



3<sup>rd</sup> Annual  
**Health Facilities Infrastructure**  
SAUDI ARABIA



+ Healthcare  
Technology day

Riyadh

International conference: **26 - 27 May 2013**

Interactive focus day: **28 May 2013**



**Examining the design and integration of state-of-the-art healthcare facilities for the Kingdom**

In the recent years there has been a vast increase of investment and expansion in the Healthcare industry in Saudi Arabia with a budget of SR274 billion until 2014. One of the biggest challenges that face any government is providing healthcare to the entire population. The growth in demand for healthcare is expected to remain on an increase due to low healthcare penetration a growing and ageing population, and an increase in diseases therefore requiring ever greater resources.

With the demand also increasing for state-of-the-art facilities and the Kingdom aiming to become a world class destination for healthcare, the 3rd Annual Health Facilities Infrastructure Saudi Arabia is the platform for the latest innovations, current and future trends and newest concepts in healthcare infrastructure and design.

The healthcare sector offers considerable opportunities for investors and healthcare service providers. Saudi Arabia is experiencing brisk growth in market size with demand for hospital beds expected to rise from 51,000 to 70,000 by 2016; and the number of hospitals is predicted to rise from 364 to 502. In order to explore and examine the design, integration and investment within this rapidly progressing market, IQPC have developed the **3<sup>rd</sup> Annual Health Facilities Infrastructure Saudi Arabia**.

**Day one** will examine the drive for Saudi Arabia to obtain accreditation for all hospitals in the country to bring their healthcare facilities on a par with international healthcare quality standards. Best practice in design and development will be discussed and how hospitals can achieve this within budget, on time and increase safety and quality of care.

**Day two** will explore different projects driven by redevelopment, re-distribution in population, changes in technology and advancements in healthcare facilities design. Scenarios will be discussed to understand how to minimise disruption and contamination in new and retrofitted hospitals.

**Day three** will assess how to best utilise and implement health technologies in order to improve quality of care by releasing pressure on overburdened facility, and increase safety and enhance patient care through effective digital monitoring.

Endorsed by:



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To ensure this summit is developed by the industry for the industry, IQPC have put together a prestigious advisory board including:



**Dr Nashat Nafouri**  
Executive Officer and Chairman of Healthcare Group  
Saudi Quality Council



**Professor Tawfik Khoja**  
Director General  
Executive Board of the Health  
Minister's Council for Cooperation  
Council States



**Dr Salem Al Wahabi**  
Secretary General  
Central Board Accreditation for Healthcare Institution (CBAHI)

### Hospitals and clinics participating in 3<sup>rd</sup> Annual Health Facilities Infrastructure Saudi Arabia

The collage features the following logos and text:

- International Medical Center (المركز الطبي الدولي)
- DR SULAIMAN AL HABIB medical group (د. سليمان الحبيب)
- King Fahad Specialist Hospital-Dammam (مستشفى الملك فهد التخصصي بالدمام) - وزارة الصحة
- King Abdullah Medical City (مدينة الملك عبد الله الطبية) - IN HOLY CAPITAL
- King Fahad Military Medical Center (مركز الملك فهد الطبي العسكري) - DHAHRAN
- Saudi Society of Emergency Medicine (الجمعية السعودية لطب الطوارئ) - Saudi Society of Emergency Medicine
- King Saud University (جامعة الملك سعود) - 1957
- King Fahad Medical City (مدينة الملك فهد الطبية) - KINGDOM OF SAUDI ARABIA
- King Fahad Specialist Hospital (مستشفى الملك فهد التخصصي الطبي)

## Conference day one – Sunday, 29 September 2013

**08:00 Registration, welcome refreshments and networking**

**08:45 Chairman's welcome and opening remarks**

### Developing a quality health system based in patient centric care, guided by international standards

**09:00 Conference opening panel: Impact of accreditation on the quality and design of healthcare services**

Accreditation programs improve the process of care provided by healthcare services. There is considerable evidence to show that accreditation programs improve clinical outcomes of a wide spectrum of clinical conditions.

**Discussion theme:** Analysing the impact of general accreditation programs on the overall performance of hospitals and how accreditation is used as a tool to improve the quality of healthcare services.

