm

Beds: Additional 618

Owner: Ministry of Health, Kuwait Health Assurance Company

Main Contractor: Alghanim International General Trading & Contracting Company W.L.L

Consultant: PACE, NBBJ, Gulf Consult

Project Completion: TBC

The Kuwait Control Centre for Cancer, located in Al Sabah Medical District, Kuwait City, is an expansion project by the Ministry of Health and the Kuwait Health Assurance Company (KHAC).

According to ProTenders, the new 618 bed, the 12-storey building includes all relevant departments essential to a state-of-the-art cancer treatment facility including radiology, surgery, laboratories, pharmacy, physiotherapy, and psychology clinics.

The building also incorporates inpatient and outpatient facilities. The outpatient functions are zoned in the west building, closest to the building entry and the 2,000 car-parking garages for easy access. Horizontal connections allow direct access to imaging and interventional functions in the east building. Inpatient beds are located in the east side of the building.

Sabah General Hospital Expansion, Al Sabah

City: Al Sabah

Project Cost: US\$ 617 million

Size: 265,000 sqm

Beds: Additional 617

Owner: Ministry of Health, Kuwait Health Assurance Company (KHAC)

Main Contractor: Shapoorji Pallonji & Co. Ltd.

Consultant: SSH, TRO Jung Brannen, e.construct

Project Completion: July 2019

Al Sabah Hospital is to act as a general secondary care facility providing general and specialised clinical services. It will also support the Al Amiri Hospital in providing general secondary care services to the residents of Capital Governorate.

According to the Kuwait Times, the project comprises of a main building with a basement, a ground floor and 12 floors with a 512 bed capacity, in addition to 105 ICU beds.



The hospital will also include casualty, radiology, general surgery, specialised surgery, nuclear medicine, physiotherapy and respiratory departments, in addition to 72 OPDs, pharmacies, reception, labs, storage areas and a heliport. The hospital administration building comprises of eight floors and that the nuclear medicine department would be equipped with state-of-the art waste processing technology.

Saudi Arabia

From an estimated US\$ 44.3 billion in 2017, health expenditure in Saudi Arabia is projected to grow at a CAGR of 6.1 % to US\$ 59.5 billion in 2022, according to Alpen Capital. The growth is likely to be driven by a CAGR of 2.0 % in the population, rise in the cost of treatment and increase in health insurance coverage.

According to the latest figures from Aon Hewitt, the Ministry of Health is expected to spend close to US\$ 71 billion in the five-years ending in 2020.

Meanwhile, research from Knight Frank indicates that to keep pace with population growth, Saudi Arabia would require an additional 5,000 beds by 2020 and 20,000 beds by 2035, based on the current density of beds. Based on the global average of bed density, Saudi Arabia faced a gap of 14,000 beds in 2016, and this gap is expected to widen to 40,000 beds by 2035.

King Abdullah Bin Abdulaziz Medical Complexes – Riyadh & Jeddah

City: Riyadh & Jeddah

Project Cost: US\$ 6.8 billion

Size: 1.1 million sqm each

Beds: 1,500+ each

Owner: Ministry of Interior

Main Contractors: ABV Rock Group (Riyadh), Saudi Binladin Group (Jeddah)

Project Completion: TBC

The King Abdullah Bin Abdulaziz 1.300 km² megaproject for the development of Security Forces Medical Complexes is Saudi Arabia's largest healthcare project, and also the largest medical project in the GCC. Two separate medical cities for security forces are being developed in Riyadh and Jeddah on behalf of the Kingdom's Interior Ministry.

According to Construction Week, as of 13 February 2019, construction work is underway on Jeddah Security Forces Medical City, for which ABV Rock Group is working as the main contractor. The company is also working in a similar role on Riyadh Security Forces Medical City.

The Riyadh Security Forces Medical City includes three hospital buildings, an academic and clinical centre, research areas, a specialist hospital for mental health, and a gynaecology and obstetrics hospital. The website places progress on the 1,700 bed facility at 87 %.

