

# SANS NEWSLETTER



ISSUE 1 FEBRUARY, 2020

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The purpose of SANS newsletter is to provide specialized information to the medical audience, and share pulses of neurosurgical knowledge

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## Letter from the Editor-in-Chief

**To all my dear colleagues and friends,**



I am delighted to invite you to **SANS Newsletter**. The broad aim of this newsletter is to advance the science of neurological surgery and enhance patient's safety.

As Editor-in-Chief, I welcome manuscripts on the field of Neurological Surgery and related sciences. We can all share our ideas and visions to create the best practice for us all.

We are delighted that you are joining us as readers, and hope you will also join us as contributors.

**DR. KHALID M. ALI SIDDIQUI**

Consultant Neurosurgeon  
American Board and Fellow of Royal  
College of Canada for Neurosurgery  
John Hopkins Aramco Healthcare  
Dhahran, Kingdom of Saudi Arabia

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## OUR STORY

In the mid-eighties of the last century, there was such a tiny number of Saudi neurosurgeons. However, This number jumped to some thirty surgeons in the various regions of the Kingdom. Due to this increase, the prevailing belief was that Saudi neurosurgeons need to join together , seek fulfilment of common needs and compare results to improve the neurological surgery outcomes. The absence of a clear regulation in the Kingdom that governs the establishment of scientific societies alongside with the small number of Saudi doctors working in the field of neuroscience

were the main obstacles to establish such a scientific society. However, the year of 2000/1421 was the transformational year which witnessed the momentous birth of rules governing the formation of Scientific Societies in Saudi Universities. King Saud University in Riyadh was the perfect spot because the majority of the Saudi neurosurgeons were in that region. The approval to establish the Saudi Association of Neurological Surgery was granted in 1427H (2007). The main office for the association is located in the Faculty of Medicine at King Saud University in Riyadh.

*The main office for the association is located in the Faculty of Medicine at King Saud University in Riyadh.*

**The first annual meeting of the Saudi Association of Neurological Surgery was held at Marriott Hotel, Riyadh on 19th April ,2007.**

**69 neurosurgeons and others working in the field of neurosurgery registered as :**

- Full members (52)
- Associate members (17)



## EXECUTIVE BOARD

The **Executive Board** Consists of nine staff members who are selected by secret ballot by the General Assembly over a period of 3 years.

**The Executive Board is responsible for the following:**

1. Proposal of the Association's budget
2. Preparation of the agenda of the General Assembly meetings.
3. Proposing the general policy of the Association within the framework of the objectives stated in these rules, and presenting them to the General Assembly for approval.
4. Proposing the internal rules of the Association and the organization of its work.
5. Formation of committees and specialized groups to carry out Association functions and activities.
6. Preparing the annual report about the Association's activity and submitting it to the relevant councils in the university after its approval by the General Assembly.
7. Determining the annual fee of the members
8. Approval of holding of conferences, courses and seminars in accordance with the relevant regulations adopted by the universities.

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*The General assembly is composed of the active (full) members. It holds a regular meeting once a year at the invitation of Chairman of the Board.*

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<b>Dr. Amro Al-Habib</b> President	<b>Dr. Abdulrazag Ajlan</b> Vice-President	<b>Dr. Hosam Al Jehani</b> Secretary General
<b>Dr. Ali Bin Salamah</b> Treasurer	<b>Dr. Husam Al Habib</b> Member	<b>Dr. Ibrahim Al Naami</b> Member
<b>Dr. Khalid Siddiqui</b> Member	<b>Dr. Salah Al Akkad</b> Member	<b>Dr. Abdulwahed Barnawi</b> Member

