

Neurosurgery Education Survey Results

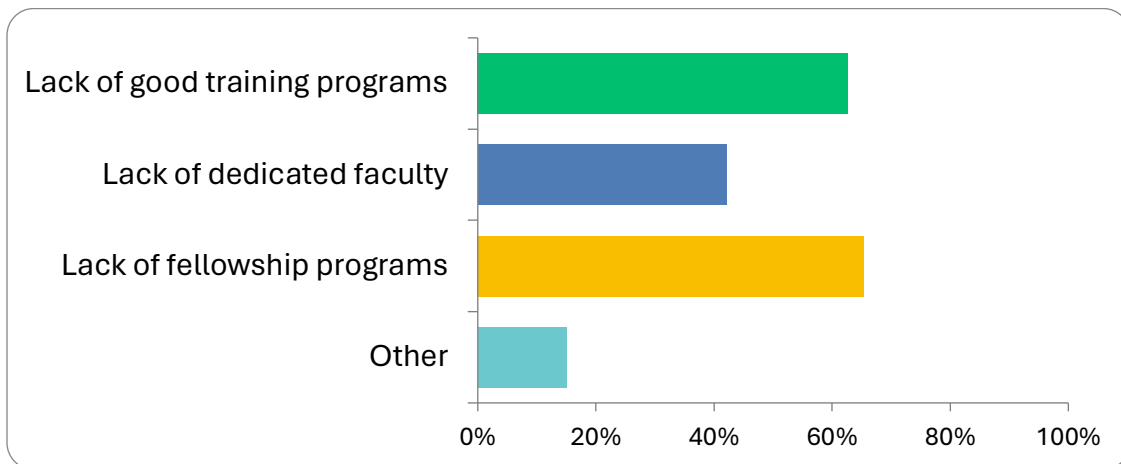
Mehmet Zileli

Chair, WFNS Education & Training Committee

Recently, the WFNS Education & Training Committee conducted a survey on the education needs of neurosurgeons worldwide. There were 438 respondents. 16% of the respondents were female, and 43% were below 40 years old. The regions of the respondents were South America (42.4%), Asia (20.3%), Europe (16.6%), the Middle East (12.3%), North America (4.3%), and Africa (3.9%).

Below is a summary of this survey:

Are current neurosurgery training programs in your country sufficient? Most of the participants (63.7%) responded as NO. The next question was, "If your answer is NO, what are the reasons for that? (Choose a maximum of two). The lack of fellowship programs and good training programs was more than 60%.



We asked, “**Do you think subspecialty training in neurosurgery is necessary?**” The answer was YES, 95.6%. We then asked, "If your answer is YES, which of the following subspecialties will you be interested in? Choose only one.”

