



Ukrainian Stroke  
Medicine Society

# Ukrainian stroke medicine society

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President of USMS – Serhii Moskovko

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Board members – Yurii Cherednychenko, Dmytro Lebedynets, Olha Biletska, Mykhailo Tonchev

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Executive director – Kateryna Kostenko

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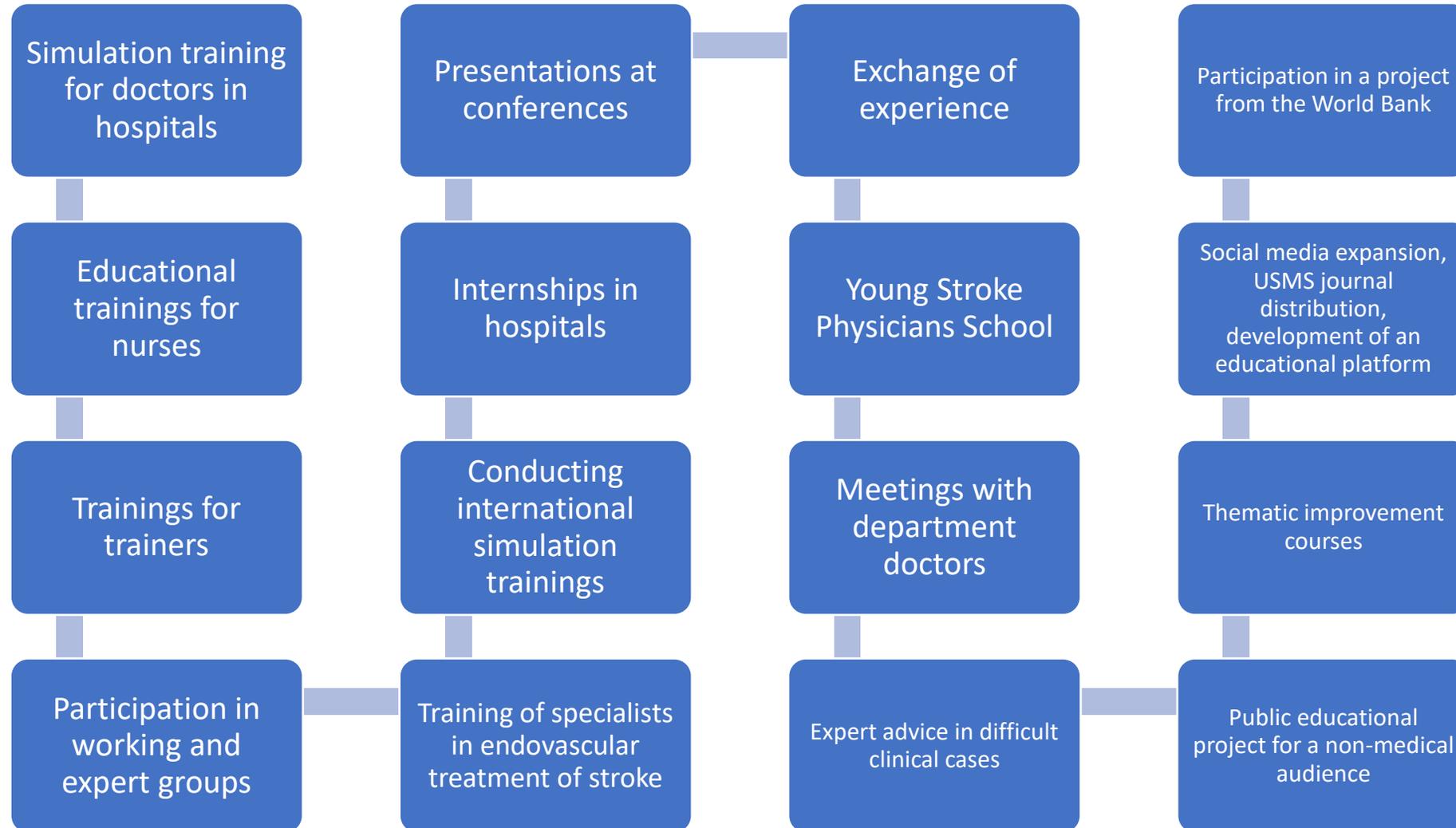
Speakers and trainers: Yurii Cherednychenko, Dmytro Pohorilyi, Dmytro Lebedynets, Oleksandr Pohrebniak, Mykhailo Tonchev, Yuliia Vlasiichuk, Pavlo Lebedynets, Yevhen Shepotynnik, Olha Biletska, Yevhen Volha, Olha Yarmak, Halyna Khlibeychuk, Andrii Nos, Dmytro Hrynykha, Oleksandr Medvid, Olha Yasnii, Ruslan Salnikov, Dmytro Andreychenko

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Total number of members: 1440



# Activities of USMS



# Simulation training workshops 'Management of Acute Stroke'



# Professional schools and thematic improvement courses in 2023

- 4 professional schools 'Modern methods of diagnosis and endovascular treatment of ischemic stroke'
- 5 thematic improvements for doctors 'Revascularization in the acute phase of ischemic stroke'
- 2 thematic improvements for doctors 'Management of acute cerebral stroke'



# Training of specialists in endovascular stroke treatment

- Professional school 'Modern methods of diagnosis and endovascular treatment of ischemic stroke' based at the I.I. Mechnikov Regional Clinical Hospital in Dnipro.
- Thematic improvement for doctors 'Revascularization in the acute phase of ischemic stroke' based at the Sklifosovsky Poltava Regional Clinical Hospital



# Training of specialists in endovascular stroke treatment



# Thematic improvement “Management of Acute Stroke”



- Two-week courses based at the M.V. Sklifosovsky Poltava Regional Clinical Hospital for doctors and heads of stroke departments
- 24 participants from various regions of Ukraine



# Spring School for Young Stroke Physicians 2023 (first in offline format)



- 81 applications
- At the 'Feofaniya' Clinical Hospital, State Administration of Ukraine
- April 24-28, 2023
- 30 participants from 15 regions of Ukraine
- 26 speakers



