



MINISTRY OF PRESIDENTIAL AFFAIRS
H.H. the President Initiatives
Sheikh Khalifa General Hospital | Umm Al Quwain



وزارة شؤون الرئاسة
مبادرات صاحب السمو رئيس الدولة
مستشفى خليفة العام | أم القيوين

Sheikh Khalifa General Hospital Pulse

Our Departments :

Internal Medicine
Gastroenterology
Endocrinology & Diabetes
Intensive Care Unit
Pulmonology
Obstetrics & Gynecology
Pediatrics
Neonatology
Cardiology
General Surgery
Orthopaedics
Neurosurgery
Urology

Nephrology
ENT
Ophthalmology
Dentistry / Maxillofacial
Surgery
Dermatology
Radiology
Anesthesiology
Physiotherapy
Pathology
Emergency Services
Dietetics



Prepared by
Samia Haj Darwish

With Regards from the Marketing and Business
Development Department at Sheikh Khalifa General
Hospital UAQ

Fifth issue - Dec 2016

P.O.Box: 499, Umm Al-Quwain, U.A.E.
Tel.: +971 6 7061111
Fax: +971 6 7679555

With Your Efforts We Rise

We're always on the look out to celebrate success,
spread the word, or share your thoughts
Forward the details to Marketing Dept.
Samia.darwish@skgh.ae

Vision

Better than world class ...
Every Patient, Every Time.

Mission

To develop & implement successful solutions to provide quality, affordable healthcare to the Umm Al Quwain community by inspiring our people, creating new healthcare horizons and delivering value to all role players.

To be a leading UAE citizen, proud of our heritage and what we give to the community.

To strive for excellence in a unique brand of patient care delivered by people who are passionate about the sanctity of life, personal respect and dignity.

To invest in people, infrastructure and technology and establish lasting relationships with community leaders and healthcare professionals.

INDEX

-	<i>SKGH Interim Chief Executive Officer Message</i>	<i>2</i>
-	<i>About SKGH</i>	<i>3</i>
-	<i>Welcoming New Doctors</i>	<i>4</i>
-	<i>SKGH Participated in the 5th Emirates International Urological Conference</i>	<i>5</i>
-	<i>Opening Ceremony of Mammography Machine</i>	<i>7</i>
-	<i>Sheikha Shamma bint Sultan bin Khalifa Al Nahyan officially opened a “Wanna Read?” at SKGH</i>	<i>8</i>
-	<i>Academic Cooperation between Sheikh Khalifa General Hospital and University of Sharjah</i>	<i>9</i>
-	<i>Anesthesia Techniques at SKGH</i>	<i>11</i>
-	<i>Operation to Constrict the Lower Jaw and Soft Tissue of the Face and Neck</i>	<i>12</i>
-	<i>For The First Time in SKGH Adult Colonic Intussusception ..</i>	<i>13</i>
-	<i>Laboratory Department CAP Accreditation Inspection</i>	<i>15</i>
-	<i>Whole Genome Circular Representation of a Pan Drug Resistant Klebsiella pneumoniae</i>	<i>16</i>
-	<i>Advanced Spine Surgery in SKGH -UAQ</i>	<i>17</i>
-	<i>KPI Performance Measures - The Key to Safety is in Your Hands</i>	<i>19</i>

-	<i>SKGH Emergency Department: Enhancing Quality through Education</i>	<i>20</i>
-	<i>Women and Family Health Activities at SKGH</i>	<i>21</i>
-	<i>Continuous Medical Education Program</i>	<i>22</i>
-	<i>Airway Management- Beyond basic’ at SKGH</i>	<i>23</i>
-	<i>Breast Imaging Symposium</i>	<i>24</i>
-	<i>Health Awareness Lecture “Poliomyelitis Eradication”</i>	<i>25</i>
-	<i>Accreditation of Sheikh Khalifa General Hospital as a Training Center on CPR Skills</i>	<i>26</i>
-	<i>The Super Foods: Antioxidants & Probiotics</i>	<i>27</i>
-	<i>Breast Cancer Month \ Quadruplet at SKGH</i>	<i>28</i>
-	<i>International Emergency Nurse Week \ Visits</i>	<i>29</i>
-	<i>SKGH Celebrates Flag Day, National Day and Commemoration Day</i>	<i>31</i>
-	<i>Appreciation Letters</i>	<i>32</i>
-	<i>Accepted Insurance companies at SKGH</i>	<i>33</i>

We have managed to keep the volumes high during July and September 2016, despite the 10 days of Eid!

	July – Nov. 2015	July – Nov. 2016	% Increase
OPD Visits	24,828	32,236	29.8%
ER Visits	18,525	23,425	26.5%
Admissions	2,181	2,578	18%
Dialysis Sessions	2,292	2,906	26.8%
Deliveries	326	496	52%
OT Cases	675	773	15%

The increasing volumes have followed this trend since 2015 and continued since the beginning of this year, January 2016! In November we saw a record number of patients as more than 5,000 patients were seen in one month in our Emergency Department for the first time. The community is spreading the news about the good service by word of mouth to the rest of the community.

We achieved an all-time high of 93.2% with our KPI performance for the first time ever. This is a reflection of the quality outcomes and adherence to the standards, policies and procedures implemented at SKGH. This is a wonderful accolade for our staff and assurance to MOPA and the community of the Northern Emirates that we render safe and excellent quality patient care!

Further to this, we have been able to maintain a performance of above 85% for the last 4 quarters, since 3rd quarter in 2015, Q1 2015, 89%; Q4 2015, 86%; Q1 2016, 87% and achieved 93% in Q2 and Q3 of 2016!.

Operational and Leadership accomplishments:

- *The main achievement lead by the nursing department has been that SKGH is now an AHA – ITC (American Heart Association – International Training Centre) for BLS. Advanced courses to follow by early next year once equipment is delivered.*
- *The other major achievement is the MoU signed on 29 September 2016 with University of Sharjah to train medical students at the hospital.*
- *The leadership management program has been compiled by the HR Departments of SKGH and SKSH and the first presentation, Enhancing Performance Development, has been delivered by the interim CEO of SKGH to the leadership teams of SKGH and SKSH. Other topics presented by the Chief Officers are Leadership vs Management; Performance Management and Budget process.*
- *The 2015 financial results were reviewed with the Audit committee of*

MOPA and positive feedback has been received.