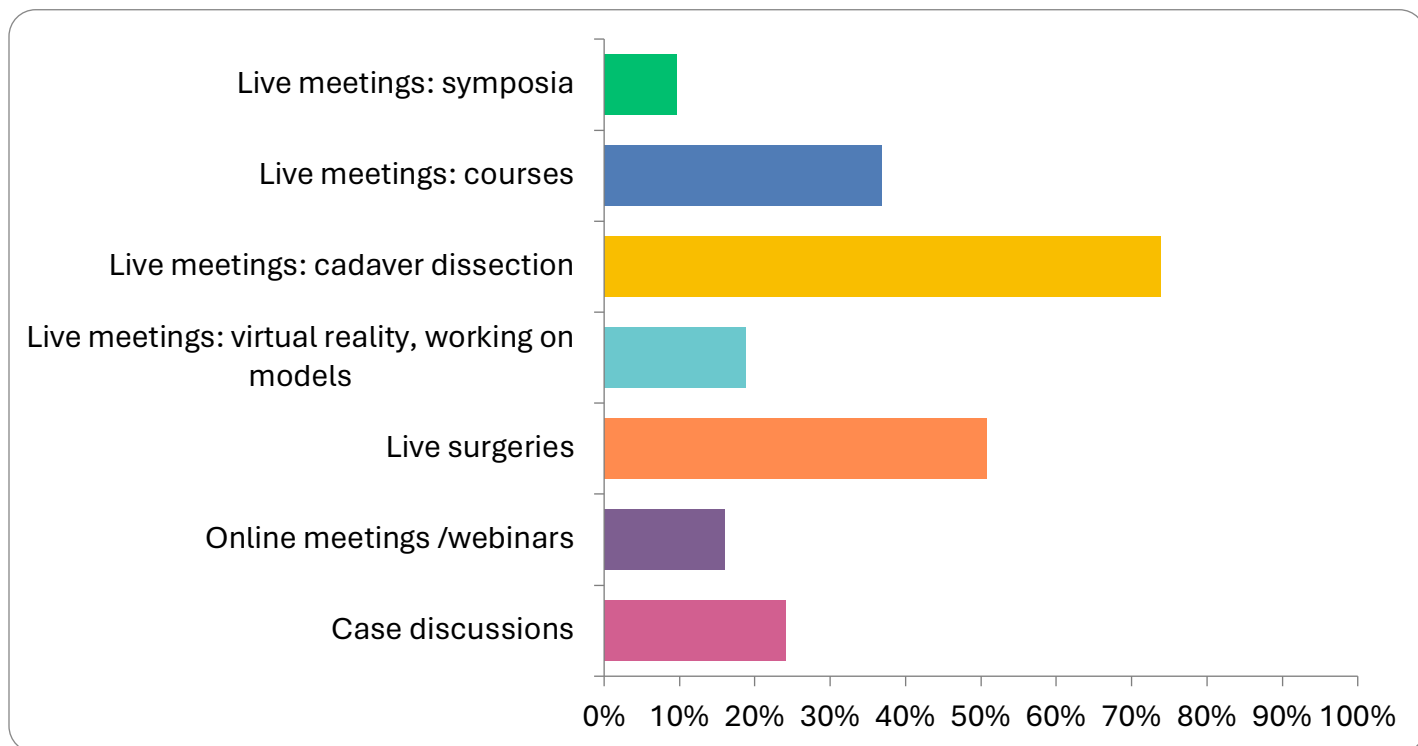
The most wanted subspecialties were Neuro-oncology & Skull-base (30%) and spine (26.5%).

Choices	Responses	N
Vascular neurosurgery	19.86%	87
Neuro-oncology & Skull-base	29.91%	131
Pediatric neurosurgery	6.85%	30

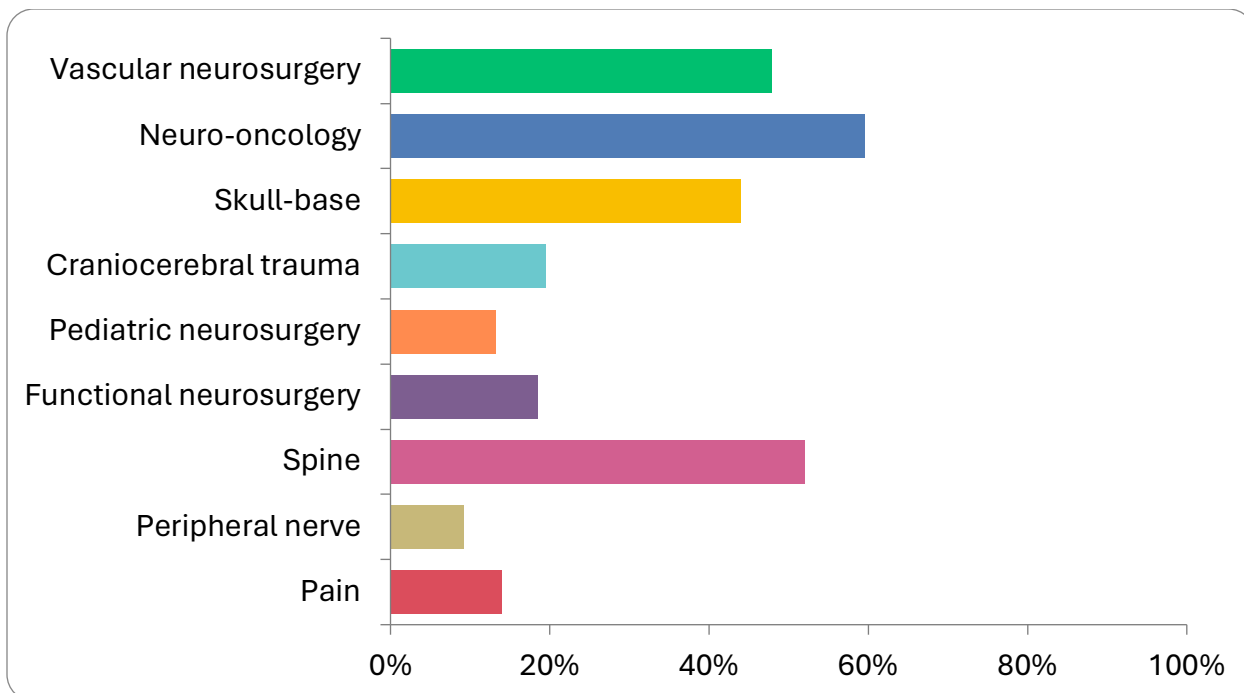
Functional neurosurgery	10.05%	44
Spine	26.48%	116
Trauma	3.65%	16
Peripheral nerve/brachial plexus surgery	3.20%	14
TOTAL		438

