وبینار: تازه های درمان سکته حاد مغزی

### Disclosure

None

# Outline...

- 1. SITS introduction
- 2. SITS last Report
- 3. Patient recruitment report in IRAN
- 4. Ongoing studies (National and regional studies)
- 5. Discuss on barriers of IVT in Iranian Centers.

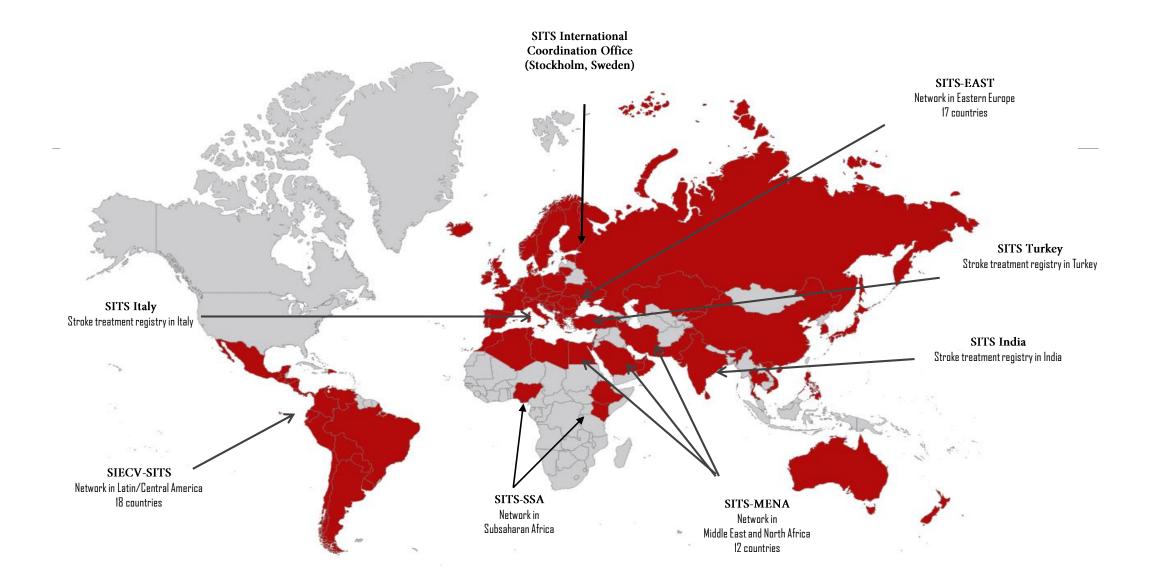
Stroke Registry

# SITS:

 Safe Implementation of Treatments in Stroke  It's an initiative to assure <u>excellence in acute treatment and secondary prevention</u> of stroke, as well as to facilitate clinical trials (Based at Karolinska University Hospital in Sweden).

•Financed by unrestricted grants from **Boehringer-Ingelheim** (BI) and other direct sponsorships.

•A collaborator of **ESO** (European Stroke Organisation) and **WSO** (World Stroke **ANGELS Award** program.



# Why use the SITS Registry?

SITS is a world-leading platform for high quality stroke data.

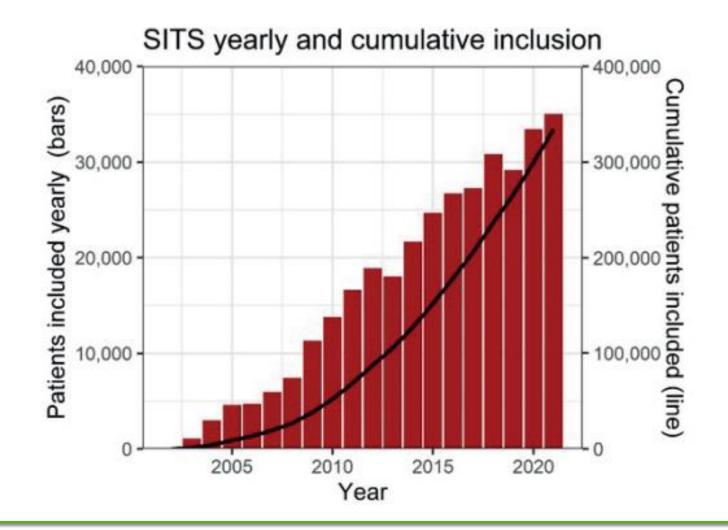
SITS has internet-based interactive protocols – this means that when you enter a patient into SITS QR, immediate copy will be made into other protocols depending on the choice of treatment,

SITS protocols are all free of charge to use,

You can be part of high-impact studies & conduct your own studies through SITS.