**Prof Tawfik Khoja**, Director General, **Executive Board of the Health Minister's Council for Cooperation Council States**

**Dr Nashat Nafouri**, Executive Officer and Chairman of Healthcare Group, **Saudi Quality Council**

**Dr Hossam Ghoneim**, Director: Healthcare, **King Abdullah Economic City**, Consultant, **Joint Commission International, Saudi Arabia**

**Dr Salem Al Wahabi**, Secretary General, **Central Board of Accreditation for Healthcare Institutions**

**09:45 Implementing programmes for facilities management to improve safety and health standards**

Sound health facilities management is critical for the successful delivery of health care services. This not only affects the ability to gain accreditation, but also impacts health and safety aspects of your facility. The following session will discuss the typical challenges experienced in facilities management in Saudi Arabia as well as some practical examples of programmes that can be implemented to overcome core challenges

**Dr Ashraf Ismail**, Managing Director, Middle East Office, **Joint Commission International (JCI)**

**10:30 Networking, coffee break and meet the solution providers**

One-on-one introductions with solution providers, facilitated by IQPC staff

**11:00 Demonstrating a holistic approach to patient care - heal and you will be healed**

- Introducing the Healing By Design Concept and how can this concept is being integrated into the design of new healthcare facilities
- Embedding the elements of holistic healing into the design of healthcare facilities
- Discussing how can we return hospitality back to hospitals

**Dr Walid Fitaihi**, CEO, **International Medical Centre Jeddah**

**11:30 Re-engineering patient rooms designed to increase safety in hospitals**

- Changing the mind-set of decision makers towards more personalization in patient rooms to develop a "feel at home" environment, attract patients and drive ROI
- Applying the design and improving the availability of assistive devices to avert patient injuries
- Standardising room layout, location of supplies and medical equipment to facilitate staff movement and increase efficiency of care

**Eng. Ibrahim Al-Khelaifi**, Executive Director of Operation, **King Fahad Medical City**

**12:00 Prayer break**

**12:30 Driving performance by design: Looking at international trends in evidence based design principles**

- Highlighting innovative design from 2012 research findings for evidence based design
  - Discussing how effective design of facilities increases staff productivity and decrease patient waiting times
  - Incorporating adaptability and flexibility through evidence based principles for future expansion
- Dr Nashat Nafouri**, Executive Officer and Chairman of Healthcare Group, **Saudi Quality Council**

**13:15 Implementing the latest architectural design to reduce waiting times in emergency rooms**

- Exploring how facility design can support a differentiated emergency medicine care model
- Creating a better emergency room experience through evidence based design to improve speed of service
- Discussing design trends to increase patient numbers per hour by improving the patient flow

**Dr Mobarak Al Mulhim**, Associate Executive Director, **Medical Services, King Fahad Specialist Hospital-Dammam**, Chairman, **Eastern Province Society of Critical Care Chapter** and Secretary General, **Saudi Society of Emergency Medicine**

**14:00 Open floor Q&A session**

Opportunity for delegates to ask questions to the speaker panel for the day. This is an exclusive and interactive opportunity for both the presenters, sponsors and delegates.

**End of conference day one**

**14:15 Networking lunch**

The networking lunch provides a setting for attendees, speakers and sponsors to share their knowledge and insights on the most relevant topics in health facilities. The lunch will allow you to discuss debate and share knowledge from the local and international health sector.

## Conference day two – Monday 30 September 2013

**08:00** Registration, coffee and networking

**08:45** Chairman's welcome and opening remarks

### Reducing cost and increasing efficiency through energy efficient, functional design and sustainable facilities

**09:00** **Q&A session: Creating a healing environment and improving infection control**

New design models incorporate the patient's perspective and are based on medical-outcome evidence, patient satisfaction and patient safety. One of the most important shifts in hospital design in the past few years has been to design patient care spaces for infection control.

**Q&A theme:** This session will debate if modern hospitals are indeed designed to reduce the risk of transferred infection by personnel.