- *A leadership program was presented to the Emirati leadership group by the Chief Officers of Sheikh Khalifa General Hospital, Sharing their expertise.*
- *The finance team have signed contracts for empanelment with five additional Insurance companies, October and November (a total of 22 companies) and is in the process of negotiation with the following 4 companies: Maxcare; Fortune Net; Wealth International and FMC Network.*
- *Successful Family Health Day presented to the women leaders of the Northern Emirates with launching SKGH's social responsibility with regard to the International Sustainable Development Goals*
- *The new Chief Nursing Officer has officially resumed his duties during September 2016.*

Quality Healthcare – Medical and Nursing:

- *First time Quadruplets, four babies born to first time mom, were born at SKGH with an uncomplicated C- Section and we are proud to report that the mom and babies are stable.*
- *CAP accreditation Application submitted , with CAP readiness at 88% as the inspection will be on 12 January 2017. We want to wish Dr. Mubarak and his team all the best with the inspection.*
- *Visit from Red Crescent members who interacted with patients and families and gave gifts.*
- *In an emergency Department STEMI patient transferred to SKSH in 78 minutes- the current international target being 90 minutes.*
- *Highest ever number of deliveries and babies - 100 Deliveries for month*
- *MoU Signed with UOS for medical student rotation at SKGH.*
- *The following CME's were presented by our consultants at SKGH*
 - *Vitamin-D Deficiency among children attended by 86 clinical staff.*
 - *PCI versus Fibrinolysis attended by 86 clinical staff.*
 - *Testosterone Hormonal replacement attended by 54 clinical staff.*
 - *Female pelvic imaging attended by 56 clinical staff.*
 - *Breast cancer symposium attended by 63 clinical staff.*

The following Marketing Activities were conducted during this period:

Breast Feeding Awareness Week; Pink Ajman campaign at Ajman Saray; First aid workshop at Safyya school; Nurse Emergency week at Carefour, UAQ and a Women's Health Day including Eye awareness Day

Thank you, Shukran, to all the staff at SKGH for delivering excellent service to the community of the Northern Emirates



*Mrs. Resa van der Merwe
SKGH Interim Chief
Executive Officer*

Sheikh Khalifa General Hospital, Umm Al Quwain, has been constructed under the patronage of H.H. Sheikh Khalifa Bin Zayed Al Nahyan, by NMC Healthcare, the largest private hospital network in the U.A.E.

Sheikh Khalifa General Hospital is accredited by joint Commission International with the gold seal to assure patients and their families of best practices in safety and quality care.

The hospital's state-of-the-art facilities are complimented by a team of highly skilled consultants, specialists and outstanding nursing care, set amongst the most sophisticated equipment available anywhere in the world.

The Facilities at SKGH include:

- 203 beds
- 15 bed fully equipped Intensive Care Unit
- 18 bed fully equipped neonatal Intensive Care Unit
- 8 Operating Theatres
- 24 Hour Accident and Emergenc Unit with:
 - » A dedicated Resuscitation Unit
 - » Direct Communication with Emergency Services with a pre-alert telephone
 - » Helipad
 - » 24 Emergency Room Cubicles
 - »

- Ambulance base with 3 ambulances for rapid transfer
- Pathology Laboratory
- Radiology Department with MRI, CT scan, BMD, and Sonography
- Renal Dialysis Unit
- Sleep Laboratory
- Surgical, Medical and Pediatric units
- Out Patient Department
- Rehabilitation Area

Sheikh Khalifa General Hospital provides exceptional standards of care in the following disciplines:

- Audiology therapy
- Cardiology
- Carritical Care Medicine
- Dentistry
- Dermatology
- Ear, Nose and Throat Medicine and Surgery(ENT)
- Emergency Medicine
- Endocrinology and Diabetes

- Gastroenterology
- General Surgery
- Maxillo-Facial and Oral Surgery
- Neonatology
- Nephrrrology and renal Medicine
- Neurology and Neurosurgery
- Obstetrics and Gynecology
- Ophthalmology
- Orthopedic surgery
- Pediatrics
- Physiotherapy
- Internal Medicine
- Urology
- Radiology



01

Welcoming New Doctors



Dr. RABAB GABR
Specialist OB-GYNE
Arab Board
Aug 2016



Dr. MAHMOUD MOUSA
Specialist Anesthesia (ICU)
Masters
Aug 2016



Dr. FARIHA SHAD
Consultant Nephrology
American Board
Aug 2016



Dr. MAJED HAKIM
Specialist Anesthesia / ICU
Masters
Sep 2016



Dr. HOUSSAM EL ALI
Consultant Endocrinology
Specialization in Endocrinology,
American University of Beirut
Sep 2016



Dr. OMER OSMAN
Specialist Internal Medicine
MD, MRCP
Sep 2016



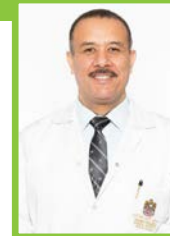
Dr. JIWAN CHANDRA
Specialist OBGYN
MD
Sep 2016



Dr. AMANY KANDIL
Specialist Emergency
Arab Board
Aug 2016



Dr. MOHAMD WASFY
Consultant Ophthalmology
PhD Spain
Sep 2016



Dr. SAMER JOUHAR
Consultant Pediatrics
Jordan Board
June 2016



DR. MOHAMMED OMER HAMZA
Specialist Emergency
MRCS – Accident and Emergency
Dec 2016



DR. P M SHAMSUDDEEN
Specialist Internal Medicine
FRCP
Dec 2016



DR. IBRAHIM ELDESOUKY
Consultant Radiology
MBBCh, MSC, Doctorate degree
Oct 2016



Dr. ZELAL AL ABED
Specialist General Surgeon
Specialization, Syrian Board
Sep 2016



DR. DIVYA TRIPATHI
Specialist Lab
MD in Pathology
Dec 2016

02 *SKGH Participated in the 5th Emirates International Urological Conference and Organized Multi-Specialities Symposium*

Under the patronage of His Highness Sheikh Hamdan bin Rashid Al Maktoum, Deputy Ruler of Dubai and UAE Minister of Finance, the 5TH Emirates International Urological Conference which is organized by Emirates Medical Association started on 15 Dec. It was attended by health leaders and more than 700 experts nationally & internationally. (In addition over 30 companies for medical equipment in attendance).