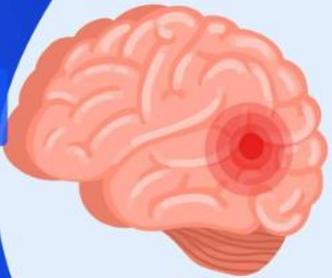
# Autumn School for Young Stroke Physicians 2023 (second in offline format)



- 84 applications
- Based at the 'Bila Tserkva City Clinical Hospital 2'
- October 9-13, 2023
- 26 participants from 17 regions of Ukraine
- 24 speakers



# Interaction with educational platforms



**PRO ІНСУЛЬТ**  
онлайн семінар

**+20 БПР**

28-29 жовтня 2023

УТІМ

Progress Офіційний провайдер БПР №1023

**What has changed recently in Ukraine?**  
**How to organize a secondary stroke prevention office?**  
**Have you previously paid attention to sleep-disordered breathing in patients who have had a stroke?**  
**Emphases in secondary prevention of stroke. When to resume oral anticoagulants?**  
**What strategy to adopt in the extended therapeutic window?**  
**How not to lose valuable time for stroke rehabilitation?**



## Acute Ischemic Stroke: Action Algorithm

Official provider of Continuing Professional Development (CPD) points



- October 30-31, 2023
- 4 hours of lectures
- Certificate with 20 continuous development points

**Medvoice.**

# Development of a proprietary platform



УКРАЇНСЬКЕ ТОВАРИСТВО  
ІНСУЛЬТНОЇ МЕДИЦИНИ

СТВОРЮЄМО ІНСУЛЬТНУ ДОПОМОГУ РАЗОМ

Учасників

531



Активних за весь  
час

468



Ukrainian Stroke  
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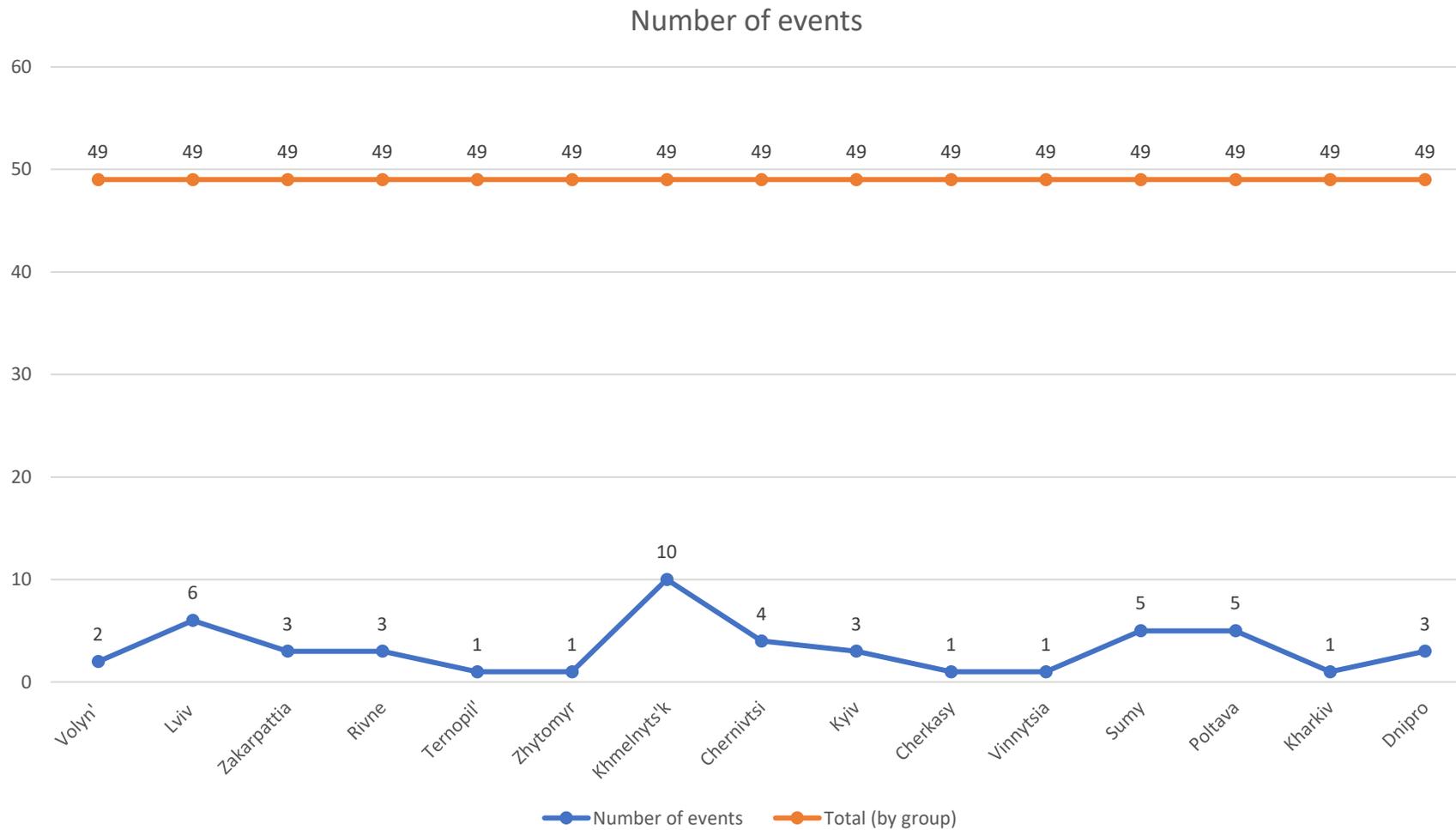
# Social educational project «kNOw STROKE»



- Information events for a non-medical audience
- Audience: primary school (based on Angels Initiative materials), middle and high school, students, interested audience
- 49 events, 1943 attendees in 15 regions of Ukraine