Meanwhile, Jeddah Security Forces Medical City will feature 1,864 beds and includes similar health facilities as its Riyadh counterpart. Tahpi and Hyundai Elevator were named among the list of participants for the project, which according to ProTenders, was 74 % complete as of 13 February 2019.

King Khalid Medical City, Dammam

City: Dammam

Project Cost: US\$ 1.27 billion

Size: 700,000 sqm

Beds: 1,500

Owner: Ministry of Health, King Khaled Mega Project Management Office

Main Contractor: Vanir Construction Management

Consultant: AECOM

Project Completion: Est. 2020

The 1,500 bed hospital project, managed by the King Khaled Mega Project Management Office on behalf of the Ministry of Health will include a research centre, staff accommodation, conference centre, mosque, administrative building, car parking structures and community centre.

The hospital includes centres of excellence in cardiovascular, neurosciences, rehabilitation, multi-neurosciences, rehabilitation, multi-organ transplant, genetic organ transplant, genetic & metabolics, ophthalmology, and oncology.

King Faisal Medical City, Asir

City: Asir

Project Cost: US\$ 1.06 billion

Size: 2.2 million sqm

Beds: 1,350 beds in 2 phases

Owner: Ministry of Health

Main Contractor: Al-Fouzan Trading & General Construction (Phase 1)

Consultant: Zuhair Fayez Partnership (Phase 1) HDR

Project Completion: 2021

The 1,350 bed King Faisal Medical City in Abha will be fully operational by 2021, according to an official statement published in Saudi Gazette newspaper.

The project will be implemented in phases. Construction works on the first phase involves the construction of the main hospital building, which is currently underway. The main hospital at King Faisal Medical City will comprise 500 beds with another 850 beds distributed across five specialty hospitals: cardiology, oncology, ophthalmology, neurology and rehabilitation.

According to ProTenders, the scope of work for Phase 2 includes 100 bed Ophthalmology Centre, 200 bed Cardiology Centre, 150 bed Neurology Centre, 200 bed Oncology Centre, 200 bed Rehabilitation Center, 200 bed outpatient clinic, administrative building, accommodation building and facilities centre. Scope of work also includes underground parking, convention centre, hotel, utilities, road and related infrastructure works.

Medical City for Rehabilitation and Treatment, Riyadh

City: Riyadh

Project Cost: US\$ 346.6 million

Size: 1.2 million sqm

Beds: 1,100

Owner: Ministry of Health, Private Hospitals Association (PHA) in Jordan

Main Contractor: TBC

Project Completion: TBC

According to Arab News, Saudi Arabia and Jordan will co-build the medical city for rehabilitation and treatment in Riyadh. The complex will comprise a 600 bed hospital specialised in the treatment and therapy of physical disabilities, a 250 bed public health hospital, and a 250 bed hospital for healthcare and convalescing patients.

It will also include a hotel with 120 beds and 12 suites, 223 tourist villas, 152 hotel villas, 448 furnished apartments distributed among 56 buildings, a commercial mall, recreation and gym centres, gardens and mosques. A medical faculty specialised in rehabilitation therapy will also be established in the compound, in addition to water-treatment and electricity-generation stations.

The project is expected to generate more than 3,000 jobs and serve more than 170,000 patients a year.

King Fahad Medical City Expansion, Riyadh

City: Riyadh

Project Cost: US\$14 billion

Size: 1.2 million square foot

Beds: 600

Owner: Ministry of Health

Project Stakeholders: TPE Consulting Engineers and Rider Levett Bucknall

Project Completion: TBC

According to ProTenders, King Fahad Medical City is located in the heart of Riyadh and is considered the largest and most advanced medical complex in the Middle East.