His Excellency Mr. Humaid Mohammad Al-Qattami Chairman and General Director of the Dubai Health Authority during the official opening of the conference, focused on the importance of monitoring global developments

and benefit from the experiences and successes of excellence in various medical specialties, particularly in urology, which has seen an important breakthrough in the field of the diagnostic techniques and new treatments. The conference lasted for three days and organized by “EUSC 2016”, in collaboration with European Association for Urology, American Association for Urology and Arabic Association for Urology, including to Urology Association of the neighboring countries, this conference is considered unique for the Urology physicians to participate the experts and experience in the field of Urology, covering various subjects in the field of Urology with



focus on the latest techniques used in diagnosis and treatment.

Dr. Abdulqadir AlZarooni, chief of Surgery and the Head of Urology Dept. at SKGH, UAQ, Head of Urology Association, Head of the 5th Emirates International Urological Conference said that: “this conference aims to display more research and workshops about the latest important topics, imaging and nursing skills in urology units and endoscopy, which included practical medical training in the health fields, and also discussed the latest international update in urology diseases, Tumors, infections, kidney stones and endoscopic surgeries”.

Also strengthening the partnership with national and international organizations for their valuable contribution to the success of this conference, Dr. Al Zarooni appreciated the three best scientific papers as well as SKGH and NMC.

In conjunction with this conference the activities of SKGH Multi – Specialties symposium started on 17 Dec and lasted for one full day.

This symposium included a set of scientific lectures and workshops which included more than 13 specialties, such as Endocrinology, hypertension, pulmonology, osteoporosis, imaging diagnosis, Orthopedics and obesity which are presented by experts and consultants from different specialties in the hospital.

Ms. Resa the SKGH Interim Chief Executive Officer said that the conference comes from the principle of hospital administration’s interest in developing medical and health care providers and introducing the latest scientific update in various fields. The symposium also aims to improve the health level required in the United Arab Emirates to achieve the vision of H.H. Sheikh Khalifa bin Zayed Al Nahyan (May God protect him.).



03

Opening Ceremony of Mammography Machine



On behalf of the medical office – MOPA, Dr. Abdul Hadi Al Ahbabi (Deputy General Manager at the medical office - MOPA) inguarated by official ceremony, the 3D mammography Machine at the Radiology Department, at SKGH on 23rd Nov, in the presence of Ms. Resa (Interim Chief Executive Officer), chiefs & doctors of SKGH personnel.

Mrs. Resa said that: “this was a historic day for SKGH as it represented an important step to improve women’s health in the Northern Emirates and particularly in the Umm Al Quwain community”. As part of this event, SKGH also provided educational information to the community to improve health and early detection of signs and

symptoms of diseases, by arranging booths for Focus areas such as: Oncology, Mammography, Diabetes, Stroke, HIV, Trauma, Obesity and Patient safety. As well as medical checkups for Vital signs, Blood sugar test, Cholesterol tests and BMI.

04

Sheikha Shamma bint Sultan bin Khalifa Al Nahyan officially opened a “Wanna Read?” at SKGH

On 23 November 2016: Sheikha Shamma bint Sultan bin Khalifa Al Nahyan officially opened a “Wanna Read?” room at Sheikh Khalifa General Hospital.

“Wanna Read?” is a division of the H.H. Sheikh Sultan Bin Khalifa Al Nahyan Humanitarian & Scientific Foundation.

The initiative creates libraries in paediatric wards of hospitals across the UAE. The aim is to encourage reading and foster wellbeing by creating warm, friendly and stimulating areas filled with an abundance of books to help children through their healing and rehabilitation.

To date, “Wanna Read?” has opened 11 rooms throughout the UAE, in the Emirates of Abu Dhabi and Dubai. Today’s opening celebrates the most recent.

Sheikha Shamma stated: “Today is an important achievement for the “Wanna Read?” initiative. This is our first room in the Northern Emirates region and it is undoubtedly the first of many. We are planning to implement our volunteer programme into Sheikh Khalifa General Hospital, Umm Al Quwain, and I would encourage all staff and the community to join us in bringing our vision of ‘healing through reading’ to many more young patients.”



The “Wanna Read?” team has designed a child-friendly room with bright colours and wall art. It contains soft furnishings, seating and over 300 children’s books in both Arabic and English. In addition to the room itself, a mobile library trolley with a further 200 books has been provided for any young patients unable to leave their rooms.

Sheikha Shamma further stated: “Together, we will make a difference to the wellbeing of the children who will benefit from this new facility.”

Resa van der Merwe, Acting CEO at Sheikh Khalifa General Hospital, was pleased to launch this initiative that adds a new dimension to the health services provided by the hospital for our young patients. Through the provision of this dedicated area, we hope the children will be motivated to read during their stay in hospital, thus avoiding boredom and stress.

She also thanked Sheikha Shamma for this initiative, as well as all those who have worked together to make it possible.

05 *Academic Cooperation between Sheikh Khalifa General Hospital and University of Sharjah*

On 29 Sep 2016, the Interim Chief Executive Officer of Sheikh Khalifa General Hospital, Ms. Resa Van der Merwe and the Chancellor of the University of Sharjah, Prof. Qutaiba Hamed signed a cooperation agreement to train medical students from Faculty of Medicine for the purpose to equip the medical students with skills and knowledge in the medical and clinical fields, moreover to encourage joint research, as well as to support the development of continuous medical education.

Both parties pointed out that the agreement

is an embodiment of the partnership among the national institutions that seek to serve the citizens of UAE in accordance with the best global practices.

They confirmed their intention to build a strong partnership and to strengthen cooperation and coordination to fulfill the mission and vision of the Ministry of Presidential Affairs and those of Sheikh Khalifa General Hospital and the University, all seeking to support the medical development and provide the best educational and medical services to the citizens.





Ms. Resa said that the agreement is the result of sincere efforts of the two sides that give ultimate priority and care for providing the best medical services at the hospital through the full cooperation and coordination between the hospital and the university. She also pointed to the rich experience and the deep partnership between the hospital and the university, translated into this agreement, which is reflected and being deepened through providing full support for all the university members.