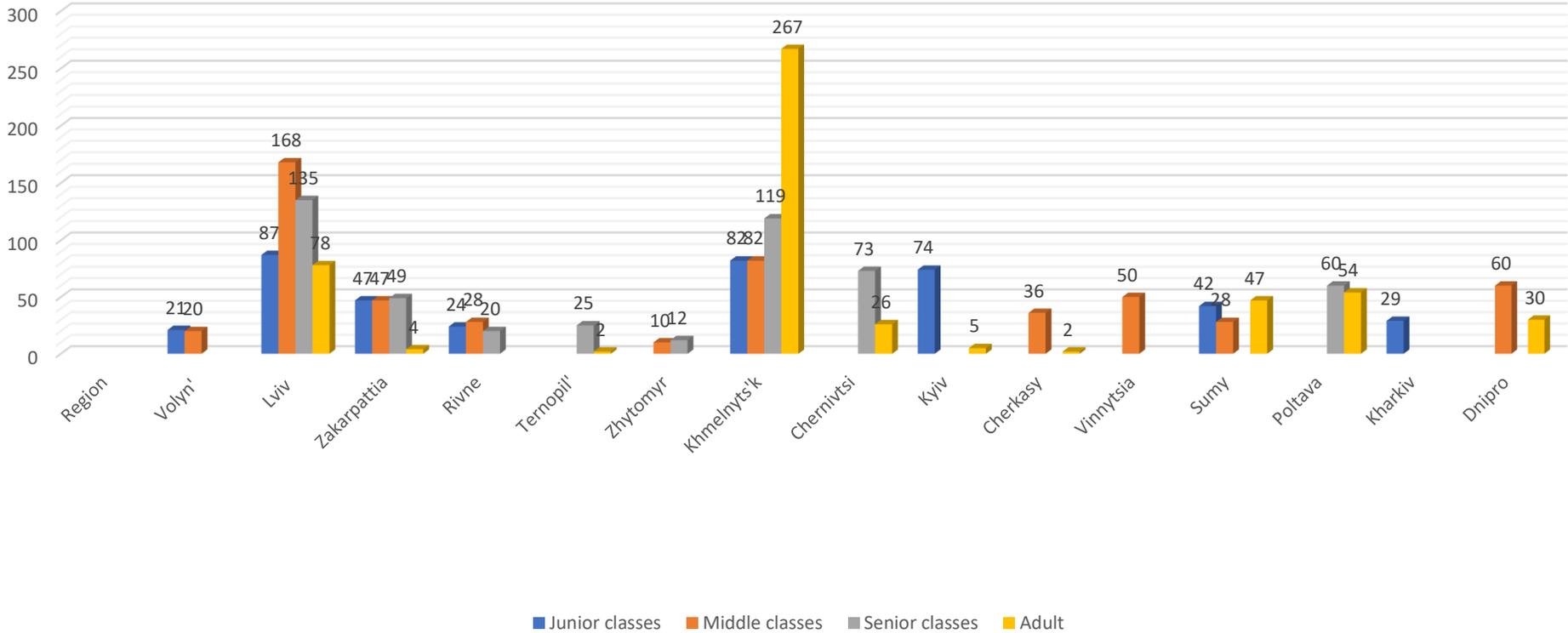
# Social educational project «kNOw STROKE»



# Social educational project «kNOw STROKE»



Number of events in different regions (by age group of listeners)





# Participation in webinars, conferences, congresses

- Participation in international conferences, including:
- European Stroke Organisation Conference
- International Symposium on Collaterals to the Brain
- The Society of Vascular and Interventional Neurology Annual Meeting
- ESMINT Webinar: Neurointerventional practice during the war in Ukraine
- SVIN BREAK 2023



# Participation in webinars, conferences, congresses:



A collage of images related to a virtual conference. On the left, there is a video call window showing a man with a beard in a blue shirt. Below it is a presentation slide with the text: 'More than 14 000 casualties (civilians and combatants) with mine blast and gunshot injuries were treated in Dnipropetrovsk Regional Clinical Hospital named after I.I. Mechnikov (Dnipro, Ukraine) after 24 February 2022 (active phase of russian war in Ukraine)'. The slide includes several 3D anatomical models of skulls and a photograph of a person's head with a severe injury. To the right of the slide is a large green graphic of a tree, similar to the one in the logo. Below the tree is the text 'SVIN BREAK' and 'A Virtual Conference'. The entire collage is set against a light blue background with abstract white and green shapes.