**Dr Salem Al Wahabi**, Secretary General, **Central Board of Accreditation for Healthcare Institutions**

**Dr Fawaz Abdelaziz Al-Hussain**, Associate Medical Director, **King Khalid University Hospital**

**09:30** **Outlining strategies for a sustainable facility – tackling energy, waste and operational cost**

- Creating and maintaining a sustainable design model to improve efficiency of the facility
- Integrating equipment needs to anticipate transition of care and accommodate frequent operational reorganisation to reduce operational cost in the long term
- Developing healthcare waste management guidelines and building isolated facilities to reduce production and improve waste treatment

**Engineer Hazem Bonna**, Head of Civil/Structural Unit, **Saudi Ministry of Defence, Medical Services Directorate, OMD Department**

**10:00** **Networking, coffee break and meet the solution providers**

One-on-one introductions with solution providers, facilitated by IQPC staff

**10:30** **Reviewing the current state of acoustics in healthcare environments**

- Highlighting the current state of acoustics in healthcare environments and the next step to meet standards and regulations
- Determining why acoustics matter and how it contributes to supporting patient well-being
- Discussing state-of-the-art interior fit outs to improve maintenance during the hospital lifecycle

**Nasser Al Luhaidan**, Chief Operating Officer, **Specialized Medical Center Hospital**

**11:00** **Learning how poorly designed, installed or maintained HVAC systems contribute to sickness and poor energy consumption**

- Discussing the impact of HVAC systems in healthcare environments
- Highlighting the importance of airflow volumes and air pressure differentials
- Understanding the crucial elements of maintaining the right temperature to improve patient outcomes

**11:30** **Prayer break**

**12:00** **Exclusive presentation by Joint Commission International: Demonstrating safe health design by improving patient safety and offering safe healthcare**  
**Senior representative**, Joint Commission International

**12:45** **Maximising current resources when retrofitting existing healthcare facilities to deliver efficient patient care**

- Understanding the existing process and identifying user groups in order to develop a fit-for-purpose strategy for the facility

- Ensuring all aspects of the facility meet and retain accreditation from regional and international codes and regulations
- Aligning design and construction processes with an appropriate plan for the temporary placement of existing and future patients within the facility

**Dr Fawaz Abdulaziz Al-Hussain**, Associate Medical Director, **King Khalid University Hospital**

**13:15 Effectively connecting new designed areas with existing facilities through streamlined planning and commissioning**

- Planning and designing the new extension to ensure a perfect connection to the former facility
- Understanding guidelines for smooth operational flow to ensure current facilities are not compromised through the construction phase
- Demonstrating the management of IAQ systems during the construction phase to prevent contamination of the sterile environment

**Rami Abulsamen**, Executive Director, **Dr Sulaiman Al Habib Medical Group**

**13:45 Panel Discussion: Trends in healthcare systems and design – what we are seeing now**

When talking about healthcare development one key issue is the implementation of green standards in healthcare facilities design. Hospitals are focusing on integrating local natural resources to save on costs and deliver on eco-friendly behaviours.

**Discussion theme:** How will Saudi Arabia deal with these challenges to become a world-class healthcare destination to compete with health tourism markets abroad?

**Dr Hossam Ghoneim**, Director: Healthcare, **King Abdullah Economic City**, Consultant, **Joint Commission International, Saudi Arabia**

**Eng. Ibrahim Al-Khelaifi**, Executive Director of Operation, **King Fahad Medical City**

**14:15 Open floor Q&A session**

Opportunity for delegates to ask questions to the speaker panel for the day. This is an exclusive and interactive opportunity for both the presenters, sponsors and delegates.

**End of conference day two**

**14:30 Networking lunch**

The networking lunch provides a setting for attendees, speakers and sponsors to share their knowledge and insights on the most relevant topics in health facilities. The lunch will allow you to discuss, debate and share knowledge from the local and international health sector.

## Healthcare Technology Focus Day – Tuesday 1 October 2013

Government budgets are under constant pressure with an ageing population requiring more and ever complex healthcare. Saudi Arabia has recently unveiled the largest healthcare technology project of its kind. The five year project is aimed at transforming healthcare delivery in Saudi Arabia through the use of technology.

The Ministry of Health plans to build on the pioneering e-Health advancements from other countries, and enable the Kingdom to provide a new generation of healthcare services to meet the accelerating expectations of its residents.

The Healthcare Technology Focus Day will provide a forum for the healthcare industry to discuss optimum solutions in order to improve quality of care, efficiency, increase safety and enhance patient care.

**08:00 Registration, refreshments and networking**

**08:45 Chairman's opening remarks**

### Delivering quality healthcare service through healthcare technology

**09:00 Challenges and opportunities of implementing Electronic Health Records (EHRs)**

- Highlighting the use of EHR in improving quality of health information, speed and flexibility in access of health records
- Discussing the benefits of EHR in the process of decision making for patients
- Demonstrating how EHR helps to reduce medical errors and improving patient safety

**Dr Mustafa H. Qurban**, Assistant to the Military Hospitals Director in Eastern Province for ICT and Consultant and Chief Information Officer, **King Fahd Military Medical Complex (KFMMC)**

**09:45 Digitalising healthcare processes to improve efficiency and maximise resources**

- Demonstrating the value of the IT function so it is seen as adding value, not purely a cost
- Discussing the role of the Chief Clinical Information Officer in bridging the gap between IT and hospital staff
- Understanding the needs of clinicians and capabilities of IT to transform the healthcare centre

**Hamza Al Katranji**, Head, Healthcare Informatics Department, **King Fahad Specialist Hospital-Dammam**

**10:15 Networking, coffee break and meet the solution providers**

One-on-one introductions with solution providers, facilitated by IQPC staff

**10:45 Developing smart hospitals for the future using LEAN design to optimise business processes**

- Evaluating the benefits of barcodes and RFID technologies to optimise business processes, reducing errors and improving patient safety
- Building smart rooms with a system for automatically organising and prioritising the work of nurses and doctors
- Developing a road map to identify patients and all medical articles around patients

**Mohammed Maghazil**, Head of Applications Services and Information Technology Affairs, **King Faisal Specialist Hospital & Research Center**

**11:15 Implementing Remote Patient Monitoring (RPM) to deliver 24 hour medical assistance**

- Building the business case for remote patient monitoring and developing an effective strategies
- Integrating clinical information systems with patient monitoring to streamline information flow
- Driving strategic partnerships through advancements in non-invasive and minimally invasive monitoring parameter technologies

**11:45 Prayer break**

## Evaluating the impact of risk management on the quality of health care services provided to patients

### 12:15 Panel discussion: Gaining value from healthcare technology

The medical informatics field is going through a rapid change. The current model used is one of patient to physician, with information technology as a value added segment. However, with rapid developments in the medical informatics field it will take a quantum leap forward. A new model is proposed of patient to information technology with the physician as the value added segment.

**Discussion theme:** Examining how the informatics profession ensures informatics deployments deliver value for money and enhance the delivery of healthcare

**Ali Al Shehri**, President, Saudi Association for Public Health Chairman, Public Health, College of Public Health and Health Informatics Associate Professor, College of Medicine, **King Saud bin Abdulaziz University for Health Sciences** and **National Guard Health Affairs**

**Dr Mustafa H. Qurban**, Assistant to the Military Hospitals Director in Eastern Province for ICT and Consultant and Chief Information Officer, **King Fahd Military Medical Complex (KFMMC)**

### 13:00 Pioneering automation within the medical sector to enhance patient's safety

- Understanding the operational, financial and safety benefits of technology solutions and devices supporting safe medication use
- Engaging medical, nursing and pharmacy staff to ensure appropriate utilisation of new technologies, through risk assessment of medication management processes
- Reviewing best practices to maintain and manage technologies

**Ahmed Alosaimi**, CIL, **National Medical Care Company**

### 13:30 Leveraging Computerised Physician Order Entry (CPOE) implementation to reduce medical errors

- Understanding the keys to successful integration and physician adoption to reduce error by up to 81%
- Maximising CPOE and achieving standardised care through order set adoption
- Reviewing the key drivers for purchasing electronic order sets to understand preventable hospital medical error

**Bakheet Aldosari**, Department Chair, **King Saud Bin Abdul-Aziz University** and Board Member, **Saudi Association for Health Informatics**

### 14:00 Open floor Q&A session

Opportunity for delegates to ask questions to the speaker panel for the day. This is an exclusive and interactive opportunity for both the presenters, sponsors and delegates.

### Chairman's closing remarks and close of day

### 14:15 Networking lunch

The networking lunch provides a setting for attendees, speakers and sponsors to share their knowledge and insights on the most relevant topics in health facilities. The lunch will allow you to discuss debate and share knowledge from the local and international health sector.