Consultant's Training Workshop at University of Sharjah

06 *Anesthesia Techniques at SKGH*

Sheik Khalifa General Hospital (SKGH) started to use the new ultrasound (US) in regional and general anesthetic techniques preoperatively.

Dr. Vladislav Firago, HOD of Anesthesia Department said that this technique has been used for more than a year now in most of the surgical, gynecological and normal labour procedures. More than 50 cases done for US epidural blocks and 150 for peripheral nerve blocks (PNB) in which the complications rate is far less in comparison to the old techniques.

This US blocks are more suitable for patients in which general anesthesia is contraindicated due to its high risk and these blocks will be used preoperatively to control the pain.

The Department started to use a new device which detect the occurrence of intraoperative strokes. In addition to the use of 24/7 pain service by the use of recent devices (PCA) and regional blocks. Moreover the anesthetic team provide pediatric endoscopic procedures especially in new born babies.

The anesthetic field is highly challenging especially in the modern medical services and SKGH anesthesia team is composed of 2 consultants and 5 specialists with international experiences.



*Dr. Vladislav Firago
Consultant Anesthesia
Head of Anesthesia Dept.*

07

Operation to Constrict the Lower Jaw and Soft Tissue of the Face and Neck



Radiotherapy has improved the survival of the cancer patients. But, as it is the case for every therapy, it has side effects which can persist for a long time. In fact, radiotherapy mainly destroys the tumor cells. It still has a negative impact on the healthy tissues surrounding the tumor.

One of the negative effects affecting the jaw after radiotherapy is the partial necrosis (development of dead tissue) of the jaw bone and gum. This unpleasant side effect was observed in a patient who is now being treated by Dr. Ahmed Al-Dam, Consultant Maxillofacial Surgeon. The Turkish patient had a malignant tumor on the left side in the parotid gland which is located in the left cheek. This tumor was removed and radiotherapy was applied twice to this patient in the years 2005 and 2011.

An emergency operation was performed to treat an acute infection of the left side of the face and neck in May 2016. In November 2016 a five hours operation was performed to treat the causing source of the infection. In this operation, a large part of the mandible along with affected facial and neck soft tissue on the left side had to be surgically removed. The jaw was reconstructed with a titanium plate, the soft tissue of the face and neck had to be reconstructed with a soft tissue flap, which was moved from the chest and shoulder area to the left side of the face and neck. There were no complications in or after the operation and the patient is being discharged from the hospital. This type of operation is performed for the first time in the Northern Emirates.



*Dr. Ahmed Al-Dam
(MD, DMD, Facharzt, FEBOMFS)
Head of Maxillofacial and Dental
Department
Consultant Maxillofacial Surgeon*

A 35 year old female patient attended SKGH ER Department complaining of recurrent episodes of abdominal pain and constipation for one month. Her clinical assessment was non -specific. Provisional diagnosis of subacute bowel obstruction was raised, and subsequently confirmed by Abdominal CT scan and colonoscopy done on the same day, confirming the diagnosis of Colo-Colic Intussusception.

Our patient has been admitted to the floor and underwent urgent surgery in terms of Extended Right Hemicolectomy with primary ileo-colic anastomosis using Stapling technique. Our patient did well post-operative and discharged home after 7 days in good general condition. Histopathology examination revealed sub-mucous lipoma in the ascending colon as a cause of the intussusception.

Patient education:

Intussusception (The Basics):

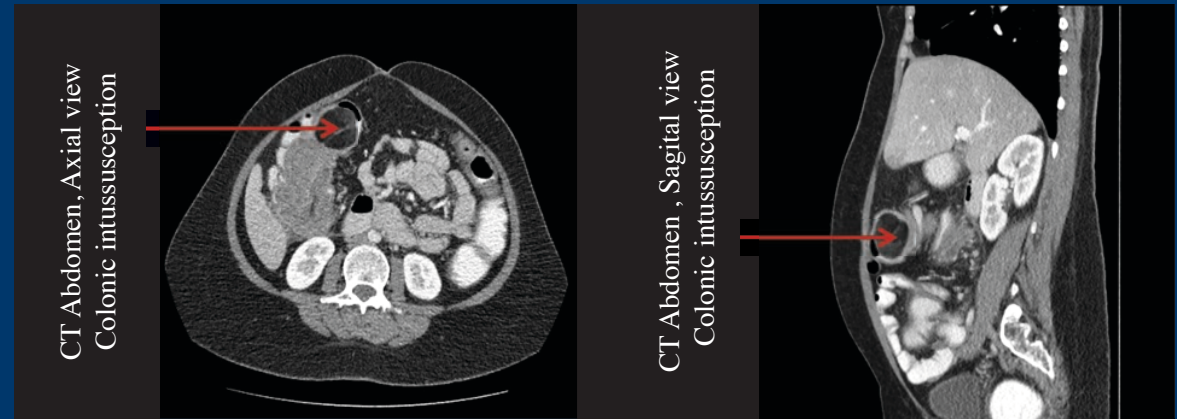
What is intussusception? - Intussusception is a condition that can cause severe stomach pain. It happens when one part of the intestine slides into another part of the intestine. Intussusception can happen with either the small or large intestine i.e. it is telescoping of one segment of the gastrointestinal tract into an adjacent one. Intussusception happens most often in babies and children, especially those younger than 3 years old. In some cases, intussusception is caused by another medical condition. But in most cases, doctors don't know what caused the intussusception.



Dr. Taher Helmy
*Consultant General Surgery and
Endoscopy*

This condition is uncommon in adults, with two to three cases occurring in a population of 1,000,000 per annum and accounts for less than 0.1% of all adult hospital admissions. The diagnosis in adults is usually made at laparotomy, as most patients present as an emergency with intestinal obstruction. In non-emergency patients the diagnosis can be challenging as symptoms include intermittent abdominal pain that often settles comparatively quickly. Clinical examination and investigations are often negative and these patients will probably be labelled as having irritable bowel syndrome.