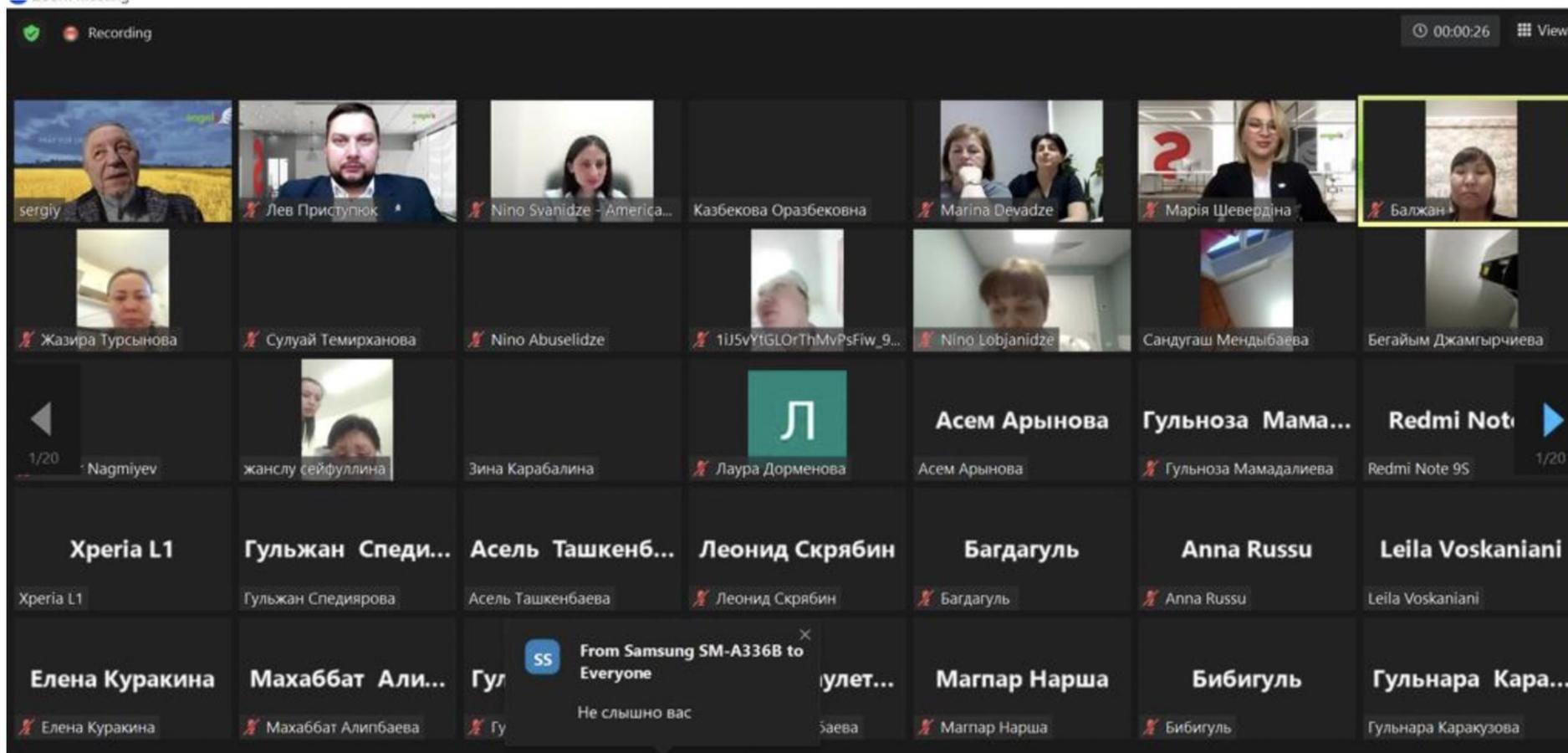


# Participation in webinars, conferences, congresses:

- Training for nurses from Central Asia in collaboration with



LEAVE YOUR LEGACY



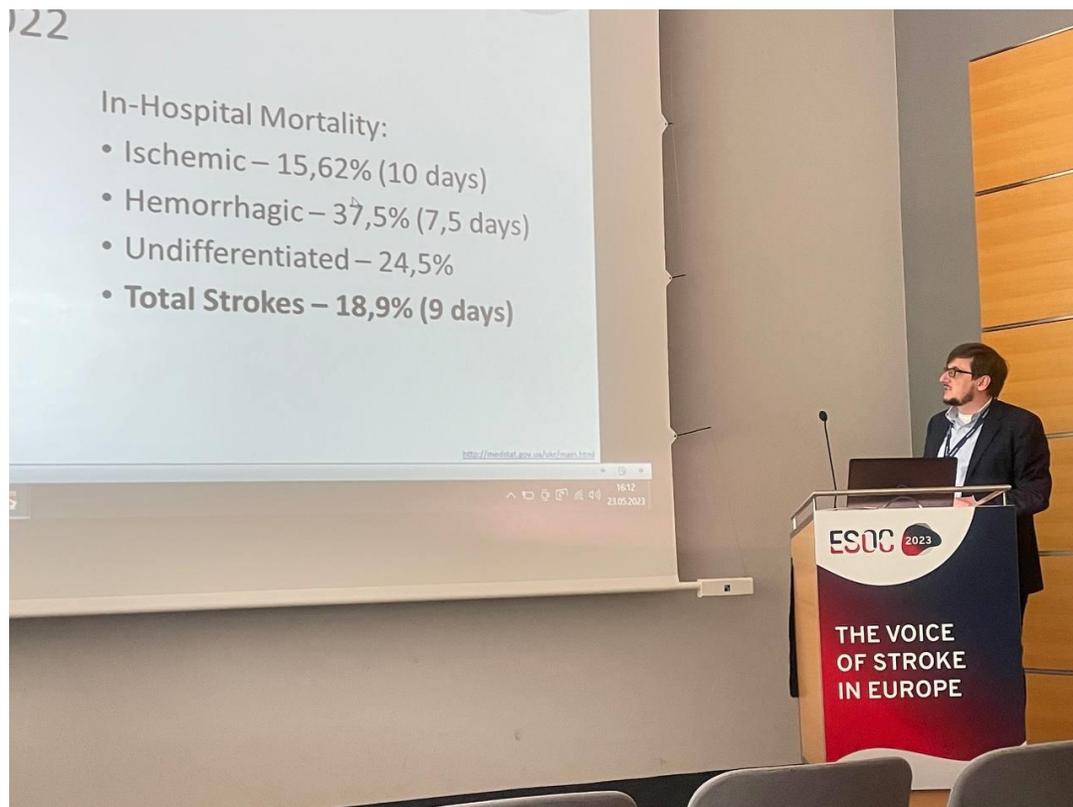
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# Participation in webinars, conferences, congresses:

# ESOC

# 2023

24-26 MAY 2023  
MUNICH, GERMANY



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# Participation in webinars, conferences, congresses:

# ESOC

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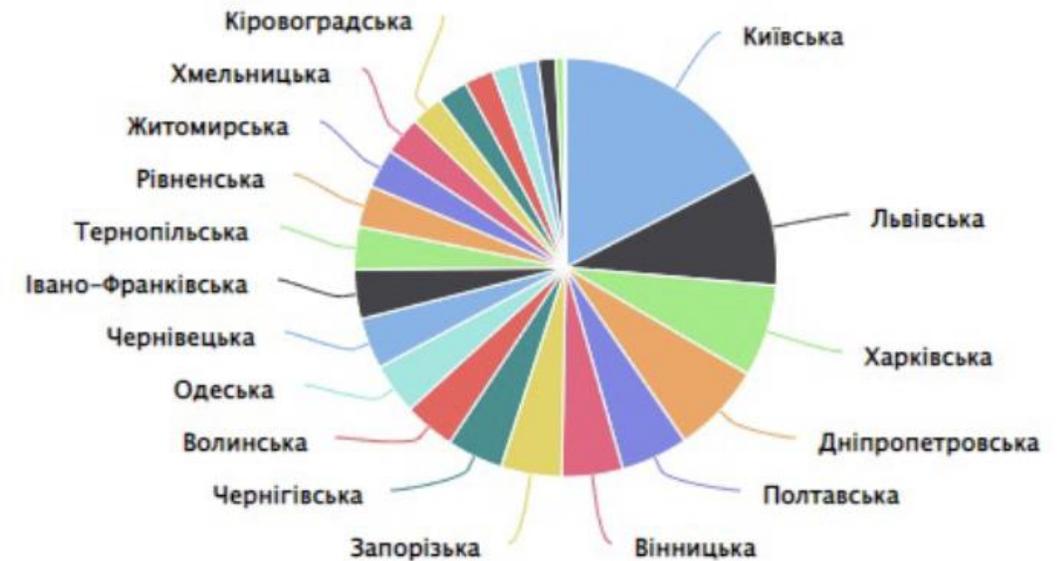


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# First (I) USMS Conference: December 8-10, 2022



820 учасників



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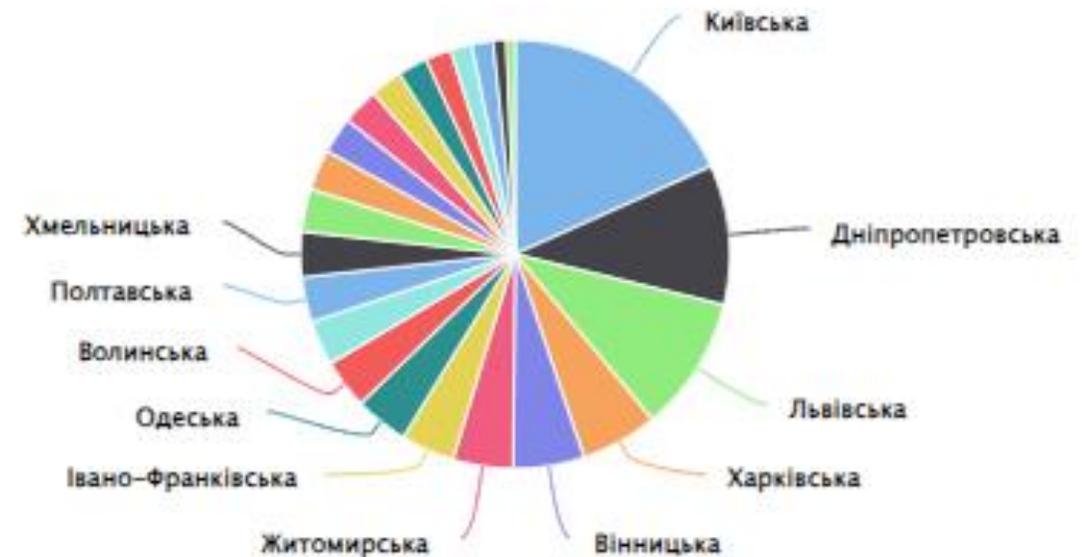
# Second (II) USMS Conference: June 9-11, 2023



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**SECOND USMS CONFERENCE**  
9-11 JUNE 2023

626 учасників



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# Interaction with international associations and initiatives



ESO TF4UKR

ESO  
TF4UKR



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# ESO TF4UKR

ESO warmly congratulates the 2023 awardees:

- **Solomiia Bandrivska – visiting UCL Queen Square (UK) | 16-29 January 2023 | [Read Report](#)**
- **Olha Biletska – visiting Oslo University Hospital (Norway) | 13-17 November 2023**
- **Nataliia Chemer – visiting University Hospital Bern (Switzerland) | February 2023 | [Read Report](#)**
- **Yuriy Flomin – visiting Oslo University Hospital (Norway) | 28 May – 3 June 2023 | [Read Report](#)**
- **Dmytro Hrynykha – visiting Hospital Vall d’Hebron (Spain) | 18-29 September 2023**
- **Yuliia Kit – visiting Karolinska University Hospital (Sweden) | 10-16 July 2023 [Read Report](#)**
- **Ruslan Salnikov – visiting University Hospital Basel (Switzerland) | 4-15 September 2023 [Read Report](#)**
- **Yevhen Shepotinnyk – visiting Vilnius University Faculty of Medicine (Lithuania) | 3-18 March 2023**
- **Yuliia Vlasiichik – visiting Royal Stroke University Hospital (UK) | 23 February – 5 March 2023 | [Read Report](#)**
- **Ruslana-Mariana Yunko – visiting University Hospital Basel (Switzerland) | 21 June – 2 July 2023**



# ESO TF4UKR: Department to Department visit

Assistance in organizing and communicating with the receiving party

- 8 out of 10 participants in the D2D visit are members of the NGO 'USMS':
- Olha Biletska – University Hospital Oslo
- Ruslana Yunko – University Hospital Basel
- Ruslan Salnikov – University Hospital Basel
- Yuliia Kit - Karolinska University Hospital Stockholm
- Nataliia Chemer – Inselspital Bern
- Dmytro Hrynykha - Vall d'Hebron University Hospital
- Yuliia Vlasiichuk - Royal University Hospital Stoke-on-Trent
- Yevhen Shepotynnik – University Hospital Vilnius