## COMMITTEES



**SANS ACADEMY  
( EDUCATIONAL COMMITTEE )**

**Dr. Husam Al Habib**



**RESEARCH AND PUBLIC  
EDUCATION COMMITTEE**

**Dr. Ibrahim Al Naami**



**CLINICAL COMMITTEE**

**Dr. Abdulwahed Barnawi**



**FUND RAISING COMMITTEE**

**Dr. Khalid Siddiqui**

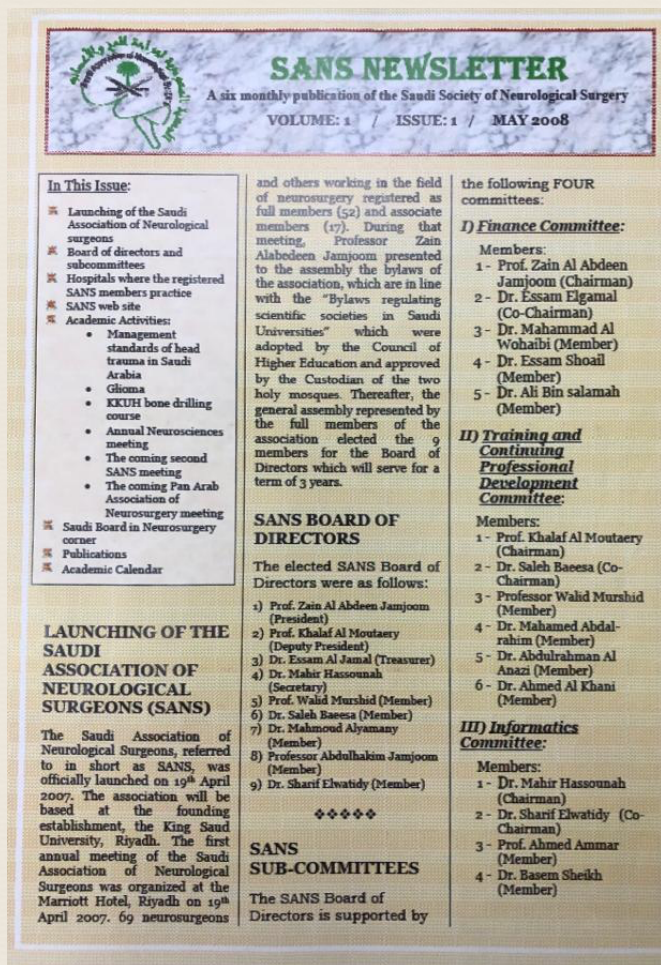
## Objectives of the Association

- 1 Development of scientific thought in the field of neurosurgery and working on its activation, dissemination and advancement.
- 2 To facilitate scientific and professional communication among members of the Association.
- 3 Advancement of scientific and professional performance of the association members.
- 4 Determining the standards specific for the practice of the profession of neurosurgery in the Kingdom and participating in monitoring its performance and maintaining its level.
- 5 Raising the level of health awareness in the community in the field of neurosurgery.

# FROM ARCHIVE

## OUR FIRST EDITION OF SANS NEWSLETTER, 2008

# SANS NEWSLETTER



The first edition of SANS NEWSLETTER was established by Prof. Zain Alabedeen Jamjoom in 2008. Prof. Abdulhakim Jamjoom was the editor of the published issue.

This newsletter aimed to improve the communication within the neurosurgical community, and inform the medical audience about SANS activities. To further his mission, we recreate the newsletter.

SANS NEWSLETTER  
BY DR. ZAIN ALABEEDEN JAMJOOM  
2008

## SANS HIGHLIGHTS

**SANS** Annual Meetings are the largest neurosurgery meetings in the Middle East and the largest in the region. These meetings aim at enhancing the knowledge and expertise in order to provide a safe patient care.

### SANS Annual Meetings

## 2014

8th SANS Annual Meeting  
600 Attendees  
Riyadh

## 2016

10th SANS Annual Meeting  
1183 Attendees  
Riyadh

## 2018

12th SANS Annual Meeting  
542 Attendees  
Jeddah

## 2015

9th SANS Annual Meeting  
1062 Attendees  
Dammam

## 2017

11th SANS Annual Meeting  
884 Attendees  
Riyadh

## 2019

13th SANS Annual Meeting  
667 Attendees  
Dammam

Educational Activities Conducted  
during the period of **2014-2019**:

Conferences / Symposiums	Workshops / Courses
<b>TOTAL</b> (18 )	<b>TOTAL</b> (56 )
<b>PATRTICIPANTS</b> (8814)	<b>PATRTICIPANTS</b> (883)

## WORKSHOPS / COURSES

### 2014 - 2018

YEAR	WORKSHOP   COURSE	CITY
<b>2014</b>	<ul style="list-style-type: none"> <li>- Intracranial Pressure Monitoring (Hands on)</li> <li>- Drilling Course (Hands on)</li> <li>- Neuroendoscopy Workshop</li> <li>- NeuroTouch Simulator Workshop</li> <li>- Basic Skill for High Speed Drill</li> <li>- 4<sup>th</sup> Spine Update Cadaver Workshop</li> </ul>	Jeddah Riyadh
<b>2015</b>	<ul style="list-style-type: none"> <li>- Endoscopic Skull Base Surgery (Lecture and hands On)</li> <li>- Integrated Neurosolution O-Arm, Navigation and Intraoperative Monitoring</li> <li>- Intraoperative Neurophysiological Monitoring (IONM) Workshop</li> <li>- Prof. Zain Jamjoom Basic Neurosurgery Skills Course Cranial Approaches (Cadaveric Course)</li> <li>- Peripheral Nerve Surgery Review Course (Cadaver Course)</li> <li>- 5<sup>th</sup> Spine Update Cadaver Workshop</li> </ul>	Dammam Riyadh
<b>2016</b>	<ul style="list-style-type: none"> <li>- Skull Base Open &amp; Endoscopic (Cadaver Course)</li> <li>- 2<sup>nd</sup> Peripheral Nerve Anatomy &amp; Surgery review Course (Cadaver Course)</li> <li>- Neuromodulation Workshop</li> <li>- Intraoperative Neurophysiological Monitoring Workshop (IONM Workshop)</li> <li>- Hydrocephalus Workshop</li> <li>- Hands-On Spine Surgery Course</li> <li>- 2<sup>nd</sup> Cervical Spine Approaches Cadaveric Course</li> <li>- 6<sup>th</sup> Spine Update Cadaver Workshop</li> </ul>	Riyadh Abha

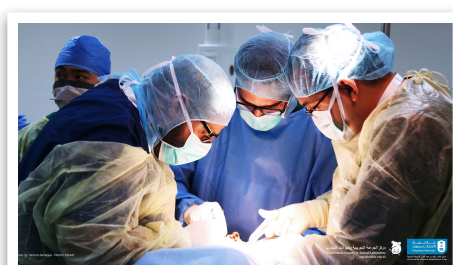
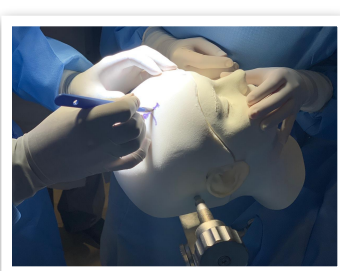




