Health Care in Saudi Arabia

Saudi Arabia's quest to establish a modern healthcare system that provides the best healthcare possible for all of its citizens began in 1970 with the launch of its first long-range plan.(1)
Health Care in Saudi Arabia

In March 1992 the constitution of the Kingdom of Saudi Arabia declared that the state is to guarantee and ensure that healthcare is provided to all citizens.(1)
Health Care in Saudi Arabia

- The healthcare is provided mainly by the Ministry of Health.(1)
- However’ it is shared with other autonomous government agencies
  - Armed Forces health services
  - Security Forces health services
  - National Guard health services
  - University hospitals
  - Royal commission of the industrial cities Jubail and Yanboo
  - King Faisal Specialist Hospital and Research Center
  - private sector.(1)
Neurosurgery in Saudi Arabia

- Neurosurgical practice in Saudi Arabia had progressed over the past 30 years to reach internationally recognized high standards. (1)

- Currently the total estimated number of neurosurgeons is 382, including 156 in the Ministry of Health, 163 in other governmental health facilities and 63 in the private sector. (1)
Neurosurgery in Saudi Arabia

- Neurosurgeons providing tertiary care are concentrated in three major areas:
  - Riyadh in the central region.
  - Jeddah, Mecca and Medina in the west.
  - Dammam and Alkhobar in the east.
<table>
<thead>
<tr>
<th>Population</th>
<th>27,345,986</th>
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<td>note:</td>
<td>immigrants make up more than 30% of the total population, according to UN data (2013) (July 2014 est.)</td>
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<th>Age structure</th>
<th>0-14 years: 27.6% (male 3,869,961/female 3,681,616)</th>
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<td>15-24 years: 19.3% (male 2,832,538/female 2,458,339)</td>
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<td>25-54 years: 45.4% (male 7,086,004/female 5,323,373)</td>
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<td>55-64 years: 4.5% (male 674,571/female 555,136)</td>
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<td>65 years and over: 3.2% (male 444,302/female 420,146) (2014 est.)</td>
</tr>
</tbody>
</table>
Our Pioneers

• John L. Fox MD, chairman
• Ossama Al-Mefty MD, consultant
• Established Neurosciences department at King Faisal Specialist Hospital and Research Centre between 1982-86
King Faisal Specialist Hospital and Research Center
Department of Neurosciences 1984

Osama AlMefty (Staff NSx)
Neurosurgery, Psychiatry, Neuroradiology, Anesthesia, Endocrinology, ENT, Ophthalmology

Joh Fox
Neurosurgeon & Chairman of Neurosciences

Maher Hassounah (Resident NSx)

Refaat Bashir
Neurology

Zuhair Alkawi
Neurology

( NSx Resident Staff)
Our Pioneers

• Professor John Gillingham CBE, MBE(Mil), FRSE, FRCSEng, FRCSEdEdin, FRCPEdEdin, MD(Hon), Thessaloniki, FRACS(Hon), FRCSI(Hon), FCMSA(Hon), FRCPGLas (Hon), FRSA

• Professor of Neurosurgery at King Saud University, Saudi Arabia, 1983-85
Our Pioneers

• Professor Kalaf Almutairi
• German Specialty Board in Neurosurgery (Hannover University, Germany), 1983
• Consultant Neurosurgery at Riyadh Armed Forces Hospital, 1983
Our Pioneers

• Professor Zain Jamjoom
• MBBS(Germany), 1984  German Specialty Board in Neurosurgery (University Medical Center, Essen, Germany)
• Professor & Consultant Neurosurgeon
• King Saud University, Riyadh, Saudi Arabia (1985-2014)
Our Pioneers

• Professor Imad N. Kanaan, MD, FACS, FRCS, Ed.
• Neurosurgery consultant
• King faisal Specialist Hospital and research center(1986)
Our Pioneers

- Dr. Maher Hassounah, FRCSC
- Neurosurgery consultant,
- King Faisal Specialist Hospital and research center.
- Since 1990
- Special interest in pediatric neurosurgery.
Our Pioneers

- MBChB, DMSc, FICS, FACS, FAAANS
- Professor Ahmed Ammar
- Started pediatric neurosurgery practice in 1987 at King Fahad University Hospital in Dammam.
- University of Dammam: since 2008.
Postgraduate Medical Education

• Many newly graduate medical student were sent abroad for scholarships in many countries around the world.

• In the 80s medical schools around Saudi Arabia started to initiate local residency programs in collaboration between university hospitals and near by tertiary care facility.
Postgraduate Medical Education

• In 1983 Saudi Commission for Health Specialties (SCHS) was established as the medical training and licensing authority.(1)

• It adopted all the local hospital/university based residency training programs around Saudi Arabia. Aiming to unify and standardize the process of post graduate medical education.(1)

• By 1993 it managed to adopt all the training programs in Saudi Arabia.(1)
Neurosurgery residency training program started as early as 1987 which was a fruitful collaboration between King Faisal Specialist Hospital and Research Center, King Faisal University and the Armed Forces Hospital. (1)
Neurosurgery Residency Training Program

• In 1992 Saudi Council for Health Specialties (SCHS) approved the formation of Saudi residency training program in neurological surgery. (1)
Pediatric Neurosurgery in Saudi Arabia

- Professor Waleed Murshid MB BS, FRCSEd, FRCSEd(SN), FACS, FICS, EAPN Dip.
- Consultant Neurosurgery at King Khalid University Hospital (1992-2004)
- Established the practice of pediatric neurosurgery at King Khalid University Hospital, Riyadh
Pediatric Neurosurgery in Saudi Arabia

• Professor Essam Elgamel
  MBBCh. M.S. FRCSEd, FRCS(SN).