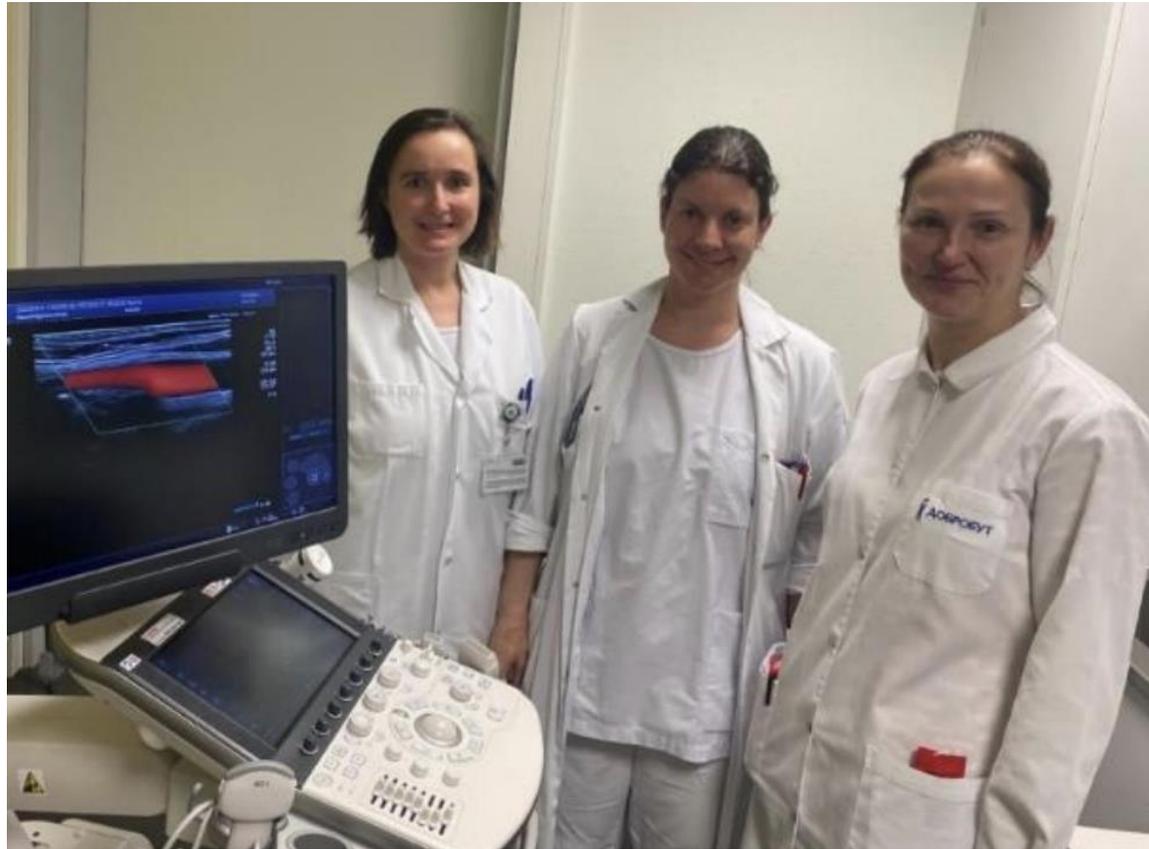
# ESO TF4UKR

## Department to Department visit



# ESO TF4UKR

## Department to Department visit



# ESO TF4UKR

## Department to Department visit



# ESO TF4UKR: webinars

**Review, Historical Context, and Clarifications of the NINDS rt-PA Stroke Trials Exclusion Criteria**  
Part 1: Rapidly Improving Stroke Symptoms

- Structured interviews of NINDS Steering Committee members
- Email and phone discussions
- In person summit

There was 100% consensus of the TREAT Task Force that, in the absence of contraindications, patients who experience RISS to a potentially disabling degree (as judged by the clinician or patient/family or both) of remaining neurological deficit should be treated with intravenous tPA. This statement was supported by both the study design

Levine, Stroke, 2013

5. Because time from onset of symptoms to treatment has such a powerful impact on outcomes, treatment with IV alteplase should not be delayed to monitor for further improvement.

III: Harm
  C-E0

Powers, Stroke, 2019



UK: TESLA

- Patients with LVO, anterior circulation, <24 h (symptom onset or „last seen well“), ASPECTS 2-5
- Thrombectomy vs. standard of care (no MT), primary endpoint: utility weighted mRS at 90 days
- N=302 patients randomized

ITT PRIMARY OUTCOME 90-Day UW-mRS

Ways worse (mRS 5)	Net	Control	Treatment benefit	Superior probability of superiority
(N=102)	(N=146)	(N=146)	(95% CI)	(95% CI)
2.0 (1.3, 2.7)	2.0 (1.3, 2.7)	2.0 (1.3, 2.7)	(0.09, 1.84)	0.533*

ITT SECONDARY OUTCOMES

	MT (N = 152)	Control (N = 148)	Odds Ratio/Delta (95% CI)	1-sided P-Value
30-day mRS Ordinal Shift			1.40 (0.91, 2.16)	0.0629
90-day mRS 0-2	22 (14%)	13 (9%)	5.7% (-1.6, 12.9)	0.0911
90-day mRS 0-3	45 (30%)	29 (20%)	9.9% (2, 19.7)	0.0325
Major Neurological Improvement*	39 (26%)	19 (13%)	17.5% (7.2, 27.7)	0.0008

- Pre-specified threshold for superiority not met!
- Higher rate of mRS 0-3 at 90 days (30% vs. 20%, p=0.0325)
- Numerically higher rate of symptomatic ICH: 3.9% vs. 1.3%

Yoo and Zaidat, ESOC 2023









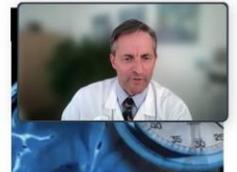






## Work-up of stroke

- 1) Acute phase diagnostics (emergency room)
- 2) Subacute phase (stroke unit, in-hospital)
- 3) TIA and TIA-clinic
- 4) Undetermined cause
- 5) Rare causes
- 6) Haemorrhagic stroke



# ESO TF4UKR

Grant for internship in Ukrainian hospitals



University of Oslo

# Internship in leading stroke units in Ukraine as part of the grant program from the University of Oslo

- 5 stroke units: Feofaniya Clinical Hospital of the State Administration of Affairs, Sklifosovsky Regional Clinical Hospital in Poltava, Mechnykov Regional Clinical Hospital in Dnipro, Bila Tserkva City Clinical Hospital 2, Medical Association of Lutsk City Territorial Community.
- 10 participants from 6 regions of Ukraine



# Internship in leading stroke units in Ukraine as part of the grant program from the University of Oslo



# USMS on messengers and social media



USMS Channel: Current news and event announcements.