# SITS Report (2021)

Figure 1. Yearly and cumulative patient recruitment in SITS: line is showing cumulative inclusion, bars are yearly inclusion



#### Table 2. Number of patients registered as per SITS data entry forms / protocols

Protocol	Paients
IVT	205 965
IVT + TBY treated	13 226
TBY	9 865
APP	100 909
QR	61 702
Total	391 667

#### SITS Publications

- 96. Feil K, Matusevicius M, Herzberg M, Tiedt S, Küpper C, Wischmann J, Schönecker S, Mengel A, Sartor-Pfeiffer J, Berger K, Dimitriadis K, Liebig T, Dieterich M, Mazya M, Ahmed N, Kellert L. Minor stroke in large vessel occlusion: A matched analysis of patients from the German Stroke Registry-Endovascular Treatment (GSR-ET) and patients from the Safe Implementation of Treatments in Stroke-International StrokeThrombolysis Register (SITS-ISTR). Eur J Neurol. 2022 Feb 4. doi: 10.1111/ene.15272. Epub ahead of print. PMID: 35122371.
- Janssen PM, van Overhagen K, Vinklárek J, Roozenbeek B, van der Worp HB, Majoie CB, Bar M, Černík D, Herzig R, Jurák L, Ostrý S, Mikulik R, Lingsma HF, Dippel WJ; MR CLEAN Registry investigators and the SITS TBY Registry investigators from the Czech Republic.
  Between-Center Variation in Outcome After Endovascular Treatment of Acute Stroke: Analysis of Two Nationwide Registries. Circ Cardiovasc Qual Outcomes. 2022 Mar;15(3):e008180. doi: 10.1161/CIRCOUTCOMES.121.008180. Epub 2022 Jan 31. PMID: 35094522; PMCID: PMC8920023.
- 94. Aref H, Zakaria M, Shokri H, Roushdy T, El Basiouny A, El Nahas N. Changing the landscape of stroke in Egypt. Cerebrovasc Dis Extra. 2021 Dec 3. doi: 10.1159/000521271. Online ahead of print. PMID: 34864736. [PubMed]

#### Table 1. Top 20 recruiting countries

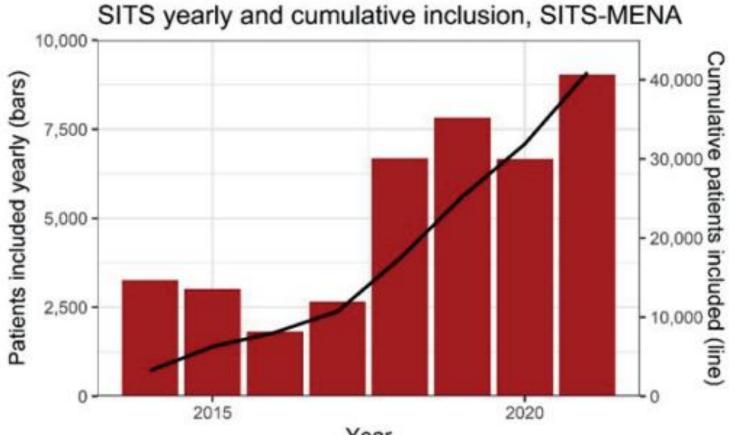
Rank	Country	Patients	Rank	Country	Patients
1	Italy	91 395	11	Germany	8 198
2	Czech Republic	33 093	12	Slovakia	7 155
3	United Kingdom	28 638	13	Portugal	6 7 5 5
4	Brazil	17 360	14	Estonia	5 643
5	Sweden	12 256	15	Qatar	5 293
6	Iran	11 570	16	Spain	5 143
7	Poland	9 571	17	Bulgaria	5 064
8	Belgium	9 157	18	<b>Russian Federation</b>	4 4 4 6
9	India	8 8 2 4	19	Lithuania	4 241
10	Egypt	8 798	20	Finland	4 086

#### SITS-MENA

The SITS-MENA Registry was initiated in 2013 as part of the SITS Regional Network in the Middle East and North Africa. Several countries and centres in the Regional Network are also participating in a prospective observational study of ischemic stroke in the region. Recruitment numbers presented are based on patient files with confirmed and unconfirmed data, entered until December 31, 2021. Since 2018, Suhail Al Rukn functions as the International Regional Coordinator for the SITS MENA region. The SITS MENA group started during 2021 and 2022 three studies based on IVT, TBY and CVT data in SITS.