What type of education/training method is more beneficial? Please choose a maximum of two answers.

Online meetings /webinars received 16% of the votes. The most popular education method was "Live meetings: cadaver dissection" (74%). Live surgeries (50%) and live meetings: courses (36.8%) were the next choices.

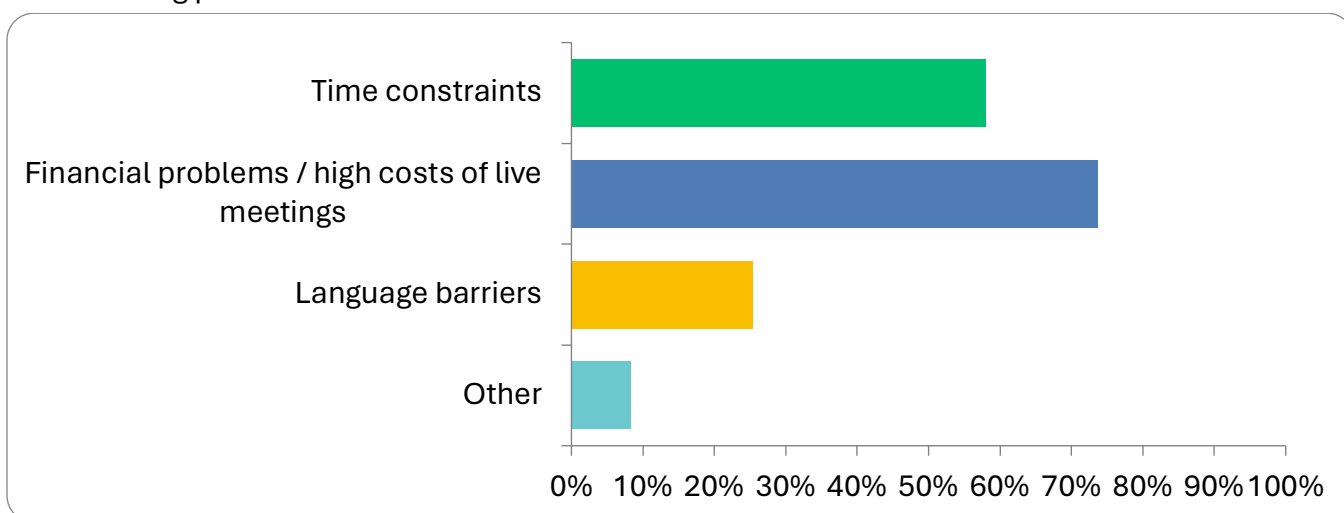


Which topics would you be more interested in listening to / attending to? Choose a maximum of three. The most wanted topics were neuro-oncology (59%), spine (52%), and skull-base (44%).



Would you be interested in topics related to career development? The answer was YES, 92.5%. If your answer is YES, which of the following issues will interest you? (Choose all apply). Publication (59.6%), mentorship (55%), research methods (53.7%), innovation and patent (42.5%), and artificial intelligence (40.6%) were the answers.