## WORKSHOPS / COURSES

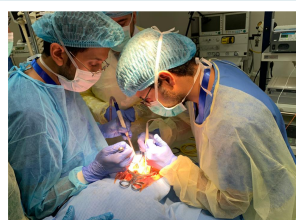
### 2014 - 2018

YEAR	WORKSHOP   COURSE	CITY
2017	<ul style="list-style-type: none"> <li>- IONM Spine Workshop.</li> <li>- 7<sup>th</sup> Spine Update Cadaver Workshop in Collaboration with the 3<sup>rd</sup> Zain Jamjoom Neurosurgery Skill Course</li> <li>- (NeuroLife) Neuro Critical Care Course</li> <li>-Vascular and Endovascular Neurosurgery workshop</li> <li>-Pediatrics Neurosurgery Review Course</li> <li>- Neurological Examination Course</li> <li>- Introduction to Research Workshop</li> <li>- <b>SANS Academy:</b> Drilling Course</li> <li>- <b>SANS Academy:</b> Navigation Course</li> </ul>	Riyadh Al Ahsa Al Khobar
2018	<ul style="list-style-type: none"> <li>-(NeuroLife) Neuro Critical Care Course</li> <li>- Drilling Course In collaboration with Prof. Zain Jamjoom Neurosurgery Skills Course</li> <li>- Peripheral Nerve Workshop</li> <li>- Epilepsy Course</li> <li>- <b>SANS Academy:</b> 1<sup>st</sup> Neurosurgical Boot Camp</li> <li>- 8<sup>th</sup> Spine Update Cadaver Workshop</li> <li>- <b>SANS Academy:</b> Drilling Course</li> <li>- NeuroLife Spine Trauma Course</li> <li>- <b>SANS Academy:</b> Advanced Open Skull-Base Dissection Workshop</li> <li>- NeuroLife Workshop</li> </ul>	Riyadh Abha Jeddah Al Khobar Hofuf Dubai



## HIGHLIGHTS OF 2019 ACTIVITIES

MONTH	WORKSHOP   COURSE	CITY
<b>JANUARY</b>	<ul style="list-style-type: none"> <li>• NeuroLife: Neuro Critical Care Course</li> </ul>	Tabuk
<b>FEBURARY</b>	<ul style="list-style-type: none"> <li>• Just Drill It Course(Hands On)</li> <li>• Advanced Endoscopic Skull-Base Dissection (Hands-On Cadaver Workshop)</li> </ul>	Riyadh
<b>MARCH</b>	<ul style="list-style-type: none"> <li>• Student Neurological Boot Camp</li> <li>• Saudi Neurosurgery Study Workshop</li> <li>• NeuroLife: Neuro Critical Care Course</li> </ul>	Al-Khobar
<b>APRIL</b>	<ul style="list-style-type: none"> <li>• Just Drill It Course(Hands On)</li> </ul>	Riyadh
<b>AUGUST</b>	<ul style="list-style-type: none"> <li>• EDMS &amp; Shunts Course (Hands-On)</li> <li>• Neurosurgical Boot Camp</li> </ul>	Al-Ahsa Al-Khobar
<b>SEPTEMBER</b>	<ul style="list-style-type: none"> <li>• Neurosurgical Boot Camp</li> </ul>	Al-Khobar
<b>OCTOBER</b>	<ul style="list-style-type: none"> <li>• Navigation Course (Hands-On)</li> <li>• 9<sup>th</sup> Spine Update Cadaver workshop</li> </ul>	Riyadh
<b>NOVEMBER</b>	<ul style="list-style-type: none"> <li>• Advanced Open Skull-Base Dissection Workshop (Hands-On Cadaver Workshop)</li> <li>• NeuroLife Spine Trauma Course</li> </ul>	Riyadh Dammam



# RESEARCH GRANT

## Value

Promote culture of research in Saudi Arabia that leads to increasing scientific interest if research and in increasing scientific publications.

## Mission

- Promote research meetings and presentations across all medical levels.
- Support research ideas by providing the means to complete research projects.
- Encourage best research by providing tools to complete research and award best research.

### SANS 50,000 Riyal Research Grant for Multi-Center Trials



- SANS will provide 50000 SR to support multi-center trials that satisfy the criteria below.
- Only one Grant will be given per year.
- If more than one research is submitted, the research committee has the right to choose the winner based on:
  - o Level of evidence of the study.
  - o Ability to perform the research in Saudi Arabia.
  - o Relevance to neurosurgery practice, particularly in Saudi Arabia.
  - o Previously published research from the principle investigator.
  - o The research committee may ask advice from a local or international expert if needed.