The project involves expansion of a 1,395 bed medical campus by addition of 231 beds, a state-of-the-art cancer and proton beam therapy centre in an area of 473,000 square feet, a 316 bed neuroscience institute in an area of 368,000 square feet, a 48 bed cardiovascular centre in an area of 120,000 square feet, a six-storey laboratory and office building (243,400 square feet) and a 60,000 square foot central energy plant.

Saudi German Hospital, Dammam

City: Dammam

Project Cost: US\$ 90 million

Size: 39,000 sqm

Beds: 300

Owner: Middle East Healthcare Company

Project Participants: International Hospital Construction Co (IHCC)

Project Completion: Q2 2019



Once complete, the Saudi German Hospital in Damman will cover an area of 39,000 sqm, with eight operating rooms and potential capacity of up to 300 beds and 100 clinics.

International Hospital Construction Co (IHCC) was awarded deals to build Saudi German Hospital's facilities in Dammam, as well as Makkah. Construction on the healthcare facility started on 7 December 2016, and its completion is due in June 2019.

Egypt

According to 2014 statistics from the World Health Organization (WHO), the most recent data available, health expenditure accounts for 5.6% of Egypt's gross domestic product (GDP).

Meanwhile, Colliers International has reported that the demand for healthcare services is expected to grow continuously and, in order to reach 76,000 new beds by 2020, Egypt will require a further investment of US\$ 16 - 21 billion. The demand is expected to reach up to 178,000 new beds requiring an investment of US\$ 38 - 60 billion by 2050.

New National Cancer Institute, Giza

City: Giza

Project Cost: N/A

Size: 500,000 sqm

Beds: 1,000

Owner: National Cancer Institute (NCI)

Main Contractor: Skidmore, Owings & Merrill LLP (SOM)

Consultants: Hill International

Project Completion: Anticipated 2019

Located in Sheikh Zayed City, Giza, the 500,000 sqm New National Cancer Institute campus will become the largest comprehensive cancer centre in the region.

When complete, the medical campus will consist of a 1000 bed hospital with an extensive outpatient centre. It will also include a specialised nursing institute, hotel and housing, and facilities for research, training, faculty and conferences.

The project is targeting LEED Gold and is designed to US medical planning standards.

Children's Cancer Hospital Egypt 57357 Extension, Cairo

City: Cairo

Project Cost: US\$ 200 million

Size: 215,660 sqm

Beds: 300 (total bed capacity)

Owner: Association of Friends of National Cancer Institute (AFNCI)

Main Contractor: Arabian Construction Co. (ACC)

Consultants: Callison RTKL Dubai, Al Amar Consulting Group

Project Completion: 2020

Children's Cancer Hospital Egypt 57357 is one of the largest children's cancer hospitals in the world. The extension of the existing hospital complex covers the construction of four phases comprising of the following projects/buildings:

- Outpatient Center: A 16-level building with a total built-up area of 85,150 sqm. It will include 100 clinics, 250 Medical Oncology Infusion Stations, a Radiation Oncology Center and an Outpatient Radiology Center.
- Smart Building: An 18-level administrative building that will become the technologically advanced home for CCHF and 57357's administrative department.

- Health Sciences Academy: The new Health Sciences Academy will provide advanced, transformational education and training to CCHE staff and students from the MENA region.

Batterjee Medical City, Alexandria

City: Alexandria

Project Cost: US\$ 500 million

Size: N/A

Beds: 300

Owner: Middle East Healthcare Company

Consultant: N/A

Project Completion: Q4 2019

Having laid its foundation stone back in October 2016, the Batterjee Medical City complex in Alex West residential compounds estate will be developed in four phases.

The first phase consists of a 300 bed general hospital and staff accommodation. Phase two consists of seven sub-specialty hospitals and staff accommodation, while phase three consists of Medical Tower with 220 clinics and phase four consists of a medical college with all its related facilities. Saudi German Hospital will operate the hospital development.