#### Contributing countries\*:

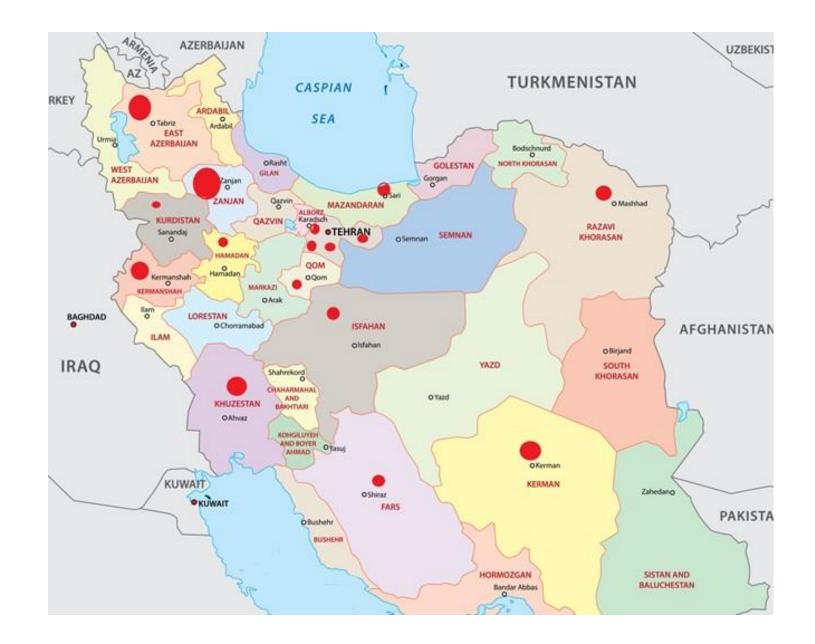
Algeria, Egypt, Iran, Lebanon, Libya, Morocco, Oman, Qatar, Saudi Arabia, Tunisia, United Arab Emirates, Kuwait, Sudan, Bahrain \*See the Appendix for contributing centres. Figure 15. Annual recruitment SITS-MENA – all Protocols, line is showing cumulative inclusion, bars are yearly inclusion



Year

# **IT SITS**

- There are 18 centers, 9 centers actively entering their data
- Until now more than **13100** pts registered.





# Dr. Mehdi Farhoudi, SITS National

Coordinator

#### IRANIAN SITS CENTERS

Country name	Centre name	Local Coordinator	
iran	Razi Hospital (IRRHT)	Mazyar Hashemilar	
iran	Bou-All Sina (IRBAL)	Athena Sharifi-Razavi	
ran	Golestan hospital (IRGOH)	shahram rafie	
ran	Imam Reza (IRREZ)	Elyar Sadeghl-Hokmabadi , Mehdi Farhoudi	
ran	All-Ebn-Abitalib Hospital (IRAEA)	Allreza Vakillan	
Iran	Imam Reza Kermanshah (IRIRK)	Payam Sariasiani	
Iran	Alzahra (IRAZH)	Mohammad Saadatnia	
iran	Tohid Hospital (IRTHN)	Parya Hosseinpanahi	
iran	Shohada Tajrish (IRTAJ)	Soroor Advani	
Iran	Vallasr (IRVAL)	Abdoreza Ghorelshi	
iran	shahld Beheshtl (IRSHB)	Ehsan Sharifipour	
ran	Kowsar (IRKOW)	Parya Hosseinpanahi	
iran	Arak Vallasr Hospital (IRAVH)	Lella Poorsaadat	
iran	Firoozgar general Hospital (IRFRZ)	Masoud Mehrpour	
iran	Golestan (IRGOL)	Bahador Asadi Khansari	
iran	Imam Husain Hospital (IRHUS)	Behnam Mansouri	
ran	Nemazee Hospital (IRNMH)	Afshin Borhani-Haghighi	
ran	Ghaem (IRGHA)	Kavlan Ghandehari	
iran	Sina (IRSME)	Mojtaba Khazael	

# How to be come a member? sitsinternational.org



Menu v Help Contact Login Q

Our protocols are interactive, internetbased stroke data entry forms in standard and minimal versions.

REGISTRY

Read more







#### **SITS Report**

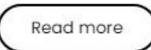
Read the annual report from SITS International.

#### Become a

#### member

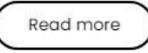
Become a part of the SITS global network.