• Consultant Neurosurgery at
  King Khalid University Hospital
  (2003-2013)
Pediatric Neurosurgery in Saudi Arabia

- Professor Saleh Baeesa, FRCSC
- Pediatric fellowship, Canada
- Consultant Neurosurgery at King Abdulaziz University Hospital, Jeddah
- 1998
Pediatric Neurosurgery in Saudi Arabia

- Dr. Ali Bin Salamah
- Neurosurgery training in France
- Consultant Neurosurgery and Head Department of Neurosurgery King Saud Medical City since 1997
- Special interest in pediatric neurosurgery
Pediatric Neurosurgery in Saudi Arabia

- Dr. Essam Abdulaziz Al Shail, M.B.B.S., M.D.
- Pediatric neurosurgery fellowship at the Hospital for sick children, University of Toronto 1997.
- Fellowship at the craniofacial program at Hospital for sick children, University of Toronto 1998.
- Consultant Neurosurgery at King Faisal Specialist Hospital and Research Center 1998.
Pediatric Neurosurgery Fellowship

• The first pediatric neurosurgery fellowship program in Saudi Arabia was established in King Faisal Specialist Hospital and Research Centre on Jan 2000.(4)

• The main objective was to provide specialized care to children with complicated neurosurgical disease. This will help to establish a center of excellence and will be a resource for consultations and second opinion via teleconferencing.(4)
Pediatric Neurosurgery Fellowship

• It was established in 2002 by King Faisal Specialist Hospital and Research Centre.

• It was designed to be a two year structure program in which the fellow will have to do rotations in related specialties such as pediatric neurology intensive care and revisit some pathology and radiology training.
Pediatric Neurosurgery Fellowship

- 3 fellows were trained and graduated from this fellowship program
• Dr. Essa Abdulgani
• Fellowship in Pediatric Neurosurgery at KFSH
• Supervised by Dr. Essam Alshail
• 2004
• Consultant Pediatric Neurosurgery at Dammam central Hospital
Pediatric Neurosurgery Fellowship

• In 2008 the Saudi Commission for Health Specialties stopped recognizing hospital based fellowship programs.(4)

• As a result, a request was submitted by Dr. Essam ALshail for establishing national pediatric neurosurgery fellowship.(4)
Pediatric Neurosurgery Fellowship

• It took about 5 years, however, we have now national pediatric neurosurgery fellowship which is approved by Saudi Commission for Health Specialties (SCHS)

• Our first fellow started his training in July 2015
Pediatric Neurosurgery Fellowship

Objectives
The aim of the Pediatric Neurosurgery Fellowship program is to provide a well-qualified pediatric neurosurgeon, who is capable of looking after children with neurosurgical problems. The Fellow will gain the required expertise in this field by spending enough time in one or more well staffed and equipped centers to allow him/her to develop appropriate competence in the period suggested.
Pediatric Neurosurgery Fellowship

Objectives
To acquire the required knowledge, skills professional judgment and attitudes needed to practice and teach Pediatric Neurosurgery, and to participate in the progress of pediatric Neurosurgery through research and publication
Pediatric Neurosurgery Fellowship

• The program is 2 years
• 4 Rotations (6 months each)
• The plan is to have the Pediatric Neurosurgery Fellow Rotate in The main Neurosurgery centers in Riyadh.
• There is a near Future plan to include other centers outside of Riyadh.
King Fahad Medical City

Brain Suit
Pediatric Neurosurgery Consultants

- Dr. Maqsood Ahmad (2004)

- Dr. Ayman Albayan, FRCSC, (2005)

- Dr. Abdulrahman Sabbagh, FRCSC (2007)
King Abdulla Specialized Children Hospital (2015)
King Abdulla Specialized Children Hospital

• Dr. Moutasem AlZoubi
  Arab Board in Neurosurgery, Pediatric Neurosurgery (Canada)
  King Abdulla Specialized Children Hospital (2010)

• Dr. Sarmad Al-Karawi
  FIBNS, MRCSI Ireland, Pediatric Neurosurgery (Canada)
  King Abdulla Specialized Children Hospital (2015)
Prince Sultan Military Hospital

- Dr. Mohammad Hamoud FRCSC
- Pediatric Neurosurgery Fellowship at McGill University, Canada, 2006
- Consultant Neurosurgery at Prince Sultan Military Hospital
King Khalid University Hospital
Abha City

- Dr. Ibrahim Alnaami, FRCSC
- Pediatric Neurosurgery Fellowship, Canada
- Consultant Pediatric Neurosurgery at King Khalid University Hospital, Abha
- 2013
References

1. Imad N Kanaan AANS Neurosurgeon: Issue - 18(1), 2009
3. http://www.indexmundi.com/saudi_arabia/demographics_profile.html
Acknowledgment

• Dr. Essam Alshail
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• Prof. Waleed Murshid
• Prof. Ahmad Ammar
• Dr. Essa Abdulgani
• Dr. Ali Bin Salamah
Thank You