The Global Hospital, Alexandria

City: Alexandria

Project Cost: US\$ 72 million

Size: 37,000 sqm

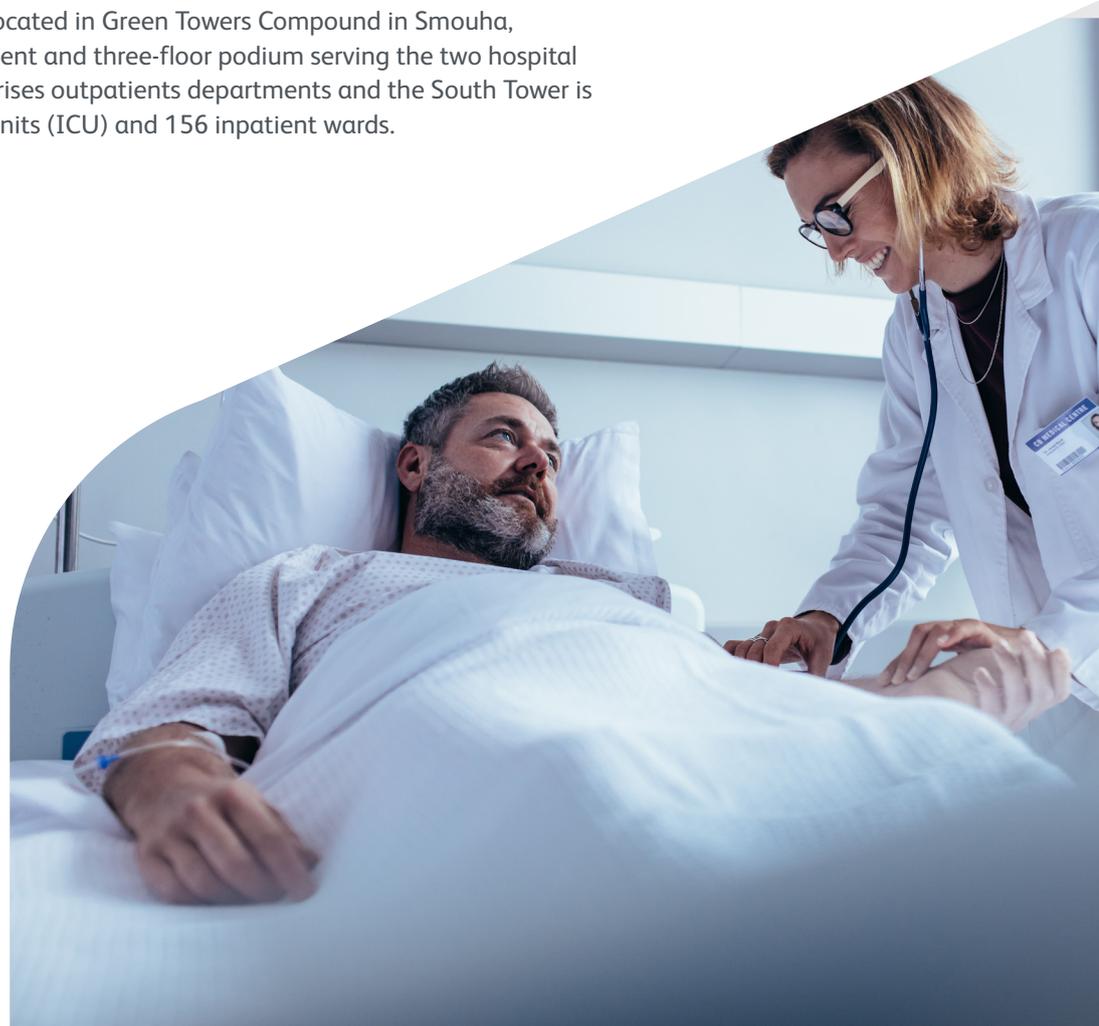
Beds: 192

Owner: The Global Hospital Co.