#### Read more



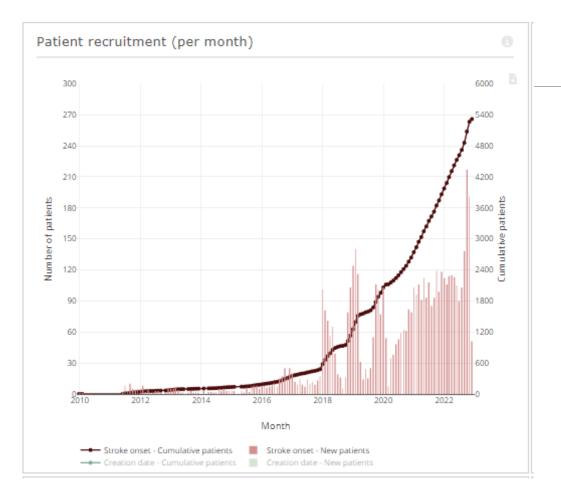
#### Support

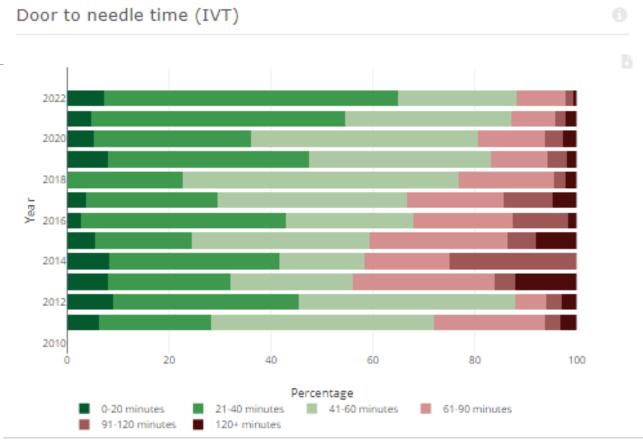
Get help with your SITS related questions.



Patients recruited: Confirmed patients: Overdue 3 months:

Search Site HOME > IRAN > IMAM REZA (IRREZ) ICH Registry 🖭 💥 📲 📰 💼 \star ADMINI STRATION Dashboard My country 6 My centres Imam Reza (IRREZ) Go Imam Reza (IRREZ) v Mext 3m follow-up Ready for confirmation Total patients Data completeness C Overdue 3 months PATIENT 5317 92.8% 3020 2 none Dashboard My patients Add new patient i≣ My SITS-QR Patients 👍 Add new SITS-QR patient Filter by Time period (based on Stroke onset) All time ~ Apply DOCUMENTS General SITS-QR Data Form download User's guide Patient Information Study protocols Patient recruitment (per month) Functional outcome (mRS 3m) TOOLS Reports (beta) Reports 6000 300 Download tool 2022 Download SITS-QR Result Data Transfer Request 270 5400 Submit a Project proposal What's new 2020 240 4800 Apply as Local Coordinator 210 4200 2018 -3600 ¥ n ber of patients 180 pat JE 2016 150 -3000 🙎 ulat







# Upcoming regional studies (SITS-MENA)

### regional studies (SITS-MENA)

- 1. MENA IVT Study
- 2. MENA Thrombectomy study
- 3. CVT-study



# National studies (SITS-Iran)

#### Low dose study

Low dose vs. standard dose Alteplase for intravenous thrombolysis in acute ischemic stroke patients in Iran: Results from the Safe Implementation of Treatments in Stroke (SITS) registry (low dose study)

#### Participating Iranian Centers:

- 1. Sadeghi-Hokmabadi, Elyar; Tabriz. coordinator
- 2. Ghoreishi, abdoreza; Zanjan
- 3. Sariaslani, Payam; Kermanshah
- 4. Rafie, Shahram ; Ahvaz
- 5. Vakilian, Alireza; Rafsanjan
- 6. Sharifipour, Ehsan; Qom
- 7. Mehrpour, Masoud; Tehran
- 8. Saadatnia, Mohammad; Isfahan

DOI: http://dx.doi.org/10.18502/cjn.v20i4.8346

Current Journal of Neurology

**Original Paper** 

Curr J Neurol 2021; 20(4): 208-13

Low-dose versus standard-dose alteplase for intravenous thrombolysis in patients with acute ischemic stroke in Iran: Results from the safe implementation of treatments in stroke registry

Elyar Sadeghi-Hokmabadi<sup>1</sup>, Abdoreza Ghoreishi<sup>2</sup>, Reza Rikhtegar<sup>3</sup>, Payam Sariaslani<sup>4</sup>, Shahram Rafie<sup>5</sup>, Alireza Vakilian<sup>6,7</sup>, Ehsan Sharifipour<sup>8</sup>, Masoud Mehrpour<sup>9</sup>, Mohammad Saadatnia<sup>10</sup>, Mohammad Mirza-Aghazadeh-Attari<sup>11</sup>, Mehdi Farhoudi<sup>1</sup>