#### POLICY AND PROCEDURES

1. The principle investigator has to be a neurosurgeon working in Saudi Arabia and a SANS member. All contributing Neurosurgeons, students, residents or specialists have to be SANS members.
2. A complete research grant proposal should be submitted to the society for full review before approving the funding.
3. The multi-center trial should include minimal of two centers in Saudi Arabia.
4. Should not include review articles.
5. The sample size should include minimum One hundred subjects.
6. Institutional board approval from the center of the principal investigator (PI) should be provided prior to accepting the application.
7. Payment schedule:
  - 40% will be given to the PI after acceptance to fund the study.
  - 40% will be given to the PI after six months of the start of the project based on a report submitted to SANS research committee that is satisfactory regarding the progress of the study.
  - 20% will be given upon submission of the final manuscript to the research committee with the acknowledgment that the research was supported by a grant of the Saudi Association of Neurological Surgery.
8. Authors should indicate in the paper that the research was funded or supported by the Saudi Association of Neurological Surgery (SANS). The research committee has the right to request all the money given as a research grant back to SANS if the manuscript did not include acknowledgment of SANS financial support.
9. The principle investigator (and corresponding author during journal submission) has to be a neurosurgeon practicing in Saudi Arabia.
10. The collaborating centers should at least include another center in Saudi Arabia and may include centers from outside Saudi Arabia.
11. SANS will also tolerate the cost of sending the study for language and grammar review before final submission for publication.
12. All funding will be given to the PI only.
13. The principal investigator should submit a report to SANS research committee in case of failing to finish the study within the proposed timeline. The report should be submitted within six months of proposed study completion. Failure to submit such report would give SANS research committee the rights to stop funding the study and ask for refund of the amount given.
14. The principal investigator has to submit a report to SANS research committee in case of failure to finish the study. A partial or full refund could be requested from the principal investigator based on the assessment of SANS research committee.
15. Failure to satisfy above terms gives the right to the society to deny funding the study or ask the principal investigator for returning the money to the society. This should be based on the research committee decision.
16. The research committee has the right to terminate the grant if it felt the research will not continue or there is a breach to ethics or research principles, deviation from the planned research protocol, or there is disagreement between the researchers involved in the study.
17. The research has to be done on Saudi Arabia.

### SANS 20,000 Riyal Research Grant



- SANS will provide 20000 SR to support a trial that satisfy the criteria below.
- Only one Grant will be given per year.
- If more than one research is submitted, the research committee has the right to choose the winner based on:
  - Level of evidence of the study.
  - Ability to perform the research in Saudi Arabia.
  - Relevance to neurosurgery practice, particularly in Saudi Arabia.
  - Previously published research from the principle investigator.
  - The research committee may ask advice from a local or international expert if needed.

#### POLICY AND PROCEDURES

1. The principle investigator has to be a neurosurgeon working in Saudi Arabia and a SANS member. All contributing Neurosurgeons, students, residents or specialists have to be SANS members.
2. A complete research grant proposal should be submitted to the society for full review before approving the funding.
3. The research could be multicenter trial, which should include minimal of two centers in Saudi Arabia.
4. Should not include review articles.
5. Institutional board approval from the center of the principal investigator (PI) should be provided prior to accepting the application.
6. Payment schedule:
  - 40% will be given to the PI after acceptance to fund the study.
  - 40% will be given to the PI after six months of the start of the project based on a report submitted to SANS research committee that is satisfactory regarding the progress of the study.
  - 20% will be given upon submission of the final manuscript to the research committee with the acknowledgment that the research was supported by a grant of the Saudi Association of Neurological Surgery.
7. Authors should indicate in the paper that the research was funded or supported by the Saudi Association of Neurological Surgery (SANS). The research committee has the right to request all the money given as a research grant back to SANS if the manuscript did not include acknowledgment of SANS financial support.
8. The principle investigator (and corresponding author during journal submission) has to be a neurosurgeon practicing in Saudi Arabia.
9. SANS will also tolerate the cost of sending the study for language and grammar review before final submission for publication.
10. All funding will be given to the PI only.
11. The principal investigator should submit a report to SANS research committee in case of failing to finish the study within the proposed timeline. The report should be submitted within six months of proposed study completion. Failure to submit such report would give SANS research committee the rights to stop funding the study and ask for refund of the amount given.
12. The principal investigator has to submit a report to SANS research committee in case of failure to finish the study. A partial or full refund could be requested from the principal investigator based on the assessment of SANS research committee.
13. Failure to satisfy above terms gives the right to the society to deny funding the study or ask the principal investigator for returning the money to the society. This should be based on the research committee decision.
14. The research committee has the right to terminate the grant if it felt the research will not continue or there is a breach to ethics or research principles, deviation from the planned research protocol, or there is disagreement between the researchers involved in the study.
15. The research has to be done on Saudi Arabia.

## FUTURE NEUROSCIENTISTS COMPETITION

The 6th Annual Medical Students Neurosciences Research Grant Competition

### RULES & REGULATIONS:

- 1- All contributing researchers of the study in the field of: Neurosurgery (consultant, specialist, fellow, register, resident, and clinical attachment), Medical Intern, and Medical Student MUST be SANS members.
- 2- The submitted research proposals for participating with in the competition MUST be for an ongoing research or a new research. Published research is not accepted (should be submitted for the main annual meeting "conference").
- 3- The research MUST be based on or use genuine or novel idea.
- 4- The research MUST be performed in Saudi Arabia.
- 5- The research MUST be supervised by a consultant neurosurgeon.
- 6- If the research/ research proposal is presented in the research competition, it is ineligible for application for another SANS Research Grant in the same year
- 7- The presenter will have 5 minutes to present his/her research idea.
- 8- The research proposal should be written in 500-1000 words includes the objective, background, methods, procedure, and the expected results. This document must be sent along with PowerPoint presentation latest by the proposal submission deadline.
- 9- Link to the medical students neurosciences research idea PowerPoint presentation template is: <http://www.sans.org.sa/index.php/sans-model/>.
- 10- The deadline for submitting your proposal and PowerPoint presentation is January 16, 2020.
- 11- The documents should be sent to both Prof. Ahmed Ammar, email: [ahmed@ahmedammar.com](mailto:ahmed@ahmedammar.com) and Ms. Sumayah Abunayyan, email: [sabunayyah@gmail.com](mailto:sabunayyah@gmail.com).
- 12- The referee committee is formed of 5 National and International referees.
- 13- Grants will be given to the best 3 proposals.