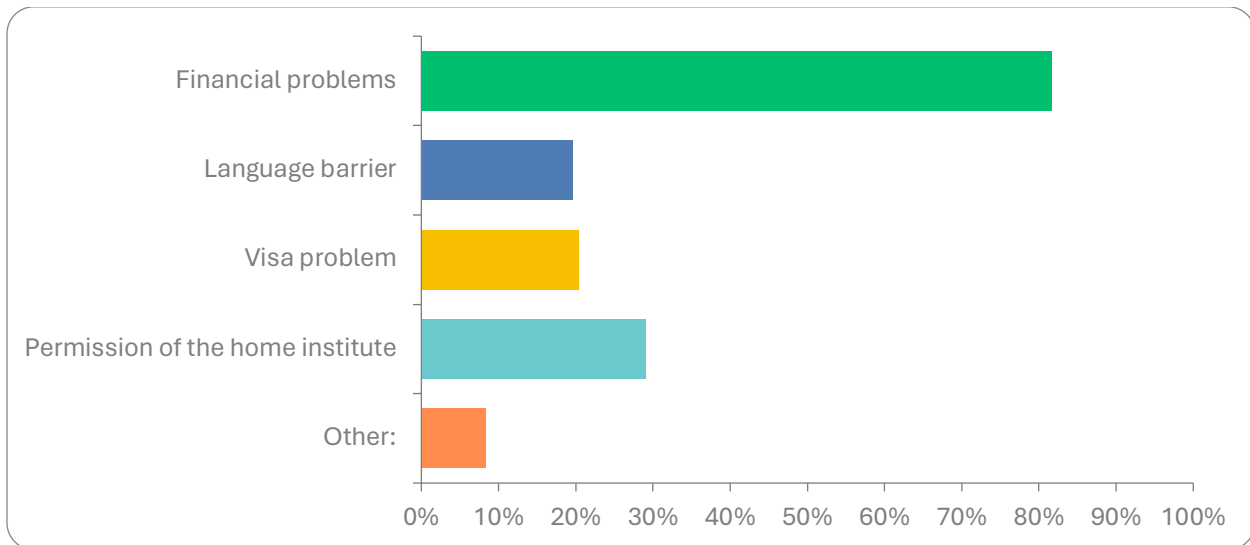
What are the difficulties in improving your learning process? (Choose all apply). Most participants (73.7%) answered that financial problems are the main difficulty in improving their learning process.



Would you be interested in short-term fellowship programs in more developed departments? 86.5% of respondents answered YES.

If your answer is YES, which would limit you most? Choose a maximum of two.

Again, financial problems (81.7%) were the main issues, followed by permission from the home institute (29%), visa problems (20.4%), and language barriers (19.6%).



Conclusions: We did not search for a correlation between the problems and the countries' incomes. However, we could see some general barriers to neurosurgical education.

* Most neurosurgeons (63.7%) think that current neurosurgery training programs in their countries must be revised.

* Most neurosurgeons (95.6%) think subspecialty training in neurosurgery is necessary. The most wanted subspecialty programs are neuro-oncology & skull-base (30%) and spine (26.5%).

* Neurosurgeons prefer live meetings to online meetings/webinars (16%). The most preferred live meetings are cadaver dissection (74%), live surgeries (50%), and live courses (36.8%).

* The most popular topics for attending a meeting are neuro-oncology (59%), spine (52%), and skull-base (44%).

* Most neurosurgeons want to attend career development programs (92.5%). They want to be involved in publication (59.6%), mentorship (55%), research methods (53.7%), innovation and patent (42.5%), and artificial intelligence (40.6%) topics.

* Most neurosurgeons (73.7%) declare that financial problems are the main difficulty in improving their learning process. In addition, permission of the home institute (29%), visa problems (20.4%), and language barrier (19.6%) are the other reasons.

WFNS Education Activities

Mehmet Zileli

Chair, WFNS Education & Training Committee

WFNS Education & Training Committee has conducted 6 online symposia since March 2024. The next meetings will be as below:

May 31-June 1, 2024: WFNS Education Course. Tashkent, Uzbekistan
<https://uzbekistancourse.com/> This meeting is supported by WFNS Education & Training Committee, WFNS Young Neurosurgeons Committee, Uzbekistan Association of Neurosurgeons and Memorial Hospital Group. The registration is free of charge.