When one part of the intestine slides into another, it causes a blockage. When the intestine is blocked, air, fluid, and food get stuck. They can't move through the intestine the way they normally would. This causes symptoms. Intussusception in adults is an infrequent problem. The diagnosis of this condition can be difficult as symptoms are often non-specific and episodic.



It is important to have a high index of suspicion. The most useful investigation is abdominal computed tomography. Treatment requires resection of the involved bowel without attempted reduction in colonic lesions and in small bowel cases where the bowel is non-viable or where malignancy is suspected.

09 *Laboratory Department CAP Accreditation Inspection*

Our laboratory is fully ready for the College of American Pathologists (CAP) accreditation inspection. The application was already submitted last September and we are waiting for their visit. The laboratory completed all the requirements needed for this accreditation which includes: CAP proficiency testing enrollment, CAP checklists, Instruments validation, documentations (Policies & procedures) and staff training.

With more than 18,100 members, the College of American Pathologists (CAP), headquartered in Northfield, Illinois, is the world's largest association composed exclusively of board-certified pathologists certified by the American Board of Pathology, the Royal College of Physicians and Surgeons of Canada, the American Osteopathic Board of Pathology, or other certifying body approved by the CAP Board of Governors, and pathologists-in-training. It is widely considered the leader in laboratory quality assurance and advocates for high-quality and cost-effective medical care.

The CAP Laboratory Accreditation Program is an internationally recognized program and the only one of its kind to utilize teams of practicing laboratory professionals as inspectors. During the accreditation process, inspectors examine the clinical laboratory's records and quality control procedures, as well as the laboratory's equipment, facilities, safety program and overall laboratory management to ensure it meets CAP's stringent requirements. The goal of the CAP program is to improve patient safety by advancing the quality of pathology and laboratory services through education and rigorous standards, which meet or exceed regulatory requirements. The program is also recognized by the Joint Commission.

In addition, more than 20,000 laboratories are enrolled in the CAP's Proficiency Testing/External Quality Assurance (EQA) or "Surveys" program. With more than 600 Surveys, the CAP's PT/EQA program is the largest laboratory peer-comparison program in the world. It allows laboratories to

evaluate their performance regularly and improve the accuracy of the patient results they provide. Through these programs, the CAP provides individual laboratories with unknown specimens for testing. The participants analyze the specimens and return the results to the CAP for evaluation. Then, each participating laboratory receives a report of its performance as well as a report summarizing the results of all participating laboratories. Attached our 2016 CAP Proficiency Testing certificate.



Dr. Mubarak Al-Faresi

Head of Laboratory and Pathology

Medicine

10

Whole Genome Circular Representation of a Pan Drug Resistant *Klebsiella pneumoniae*

Dr. Mubarak Al Faresi

Head of Laboratory and Pathology Medicine

This is a whole genome sequence for the full chromosome of a pan drug resistant *Klebsiella pneumoniae* strain which is resistant to all commercially available antibiotics isolated in our laboratory.

A complete account of a pan drug-resistant CRE at a genomic level and the entire location map of all antibiotic resistance components are presented here. Additionally, this work proposes a model of pan drug-resistance acquisition in Enterobacteriaceae Circles display (from the outside):

1. (1) GC percent deviation (GC window - mean GC) in a 1000-bp window.
2. (2) Predicted CDSs transcribed in the clockwise direction.
3. (3) Predicted CDSs transcribed in the counter clockwise direction.
4. (4) GC skew (G+C/G-C) in a 1000-bp window.
5. (5) rRNA (blue), tRNA (green), misc_RNA (orange), Transposable elements (pink) and pseudogenes (grey).

This work shows the high prevalence rates of this kind of pan drug-resistant bacteria in the area and the needs of establishing new strategies to control it. One method is to control this kind of bacteria to establish the Antibiotic stewardship program in the hospital which is already established in our hospital.



Genes displayed in (2) and (3) are color-coded according to different categories:

- red and blue: MaGe validated annotations
- orange: MicroScope automatic annotation with a reference genome
- purple: Primary/Automatic annotations.

The Neurosurgery Department in SKGH-UAQ perform spine surgeries routinely and some of these surgical procedures are considered as advanced and complicated cases requiring use of advanced technology and latest implants.

We chose the following cases:

- Case I: Middle aged gentleman was admitted to ED due to severe trauma to back which caused burst fracture of body of first lumbar vertebra with severe spinal cord compression resulting into bilateral lower complete limb paralysis. After primary management and stabilization this patient shifted to the operation theatre. The neurosurgery team performed 'thoracolumbar pedicular screw fixation and decompressive laminectomy'. Subsequently the patient started moving his lower limbs and gradually started walking with support... the smile returned to him and his family.
- Case II: Had fall from height causing trauma

to back and severe burst fracture of first lumbar vertebra (similar to first case) and associated with partial paralysis of both lower limbs. He underwent 'thoracolumbar pedicular screw fixation and decompressive laminectomy surgery'. This patient started walking with support 3 days after surgery and he was so happy with his progress.

- Case III: Middle age lady who had undergone 2 previous lumbar spine surgeries outside for chronic backache and had minimal improvement was admitted in SKGH. She had persistent pain and neurological deficit (weakness in lower limbs with difficulty in walking). She was assessed by Neurosurgery Department and subjected for advanced radiological investigation including spiral CT-scan and high quality MRI. This revealed presence of spinal cord tumor and misalignment of one of pedicular screws compressing the nerve root. This was challenging