Powered By:  
Kunafa

## RESEARCH GRANT WINNER

### Research Grant for Multi-Centre Trails

This research grant was established in **2019**. There is only one Grant will be given per year. If more than one research is submitted, the research committee has the right to choose the winner based on : level of evidence of the study, ability to perform the research in Saudi Arabia, and relevance to neurosurgery practice, particularly in Saudi Arabia.

#### WINNER OF 2019

#### WHO

**Dr. Abdulrazag Ajlan and his group** were the winner of SANS 50,000 Riyal Research Grant for Multi-Centre Trails.

#### HOW

**SANS** Research Committee evaluated all the proposals according to specific criteria. The committee members were professor Ahmed Ammar, professor Zain Jamjoom, professor Abdulhakim Jamjoom, and professor Saleh Baeesa. The evaluation process was blinded, where the names of applicants and centres were removed, before the proposals sent to the members. Each evaluator did evaluation separately based on four items, and then the total points were considered

#### WHAT

**TOPIC:**The Effectiveness of Preoperative Antiseptic Preparation in Transnasal Skull Base Surgery: A Randomized Three Arm Controlled Trial

## RESEARCH GRANT WINNER

### Research Grant for Medical Students Neuroscience Competition

1st  
winner

2nd  
winner

3rd  
winner

2015	Urinary Incontinence Valve	Decreasing Mortality Rate from RTA by Simple Diagnostic Tools	The Neurodevelopmental and Mental Health Outcomes of Different Ovulation Induction Methods in Infertility Therapy
2016	Spinal Cord Pulsation and Changes in Central Hemodynamics	Photic Memory	In Utero Endoscopic Stenting in Patients with Aqueductal Stenosis
2017	Direct Assessment of Spinal Cord Blood Flow Using Laser Doppler Technology	Diffuse Axonal Injury Device; Accurate Diagnosis and Early Management	Correlation of Diffusion Tensor Imaging Parameters with Long-Term Neuropsychological Impairment in Mild Traumatic Brain Injury
2018	The utility of implementing apparent diffusion coefficient values to distinguish types of pediatric brain tumor: A retrospective cohort study from Saudi Arabia	Practice Pattern of Routine Preoperative Osteoporosis Screening Among Spine Surgeons in Saudi Arabia	The epidemiology of traumatic brain injury in Madinah, Saudi Arabia
2019	The Pattern of Cervical Spine Injuries in Adults in Saudi Arabia	Correlation Between Neurotransmitters Level in Cerebrospinal Fluid In Patients after Posterior Fossa Tumors Operation and Development of Cerebellar Mutism	Implementation of Serum Micro-RNA Expression in the Detection and Management of Meningiomas

#### The 2nd competition (2016)

All participants= 11

Female participants= 7

Male participants= 4

#### The 3rd competition (2017)

All participants= 16

Female participants= 7

Male participants= 9

#### The 4th competition (2018)

All participants= 9

Female participants= 7

Male participants= 2

#### The 5th competition (2019)

All participants= 19

Female participants= 10

Male participants= 9



## AWARD MEDAL

**SANS Award Medal** was established as a way to recognise excellence in Neurological Surgery field within our association.



### SANS MEDAL

**SANS Medal** is the highest honourable medal . It is given each year to a neurosurgeon who fulfils these criteria:

- Worked in Saudi Arabia for at least 20 years.
- Has or had direct input and contribution to the development of neurosurgery in Saudi Arabia.
- Shared in training programs.
- He/she should have genuine research.
- He/ she should have represented the Kingdom in regional and international scientific venues.



Dr. Mahmoud Al Yamany  
**2019**



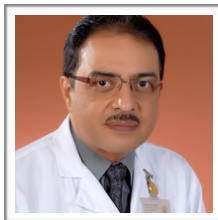
Prof. Abdulhakim Jamjoom  
**2018**



Prof. Imad N. Kanaan  
**2017**



Prof. Khalaf Al-Mouteary  
**2016**



Prof. Maher Hassounah  
**2016**



Prof. Ahmed Ammar  
**2015**



Prof. Zain Jamjoom  
**2015**

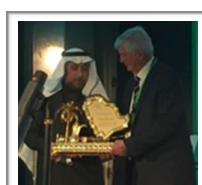
### SANS INTERNATIONAL MEDAL

**SANS International medal** is an honourable recognition medal . It is given to an International neurosurgeon figure only when there is a candidate who fulfils these criteria:

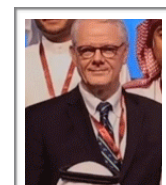
- Contributed directly or indirectly to the development of Neurosurgery in Saudi Arabia.
- Have significant international contributions in the field of Neurosurgery.
- He / she is willing to start or enhance the collaboration with SANS in different fields.