Consultant: Engineering Consultants Group (ECG)/ Navmatica

Project Completion: TBC

The 192 bed Global Hospital, located in Green Towers Compound in Smouha, Alexandria, comprises a basement and three-floor podium serving the two hospital towers. The North Tower comprises outpatients departments and the South Tower is made up of 64 intensive care units (ICU) and 156 inpatient wards.



The hospital will contain oversized operation rooms and advanced diagnostic centres for laboratory work and radiology. There will be 13 integrated, specialised medical centres, which will act as a single unit.

The Global Hospital will also have ambulatory and acute services with a trauma centre and resuscitation rooms, as well as post-operative and general intensive care units.

Bahrain

According to a report by Alpen Capital, health expenditure in Bahrain is anticipated at US\$ 2.4 billion in 2022, signifying a CAGR of 5.1 % from an estimated US\$ 1.8 billion in 2017. The growing size of the population, proposed mandatory health insurance, lifestyle ailments and the rising cost of care are the factors aiding growth.

The country's hospital bed requirement is projected at 2,979 in 2022, suggesting annual average growth of 2.0 % from 2017. The liberalisation of the sector, with foreign companies being allowed to own 100 % in private healthcare facilities, will lend a push to the development of the industry.

King Abdullah Bin Abdulaziz Medical City, Durrat Al Bahrain

City: Durrat Al Bahrain

Project Cost: US\$ 1 billion

Size: 1 million sqm

Beds: 264 (Phase 1), 500 on completion

Owner: Bahrain Ministry of Health

Contractor: TBC

Project Completion: Q1 2021

The King Abdullah Medical City in Durrat Al Bahrain is funded through a US\$ 267 million grant from the late King Abdulla bin Abdulaziz Al Saud of Saudi Arabia and will be built on a 1 million sqm plot donated by His Majesty King Hamad at Durrat Al Bahrain.

The city, run by Arabian Gulf University, is part of a public hospitals system in co-operation with healthcare institutions such as Supreme Council of Health and National Health Regulatory Authority.

Phase 1 construction, which includes an eight-storey educational hospital with the capacity of 288 beds; a three-storey outpatient clinic; and a building that will provide clinical services that include operating theatres, a morgue, and restaurants.

Phase 2 will see the hospital bed capacity increase to over 500 beds complete with academic school, research facility, medical hotel, rehabilitation hospital, and on-site accommodation for both students and staff.

Infrastructure work on the Saudi-funded King Abdullah bin Abdulaziz Medical City in Bahrain is being split into four phases, according to the Construction Week website, with construction on the project's Academic Medical Centre expected to complete within 24 months.

The start of the infrastructure works coincides with the construction of the development's Academic Medical Centre. Its construction is expected to receive patients in the first months of 2021.

Muharraq Hospital Complex, Muharraq

City: Muharraq

Project Cost: US\$ 81.7 million

Size: TBC

Beds: 210

Developer: Bahrain Ministry of Municipalities Affairs & Urban Planning

Contractor: Saleh Abdullah Al-Mahana (long-stay care centre)

Project Completion: 2020 (Phase 1)

The three-in-one hospital complex in Muharraq will be delivered in three phases: Phase 1 includes a long-stay care centre with the capacity to accommodate 100 beds and will be constructed to provide care for patients in need of admission at the care centre for long periods; Phase 2 will see the setting up of a maternity hospital with 110 beds; while the final phase, Phase 3 will include the construction of a US \$4.5 million 800 sqm multiple sclerosis centre with the 100 bed which is set to be completed by mid-2020.

Phase 1 is set to cost US\$ 30 million. Construction began in Q3 2018 and is expected to last approximately two years, according to the Bahrain News Agency.

The project belongs to the Ministry of Health and is being financed by the Saudi Fund for Development, following a 2014 agreement between the Kingdom of Bahrain and the Kingdom of Saudi Arabia.