Dr. Al-Mutasim Bellah
Specialist Neurosurgery
Iraqi Board

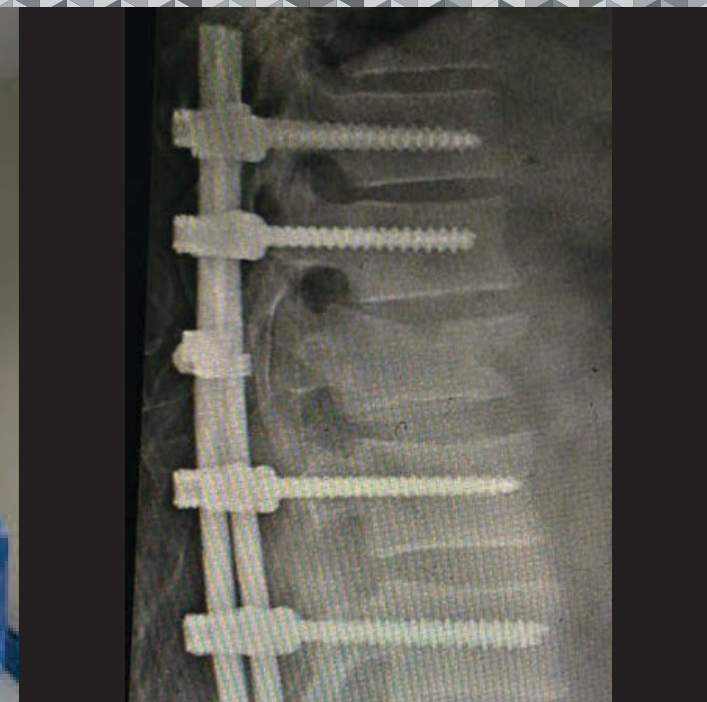
for the neurosurgery team in this third 'revision surgery to clear all the adhesions, removal of malpositioned screw, and excision of the intradural cauda equina tumor'. This procedure continued for about 8 hours. Patient had smooth post-operative period, she was relieved from

the pain after long time and became cheerful in nature. In her recent follow-up – she is totally symptom-free and happy.

- Case IV: Adult man suffered from cervicalgia and right upper limb radiculopathy for a long time which disturbed his work. He recieved cervical spine MRI which revealed presence of large cervical disc prolapse .The neurosurgery team in SKGH -UAQ performed ‘anterior cervical discectomy and fusion using the artificial disc’. After surgery the patient improved steadily and became pain-free before discharge and he returned back to work.

There are many neurosurgical operations done in SKGH-UAQ and these are a few examples.

All above-mentioned patients were so thankful to the staff in SKGH-UAQ and MOPA who offered these medical and health services and they prayed for Sheikh Khalifa Bin Zayed Al Nahyan; the President of the United Arab Emirates and



his Brothers the Presidents of Emirates.

Lastly we are so happy to say that the Neurosurgery Department in SKGH-UAQ included highly qualified medical staff of surgeons as Dr. Sanjay Pawar (consultant neurosurgeon) and Dr. Al-

Mutasim Bellah (specialist neurosurgeon) who are ready to receive cases regarding brain, spinal-cord, spine, and peripheral nerves for all age groups to utilize the knowledge and the expertise for the improvement of the patients.

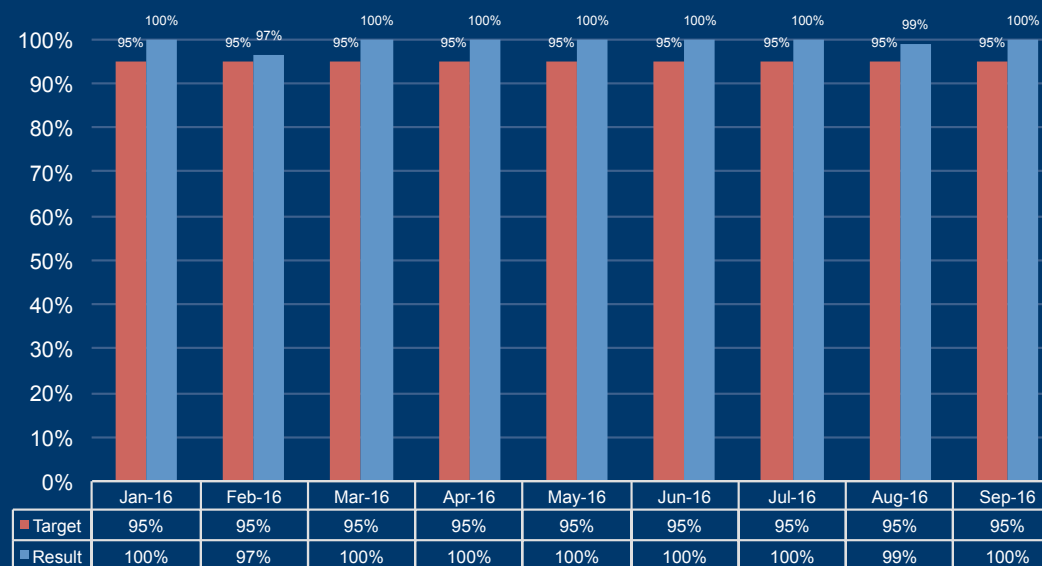
12 KPI Performance Measures - The Key to Safety is in Your Hands

Sheikh Khalifa General Hospital is proud of the quality of healthcare it provides and its outcome data. As a part of ongoing commitment to quality standards our KPI performance was scored 93.20% for Q2,2016 .This was our highest performance achieved since the hospital opened.

Infection, Prevention & Control:

The Hospital has in place robust infection surveillance systems, a comprehensive programme of audit and ongoing training of staff at all levels in infection prevention and control. Our entire infection control procedures are embedded throughout our hospital; in every ward, team and service which are supervised and reinforced by our experienced and dedicated Infection Control Team with dedicated link staff in each Department. Central line associated blood stream infection rate for Q2, 2016 (April, May, June) was 0 per 1000 device days, Ventilator associated infection rate was 0 per 1000 device days and

High-Alert Medication



Cather associated infection rate was 0 per 1000 device days.

Medication Safety:

Medications are among the most frequently used interventions to improve patient health. Since medication systems involves multidisciplinary team and are complex, comprehensive medication program in place has helped to achieve 100% compliance in medication safety KPI.

- Medication error and near miss reporting - 100%.

- Floor stock medication compliance 100%.
- Annual medication management system review - 100%.
- High alert medications compliance.

All these principles have a common denominator - they require the leadership and commitment of Senior Executives, Medical, Nursing, and Clinical staff to create a culture for continuous quality improvement.



13

SKGH Emergency Department: Enhancing Quality through Education

Since earlier this year the Emergency Department has been concentrating on improving the Quality of its service through a stimulating and challenging educational program. This program was put together by the Emergency Department HoD Dr. Naeem Toosy and ED Specialist Dr. Talal Mouzaek. Due to shift working and the 24/7 nature of ED work, it is always challenging to get sufficient people to attend these events and in this regard we came up with the idea of a combined socio-educational day in order to not only keep up-to-date with the scientific developments in the field of emergencies but also to enhance cooperation, understanding and team-work among the team and give everyone an opportunity to relieve pressure from the workplace.