Prof. Franco Servadei  
**2019**



Prof. Brien Benoit  
**2018**



Dr. James Rutka  
**2017**

## PUBLIC EDUCATION

Public education serves the following purposes:

- Enable people to identify their health problems and prevent diseases.
- Raise the level of awareness about neurological issues among all segments of society.
- Help people to adopt positive attitudes towards their wellbeing.

### PUBLIC AWARENESS CAMPAIGN

Through different public campaigns, **SANS** aims to :

- build public recognition of various neurological problems
- boost public awareness about these health problems.



**"Because Grey Matters"**  
was held in Tabuk  
(AlMakan Mall) in May,  
2019.

This Campaign aimed to raise awareness of brain tumours by equipping the public with information they need about the causes ,symptoms, diagnoses and the current treatments .This was achieved through the simulation of brain tumours symptoms with the public audience.



### Electronic Campaign

**SANS** designs Electronic Campaign to cover brain and neurones issues. These campaigns aim to educate public and raise awareness about neurological issues. One of the highlight campaigns in 2019 was about brain tumours. Our brain tumours campaign seeks to increase the awareness about this issue among society for better patient safety. The content was mainly about the nature of brain tumours and how to signal their symptoms for better treatments. In addition, five accessible treatments were explained. Through this campaign , people could grasp the information in a very concise way.

### ARTICLES

**SANS** publishes articles that address various issues related to neurosurgery. They provide up-to-date information on a wide variety of topics. These topics cover some of the following:

Brain Tumours  
Head Injuries  
Deep Brain Stimulation

## CLINICAL CHALLENGE: FOR RESIDENTS

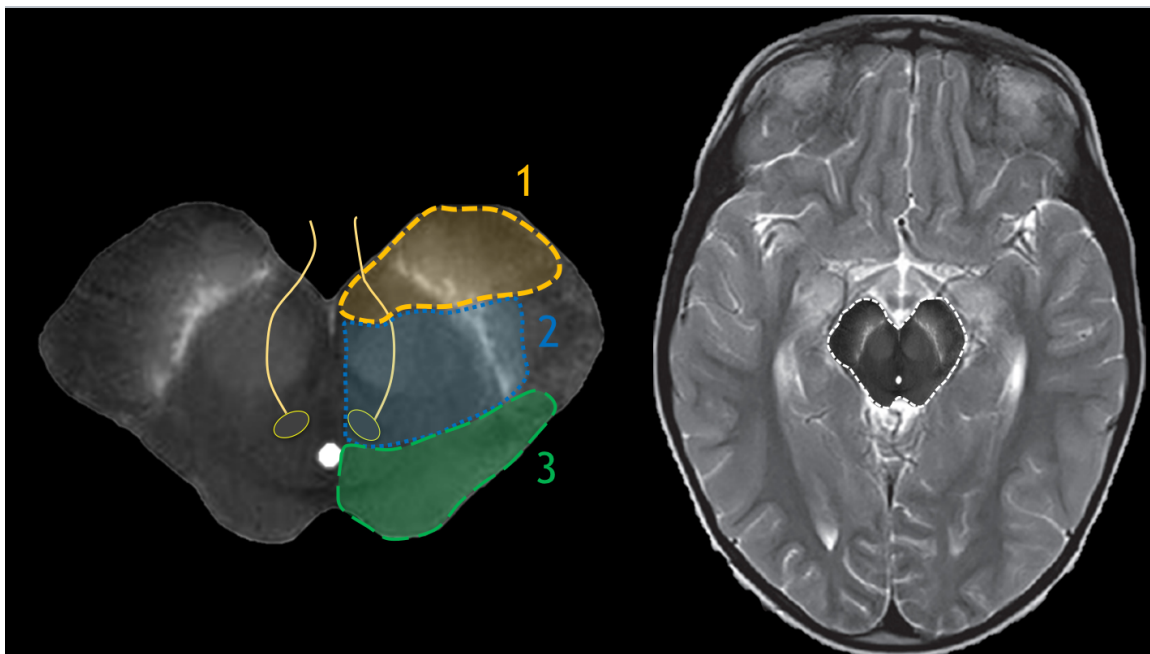
By : Dr. Mohammed Bafaqeeh

During physical examination of post operative 60 years old male you found him to be awake (GCS 15/15), however, has a right eye "down and out" associated with dilation and a unresponsive pupil and hemiparesis of the left side of the body including the lower 2/3 of the face.