June 18, 2024, online Symposia 7: Advances in management of gliomas

June 18, 2024, online Symposia 8: Management of spinal cord injury

September 27-29, 2024: WFNS Education Course. Istanbul, Türkiye

December 18, WFNS Education Course: in collaboration with ACNS Congress, December 19-20 Cairo, Egypt <https://acns2024.org/>



May 31-June 1

Organized by

WFNS Education & Training Committee,
WFNS Young Neurosurgeons Forum,
Uzbekistan Society of Neurosurgery,
Middle East Spine Society,
Memorial Hospital Group

Chairpersons: Mehmet Zileli Abuzer Güngör Onur Yaman Gayrat Kariev

Preliminary Program:

- ✓ 31st May Friday / Cranio-cerebral surgery
- ✓ 1st June Saturday / Spine surgery

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<https://www.facebook.com/groups/436511335536678/>

March 23 – Online Symposia 1 & 2

April 13 – Online Symposia 3 & 4

WFNS Education Symposia # 1
WFNS Education & Training Committee, WFNS Young Neurosurgeons Forum
Update of Acute Back Pain and Lumbar Disc Surgery



Artem Guchsha (Russia) **Salman Sharif** (Pakistan) **Onur Yaman** (Türkiye) **Francesco Costa** (Italy) **Enrique O. Fonseca** (Colombia)

Moderators: Richard Assaker, Enrique Osorio-Fonseca
March 23, 2024

WFNS Education Symposia # 3
WFNS Education & Training Committee, WFNS Young Neurosurgeons Forum
Management of Lumbar Spinal Stenosis



Nikolay Poev (United Kingdom) **Mirza Pojskic** (Germany) **Mehmet Zileli** (Türkiye)

Moderators: Yahya Güvenç, Aderehime Haidara
April 13, 2024

WFNS Education Symposia # 2
WFNS Education & Training Committee, WFNS Young Neurosurgeons Forum
Update of Trigeminal Schwannoma Surgery



Vinco Dolenc (Slovenia) **Mustafa Baskaya** (USA) **Maximiliano Nunez** (Argentina) **Abhidha Shah** (India) **Samy Youssef** (USA)

Moderators: Daniel M. Provedello, Abuzer Gungor
March 23, 2024

WFNS Education Symposia # 4
WFNS Education & Training Committee, WFNS Young Neurosurgeons Forum
Key-hole Approaches to Cranial Tumors

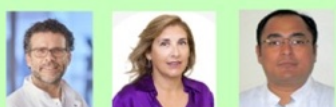


Alvaro Campero (Argentina) **Takeo Goto** (Japan) **Sumit Sinha** (India)

Moderator: Miki Fujimura, Paulo Abdo de Seixo Kadri
April 13, 2024

May 11 – Online Symposia 5 & 6

WFNS Education Symposia # 5
WFNS Education & Training Committee, WFNS Young Neurosurgeons Forum, WFNS Peripheral Nerve Surgery Committee
Brachial Plexus Surgery



Christian Helnen (Germany) **Debora Garozzo** (UAE) **Amit Thapa** (Nepal)

Moderators: Debora Garozzo, Lukas Rasulic
May 11, 2024

WFNS Education Symposia # 6
WFNS Education & Training Committee, WFNS Young Neurosurgeons Forum
Management of Trigeminal Neuralgia



Matias Baldoncini (Argentina) **Mauro Segura** (Mexico) **John Y.K. Lee** (USA) **Jose Oswaldo de Oliveira Jr** (Brazil)

Moderator: Alvaro Campero
May 11, 2024

April 24 & May 21 – Update on Spine Surgery 10 & 11

IAS INTERNATIONAL ACADEMY OF SPINE **MESS** MIDDLE EAST SPINE SOCIETY **WFNS** WORLD FEDERATION OF NEUROLOGICAL SOCIETY

Update of Spine Surgery # 10
International Academy of Spine & Middle East Spine Society & WFNS Education Committee
Complication Avoidance in Deformity Surgery



Richard Assaker (France) **Claudia Lamartina** (Italy) **Ercan Bal** (Türkiye)

Moderator: Max Aebi
April 24, 2024

IAS INTERNATIONAL ACADEMY OF SPINE **MESS** MIDDLE EAST SPINE SOCIETY **WFNS** WORLD FEDERATION OF NEUROLOGICAL SOCIETY

Update of Spine Surgery # 11
International Academy of Spine & Middle East Spine Society & WFNS Education Committee
Management of Osteoporotic Vertebral Fractures



Se-Hoon Kim (Korea) **Ender Ofluoğlu** (Türkiye) **Mehmet Aydoğan** (Türkiye)

Moderator: Salim Şentürk
May 21, 2024