Mohammed Bin Khalifa Cardiac Hospital, Awali

City: Awali

Project Cost: US\$ 106 million

Size: 44,000 sqm

Beds: 150

Owner: Supreme Council of Health Development

Main Contractor: Mohamed Abdulmohsin Al Kharafi and Sons Company

Consultant: WS Atkins & Partners Overseas

Project Completion: TBC

According to ProTenders, the project's scope of work consist of a seven-storey, 150 bed capacity hospital complex that will cover an area of 44,000 square meters building located in Awali.

Scope of work includes an outpatient's clinic, an emergency ward for chest diseases, paediatric ward and other medical facilities. It will also have cardiac theatres in which two will cater to major heart operations and one common theatre for cardiac catheterisation. The hospital will be associated with the existing Mohammed bin Khalifa Cardiac Centre at the BDF Hospital in Riffa and will be planned and executed under the direct supervision of the Bahrain Defence Force General Command.



The centre, featuring 150 beds, operating theatres, an emergency unit and laboratories, among other facilities, will be built on a 44,000 sqm plot of land with US\$ 42 million allocated to provide medical equipment and other furniture.

The Abu Dhabi Fund for Development also helped finance and support the project.

Oman

From an estimated US\$ 3.2 billion in 2017, current healthcare expenditure in Oman is expected to grow at a CAGR of 9.1 % to US\$ 4.9 billion in 2022, according to a report published by Alpen Capital. To accommodate the growing base of patients, the bed requirement in Oman is anticipated to grow at a CAGR of 3.2 % through to 2022, translating into a demand for more than 1,100 new beds to reach a capacity of 7,937 beds.

Sultan Qaboos Medical City Complex, Barka

City: Barka

Project Cost: US\$ 1.5 billion

Size: 5 million sqm

Beds: 2,000

Owner: Ministry of Health, Muscat National Development and Investment Company (Tatweer)

Main Contractor: TBC

Project Completion: 2021

The 2,000 bed Sultan Qaboos Medical City Complex in Barka will have five highly specialised hospitals for general medicine, trauma, paediatrics, head and neck ailments and organ transplant. It will also have diagnostic and rehabilitation centre, a laboratory and a central imaging building. A university research centre, other development centres and a Medical Education City are currently being planned as part of the project.

Once operational, the new Medical City is expected to work side by side with the Sultan Qaboos University (SQU) facilitating the necessary research and development facilities to the students.

Covering a total area of five million sqm, the Medical City is also envisaged to house shopping, hospitality, leisure, residential and leisure developments promoted by the private sector.

The government is billed to enlist private local and international partners in the development, management and operation of the medical complex — potentially the first PPP model for Oman outside of the utilities sector.

International Medical City, Salalah

City: Salalah

Project Cost: US\$ 1 billion

Size: 800,000 sqm

Beds: 800

Owner: Apex Medical Group (AMG), Subsidiary of Saudi Arabias Al Joaib Group

Main Contractor: TBC

Consultant: Atkins, PSOMAS

Project Completion: TBC

The International Medical City in Salalah is being developed by Apex Medical Group, a subsidiary of Saudi Arabia's Al Joaib Group, which has invested around US\$1 billion in the project. The project's scope of work consists of a regional multi-specialty organ transplant and rehabilitation hospital.

Built around a main hospital, Medical City will also include a luxury hotel, spa, educational and training facilities for doctors and nurses and a wellbeing centre, alongside accommodation, commercial and service facilities for visitors and resident.