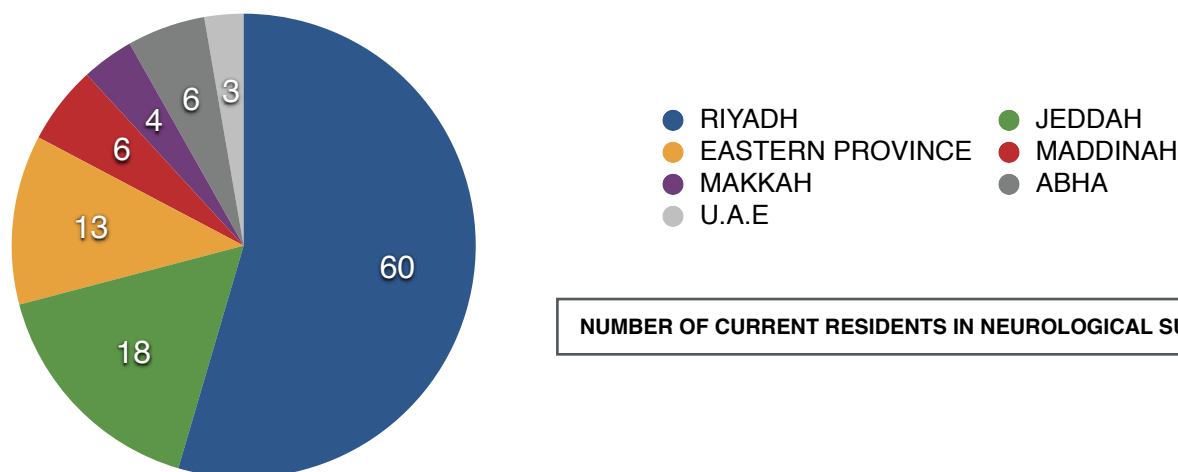
**Which one of the following is correct regarding the localization and clinical syndrome related to this exam?**

(please see figure)

- A. The clinical syndrome is Parinaud's syndrome and the affected area is 3.
- B. The clinical syndrome is Weber's syndrome due to infarction of the penetrating branches of the posterior cerebral artery at area 2.
- C. The clinical syndrome is Weber's syndrome due to infarction of the penetrating branches of the posterior cerebral artery at area 1.
- D. The clinical syndrome is Benedikt's syndrome due to infarction of the penetrating branches of the posterior cerebral artery at area 1.
- E. The finding is related to cerebromedullospinal disconnection syndrome and is caused by infarction of the basilar artery branch.



## The Saudi Board Clinical Neurosurgery Training Programme for Residents



**TABLE 1: DISTRIBUTION OF CURRENT RESIDENTS BY TRAINING CENTRES**

Training Centre	Total Number of Residents
King Fahad Medical City	18
King Abdulaziz Medical City-RUH	7
King Abdulaziz Medical City-JED	5
King Saud Medical City	5
Prince Sultan Military Medical City	8
King Faisal Specialist Hospital & Research Centre-RUH	14
King Faisal Specialist Hospital & Research Centre-JED	4
King Abdulaziz University Hospital-JED	5
King Fahad Hospital -JED	4
King Fahad Hospital-MED	6
King Khalid Hospital	8
Al Noor Specialist Hospital	4
Asir Central Hospital	6
Rashid Hospital-DUBAI	3
Joint Residency Programme in Neurological Surgery (Eastern Province)	13
<b>TOTAL</b>	<b>110</b>

More information about Neurosurgery Training Programme will be presented in the next issues

## CONGRATULATIONS TO GRADUATING RESIDENTS

**Congratulations** to our recently graduating residents on successful completion of residency training in Neurosurgery. We wish them the best as they enter into the next phase of their careers.

Albaraa Al Fuddail

Laila Batarfi

Ashwag Al Qurashi

Mariam Al Shaibani

Haitham Al Nemri

Sami Al Malki

Ibrahim Al Halal

Yaser Babgi

## EMPLOYEE RECOGNITION

THANK YOU



SUMAYAH ABUNAYYAN  
Administrator



SANS newsletter and many other SANS activities would not been possible without the hard work of many individuals. One person in particular we would like to thank is Ms.Sumayah Abunayyan; for an exemplary hard work and dedication over the years. Since she joined SANS in 2014, she has spared no moment in promoting the society and help SANS members achieve their goals. Her work ethic speaks for itself. She has never wavered in her commitment to excellence. We are fortunate to have such a sincere and hard working individual like Sumayyah; leading the administrative duties on our society.