УТИМ/USMS

1 267 підписників



[t.me/utim\\_usms](https://t.me/utim_usms)

Посилання

Офіційний телеграм канал Українського товариства інсультної медицини

Опис

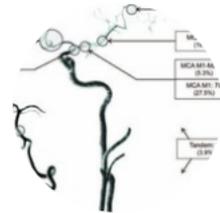


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# USMS on messengers and social media



USMS Neurovascular Chat:  
Exchange of experience, support, and discussion of clinical cases with colleagues



Нейроваскуляр УТІМ/Neurova...

615 учасників



[t.me/usms\\_nv](https://t.me/usms_nv)

Посилання



Ukrainian Stroke  
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# USMS on messengers and social media



Stroke BOT: A bot for searching current recommendations and scaling



Stroke BOT by USMS

бот



@usms\_stroke\_bot



Псевдонім



Сповіщення



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# USMS on messengers and social media



Informational posts on stroke medicine and updates on Society activities, event announcements



Current events and new activities of the Society



Announcements of current events



Information about the Society, activities, events, learning opportunities, and news



**Механічна тромбектомія  
після 24 годин  
від початку захворювання  
клінічний випадок**

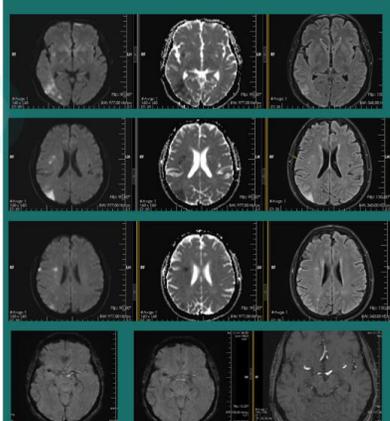
У Journal of Neurointerventional Surgery (від 28.05.2018) було описано ретроспективний аналіз вибірки 21 клінічного випадка, коли механічна тромбектомія була ефективною навіть після 24 годин від початку захворювання за умов відбору пацієнтів за критеріями дослідження DAWN.

Колеги із КЛ «Феофанія» ДУС поділились клінічним випадком із недавнього практичного досвіду. Так, 28.07.2023 об 11.53 було госпіталізовано пацієнта зі скаргами на слабкість лівих кінцівок, порушення зору, порушення мови.

Із анамнезу, погіршення стану вперше відмічас 27.07.2023 ~11.00, коли виникли слабкість лівих кінцівок, порушення мови, які пацієнт списав на втому. Станом на ранок 28.07.2023 було відмічено прогресування симптомів: самостійна хода стала неможливою, погіршився зір, стали більш вираженими порушення мови, з приводу чого пацієнт звернувся до КЛ "Феофанія" ДУС, де був оглянутий черговим неврологом. Після проведення МРТ головного мозку було виявлено тромбоз М2 сегменту правої середньої мозкової артерії (тромб на SWI та випадіння сигналу від М2 сегменту правої СМА).

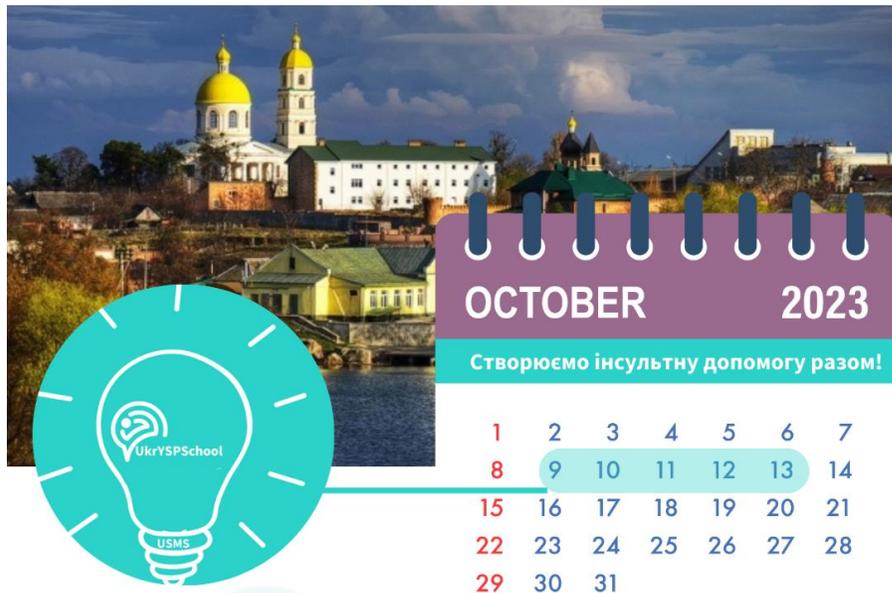


**матеріал підготував  
Дмитро Гриниха  
(кл "Феофанія" ДУС)**



# USMS Journal: Since May 2023

Monthly overview of events,  
current Society activities, and a  
review of scientific news

**OCTOBER 2023**

Створюємо інсультну допомогу разом!

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				





**ЛИСТОПАД  
УТИМ 2023**

**ЧОМУ РОБОТА ІЗ РЕЄСТРОМ  
АКТУАЛЬНА ДЛЯ ПОКРАЩЕННЯ  
ЯКОСТІ ІНСУЛЬТНОЇ ДОПОМОГИ**

	1	2	3	4		
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

RES-Q (Registry of Stroke Care Quality) це інноваційний метод обліку даних пролікованих пацієнтів з інсультом.

Система реєстрації забезпечує збір, аналіз та відстеження інформації про пацієнтів, які перенесли інсульт, із можливістю формування звітів за відповідні часові проміжки.