The construction of phases includes:

Phase 1:

- 30,000 sqm land area
- 250 bed hospital
- Transplant and dialysis centre
- Rehabilitation centre
- Medical and diagnostic centre
- Tertiary care hospital

Phase 2:

- Extension of the multi-specialty tertiary care hospital to 430 beds
- Healthcare resort comprising a wellness centre, a four-star hotel connected to the hospital, a conference hall, staff accommodation, serviced apartment for patients' families, in addition to other amenities

Phase 3:

- 100 bed extension
- Medical College
- Nursing College
- Conference Center
- Research and Development Centre
- Extension of multi-specialty tertiary hospital to 530 beds

Sultan Qaboos Hospital, Salalah

City: Salalah

Project Cost: US\$ 350 million

Size: 850,000 sqm

Beds: 700

Owner: Ministry of Health

Main Contractor: TBC

Consultant: TBC

Project Completion: TBC

The new hospital in Salalah will be built on a total area of 200,000 sqm, with approximately 700 beds spread over departments such as a burn unit, paediatrics, adult ICUs, as well as 25 maternity rooms. In addition to two operating rooms, there will also be an integrated unit for accidents and emergencies and an isolation ward.



The hospital will have a radiology department, which includes three x-ray machines, two CT scan machines, one MRI machine, ultrasound devices, a bone-density device, a mammogram machine, a pharmacy, and medical laboratories.

According to ProTenders, the project will be implemented in two phases - the first phase comprising initial design and mobilisation activities and second-phase works would commence once the design had been completed and funding had been finalised.

Royal Oman Police Hospital, Muscat

City: Muscat

Project Cost: US\$ 553 million

Size: 1 million sqm

Beds: 600

Owner: Royal Oman Police

Main Contractor: Galfar Engineering and Contracting Company

Consultant: HPC (Principal Architect)

Project Completion: TBC

The project's scope of work consists of a six-storey hospital building located at Orfan. A general hospital is to be built in Muscat at the Airport Heights area, designed to accommodate 400 beds in the first phase and expandable to 600 beds in the future. The hospital will provide medical care to the members of the Royal Oman Police and their families.

The project is constructed in various phases. The project involves the construction of a 90,000 sqm healthcare facility comprising a main hospital and 20 auxiliary buildings. The first phase involves the construction of a six-storey, 400 bed hospital, featuring a cancer centre in the basement level, a trauma centre on the ground floor, a children's clinic on the first floor, a women's clinic on the second floor, a cardiac centre on the third floor, a surgery department on the fourth floor and a VIP accommodation facility on the fifth and the sixth floors. The second phase will comprise the expansion of 400 beds to 600 beds.

The hospital campus will include orthopaedic units, diagnostic and treatment zones, ambulatory care, research and education facilities, a multi-story staff accommodation facility, residential units, substations, a sewerage treatment plant, a multi-storey car parking structure and related infrastructure.

Suwaiq General Hospital, Suwaiq

City: Suwaiq

Project Cost: US\$ 200 million

Size: 100,000 sqm

Beds: 250

Owner: Ministry of Health

Consultants: React Studio

Project Completion: TBC

The Ministry of Health is planning to develop a hospital at Suwaiq, in North Batinah, in Oman. The three-floor hospital will have a 250 bed capacity and 53 outpatient clinics; the hospital will be developed on five floors above ground, will be divided into different specialized departments and will have 12 satellite buildings supporting the main body.

The hospital will comprise an adult, paediatric and coronary care unit, as well as a special care baby unit. Different sub-speciality wards such as surgical, medical, psychiatric, obstetrics and gynaecology, and paediatrics wards will also be available.

For 45 years Arab Health has brought the latest innovations in healthcare to the MENA region. From state-of-the-art imaging equipment to the most cost-effective disposables; developments in healthcare infrastructure, Arab Health continues to be at the heart of healthcare in the Middle East. The 2020 edition of the show will take place from 27 - 30 January and will welcome 4,250+ exhibiting companies to showcase their latest innovations to 55,000 healthcare and trade professionals. This year Arab Health is also pleased to introduce that show floor will be divided into 8 sectors including a primary sector for healthcare infrastructure. Running alongside the exhibition are 18 conference tracks and a variety of workshops for medical professionals to advance their knowledge and skills. For more information, visit www.arabhealthonline.com.