## CLINICAL CHALLENGE: THE ANSWER

**The correct answer is c.**

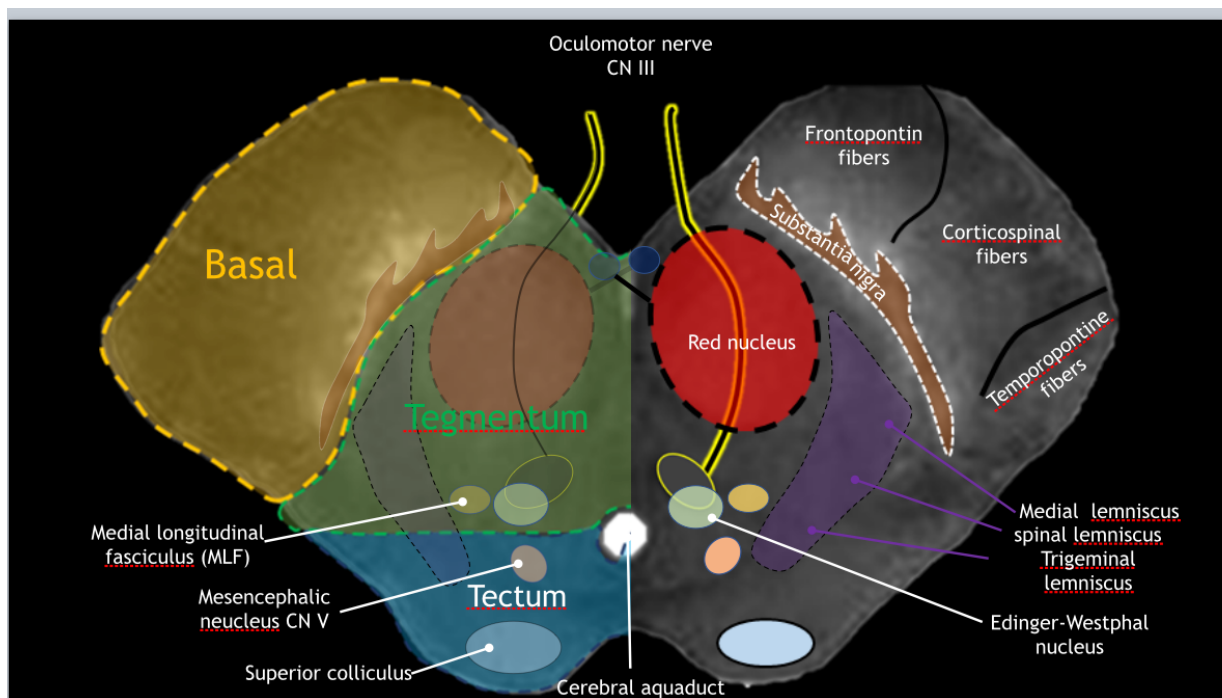
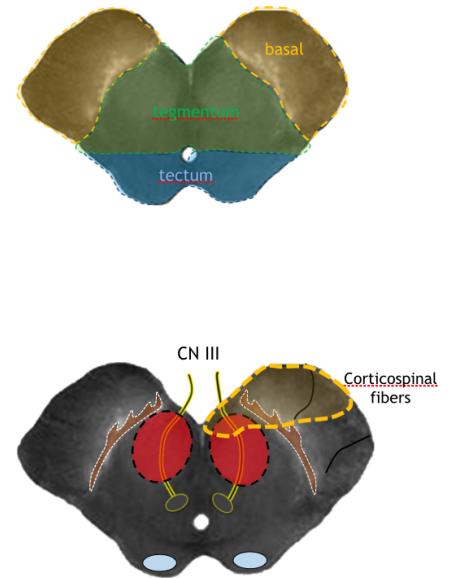
The clinical syndrome is Weber's syndrome due to infarction of the penetrating branches of the posterior cerebral artery at area 1.

**Explanation:** Medial midbrain syndrome (basal part of the midbrain), also known as Weber's syndrome, typically related to infarction of the penetrating branches of the posterior cerebral artery (PCA) which supply the anteromedial portion of the midbrain that involve and results in ipsilateral CN III oculomotor nerve palsy, Contralateral corticobulbar tract (face weakness) and contralateral corticospinal fiber weakness (arm and leg)

**Category:** Functional neuroanatomy.

**Level of difficulty:** Postgraduate year 2.

**Reference:** Cormier PJ, Long ER, Russell EJ. MR imaging of posterior fossa infarctions: vascular territories and clinical correlates. Radiographics. 1992;12 (6): 1079-96.



## 2020 EVENTS

### The 14th SANS Conference

27th February - 1st March

This year our SANS 2020 comes with the collaboration with Prince Sultan Military Medical City. The 2020 Pre-Conference Workshops are scheduled for February 27 & 28, 2020.

#### Pre-Conference Workshop 1 (27 FEB)

##### JUST DRILL IT

Prince Sultan Military Medical City

#### Pre-Conference Workshop 2 (27 FEB)

##### BED SIDE APPROACH

HILTON, Hotel & Resorts Riyadh

#### Pre-Conference Workshop 3 (28 FEB)

##### SAUDI NEUROSURGERY STUDY WORKSHOP

HILTON, Hotel & Resorts

#### Pre-Conference Workshop 4 (28 FEB)

##### STUDENTS NEUROSURGICAL BOOT CAMP

HILTON, Hotel & Resorts

### Up Coming Courses

For further information, please visit our website.

#### NeuroLife Course (March)

##### Neurocritical Care Course

Qasim

#### SANS Academy (April)

##### Drilling Course

Riyadh

#### Fundamental Neurosciences

##### Review Course (April 1-5)

Riyadh

#### NeuroLife Course (July)

##### Neurocritical Care Course

Egypt

#### NeuroLife Course (August)

##### Neurocritical Care Course

Jeddah

#### SANS Academy (August 29-31)

##### 3rd Neurosurgical Boot Camp

Al Khobar

#### SANS Academy (September)

##### Drilling Course

Jeddah

#### 10th Spine Update (September)

Riyadh

#### SANS Academy (October)

##### EDMS & Shunts Course

Al Ahsa

#### NeuroLife Course (December)

##### Neurocritical Care Course

Jeddah

#### Advanced Pediatric

##### Neurosurgery Course (December)

Al Ahsa

#### SANS Academy (TBD)

##### Advanced Skull Base Dissection Workshop.

#### SANS Academy (TBD)

##### Navigation Course.

## CONTACT INFORMATION

Let's help you to make a difference in the neurological surgery field, whatever your interest, you can help further our mission by supporting our newsletter in submitting articles and reviewing research. We always strive to make our newsletters more than just newsletters by being informative and using them to serve the field of Neurological Surgery. Having said that, we are always open to any ideas that will help us improve our newsletter.

For more information, you can reach us at :



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