In order to enhance participation, initial events were held on a monthly basis. Topics covered included the differential diagnosis of Chest Pain by Dr. Hussameldein and an update on the treatment of Paracetamol overdose by Dr. Rasheed Taha.

We have also invited other Departments

to organize workshops in relevant topics including Ischaemic Heart disease with Dr. Abbas from Cardiology; which coincided with the launch of the SKGH Primary PCI transfer pathway for patients with Myocardial Infarction.

One of the other ED Specialists Dr. Amany and Consultant Dr. Naeem from the ED have also been very active in the hospital-wide weekly lunchtime CME program delivering talks on Resuscitative Thoracotomy, Journal Club, Anaphylaxis and Pulmonary Embolism among others.

Since Ramadan we have also organized a combined Nurse-Doctor ED meeting to review interesting cases. Further workshops are planned in Paediatric Emergencies and Trauma Skills (in cooperation with other departments) in the future.

We hope that this ambitious program will add to the knowledge and skills of all our doctors and will ensure a happy Department that provides all the patients with the best health case.

14

Women and Family Health Activities at SKGH



Sheikh Khalifa General Hospital serves both local and expat residents by offering highly qualified Health Care that follows the International Standards to achieve the vision of his Highness Sheikh Khalifa Bin Zayed Al Nahyan, the president of UAE (May God bless him).

In September 2015 the world's leaders committed to 17 goals, the Sustainable Development Goals which aimed at ending poverty, protecting the planet and ensuring prosperity. We all have a part to play in achieving these goals by 2030 and we wish our leaders from Umm Al Quwain to take a leading role with the implementation of the National Goals.

On 28 and 29 September Sheikh Khalifa General Hospital focused on three National Goals, Good Health and well-being, Life below Water and Life on Land.

The health Days that organized at Sheikh Khalifa General Hospital focused on the international health themes in August which are: Gynecological Health, Eye care and world Heart Day and introduced health information with regards to Gynecology Health, Eye Care Awareness and World Heart Day.

The activities also included free checkup for women like blood pressure, blood sugar, cholesterol test, plus health information about diet and exercise, skin care and other services related to women's health during pregnancy. In addition to awareness lecture entitled "Mangroves from the Water" to spread awareness about beauty and the importance of mangroves as a haven for fish, birds and other mammals. The UAQ mangroves forests are also efficient carbon reducers which are vital for the ecology of the planet, and each person should take the responsibility to protect them in order to have more safe and clean environment.

15 *Continuous Medical Education Program*

The Clinical Education Department presents clinical education that can help SKGH staff overcome challenges facing patient care in a continuous manner.

These clinically relevant courses have been developed to improve SKGH staff skills, keep professionals updated with changes in medical sciences generally in areas relevant to clinical practice, and ultimately patient care.

These Clinical Education courses, workshops, and symposiums provide all healthcare providers with an opportunity to receive the continuing education credits required for certification and licensure and can help them to meet regulatory requirements.

Weekly clinical education takes place in multipurpose conference room every Wednesday from 13:00 to 14:00.

clinicaleducation@skgh.ae



16

Airway Management- Beyond basic' at SKGH

On the 1st October 2016, Airway Management- Beyond basic' was conducted in Sheikh Khalifa General Hospital, Umm Al Quwain.

It was attended by 55 delegates from all the different emirates making it a national course. The course aimed to provide a strong foundation to provide necessary skills to manage airway in different clinical scenarios. Candidates from all areas of medicine across different specialties capitalized on the sessions offered by the whole day course.

Dr. Yasser Zaghloul, consultant in Anesthesia and Intensive care SKMC, Abu Dhabi, the course director and Dr. Neama Gado, specialist anesthetist SKGH, the course coordinator, delivered their own lectures. Invited speakers included eminent consultants and experts in the field of airway management. There were sessions by Dr. Vladislav Firago, Consultant Anesthetist and head of the Department, SKGH, Dr.

Michael Razmy, consultant anesthetist in Fujairah Hospital and Dr. Sheebeen Hamza, consultant anesthetist, SKGH.

The afternoon sessions focused to equip the candidates with necessary hand-on-skills to deal with airway management scenarios in their everyday clinical practice. The candidates had training to use different equipment across the whole spectrum of devices used to manage airway on high fidelity mannequins. Dr. Kishan, Dr. Fady and Dr. Mai, specialist anesthetists from SKGH, joined the speakers from the morning sessions to guide the candidates across different skill stations. The faculty highlighted the importance of teamwork, over individual skills, as the chief determinant of successful outcomes.

Formal feedbacks from the candidates have been very supportive and encouraging. Most of them felt more informed and better advised of managing airway after the course.



17 *Breast Imaging Symposium*



SKGH Radiology Department organized breast imaging symposium during the month of October, which is Breast Awareness Cancer month.

The symposium was conducted on the 29th of October at the multipurpose hall of SKGH hospital. It was a remarkable half day event which gathered participants from multidisciplinary areas. The presenters were from SKGH Radiology and Gynecology Departments, SKMC and Fuji Middle East & Africa. The lectures which were delivered topics of Quality in Mammography Reporting, Latest polices and regulations in diagnosing Breast Cancer, Clinical Risk Factors and Screening Modality choice and Quality Control procedures in Digital Mammography.

The event was credited with 4 CPD points from MOH and 62 attendees attended from different healthcare organizations across UAE. The attendees gave very positive feedback and spoke highly on the quality and level of information delivered and the organized event.



On the 9th of Nov 2016 Sheikh Khalifa General Hospital in line with the international initiative to eradicate polio all around the world, SKGH organized an awareness lecture entitled “Poliomyelitis Eradication” which was presented by Dr. Mohammed Zahran from the Department of Preventive Medicine from Ministry of Health.

Where more than eighty participants from physicians, nursing staff and technicians from various Departments of medical and health sciences attended the lecture.

For this purpose Dr. Mohammed Zahran focused on the role of pediatricians and public health awareness and health education in all regards to prevent and eradicate polio all around the world.