Received: 06 June 2021 Accepted: 11 Aug. 2021

- 93. El Nahas NM, Shokri HM, Roushdy TM, Dawood NL, Abushady EM, Georgy SS, Zaki AS, Bedros RV, Aref HM. Door to Needle Count Down: A 3 Years Experience in an Egyptian University Stroke Center. Neurologist. 2021 Nov 30. doi: 10.1097/NRL.000000000000372. Online ahead of print. PMID: 34855665. [PubMed]
- 92. Sadeghi-Hokmabadi E, Ghoreishi A, Rikhtegar R, Sariaslani P, Rafie S, Vakilian A, Sharifipour E, Mehrpour M, Saadatnia M, Mirza-Aghazadeh-Attari M, Farhoudi M. Low-dose versus standard-dose alteplase for intravenous thrombolysis in patients with acute ischemic stroke in Iran: Results from the safe implementation of treatments in stroke registry. Curr J Neurol. 2021 Oct 7. doi: http://dx.doi.org/10.18502/cjn.v20i4.8346. [Current Journal of Neurology]
- 91. Matusevicius M, Cooray C, Rand VM, Nunes AP, Moreira T, Tassi R, Egido JA, Ollikainen JP, Bigliardi G, Holmin S, Ahmed N. Stroke Etiology and Outcomes after Endovascular Thrombectomy: Results from the SITS Registry and a Meta-Analysis. J Stroke. 2021 Sep;23(3):388-400. doi: 10.5853/ jos.2021.00850. Epub 2021 Sep 30. PMID: 34649383. [PubMed]
- 90. Ahmed N, Mazya M, Nunes AP, Moreira T, Ollikainen JP, Escudero-Martinez I, Bigliardi G, Dorado L, Dávalos A, Egido JA, Tassi R, Strbian D, Zini A, Nichelli P, Herzig R, Jurák L, Hurtikova E, Tsivgoulis G, Peeters A, Nevšímalová M, Brozman M, Cavallo R, Lees KR, Mikulik R, Toni D, Holmin S. Safety and Outcomes of Thrombectomy in Ischemic Stroke With vs Without Intravenous Thrombolysis. Neurology. 2021 Jun 4:10.1212/WNL.000000000012327. doi: 0.121WNL.000000000012327. Epub ahead of print. PMID: 34088873. [PubMed]

### **Circulation study**

Safety and functional outcome of alteplase in posterior vs. anterior circulation ischemic stroke: Results from the Safe Implementation of Treatments in Stroke (SITS) registry (Circulation study)

Check for updates

### scientific reports

# OPEN Outcome predictors in anterior and posterior ischemic strokes: a study based on the Iranian SITS registry

Nazanin Jalali<sup>1</sup>, Elyar Sadeghi Hokmabadi<sup>2</sup>, Abdoreza Ghoreishi<sup>3</sup>, Payam Sariaslan<sup>4</sup>, Shahram Rafie<sup>5</sup>, Afshin Borhani-Haghighi<sup>6</sup>, Amir Moghadam Ahmadi<sup>1</sup>, Hossein Azin<sup>1</sup>, Alireza Vakilian<sup>112</sup>, Parvin Khalili<sup>7</sup> & Mehdi Farhoudi<sup>2</sup>

#### **Elderly study**

Safety and efficacy of alteplase in >80 years old Iranian ischemic stroke patients: Results from the Safe Implementation of Treatments in Stroke (SITS) registry (elderly study)

### **Elderly study**

- Study coordinator: Mehdi Farhoudi, Elyar Sadeghi Hokmabadi, Imam Reza Hospital, Tabriz
- Over 8o's with or without IVT
- Efficacy: favorable 3-month outcome (mRS 0-2)
- Safety: SICH and systemic bleedings
- Centers with more than 20 (\*) patients will be included (with or without SCU)
- Data extraction re-scheduled to 31 December 2021.

# SITS (\*)

If you have any research idea in your mind, you can use SITS registry like thesis.

# Why to have registry:

- 1. Promote quality of care for stroke patients
- 2. Multicenter studies (high quality high power manuscripts, better acceptance)
- 3. Needed for certifications

### Panel discussion:

#### Barriers of IVT in Iranian Centers

# Thank you