# Working and Expert Groups

- Members of the Ukrainian Society of Stroke Medicine are also members of:
- Working Group of the Ministry of Health of Ukraine on the development of regulatory acts to combat stroke.
- Working Group of the Ministry of Health of Ukraine on improving the organization of prevention, diagnosis, and treatment in the field of cardiovascular and acute neurological diseases (strokes).
- Multidisciplinary Working Group of the Ministry of Health of Ukraine on the development of industry standards of medical care on the topic: 'Rehabilitation assistance in acute stroke: acute, post-acute, and long-term rehabilitation periods.'
- Working Group of the National Health Service of Ukraine on the development of project specifications for the procurement of medical services under the medical guarantees program in the direction of acute stroke care.
- Working Group of the National Health Service of Ukraine on the development of project specifications for the procurement of medical services under the medical guarantees program in the direction of medical rehabilitation.
- Steering Committee of ESO-EAST/Angels in Ukraine



# Working and Expert Groups

- Members of the Multidisciplinary Working Group of the Ministry of Health of Ukraine for the development of industry standards of medical care on the topic 'Hemorrhagic Stroke' and the Multidisciplinary Working Group for the development of industry standards of medical care on the topic 'Ischemic Stroke' include:
- Members of the expert-advisory group of the State Enterprise Medical Procurements of Ukraine in the direction of centralized procurement of Medicines and Medical Devices for healthcare institutions to ensure treatment of patients with cardiovascular and cerebrovascular diseases.
- Dmytro Lebedynets, Co-Chair of the international project 'MT2020+' in Ukraine (Mission Thrombectomy 2020+), representing the Society of Vascular and Interventional Neurologists (SVIN).
- Dmytro Lebedynets, consultant on the development of medical care for stroke patients in the joint project of the World Bank and the Ministry of Health of Ukraine 'Improving Health Services for People.



# Working and Expert Groups

Based on the results of the competition commission meeting for the selection of candidates to be included in the group of experts of the Ministry of Health of Ukraine on February 22, 2023, the following decisions have been made.

Members of the group in the direction of 'Neurological and Neurosurgical Care':

- Oleksandr Voznyak
- Dmytro Lebedynets (Group Chair)
- Dmytro Mankovsky
- Tetiana Nehrich
- Tetiana Slobodin
- Mykhailo Tonchev
- Andrii Regush
- Nataliia Chemer



# Participation in joint projects with the World Bank by the Ministry of Health of Ukraine



**Поліпшення  
охорони  
здоров'я на  
службі у людей**

- Members of USMS have joined the Ukrainian Association of Neurosurgeons as part of training programs for medical personnel in stroke units across Ukraine.
- A total of 240 doctors and nurses from 15 hospitals throughout Ukraine will enhance their knowledge and skills in providing emergency care for acute stroke. The Ministry of Health, with the support of the World Bank, organized three-day in-person training for doctors and two-day training for mid-level medical personnel as part of the joint project 'Improving Health Services for People.'
- Trainings took place in Sumy, Bila Tserkva, Kharkiv, Dnipro, and Odessa, with 10 more trainings planned for 2024.



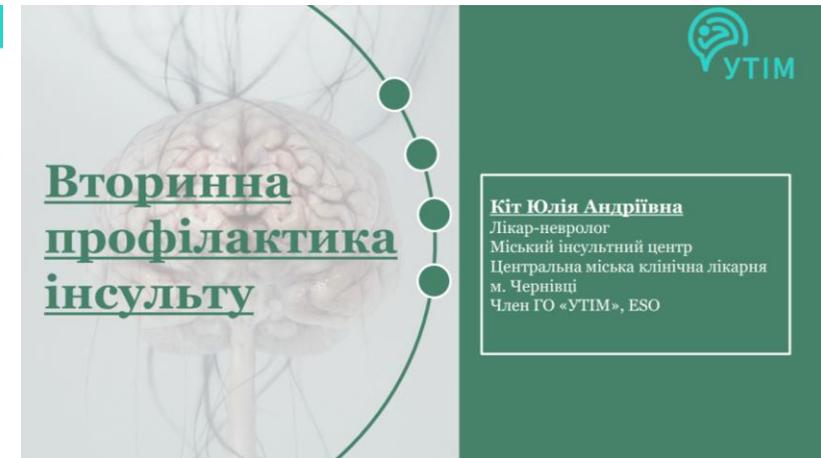
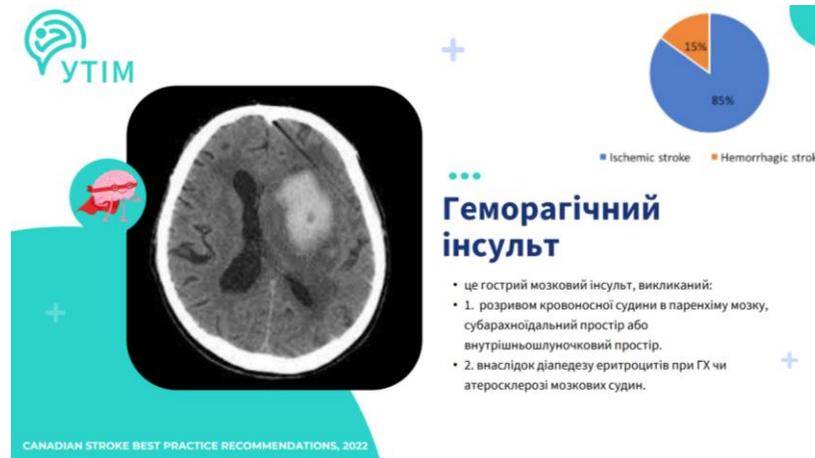
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# Participation in a project funded by the World Bank



# Online lecture series on stroke medicine for resident physicians

- 100+ applications for participation
- 50 selected attendees
- 8 out of 9 speakers from the Young Stroke Physicians Schools
- 8 sessions dedicated to topics of stroke diagnosis and treatment, and 1 session for discussion topics



Thank you for inspiring us with new projects and achievements throughout the year, and for learning together with us!

Looking forward to new meetings in new projects next year!





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We create stroke care together!