At the end of the lecture the Department of Clinical Education and Training thanked Dr. Mohamed Zahran for sharing such an informative lecture and Dr. Rafi Alnjadat stressed the depth of the relationship and cooperation between Sheikh Khalifa general Hospital and the Ministry of Health in all areas and levels.



Appreciation Photo

From left:

Dr. Mohammed Zahran

Dr. Salem Omar

Dr. Alaa Jawad



19 *Accreditation of Sheikh Khalifa General Hospital as a Training Center on CPR Skills*

On the 4th of August, Ms. Zehra Al-Hilali, Territory Director, Middle East and North Africa (MENA) International Emergency Cardiovascular Care, American Heart Association (AHA) had a site visit at SKGH.

The visit was in line with the process of the AHA affiliation that requires a site visit to the institute applying for a Training Center status.

As a result of the visit to the hospital, Sheikh Khalifa General Hospital was accredited as a training center on basic life support in line with American Heart Association Standard.

20 *The Super Foods: Antioxidants & Probiotics*

The best way to stay healthy is to eat a wide variety of nutrient-rich foods that help in lowering risk of certain diseases. Antioxidants and Probiotics are the super foods that benefit the body in different ways.

Antioxidants are molecules that fight damage by free radicals. They play an important role in the management or prevention of some medical conditions, such as some cancers, Alzheimer's disease, and some arthritis-related conditions. In addition to that, consuming antioxidant rich foods can promote healthy glowing skin, slower aging, and support detoxification.

Antioxidants are found in many foods, including fruits and vegetables as well as dietary supplements. As per the new studies, it is advisable to have antioxidants from a dietary approach rather than from supplements.

Some antioxidants rich foods are: Grapes, Berries (red and blue), Goji Berries,

Cranberries, Nuts, Kale, Sweet Potatoes, Dark Chocolates, Beans, Artichoke, and Plums.

Whereas, Probiotics are live bacteria that are good for the digestive system, immune system and nutrient absorption. They are often called "good" or "helpful" bacteria because they treat some common conditions such as Irritable bowel syndrome, Inflammatory Bowel Disease (IBD), Infectious Diarrhea (caused by viruses, bacteria, or parasites) and Antibiotic-related Diarrhea. Additionally, they have other powerful health benefits such as enhancing strong immune

system, healthier skin and reduce cold and flu. Probiotics are naturally found in the body yet we can still find them in some foods and supplements.

Some probiotics rich foods are: Yoghurt and Kefir (made by fermenting goat, cow or sheep's milk with kefir grains).

At last, it's time to start adding these super foods to your daily diet in order to enjoy all of their health benefits for a better health.



21 *Breast Cancer Month*

On the occasion of Breast Cancer Month in October, Government & Public Relations team distributed awareness flyers and mini pink cupcakes plus 500 pink roses to employees and patients around the hospital.

The distribution covered the clinics of obstetrics & Gynecology, Pediatrics, and some other clinics.

The health of our patients is our concern and we always remind them

“The Early Protection is Early Detection”.



22 *Quadruplet at SKGH*

Quadruplet 29 weeks, delivered at Sheik Khalifa General Hospital Umm Al Quwain. It was great pleasure to look after the 4 babies in our neonatal intensive care.

Thanks to our neonatal team from doctors and hardworking neonatal nurses for the excellent care that given to these babies.



23 *International Emergency Nurse Week*

On the occasion of International Emergency Week Sheikh Khalifa General Hospital organized a celebration that was attended by Chief Nursing Officer and administrative staff at the hospital.

The celebration started with a speech from the Chief Nursing Officer Mr. Hussam Al-Nusair in which he appreciated the great role of nurses in general and the nursing staff at the hospital in taking care of patients.

Also Mr. Hussam honored nursing staff in the Emergency Department, because of their high contribution to raise the level of emergency medical services.

This appreciation was to greet and thank the great professional work of emergency nurses in providing patients with the highest levels of best health care services.



24 *Visits*

In early August the CMO Dr. Zuhair Afaneh and Emergency Department head Dr. Naeem Toosy and Senior Charge Nurse Caitriona Chew visited NMC Royal in Abu Dhabi. The morning was spent studying the flow process, staffing and distribution of this newly opened state-of-art hospital. We gained a few insights into ideas we might implement at our Emergency Department at SKGH-UAQ that would enhance patient experience, quality and safety.



Visit on Eid - Al Adha Holiday

In terms of patient happiness and bringing joy to their hearts, as well as the staff's,

On Eid al-Adha holiday, Mrs. Resa Interim Chief Executive Officer of the hospital, and Dr. Abdulqadir Al Zarooni head of Surgery Departments visited shift staff and inpatients at SKGH to congratulate them on Eid al-Adha and distribute roses and that has a great positive impact on the hearts of both patients and staff.

Sheikh Khalifa General Hospital continuously organizes visits to patients for building more communication with them.

-30-

Red Crescent initiative to draw happiness on patients' faces



Employee of month - Nurse Leah Llera from Intensive Care Unit



25 *SKGH Celebrates Flag Day, National Day
and Commemoration Day*



TO

Sheikh Khalifa General Hospital/ UAQ

I was presented to Shaikh Khalifa General Hospital on 24th April 2016 at night, due to heavy object fell on my body, this trauma caused many injuries.

1: Chest injury

2: spinal cord injury

Both of mine injuries required surgeries. Especially spinal cord injury need screw fixation. Spine surgery was very difficult, when I came to hospital I could not walk even I could not move my both legs, I felt I will be never back on my feet, But after meeting with Dr. Al Mutasim Bellah neurosurgeon. Got some hope. He planned and proceed my spine surgery. After surgery I felt much better, no pain, and I feel my leg in better moment. After 3 months I started walking with support. And after six months I am completely walking normally, I can drive my car, and back to my job and daily life.

I appreciated Dr Mutasim Bellah, Dr Azam Yousef, Mr.Asad Afridi and SKGH nurses for their jobs. And very special thanks to them.

Many thanks from my family side to all above and to Sheikh Khalifa General Hospital for best treatment done by doctors and all other staff.

May Allah bless you all.

Many Thanks

Ghulam Rasool (Patient name)

26

Appreciation Letters



27

Sheikh Khalifa General Hospital is accepting the following insurance:

