



**SITS – SAFE IMPLEMENTATION
OF TREATMENTS IN STROKE**

**SITS Report
2016**

Dear Reader,

SITS started as an internet based registry for intravenous thrombolysis already 1996 after the publications of the first randomised controlled trials of this treatment. In 2002 it was given a broader international role. European Union authorities then requested that all patients treated with thrombolysis should be registered in SITS for a period of three years. Registration in SITS became a condition for approval of treatment with intravenous thrombolysis in the EU.

As a consequence, the SITS database was upgraded and started to collect data from an increasing number of clinical centres and countries. Today, over 170 000 patient files are included from over 70 countries. Since then more than 50 scientific reports have been published in international peer-reviewed journals based on these data.

With endovascular thrombectomy and direct oral anticoagulants emerging to revolutionise stroke care in recent years, SITS has enabled registration of data from patients who have received these and other modern therapies. We have also started trials which use the same electronic case record forms but are separated from the registry, such as the ongoing SITS-OPEN trial. This year has seen the launch of a new SITS homepage and continued work on a new and improved database platform. We aim to offer a more interactive, user friendly experience and to provide new valuable features.

With this annual report we give an overview of the data, ongoing and planned activities, and a list of our publications. We take the opportunity to acknowledge the contributions of the more than 170 authors involved in these publications, national, regional and local coordinators and users at participating centres listed in this report. We also pass on our thanks to all patients participating in the registry. Last but not least, we are grateful to our team members at the SITS Coordination Office who have been involved in the preparation of this report.

Kind regards,

Nils Wahlgren
Chairman SITS International

Niaz Ahmed
Vice-Chairman SITS International

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Background and purpose

SITS (Safe Implementation of Treatment in Stroke) is a non-profit, research-driven, independent, international collaboration. It is an initiative by the medical profession to assure excellence in acute treatment and secondary prevention of stroke, as well as to facilitate clinical trials.

SITS started in 1996 as an initiative by participants in the European-Australian randomised stroke thrombolysis studies (ECASS). In 2002, the European Medicines Agency (then EMEA, currently EMA) endorsed SITS as the registry for follow-up on thrombolysis treatment in acute ischemic stroke. SITS has since developed its services to enable follow-up of other evidence-based treatments in acute stroke such as thrombectomy, as well as secondary prevention.

The purpose of this report is to demonstrate how the registry has developed since 2002 with updated data since the previous report of 2015 and summarize how SITS has contributed to the body of knowledge on modern stroke treatment. The time span of the presented data is December 2002 – November 2016, illustrating the growth of SITS over 14 years. More than 50 scientific articles based on SITS data have been published in peer reviewed journals since 2002, with over 170 co-authors. This would not have been possible without the dedicated efforts of SITS national and local coordinators, as well as local users.

The SITS network now includes over 1600 stroke centres in more than 90 countries on five continents. This makes SITS the world's largest stroke network, with the participation of many leading stroke experts.

Support and Funding

SITS is financed directly and indirectly by grants from Karolinska Institutet, Stockholm County Council, the Swedish Heart and Lung Foundation, the Swedish Order of St. John, Friends of Karolinska Institutet, and private donors, as well as from an unrestricted sponsorship from Boehringer-Ingelheim.

SITS has previously received grants from the European Union Framework 7, the European Union Public Health Authority and Ferrer Internacional.

SITS is currently conducting studies supported by Boehringer-Ingelheim and EVER Pharma, as well as in collaboration with Karolinska Institutet, supported by the Swedish Heart and Lung Foundation, Stryker, Covidien, Phenox, and Codman.

SITS Studies

Completed studies

SITS-MOST - An open, prospective, non-randomised observational study of safety and efficacy of treatment with intravenous rt-PA within 3 hours of onset of acute ischaemic stroke, based on the SITS International Stroke Thrombolysis Register. Performed in European Union countries.

SITS-NEW -An observational study of safety and efficacy of intravenous rt-PA within 3 hours of symptom onset in acute ischaemic stroke patients, according to the Summary of Product Characteristics (SPC) of the countries involved. Performed in India, People's Republic of China, Singapore and South Korea.

SITS-WATCH -3-year observational, global, patient management study on shortening door-to-needle time in IV thrombolysis. The study has been completed.

SITS-UTMOST - A prospective, post-approval registry study of intravenous rt-PA (0.9 mg/kg) up to 4.5 hours after symptom onset in acute ischaemic stroke patients. The study has been completed and the main results were published in the European Stroke Journal in 2016.

Ongoing studies

SITS-OPEN - An international, multicentre controlled study of safety and efficacy of thrombectomy in acute occlusive stroke.

SITS TBY Study – A retrospective and prospective registry study of implementation of thrombectomy in routine clinical practice.

SITS AF Educational program & Study - a survey and meeting based interventional educational program aiming to identify factors that facilitate or hamper initiation of oral anticoagulants (OACs) in AF patients after IS or TIA. The intervention study is based on these identified factors and investigates the impact of implemented practice changes on the use of OACs in secondary stroke prevention.

SITS AF Study 1 - A retrospective and prospective study to identify the safest and most effective time point for initiation of oral anticoagulation (OAC) following ischaemic stroke of different severity in patients with atrial fibrillation.

SITS AF Study 2 - A retrospective and prospective study is to investigate the type, timing, safety and reasons for choice of acute interventions in patients taking direct OACs or warfarin prior to stroke onset. This study shall also evaluate the use of idarucizumab in patients on dabigatran suffering acute stroke.

SITS Fertile Woman Study - A retrospective and prospective study of intra-venous rt-PA (0.9 mg/kg) given up to 4.5 hours after symptom onset in female acute ischaemic stroke patients, aged between 13 and 50 years, with particular focus on pregnancy and menstruation.

Planned projects

SITS Seizure Study - A prospective study of seizures in acute stroke patients treated with intravenous rt-PA (0.9 mg/kg) up to 4.5 hours after symptom onset.

Intracerebral Haemorrhage (ICH) Network and Registry - Intracerebral haemorrhage is the most devastating form of stroke, with 30-day mortality reaching 50% and half of the survivors suffering from severe disability. With emerging treatments, new diagnostic techniques and updated management guidelines for ICH, there is a need for a large international collaborative registry to enable better follow-up, care quality assurance and research studies in this field. The planned SITS ICH registry and network will become valuable tools for clinicians and researchers striving to improve outcomes in these most severely afflicted stroke patients.

I-SITS - SITS International is preparing to create an imaging registry in collaboration with the SITS National Coordination Centre / SITS EAST Regional Coordination Centre in Brno, Czech Republic headed by Dr Robert Mikulik. Once established, images may be saved through links from the SITS registry data items for neuroimaging, so that clinical and imaging data can be coordinated.

ESO-Angels - The European Stroke Organisation (ESO) is preparing for a Europe-wide project aiming to stimulate high quality in stroke management by awarding excellent performance for key quality factors such as high proportion of ischaemic stroke patients undergoing reperfusion treatment, door-to-needle time, proportion of patients treated in stroke units. SITS is planning to be a part of this programme, although its details are not settled at the moment of the printing of this report.

Source data verification - SITS is planning to initiate source data monitoring activities on a continuous basis in randomly selected centres in collaboration with SITS National Coordinators.

SITS Registries

A range of SITS registries allow centres to collect data on patients receiving various treatments during the acute stroke phase.

On-going registries

Thrombolysis registry – suitable for all stroke patients treated with IV thrombolysis.

All patients registry - suitable for any stroke and TIA patients who have not received IV thrombolysis or thrombectomy or for centres which do not use the IV thrombolysis or thrombectomy registries.

Thrombectomy registry – suitable for all stroke patients treated with thrombectomy.

Atrial Fibrillation and Oral Anticoagulation in Acute Stroke and TIA registry – suitable for all patients admitted to hospital with an acute ischemic stroke or TIA, diagnosed with atrial fibrillation. The registry provides additional data entry options for details surrounding atrial fibrillation and the use of oral anticoagulation for secondary stroke prevention.

SITS data entry forms

SITS protocols are electronic forms that are automatically enabled in the registry depending on the chosen acute phase intervention. SITS protocols can also be downloaded as Case Record Forms in PDF format on the SITS website.

All Patients Protocol, standard version (APP-s) – protocol for registering stroke and TIA patients who have not been treated with IV thrombolysis or thrombectomy or for centres which do not use the IV thrombolysis or thrombectomy registries.

All Patients Protocol, minimal version (APP-m) – protocol for registering stroke and TIA patients who have not been treated with IV thrombolysis or thrombectomy. The minimal version omits certain baseline and imaging variables, 2-hour, and 24-hour follow-up.

Intravenous Thrombolysis Protocol, standard version (IVTP-s)
– protocol for registering stroke patients treated with IV thrombolysis.

Intravenous Thrombolysis Protocol, minimal version (IVTP-m)

- protocol for registering all stroke patients treated with IV thrombolysis. The minimal version omits certain variables at various time points, making the protocol less extensive compared to IVTP-s.

Thrombectomy Protocol (TBYP)

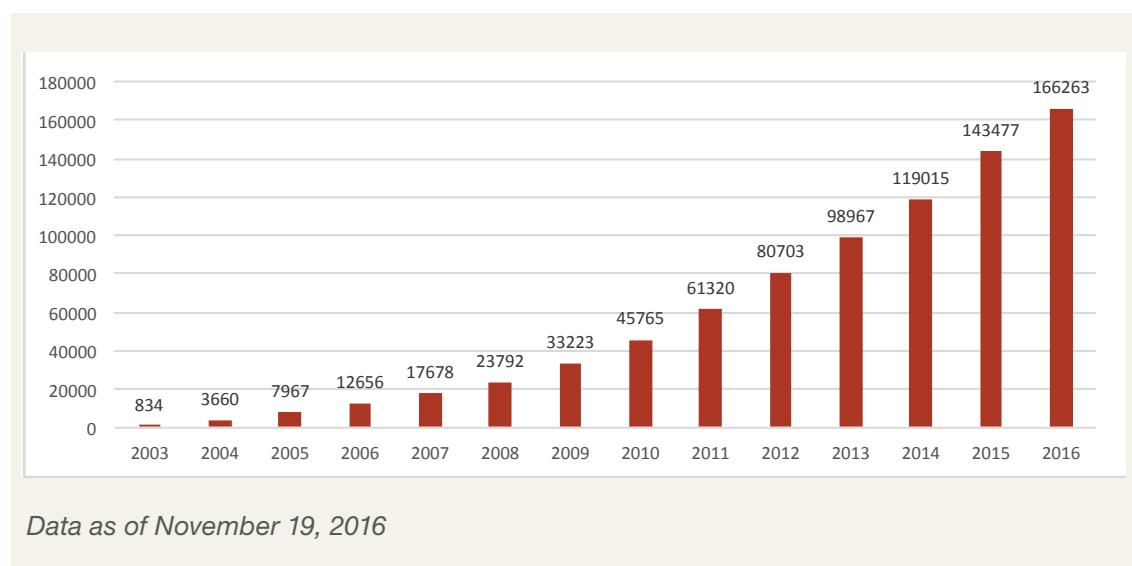
– protocol for registering stroke patients treated with thrombectomy without prior treatment with IV thrombolysis.

Bridging Protocol: IVT+Thrombectomy – protocol for registering patients who initially receive intravenous thrombolysis and are subsequently treated with thrombectomy.

General SITS data overview

Data presented in this general overview is based on all patient files entered in the SITS registries between December 25, 2002 and November 19, 2016. Patient recruitment is calculated using files with both confirmed and unconfirmed data.

Figure 1. Cumulative patient recruitment in SITS



SITS World Map

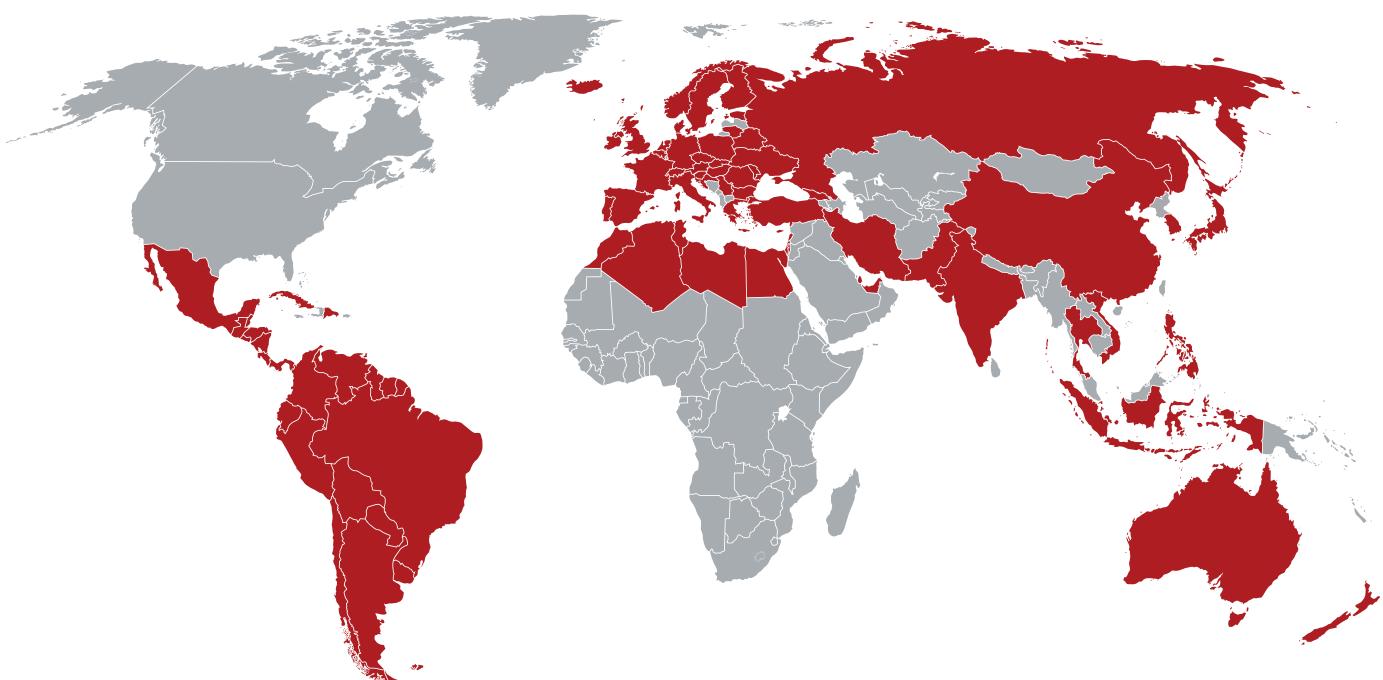


Table 1. Patient recruitment by country

Country	Patients	Country	Patients	Country	Patients
Italy	31349	Lithuania	1395	Lebanon	140
United Kingdom	22884	Croatia	1387	Algeria	124
Czech Republic	19826	Turkey	1381	China	107
Sweden	9269	UAE	1340	Guatemala	89
Germany	6637	Argentina	1172	Philippines	87
Poland	4861	Austria	1146	Japan	75
India	4744	Egypt	1144	Colombia	71
Spain	4138	Mexico	1046	Ireland	57
Portugal	3844	Morocco	1022	Panama	56
Australia	3820	Korea, Rep of	665	Switzerland	51
Finland	3667	Thailand	601	El Salvador	39
Slovakia	3641	Kyrgyzstan	495	Costa Rica	38
Tunis	3190	Greece	468	Saudi Arabia	33
Belgium	3073	Dominican Rep	449	Ukraine	27
Bulgaria	2692	Ecuador	424	Nicaragua	25
Estonia	2660	France	354	Hong Kong	24
Russian Federation	2630	Singapore	325	Moldova	22
Denmark	2375	Sri Lanka	297	Honduras	19
Peru	2290	Iran	287	Bolivia	14
Norway	2072	Israel	255	Iceland	8
Brazil	2051	Netherlands	217	Albania	7
Venezuela	2023	New Zealand	175	Uruguay	7
Hungary	1926	Paraguay	167	Libya	6
Slovenia	1482	Macedonia	165	Vietnam	2
Chile	1451	Qatar	163		

Data as of november 19, 2016

Table 2. Number of patients registered using SITS data entry forms

Data entry forms	Number of patients
IVT standard	125198
APP minimal	29038
APP standard	4684
IVT minimal	3318
Thrombectomy + IVT	2575
Thrombectomy	1450

SITS Thrombolysis Registry

Data based on all patient files entered between December 25, 2002 and November 19, 2016 using the standard and minimal SITS IV Thrombolysis protocols. Patient recruitment is calculated using files with both confirmed and unconfirmed data.

Figure 2. Number of patients treated with IV thrombolysis, registered in the SITS-ISTR

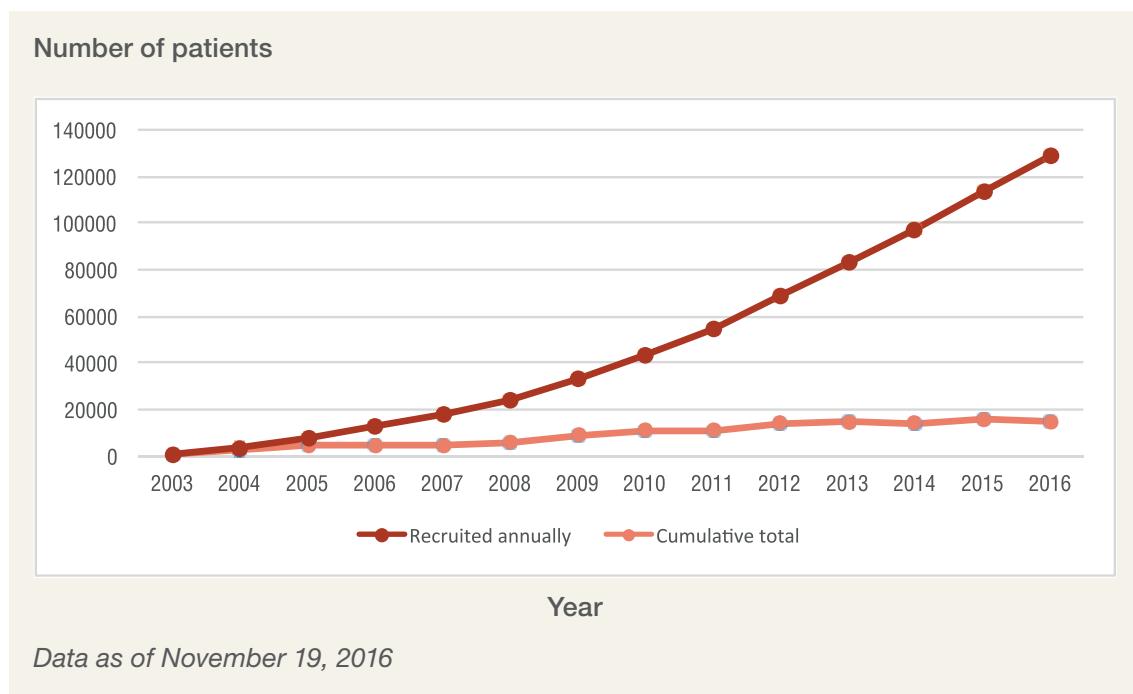


Table 3. Demographic and baseline clinical characteristics in IVT treated patients with confirmed data

Characteristic	Median	Characteristic	Proportion
Age, years	71	Female	45%
NIHSS Baseline	11	Atrial Fibrillation	23%
Systolic BP, mmHg	150	Hypertension	66%
Diastolic BP, mmHg	81	Dibaetes	19%
Glucose, mmol/L	6,6	Hyperlipidemia	32%
Cholesterol, mmol/L	4,8	Heart failure	8%
Weight, kg	75	Smoker, current	19%
Dose of Actilyse, mg	68	Smoker, previous	17%
		Previous stroke	8%
Time logistics, minutes	Median	Previous TIA	7%
		Pre-stroke mRS 0-1	88%
Onset To Door	75	Aspirin	32%
Door To Imaging	25	Clopidogrel	5%
Door To Treatment	65	Oral anticoagulant	3%
Onset To Treatment	150	Statin	28%
		Antihypertensive	56%

Outcome data

Intracerebral hemorrhage in patients treated with IV thrombolysis

Table 4. Proportions of patients with intracerebral hemorrhage

ICH	Proportion	SICH	Proportion
HI1	4,5%	SITS-MOST	1,7%
HI2	3,1%	ECASS II	4,5%
PH1	2,6%	NINDS	6,3%
PH2	2,7%		
PHr1	1,9%		
PHr2	1,0%		

In this table, we present the frequency of intracerebral hemorrhage (ICH) of various types, and of symptomatic intracerebral haemorrhage (SICH) by three definitions, in patients treated with IV thrombolysis.

ICH Definitions

Hemorrhagic infarction type 1 (HI1):

small petechiae along the margins of the infarct.

Hemorrhagic infarction type 2 (HI2):

confluent petechiae within the infarcted area without space-occupying effect.

Parenchymal hemorrhage type 1 (PH1):

local, or intra-ischemic confluent hematoma in $\leq 30\%$ of the infarcted area with at the most some slight space-occupying effect.

Parenchymal hemorrhage type 2 (PH2):

local, or intra-ischemic confluent hematoma $>30\%$ of the infarcted area with a substantial space-occupying effect.

Remote parenchymal hemorrhage type 1(PHr1):

small to medium sized hematoma located remote from the infarct(s), with mild space occupying effect.

Remote parenchymal hemorrhage type 2(PHr2):

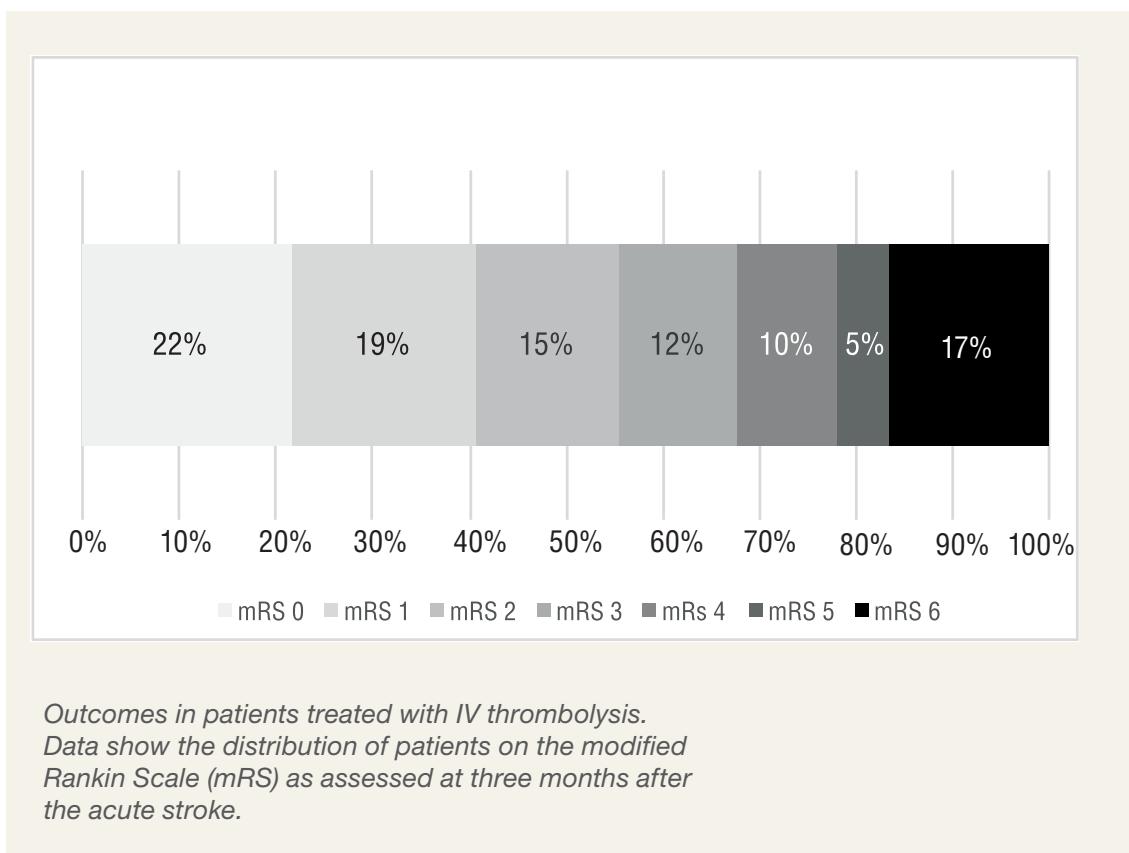
large confluent hematoma in an area remote from the actual infarct(s), with substantial space occupying effect.

SICH Definitions

SICH per SITS-MOST: Local or remote parenchymal haemorrhage type 2 on the 22-36 h post-treatment imaging scan, combined with a neurologic deterioration of 4 points or more compared to baseline NIHSS or the lowest NIHSS value between baseline and 24 h or death within 24 h. Type 2 indicates a hematoma exceeding 30% of the infarct, with substantial space-occupying effect.

SICH per ECASS II: Any haemorrhage with neurologic deterioration as indicated by an increase in NIHSS ≥ 4 compared to baseline or the lowest value within 7 days, or any haemorrhage leading to death.

SICH per NINDS: Any intracerebral haemorrhage on any post-treatment imaging scans combined with any decline in neurologic status as measured by NIHSS between baseline and 7d.

Figure 3. Outcome at 3 month in IVT treated patients**Table 5. Outcome at 3 month in IVT treated patients**

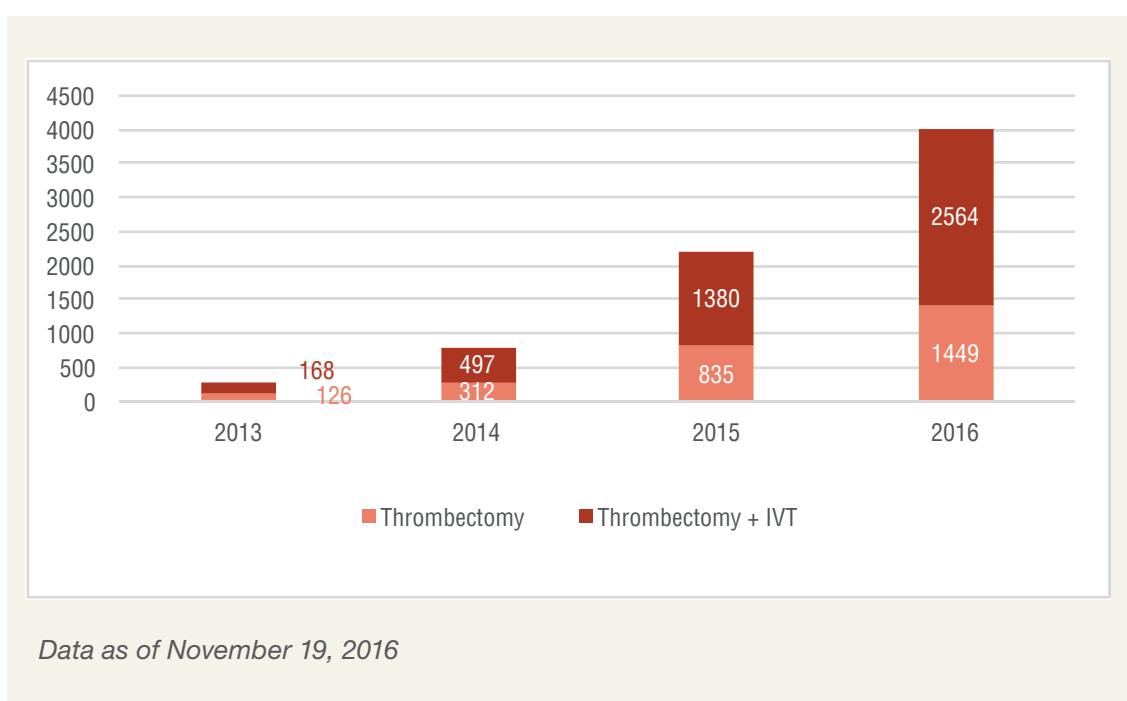
Outcome within 3 months	Proportion
Excellent outcome (mRS 0-1)	40,6%
Functional independence (mRS 0-2)	55,4%
Death	16,6%

Outcome in patients treated with IV thrombolysis.

SITS Thrombectomy Registry

Data based on all patient files entered between December 25, 2002 and November 19, 2016 using the SITS protocols for thrombectomy and bridging of thrombectomy with IV thrombolysis. Patient recruitment is calculated using files with both confirmed and unconfirmed data. Data collection using the thrombectomy protocols is ongoing and will be used in upcoming studies.

Figure 4. Cumulative registering of patients using thrombectomy data forms



**Table 6. Patient recruitment by country,
Thrombectomy protocols**

Country	Patients	Country	Patients
ITALY	725	POLAND	68
CZECH REPUBLIC	595	TURKEY	42
UNITED KINGDOM	363	INDIA	34
SWEDEN	363	NORWAY	22
FINLAND	334	HUNGARY	21
PORTUGAL	293	SLOVENIA	21
SLOVAKIA	281	JAPAN	18
SPAIN	270	THAILAND	8
BELGIUM	206	GREECE	6
ESTONIA	147	EGYPT	6
LITHUANIA	126	AUSTRALIA	2
GERMANY	73	CROATIA	1

Data as of November 19, 2016

SITS General Stroke Registry

The SITS general registry is aimed at registering all stroke and TIA patients. Recruitment numbers presented are based on patient files with confirmed and unconfirmed data, entered until November 19, 2016.

Figure 5. Cumulative and annual recruitment

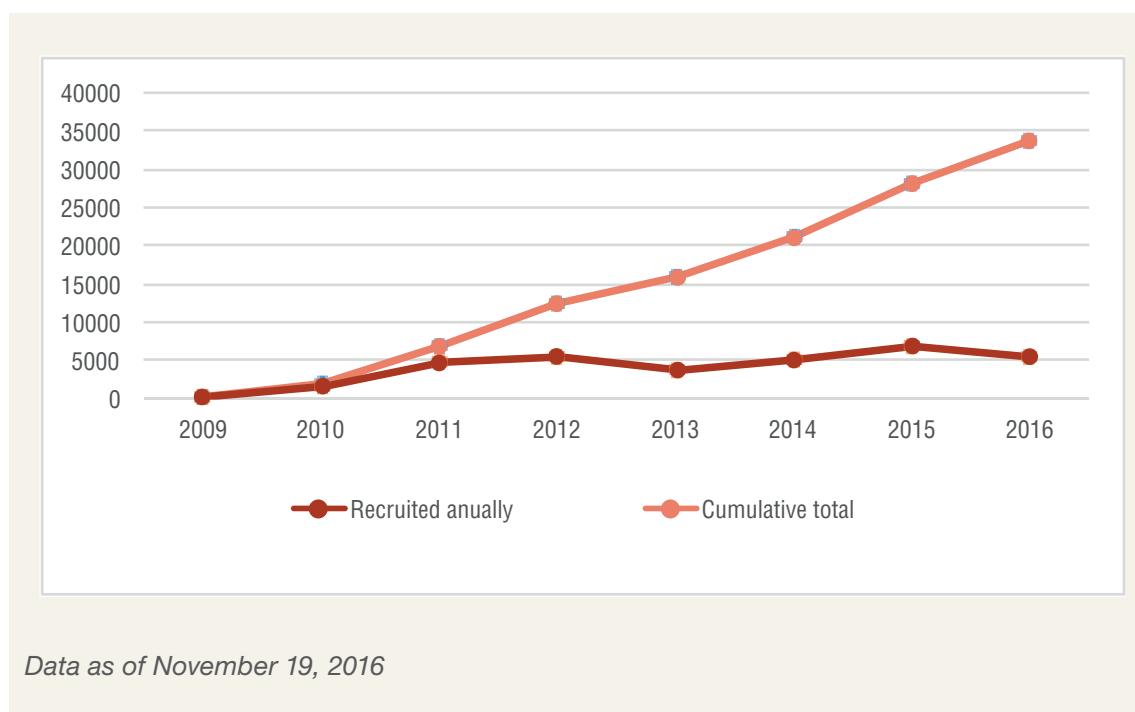


Table 7. Top 24 recruiting countries, General stroke protocols

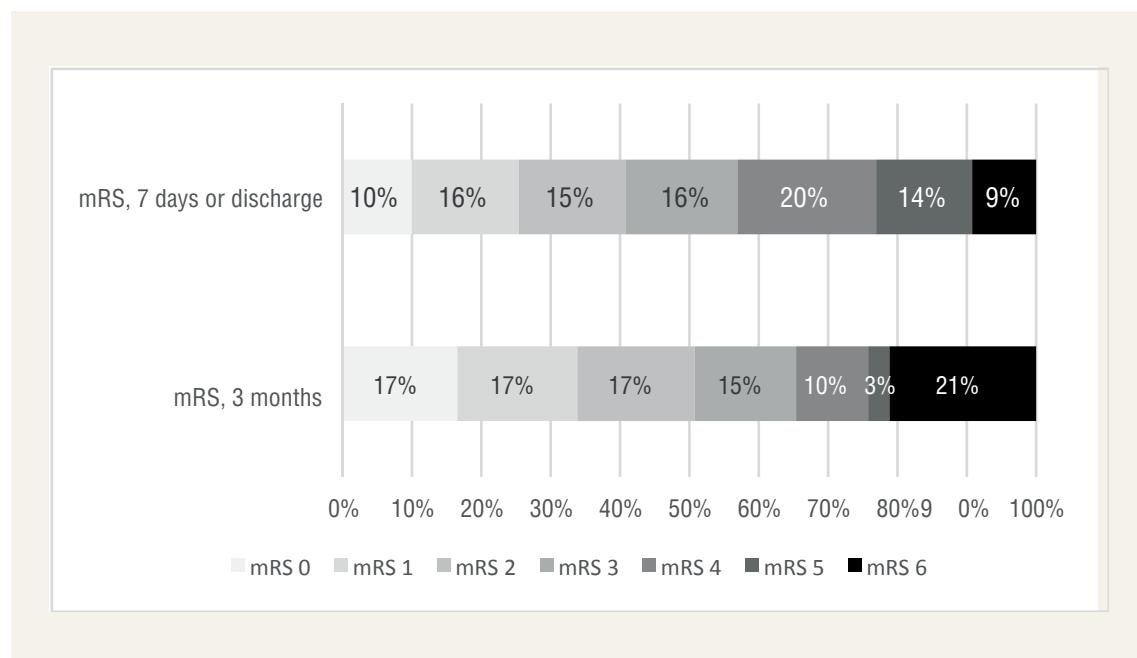
Country	Patients	Country	Patients
INDIA	4212	EGYPT	1052
TUNIS	3188	AUSTRALIA	1011
PERU	2283	MEXICO	988
BULGARIA	2180	MOROCCO	916
VENEZUELA	2022	TURKEY	796
RUSSIAN FEDERATION	1912	KYRGYZSTAN	495
BRAZIL	1399	THAILAND	457
ITALY	1362	DOMINICAN REPUBLIC	449
UNITED ARAB EMIRATES	1316	CZECH REPUBLIC	418
CHILE	1291	ECUADOR	418
SWEDEN	1267	BELGIUM	413
ARGENTINA	1130	SRI LANKA	297

Data as of November 19, 2016

Table 8. Demographic and baseline clinical characteristics for patients with confirmed data in the SITS general stroke registry

Parameter	Median or proportion (%)
Age, years	66
NIHSS Baseline	7
Onset To Door Time, min	334
Female	43%
Atrial fibrillation	15%
Hypertension	72%
Diabetes	27%
Hyperlipidemia	26%
Heart Failure	13%
Smoker, current	16%
Smoker, previous	12%
Previous stroke	16%
Previous TIA	5%
Pre-stroke mRS 0-1	84%

Figure 6. Outcomes at 7 days or discharge, and 3 months for patients in the SITS general stroke registry



SITS-EAST

SITS – EAST is a regional network in Central and Eastern Europe. It started as a study of implementation of evidence-based stroke therapy supported by the SITS International Registry. The registry was initiated in autumn 2007 with the support of a European grant. It is now an on-going registry for the documentation and statistical evaluation of stroke management in Eastern Europe.

Participating countries*:

Albania, Belarus**, Bulgaria, Croatia, Czech Republic, Estonia, Greece, Hungary, Kyrgyzstan, Lithuania, Macedonia, Moldova, Poland, Romania, Russian Federation, Slovakia, Slovenia, Turkey, Ukraine.

*See the Appendix for participating centres.

** Not yet recruiting patients.

Figure 7. Cumulative recruitment, SITS-EAST – all protocols

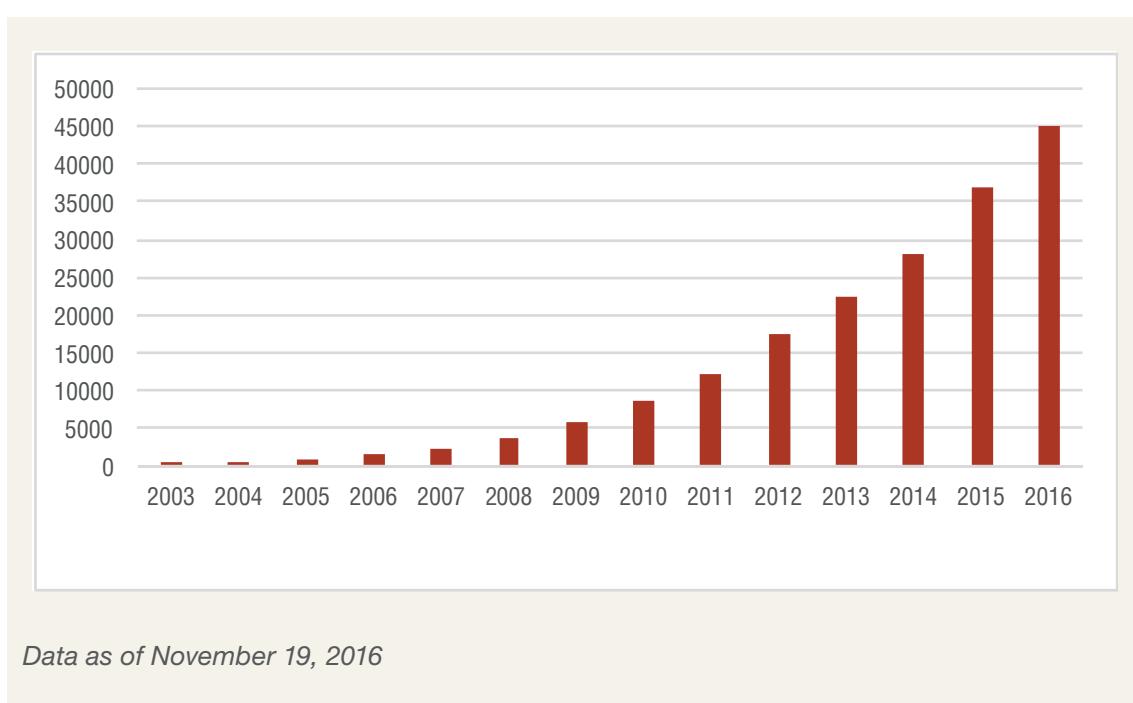


Table 9. Number of patients registered using SITS data entry forms in SITS-EAST

Data entry forms	number of patients
IVT Protocols	37098
APP Protocols	6659
Thrombectomy Protocols	1308
Total	45065

Data as of November 19, 2016

SIECV-SITS

The SIECV-SITS registry was initiated through a joint venture by Sociedad Iberoamericana de Enfermedades Cerebrovasculares (SIECV) and SITS. The SIECV-SITS Stroke Registry is a database for documentation and statistical evaluation of stroke management in Central and Latin America.

Participating countries*:

Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay, Venezuela.

*See the Appendix for participating centres.

Figure 8. Cumulative recruitment, SIECV-SITS – all protocols

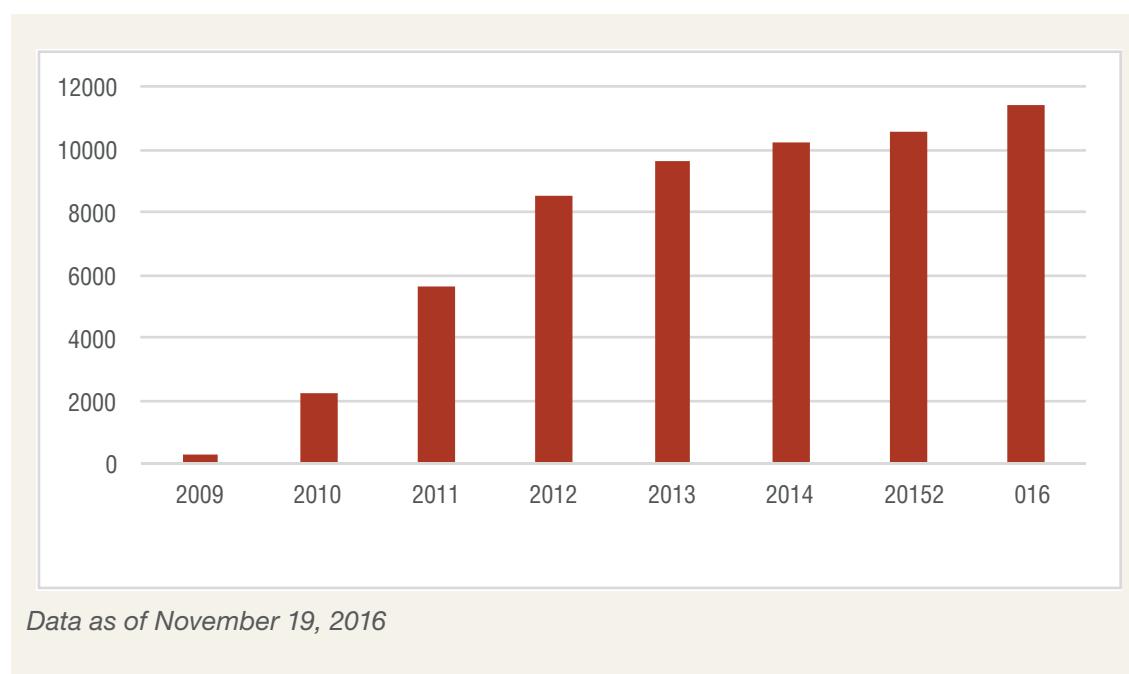


Table 10. Number of patients registered using SITS data entry forms in SIECV-SITS

Data entry forms	number of patients
IVT Protocols	37098
APP Protocols	6659
Thrombectomy Protocols	1308
Total	45065

Data as of November 19, 2016

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.

Participating countries*:

*Algeria, Egypt, Iran, Kuwait**, Lebanon, Libya, Morocco, Oman**, Qatar, Saudi Arabia, Tunisia, United Arab Emirates*

*See the Appendix for participating centres.

** Not yet recruiting patients

Figure 9. Cumulative recruitment, SITS-MENA – all protocols

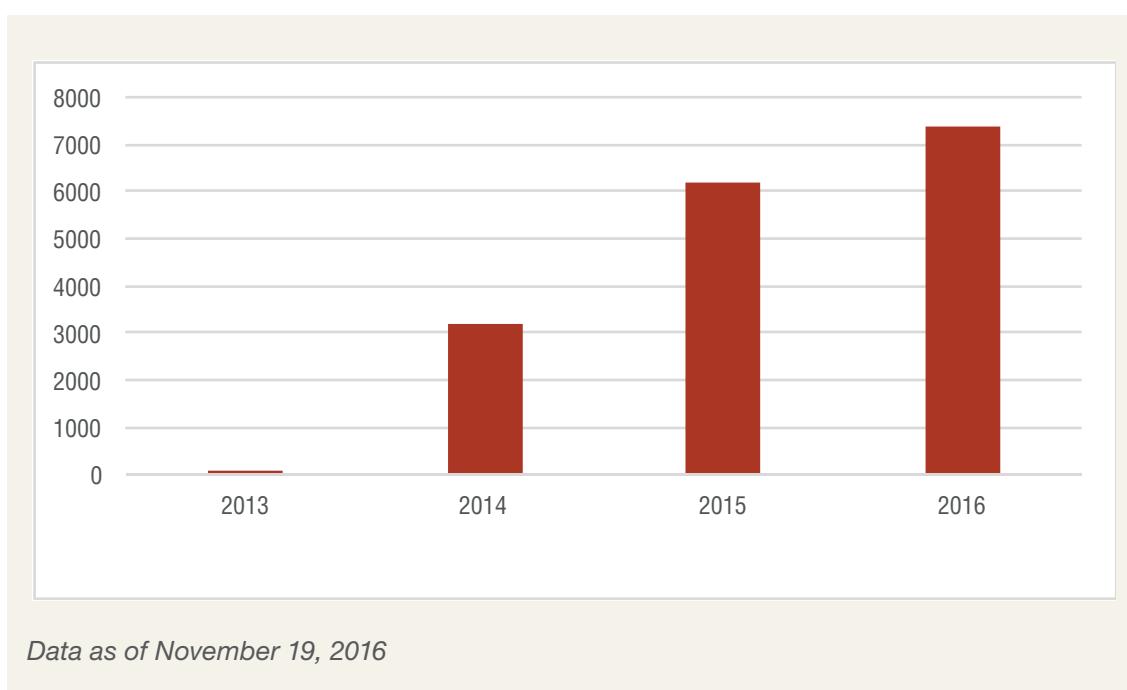


Table 11. Number of patients registered using SITS data entry forms in SITS-MENA

Data entry forms	number of patients
APP Protocols	6828
IVT Protocols	615
Thrombectomy Protocols	6
Total	7449

Data as of November 19, 2016

What is new in SITS?

The number of centres and countries participating in SITS has increased since 2015. Patient input into the registries has continued at all time high levels. We believe this is a strong indicator that SITS continues to be highly relevant for centres treating acute stroke patients worldwide.

SITS is increasingly focusing on data quality and completeness. In December 2016, we implemented a new visualisation tool, the Dashboard, for all registry users. This will enable, upon logging into the registry, immediate visualisation of the individual participating hospital's data completeness, number of patients with overdue three month follow-up, number of patients with entered data waiting to be confirmed, among other items.

We are also planning to initiate source data monitoring activities on a continuous basis in randomly selected centres, in collaboration with SITS National Coordinators.

SITS implemented a thrombectomy registry in 2013. Here, patient recruitment has seen a continued strong increase during 2016, doubling the number of recruited patients over the last year. Its current recruitment status is presented in this report. In 2013, the National Institute of Clinical Excellence in Healthcare (NICE) in the United Kingdom recommended using the SITS Thrombectomy registry to document stroke thrombectomy treatment in the UK.

In 2016, we implemented the possibility to register treatment with idarucizumab, the novel agent for the reversal of the anticoagulant effect of dabigatran. This is an addition to the range of AF- and OAC-specific patient data options added to the registry in 2014, in order to cater to users who use SITS for structured follow-up of these patients and to enable further scientific studies. In 2015, we launched the SITS AF Educational program & Study - a survey and meeting based interventional educational program aiming to identify and influence factors that facilitate or hamper initiation of oral anticoagulants (OACs) in ischemic stroke and TIA patients with AF.

Additional new data entry options appearing in 2016 are related to IV thrombolysis treatment in wake up stroke and whether the choice of alteplase dose was based on the 0.9 or 0.6 mg/kg dosing regimens.

Recruitment from the SITS-MENA (Middle East and North Africa) network has seen strong progress. Selected centres from the SITS-MENA countries are currently participating in a two-year observational study where risk factors and treatment outcomes will be compared between thrombolysed and non-thrombolysed patients. The study is scheduled for database lock on December 31, 2016.

In 2014, we developed a new online reporting tool for descriptive patient statistics. With this tool, SITS users can select and obtain pre-designed reports, where standard variables are already chosen, or can create custom-made reports. The output can be downloaded either as raw data presented in an excel file structured on an individual patient level, or as a summary with calculated descriptive statistics.

Our intention with this report is to give the reader an update on SITS patient and centre recruitment status, as well as ongoing and planned activities since the publication of the very first SITS International Report in 2014. We plan to publish the next report in spring 2018, with updated data and projects, with an emphasis on those finishing during 2016-17. We would be delighted to receive feedback on the current report, as well as suggestions for future report contents. Any views and ideas on all matters surrounding SITS are welcomed by the International Coordinating Office.

SITS Scientific Publications

- 55.** Scheitz JF, Abdul-Rahim AH, MacIsaac RL, Cooray C, Sucharew H, Kleindorfer D, Khatri, P, Broderick JP, Audebert HJ, Ahmed N, Wahlgren N, Endres M, Nolte CH, Lees KR. **Clinical selection strategies to identify stroke patients with large anterior vessel occlusion-Results from SITS-ISTR.** (Stroke, In press December 2016)
- 54.** Cooray C, Mazya M, Bottai M, Dorado L, Skoda O, Toni D, Ford GA, Wahlgren N, Ahmed N. **External Validation of the ASTRAL and DRAGON Scores for Prediction of Functional Outcome in Stroke.** *Stroke.* 2016 Jun;47(6):1493-9.
- 53.** Ahmed N, Hermansson K, Bluhmki E, Danays T, Nunes AP, Kenton A, Lakshmanan S, Toni D, Mikulik R, Ford GA, Lees KR and Wahlgren N. **The SITS-UTMOST: A registry-based prospective study in Europe investigating the impact of regulatory approval of intravenous Actilyse in the extended time window (3–4.5 h) in acute ischaemic stroke.** European Stroke Journal, first published on July 29, 2016 doi:10.1177/2396987316661890
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Numbers of registered patients by centre and country

List of centres and countries contributing data between December 25, 2002 and November 19, 2016, including total number of registered patients.

Country and hospital	Patients	
Albania	7	
National Coordinator: To be appointed		
Mother Theresa University Hospital Center (ALMTH)	7	
Algeria	124	
National Coordinator: Selma Kesraoui		
Hopital Frantz Fanon (DZFRA)	91	
CHU Benbadis (DZBEN)	33	
Argentina	1172	
National Coordinator: Sebastian Ameriso		
FLENI (ARFLE)	630	
Hospital Cordoba (ARHCO)	346	
Sanatorio Parque (ARSPA)	94	
Hospital Privado Santa Clara de Asís (ARHPS)	59	
CEMIC (ARCEM)	16	
Ramos Mejia (ARRME)	10	
Centro Gallego de Buenos Aires (ARCGB)	6	
Policlínico Neuquén (ARPNE)	4	
Sanatorio Nuestra Señora del Rosario (ARSAN)	4	
Instituto Cardiovascular de Rosario (ARICR)	3	
Australia	3820	
National Coordinator: Romesh Markus, Mark Parsons		
The Queen Elizabeth Hospital (AUQEH)	1232	
Box Hill Hospital (AUBOX)	863	
Austin Health (AUAUS)	393	
Flinders Medical Centre (AUFLI)	335	
St Vincent's Hospital (AUSTV)	214	
Westmead Hospital (AUWES)	171	
Gosford Hospital (AUGOS)	160	
Northern Health (AUNHE)	121	
Monash Medical Centre (AUMON)	70	
Sir Charles Gardiner Hospital (AUGAR)	49	
John Hunter Hospital New South Wales (AUJOH)	49	
Bankstown-Lidcombe (AUBLH)	48	
Nambour General Hospital (AUNGH)	30	
Lyell McEwin Hospital (AULME)	18	
Royal Adelaide Hospital (AURAD)	14	
Frankston Hospital (AUFSH)	11	
Gold Coast Hospital (AUGCH)	8	
Tamworth Hospital (AUTRR)	7	
Wagga Wagga Base Hospital (AUWWB)	7	
Fremantle Hospital (AUFRE)	5	
Bendigo Health (AUBHC)	4	
Liverpool Hospital (AULIV)	4	
The Townsville Hospital (AUTOW)	4	
South West Healthcare (AUSWH)	2	
Concord Hospital (AUCON)	1	
Austria	1303	
National Coordinator: Raoul Eckhardt		
Landesklinikum Tulln (ATGUG)	310	
Christian-Doppler-Klinik Salzburg (ATSBG)	142	
Neuromed Campus, Kepler Universitätsklinikum (ATWJL)	113	
Med Campus III, Kepler (ATAKL)	107	
University Hospital Innsbruck (ATINS)	103	
Krankenhaus der Barmherzigen Brüder Wien (ATBBW)	83	
KH Vöcklabruck (ATVBK)	60	
Wr Neustadt (ATWRN)	53	
Krankenhaus der Barmherzigen Brüder Linz (ATBBL)	48	
Wilhelminenspital (ATWHS)	46	
Univ.-Klinikum Graz (ATUKG)	41	
Klinikum Wels-Grieskirchen (ATKWG)	39	
Mostviertelklinikum Amstetten (ATMAM)	28	
Zentralklinikum St. Pölten (ATSPO)	26	
Neurologisches Zentrum Rosenhügel (ATROS)	17	
II. Neurolog. Abteilung Rosenhügel Wien (ATROZ)	16	
Krankenanstalt Rudolfstiftung (ATRST)	16	
KH der Barmherzigen Schwestern Linz (ATBSL)	15	
Otto-Wagner-Spital Wien (ATOWS)	11	
Kepler Universitätsklinikum Neuromed Campus (ATKPL)	9	
Waldviertelklinikum Horn (ATHWV)	7	
Landesnervenklinik Sigmund Freud Graz (ATNKG)	6	
LKH Steyr (ATSTE)	6	
Weinviertelklinikum Mistelbach (ATMIS)	1	

Country and hospital	Patients	Country and hospital	Patients
Belgium	3098	AZ Sint Jozef - Malle (BEF23)	6
National Coordinator: Geert Vanhooren, Patrice Laloux		AZ Sint Augustinus Veurne (BEF43)	6
CHU St. Luc - Woluwe (BEW02)	649	CHA Libramont (BEW07)	6
AZ Sint Jan Brugge-Oostende (BEF01)	417	Mariaziekenhuis - Overpelt (BEF55)	5
AZ Klini - Brasschaat (BEF24)	336	CHU Brugmann (BEW20)	5
AZ Groeninge (BEF26)	226	Heilig Hartziekenhuis Mol (BEF61)	4
UZ Brussel (BEF33)	177	CHU Hopital Erasme - Bruxelles (BEW03)	4
UZ Gasthuisberg - Leuven (BEF02)	169	Hôpital de Jolimont (BEW11)	4
Mont-Godinne University Hospital (BEW01)	141	Coordination Belgium (BECBE)	3
AZ Vezalius - Tongeren (BEF35)	99	ACZA Stuivenberg - Antwerpen (BEF41)	3
AZ Jan Ypermanziekenhuis - Ieper (BEF17)	55	CH Reine Fabiola, Montignies (BEW06)	3
CHU TIVOLI (BEW08)	52	AZ Waasland - Sint Niklaas (BEF11)	2
AZ Sint Blasius - Dendermonde (BEF03)	51	Clinique Saint-Jean, Bruxelles (BEW04)	2
AZ Sint-Lucas - Gent (BEF28)	45	CHR Tournai (BEW09)	2
AZ Damiaan - Oostende (BEF47)	45	CH du Bois de l'Abbaye (BEW14)	2
AZ Sint Vincentius - Antwerpen (BEF12)	44	Centre Hospitalier Peltzer Verviers (BEW17)	2
AZ Middelheim - Antwerpen (BEF31)	42	Clinique St. Joseph - St. Vith (BECJV)	1
Imeldaziekenhuis - Bonheiden (BEF29)	41	AZ Jan Palfijn - Gent (BEF13)	1
AZ Turnhout (BEF53)	41	AZ Alma - Eeklo/Sijsele (BEF51)	1
AZ Maria Middelares - Gent (BEF40)	33	Hôpital Civil Charleroi (BEW05)	1
AZ Sint Lucas - Brugge (BEF10)	30	Clinique St.-Pierre, Ottignies (BEW18)	1
AZ Sint Rembert - Torhout (BEF49)	27	Bosnia and Herzegovina	53
Sint-Andriesziekenhuis (BEF21)	26	National Coordinator: Sinisa Miljkovic	
Jessa Hospital (BEF59)	25	University Clinical center of Republic of Srpska (BASPR)	53
AZ Sint Maarten - Duffel (BEF04)	22		
AZ Algemeen Ziekenhuis - Aalst (BEF09)	22	Bolivia	14
AZ Sint-Maria Halle (BEF57)	21	National Coordinator: Juan Carlos Duran	
AZ Nikolaas (BEF60)	19	Hospital Materno Infantil (BOHMI)	14
Sint-Trudo (BEF38)	18		
AZ Monica (BEF58)	18	Brazil	2051
UZ Antwerpen - Antwerpen (BEF07)	17	National Coordinator: Gabriel de Freitas, Jamary Oliveira-Filho, Octavio Pontes Nero, Sheila Martins	
RZ Tienen (BEF20)	16	Hospital de Clínicas de Porto Alegre (BRCPA)	1265
GZA hospital (BEF52)	15	HOSPITAL ESTADUAL CENTRAL (BRHEC)	286
Cliniques de l'Europe (BEW13)	13	Hospital das Clínicas de Ribeirão Preto (BRCRP)	174
AZ Onze-Lieve-Vrouw - Aalst (BEF05)	12	São Lucas Hospital (BRS LH)	120
ASZ Geraardsbergen (BEF56)	12	Hospital Lucio Rebelo (BRLUR)	70
AZ Virga Jesse Ziekenhuis - Hasselt (BEF25)	11	Hospital Espanhol (BRRNC)	38
AZ Delta (BEF54)	11	Hospital Governador Celso Ramos (BRGCR)	18
AZ Heilige Familie - Reet (BEF06)	8	Instituto Cardiopulmonar (BRCAR)	17
Cliniques Saint-Joseph (BEW22)	8	Hospital Meridional (IVT) (BRMER)	15
AZ Jan Portaels (BEF42)	7	Hospital Paulistano (BRHPA)	14
UZ Gent - Gent (BEF48)	7	Hospital Moinhos de Vento (BRMOI)	8
Regionaal ziekenhuis H. Hart - Leuven (BEF18)	6		

Country and hospital	Patients	Country and hospital	Patients
HOSPITAL MUNICIPAL DR ARTHUR DE RIBEIRO SABOYA (BRMAR)	7	No. 411 Hospital (CNSHA)	13
Hospital Municipal Souza Aguiar (BRMSA)	6	1st Municipal Peoples Hospital Guangzhou (CNPHG)	11
Hospital Universitário de Santa Maria (BRUSM)	3	An Zhen Hospital (CNAZH)	9
Hospital Sao Lucas PUCRS (BRHSL)	2	Shanghai Sixth Peoples Hospital (CNSSP)	8
Hospital Mãe de Deus (BRMDD)	2	The First Affiliated Hospital of GuangZhou University of Chinese Medicine (CNGUZ)	
Centro hospitalar Unimed (BRCHU)	1	Da Ping hospital (CNDAP)	7
Hospital Odilon Behrens (BRHOB)	1	Third Hospital of Sun Yat-sen University (CNSYU)	6
Hospital Vita (BRHVC)	1	Hua Shan Hospital (CNHSH)	5
Hospital Municipal do Campo Limpo (BRMCL)	1	1st affiliated Guangzhou medical college (CNGMC)	4
Hospital Moinhos de Vento (BRMDV)	1	Beijing Military General Hospital (CNBMG)	3
Hospital Municipal São José (BRMSJ)	1	Xinhua Hospital Affiliated to Shanghai Jiaotong University School of Medicine (CNSXH)	3
Bulgaria	2 692	Beijing Tsinghua Changgung Hospital (CNBTC)	2
National Coordinator: Silva Andonova		Anhui Provincial Hospital (CNANH)	1
Sveta Marina Varna (BGSVE)	2110	Haidian Hospital Beijing City (CNHHB)	1
"University Multiprofile Hospital for Active Treatment		1st affiliated hospital JiNan University (CNHJU)	1
"St. Anna"" Sofia (BGSOF) (BGSOE"	213	Colombia	71
MHAT-Shumen (BGMSh)	137	National Coordinator: To be appointed	
Multi-profile Hospital for Active Treatment (BGMPA)	123	Hospital Universitario San Ignacio (COIGN)	25
"MBAL""St.Anna"" (BGSTA)"	93	Hospital El Tunal (COTUN)	18
MHAT-Plovdiv (BGMPL)	10	Clinica de Marly (COSNE)	16
MHAT-Dobrich (BGMDO)	5	Clinica Universitaria Universidad Nacional de Colombia (COCDC)	4
MHAT-Silistra (BGMSI)	1	Clinica Shaio (COCSH)	4
Chile	1 490	Fundacion Santa Fe de Bogota (COFUN)	3
National Coordinator: Arnold Hoppe, Claudio Sacks		Clinica Misael Pastrana (COCMP)	1
Clinica Alemana de Santiago (CLCAS)	1044	Costa Rica	38
Clinica Reñaca (CLRNA)	164	National Coordinator: To be appointed	
Hospital Carlos Van Buren (CLCVB)	142	Hospital San Juan de Dios (CRSJJD)	38
Clinica Alemana de Temuco (CLADT)	101	Croatia	1394
Hospital Fach (CLHFA)	24	National Coordinator: Vanja Basic Kes	
Hospital Naval Almirante Nef (CLNAN)	12	University Hospital Center Zagreb (HRUHZ)	448
Hernán Henríquez Aravena (CLHHA)	2	University hospital Dubrava (HRDUB)	204
Hospital San Pablo de Coquimbo (CLSPC)	1	Sestre milosrdnice University hospital (HRSMU)	177
China	248	University Hospital Sveti Duh (HRGSD)	168
National Coordinator: Yongjun Wang		General Hospital Dubrovnik (HRGHD)	78
Xuanwu Hospital Capital Medical University (CNXUA)	36	General Hospital Vukovar (HRGHV)	70
Shanxidai Hospital (CNSXI)	29	University Hospital Center Split (HRSPL)	67
Zhongshan hospital,Fudan University (CNZFU)	28	Op_a bolnica_ibenik (HRSIB)	48
Beijing Tiantan Hospital (CNBTH)	21	KBC Rijeka (HRRIJ)	39
The First Affiliated Hospital of Zhengzhou University (CNAZE)	20	"General Hospital ""Dr. Josip Bencevic"" (HRJOB)"	31
The branch of shanghai first hospital (CNSFH)	19	Osijek Clinical Hospital Centre (HROCH)	28
Hubei Zhongshan Hospital (CNHZH)	15		

Country and hospital	Patients	Country and hospital	Patients
Opcbolnica Karlovac (HROBK)	23	Karvinská hornická nemocnice a.s. (CZKHN)	185
County Hospital Varazdin (HRVAR)	7	Nemocnice Decin (CZNDE)	178
Virovitica General Hospital (HRVIR)	6	Nemocnice Znojmo (CZZNO)	177
Czech Republic	20 049	Nemocnice Trinec Sosna (CZTRI)	173
National Coordinator: Robert Mikulik		Nemocnice Ceska Lipa (CZCES)	142
FN Plzen (CZUHP)	1686	Nemocnice Nove Mesto na Morave (CZNMM)	137
FN u sv Anny v Brne (CZANN)	1126	Nemocnice Bene_ov (CZRUD)	137
FN Brno (CZFNB)	916	Nemocnice Prost_jov (CZPRO)	85
FN Olomouc (CZFOL)	752	Nemocnice Strakonice (CZHST)	76
Krajska nemocnice Liberec (CZKRA)	741	FN Bulovka (CZFBU)	73
Nemocnice Usti nad Labem (CZMAS)	713	Nemocnice Most (CZNMO)	52
FN Motol (CZFN)	705	Nemocnice Jind_ich_v Hradec (CZNJH)	47
VFN Neurol.kl.1.LF a UK (CZVFN)	660	Jicin nemocnice (CZONJ)	43
FN Ostrava (CZFNO)	646	Vojenská nemocnice Brno (CZVON)	43
FN Hradec Králové (CZUHK)	632	Nemocnice Rychnov nad Kn_nou (CZNCG)	42
Nemocnice Vítkovice (CZVNB)	591	Nemocnice Opava (CZNOO)	37
Nemocnice _eské Bud_jovice (CZNCB)	582	Okresni nemocnice Tabor (CZONT)	37
Nemocnice Kladno (CZNSK)	517	Kyjov nemocnice (CZKYJ)	34
Nemocnice Ostrava (CZMNO)	510	Praha - Nemocnice na Frantisku (CZNFH)	33
Nemocnice Chomutov (CZNCV)	504	Frydek-Mistek nem (CZNFM)	33
Úst_ední vojenská nemocnice (CZUVN)	480	Nemocnice M_Inik (CZMEL)	31
Nemocnice B_eclav (CZNEM)	441	Nemocnice Ústí nad Orlicí (CZONE)	19
Nemocnice Jihlava (CZNEJ)	424	Havirov (CZNSP)	11
Nemocnice Zlín (CZBNZ)	413	Nemocnice Havlí_k_v Brod (CZNHB)	10
Nemocnice Pardubice (CZDHP)	403	Prerov nemocnice (CZPRE)	6
Nemocnice Karlovy Vary (CZKAR)	382	Chrudim Nemocnice (CZNCH)	4
Fakultni Thomayerova nemocnice (CZFTN)	360	Cheb Nemocnice (CZNCE)	1
Nemocnice Kolín (CZONK)	334	Denmark	2375
Nemocnice Teplice (CZTEP)	290	National Coordinator: Grethe Andersen, Karsten Overgaard	
Nemocnice Pisek (CZNOP)	287	Århus Hospital, Århus University Hospital (DKAAR)	650
Nemocnice Na Homolce (CZNNH)	283	University Hospital of Cph at Glostrup (DKGLO)	424
SZZ Krnov (CZSKP)	276	Odense University Hospital (DKOUH)	383
FN Karvinská Vinohrady (CZKVI)	271	Roskilde (DKRSK)	265
Nemocnice Uherské Hradi_t_(CZUHE)	267	Aalborg Hospital (DKAAH)	253
Nemocnice P_íbram (CZPRI)	259	University Hospital of Cph at Bispebjerg (DKBIS)	219
Nemocnice Litomysl (CZLTM)	255	Holstebro (DKHOL)	138
Nemocnice Litomerice (CZMES)	238	Sydvestjysk Hospital Esbjerg (DKSHE)	35
Nemocnice Sokolov (CZNES)	220	Bornholms Central sygehus (DKBCS)	7
Nemocnice Vyskov (CZVYS)	214	University Hospital of Cph at Gentofte (DKFRE)	1
Nemocnice Mlada Boleslav (CZKLA)	213	Dominican Republic	449
Nemocnice Blansko (CZBLA)	212	National Coordinator: Margarita Cerda	
Nemocnice Nachod (CZREG)	202	Juan Pablo Pina (DOJPP)	449
Nemocnice Trutnov (CZOBL)	198		

Country and hospital	Patients	Country and hospital	Patients
Ecuador	424	Kanta-Häme Central Hospital (FIKAN)	12
National Coordinator: Patricio Abad		Kymenlaakso Central Hospital (FIKYM)	6
Hospital Metropolitano (ECHME)	200	Etelä-Karjalan Keskussairaala (FISKA)	6
Eugenio Espejo Hospital (ECEEH)	125	Päijät-Häme Hospital District (FIPAI)	4
Carlos Andrade Marín (ECCAM)	56	Savonlinna Central Hospital (FISAV)	2
Hospital Teodoro Maldonado Carbo (ECTMC)	43	Ålands Centralsjukhus (FIALC)	1
Egypt	1181	Central Hospital of Kainuu (FIKAI)	1
National Coordinator: Foad Abd-Allah		Kuusankoski District Hospital (FIKUU)	1
Cairo University Hospitals (EGCUN)	705	France	354
Ain Shams Universities (EGASU)	309	National Coordinator: Didier Leys	
Ain Shams Specialized Hospital (EGAIS)	116	Tenon (FRTEN)	65
Tanta University Hospital (EGTUH)	47	Rangueil (FRRAN)	55
Alexandria university (EGALX)	3	Sainte Anne Paris (FRSAI)	52
Cairo university hospitals (EGCUH)	1	Lille (FRLIL)	41
El Salvador	39	Perpignan (FRPER)	28
National Coordinator: William Arias Sifontes		Nancy (FRNAY)	24
Hospital Nacional Rosales (SVROS)	27	Tours (FRTOU)	24
HMQ ISSS (SVHMQ)	8	Nice (FRNIC)	21
Hospital Diagnostico Escalon (SVHDE)	4	Dijon (FRDIJ)	12
Estonia	2666	Angouleme (FRANG)	8
National Coordinator: Janika Körv		Bourg en bresse (FRBOU)	7
North Estonia Medical Centre (EENOM)		Hopital Emile Muller (FREMI)	7
Tartu University Hospital (EETAR)	881	Purpan Hospital (FRPUR)	5
East-Tallinn Central Hospital (EEETC)	854	Bordeaux (FRBOR)	3
LTKH (EEWTC)	520	Centre Hospitalier Belfort Montbeliard (FRBEM)	1
	411	Montpellier (FRMON)	1
Finland	3670	Germany	6634
National Coordinator: Turgut Tatlisumak, Risto Roine		National Coordinator: Peter Ringleb	
Helsinki University Central Hospital (FIHUS)	1504	University hospital of Heidelberg (DEHEI)	1573
Tampere University Hospital (FITAM)	1171	University of Leipzig (DELEI)	978
Turku University Central Hospital (FITUR)	314	Klinikum Ludwigsburg (DELUD)	751
Central Hospital of Central Finland (FIJYV)	179	JWK Minden (DEMIN)	639
Central Hospital of Central Finland (FICH)	171	Carl-Thiem-Klinikum (DECAR)	575
Kuopio University Hospital (FIKUO)	134	Klinikum Dortmund gGmbH (DEDOR)	455
Mikkeli Central Hospital (FIMIK)	37	Städt.Krankenhaus München-Harlaching (DESTA)	197
Seinäjoki Central Hospital (FISEI)	30	Univ.Hospital Mannheim (DEMAN)	194
Oulu University Hospital (FIOUL)	23	Kreisklinikum Siegen (DEKRE)	192
Länsi-Pohja Central Hospital (FILAN)	20	Klinikum Frankfurt / Oder (DEKFO)	163
Central Hospital of Lapland (FILAP)	19	Klinikum Ludwigshafen (DELUH)	115
Pohjois-Karjalan Keskussairaala (FIPOH)	19	Krankenhaus Nordwest (DEFRA)	106
Satakunta Central Hospital (FISAT)	16	Landesklinik Teupitz (DETEU)	101
		Universitätsklinik Münster (DEMUE)	97

Country and hospital	Patients	Country and hospital	Patients
Neurologische Universitätslinik Koeln (DEKOE)	87	Hospital Escuela (HNHES)	10
Charité - Campus Benjamin Franklin (DECHA)	86	Hospital Nacional Dr. Mario Catarino Rivas (HNMCR)	5
Katholisches Klinikum Koblenz Brüderhaus (DEKOB)	78	Instituto de Neurociencias (HNESC)	4
Klinikum Bremen Mitte (DEKBM)	74		
Klinikum Villingen-Schwennenigen (DEVSD)	74	Hong Kong	24
Universitäsklinikum Gießen (DEGIE)	57	National Coordinator: Thomas Wai Hong Leung	
Krankenhaus Schwabing (DESCH)	13	Prince of Wales Hospital (HKPOW)	24
Klinikum Mittelbaden (DEMIT)	7		
Kreisklinik Mindelheim (DEMIH)	5	Hungary	1926
St. Bonifatius Hospital (DELIN)	4	National Coordinator: László Csiba, Klára Fekete	
Diakonissenkrankenhaus Flensburg (DEDIF)	3	University of Debrecen (HUDEB)	777
Zentralklinikum Augsburg (DEDEA)	2	Kanizsai Dorottya Kórház (HUKDK)	349
Westpfalz-Klinikum GmbH (DEKAI)	2	Fels_Szabolcsi Kórház (HUFSK)	199
Universitätsklinikum Schleswig-Holstein Campus Kiel (DEUSH)	2	Fejer Megyei Szent György Korhaz (HUFMS)	184
Universitätsklinik Knappschaftskrankenhaus (DEKNA)	1	Javorszky Ödön (HUJAV)	118
Ruppiner Kliniken GmbH (DERUP)	1	Aladar Petz County Hospital (HUALA)	71
University Tübingen (DETUB)	1	Josa Andras Oktatokorhaz Egeszsegugyi Szolgaltato Kft.	
TU Munich (DETUM)	1	(HUJAO)	59
Greece	469	Szent Borbála (HUSBO)	40
National Coordinator: Georgios Tsivgoulis, Jobst Rudolf, Kostas Vemmos		B.-A.-Z. County Hospital (HUBAZ)	36
Larisa Regional General Hospital (GRLAR)	128	Peterfy Sandor u. Korhaz (HUPSK)	25
Papageorgiou General Hospital (GRPAP)	89	Semmelweis University (HUSEM)	23
Evaggelismos General Hospital (GREVG)	52	Bajcsy-Zsilinszky Kórház (HUBAJ)	16
Metropolitan (GRMET)	36	Dr Kenessey Albert Hospital (HUKEN)	9
Attikon University Hospital (GRATT)	30	State Health Centre (HUSHC)	7
University Hospital of Ioannina (GRUHI)	30	Szent Rokus Hospital (HUSZE)	7
University Hospital of Alexandroupolis (GRALE)	25	University of Pecs Medical School (HUPEC)	3
General Hospital of Athens (GRATH)	21	Flor Ferenc Hospital (HUFLO)	2
AHEPA University Hospital (GRAHE)	18	Pandy Kalman Korhaz (HUPKK)	1
University Hospital of Larissa (GRUHL)	17		
University Hospital of Patras (GRPAT)	16	Iceland	8
G.Papanikolaou Hospital (GRGPH)	4	National Coordinator: To be appointed	
IASO General (GRIAS)	3	Landspitali University Hospital (ISLAN)	8
Guatemala	89		
National Coordinator: Luis Salguero		India	4 774
Hospital Herrera Llerandi (GTHER)	54	National Coordinator: Dheeraj Khurana, Vasantha Padma	
Hospital Roosevelt (GTHR)	31	Postgraduate Institute of Medical Education & Research (INPGI)	2486
Hospital General San Juan de Dios (GTABC)	4	Apollo Gleneagles Hospitals (INAGH)	781
		Kokilaben dhirubhai ambani hospital and	
		medical research institute (INKDA)	439
Honduras	19	Medanta the Medicity (INMED)	326
National Coordinator: Marco T. Medina		N. M. Virani Wockhardt Hospital (INWVI)	173
		Lilavati Hospital and Research Centre (INLIL)	115
		AMRI Hospitals (INAMR)	114
		Wockhardt Hospital Nagpur (INWOK)	53

Country and hospital	Patients	Country and hospital	Patients
Pondicherry Institute of Medical Sciences (INPDC)	40	Italy	31 572
Baby Memorial Hospital (INBMH)	32	National Coordinators: Danilo Toni	
Jehangir Hospital Apollo Hospitals Group (INJHA)	28	Nuovo Ospedale Civile Modena (ITMOD)	1314
Global Health City (INGHC)	24	Azienda Ospedaliera Universitaria Integrata Verona (ITVER)	1162
Lalitha Super Speciality Hospital (INLAL)	22	Arcispedale Santa Maria Nuova (ITARC)	956
Care hospital (INCAH)	19	Policlinico Umberto I - University La Sapienza (ITLAS)	951
Max Hospital Shalimar Bagh (INMXS)	19	Ospedale Centrale di Bolzano (ITCDB)	751
Christian Medical College Hospital (INcmc)	18	Azienda Ospedaliera Universitaria Senese (ITSIE)	569
Wockhardt Hospitals Ltd, Unit- Adams Wylie Memorial (INWAM)	17	Jazzolino (ITGIA)	524
Nizams Institute of Medical Sciences (INNIM)	14	Ospedale S. Maria Misericordia Udine (ITSMM)	517
All India Institute of Medical Sciences (INAI)	13	S.Anna Hospital (ITASA)	514
Maharishi Markandeshwar Institute of Medical Sciences and Research (INMHI)	13	Policlinico tor vergata (ITPTV)	501
Fortis hospital (INFOH)	7	A.O. Spedali Civili di Brescia (ITBRS)	497
Apollo Hospitals Hyderabad (INAHH)	6	S. Bortolo (ITOSC)	484
Little Flower Hospital- Research Centre (INLFH)	5	Ospedale Papa Giovanni XXIII (ITRIU)	457
Wockhardt Hospital Nashik (INWOC)	5	San camillo-forlanini (ITCAM)	454
Hiranandani Hospital (INHIR)	2	Cà Foncello (ITTRV)	449
Lourdes Hospital neurology (INLOH)	2	Guglielmo da saliceto (ITPIA)	386
NH Mazumdar Shaw Medical center (INNHS)	1	Ospedale Valduce Como (ITVAL)	372
Iran	287	Careggi (ITUFI)	359
National Coordinators: Mehdi Farhoudi		Ospedale Brotzu Cagliari (ITBRO)	352
Imam Reza (IRREZ)		S. Corona (ITSCO)	348
Imam Husain Hospital (IRHUS)	175	San Giovanni Bosco (ITSGB)	341
Firoozgar general Hospital (IRFRZ)	79	Policlinico Universitario Padova Neurol (ITPUN)	340
Ireland	57	Scientific Institute San Raffaele Hospital (ITSRF)	337
National Coordinators: Peter Kelly, Killian O'Rourke		Santi Antonio e Biagio (ITSAB)	332
Mater Misericordiae University Hospital (IEMAT)		A.O.U. Policlinico G. Martino Messina (ITGMA)	324
St James Hospital (IESJH)	50	Santa Chiara Hospital (ITUPI)	323
St Vincent's University Hospital (IEVUH)	5	Ospedale Imperia (ITIMP)	317
Israel	255	San carlo borromeo (ITSCA)	312
National Coordinators: Roni Eichel		Università degli Studi di Perugia (ITUNI)	304
Barzilay Hospital (ILBAR)	2	Ospedale Niguarda Ca' Granda (ITNIG)	301
Tel-Aviv Sourasky Medical Center (ILSOU)	82	Ospedale Maggiore (ITOMB)	301
Hadassah Ein-Kerem (ILHEK)	64	Ospedale di Circolo e Fondazione Macchi Varese (ITACM)	292
Hillel Yaffe Medical Center (ILHIL)	58	Hospital Villa Sofia (ITVSO)	289
Sheba Medical Center (ILSHE)	29	Ospedale civile (ITOCL)	283
Bnai-Zion Medical Centre (ILBNA)	15	Rivoli (ITORI)	279
Hadassah University Hospital (ILHAD)	4	Ospedale dell'Angelo (ITMES)	272
	3	S.Orsola-Malpighi (ITSOM)	270
		Azienda Ospedaliera di Cosenza (ITAOC)	269
		San Martino Genova (ITSMA)	263
		Fond Poliambulanza Brescia (ITFPO)	259
		Cattinara (ITOTS)	258

Country and hospital	Patients	Country and hospital	Patients
Ospedale Civile Spirito Santo Pescara (ITOSP)	255	"Ospedale ""S. Maria delle Croci"" (ITMDC)"	114
Azienda ospedaliero-universitaria di Parma (ITAOU)	252	Ospedale della Misericordia (ITMIS)	111
A.S.O. S. Croce e carle (ITSCC)	249	Ospedale Civile Venezia, U.O.C. Neurologia (ITVEN)	110
SS. Annunziata (ITSSA)	245	Ospedale Civile di Conegliano (Treviso) (ITTRE)	109
Vito fazzi (ITFZI)	238	SS.Annunziata (ITANZ)	106
Ospedale SS Filippo e Nicola (ITFNA)	237	OspSacro Cuore Negrar VR (ITCUO)	106
S. Maria della Misericordia (ITSAD)	236	Livorno (ITLIV)	103
Ospedale santa maria annunziata Firenze (ITSAN)	236	Ospedale Desio (ITDES)	99
Carlo Poma (ITCAP)	233	Osedali Riuniti Ancona (ITRIA)	99
Policlinico Gemelli (ITGEM)	227	Istituto Auxologico Italiano - Ospedale San Luca (ITAUX)	95
Sant'Antonio Hospital (ITANT)	218	Ospedale S. Maria del Prato (ITOMP)	93
Ospedale Civico Palermo (ITOCA)	218	San Giacomo Apostolo (ITSGA)	93
Policlinico Bari (ITCON)	217	Ospedale civile mirano (ITMIR)	92
Sant'Andrea (ITAND)	212	Santa Croce Moncalieri Maggiore di Chier (ITSCM)	92
Ospedale San Gerardo (ITSGE)	211	Ospedale Regionale della valle d'Aosta (ITAOS)	91
University of Genova (ITUGE)	201	Generall hospital (ITBEL)	91
Presidio Ospedaliero Cremona (ITCRE)	199	Azienda Ospedaliera S. Maria Terni (ITTER)	91
Presidio Ospedaliero Sant'Andrea La Spezia (ITOSA)	199	Ospedale San Luca (ITOCL)	90
Santa Chiara Hospital (ITTNT)	196	Ospedale Edoardo Agnelli (ITEDA)	89
San Giuseppe (ITGIU)	185	Policlinico San MATTEO (ITMAT)	89
Maurizio Bufalini (ITMAB)	184	Crema (ITOMC)	89
Fondazione Ca' Granda Maggiore Milano (ITMIL)	181	Madonna del Soccorso Hospital (ITMSH)	87
Cazzavillan (ITCAZ)	180	"Azienda Ospedaliero-Universitaria ""Ospedali Riuniti"" di Foggia (ITOSR)"	87
Ospedale Maria Vittoria Torino (ITMAV)	176	Ospedale San Salvatore-L'Aquila (ITUQAQ)	87
Mater Salutis Hospital (ITSAL)	170	Antonio Perrino (ITAPE)	86
Ospedale A Manzoni Lecco (ITOML)	168	AO di Lodi (ITMAG)	85
G B Morgagni L Pierantoni Forli (ITGMP)	161	Ospedale Martini Torino (ITMAR)	83
SanTommaso dei Battuti (ITTOM)	161	Cardinal Massaia (ITCMA)	82
Ospedale delle Apuane (ITAPU)	160	Azienda Ospedaliera Cannizzaro (ITCZZ)	82
"Casa Di Cura ""Dott. Pederzoli S.P.A."'' (ITPED)"	157	Ospedale Regionale Miulli (ITORM)	81
Santorso Alto Vicentino (ITSAV)	155	Ospedale di Vimercate (ITVIM)	81
O.C. Renzetti (ITOGR)	152	Santa Maria alla Gruccia (ITSMG)	80
Molinette (ITSGM)	148	"A.O. ""G. Rummo"" (ITGRU)"	79
P.O.M Villa Scassi ASL3 Genova (ITPOM)	146	S. Bassiano Hospital (ITBAS)	78
Misericordia e Dolce (ITPRA)	145	Policlinico San Marco (ITZIN)	78
Giuseppe Mazzini Teramo (ITMAZ)	143	Regina Elena (ITREG)	77
Ospedale Civile Cittadella (ITCCI)	132	San Giovanni di Dio (ITSGD)	76
Istituto clinico humanitas (ITICH)	129	Ospedale di Fidenza (Parma) (ITODF)	74
Azienda Ospedaliera s. Maria Degli Angeli Pordenone (ITMAP)	129	S. Lazzaro (ITLAZ)	73
Ospedale Lavagna (ITOLA)	120	P.O. San Francesco (ITPOS)	71
Istituto neurologico casimiromondino (ITMON)	116	Maggiore della Carità Novara (ITMAD)	70
S. Croce (ITCRO)	115	Ospedale Mauriziano Torino (ITMAU)	70
Sant'Anna (ITSAC)	115	E.O. Ospedali Galliera (ITGAL)	68

Country and hospital	Patients	Country and hospital	Patients
Ospedale Ciriè (ITCIR)	66	Buccheri La Ferla (ITBLF)	7
R. Dimiccoli (ITUOC)	66	Azienda Ospedaliera G.Salvini (ITGAR)	7
Azienda Ospedaliera L.Sacco - Polo Universitario (ITAOL)	63	Ospedale Santo Spirito - Rome (ITSSR)	7
Ospedale San Giovanni Battista (ITBAT)	63	Ospedale Novi Ligure (ITONL)	5
San Filippo Neri (ITNER)	63	San Giovanni di Dio Hospital. ASP Crotone (ITASP)	4
Ospedale S. Eugenio (ITSEU)	59	Osp Circolo Busto Arsizio (ITBAR)	4
San Paolo (ITSPA)	58	San Giovanni Addolorata (ITADD)	2
SS. Annunziata - Taranto (ITTAR)	58	Neuromed (ITIRN)	2
San Luigi Gonzaga (ITORB)	57	INRCA (ITSES)	2
San Biagio (ITSBI)	56	Ospedale di Saronno (ITODS)	1
A.O.U. San Giovanni di Dio e Ruggi d'Aragna (ITSGR)	56	Japan	75
Ospedale S. Maria della Scaletta (ITMDS)	54	National Coordinator: To be appointed	
Azienda Ospedaliera Valtellina e Valchiavenna (ITAOV)	52	Shonan Kamakura General Hospital (JPSKG)	75
Ceppo (ITOCP)	52	Kazakhstan	78
Saint Antonio Abate Sicily (ITSAI)	52	National Coordinator: Sholpan Nurmanova	
"Az.Ospedaliera ""Bianchi-Melacrino-Morelli"" (ITBMM)"	50	Shymkent city Regional hospital (KZSHK)	37
Ospedale della Versilia (ITODV)	46	Regional Hospital Atyrau city (KZRHA)	29
Ospedale Infermi (ITINF)	44	GKP na PKHV Gorodskaya bol'nitsa _1 (KZASC)	12
ULSS17 - Monselice Hospital (ITULS)	44	Korea, Republic of	665
Santissima Annunziata (ITANN)	43	National Coordinator: Joung-Ho Rha	
Ospedale Civico di Chivasso (ITOCC)	40	Ilsan Paik Hospital (KRIPH)	57
San Leopoldo Mandic (ITSLM)	35	Asan Medical Center (KRAMC)	51
Ospedale di Treviglio (ITOST)	34	Yonsei University College of Medicine (KRYUC)	50
Ospedale S. Elia Caltanissetta (ITSEL)	34	Bundang Seoul National Uni Hospital (KRBSN)	44
Sant'Anna e San Sebastiano Caserta (ITSAS)	32	Eulji General Hospital (KREGH)	44
Ospedale Umberto I° siracusa (ITSIR)	31	Inha University Hospital (KRINU)	42
Ospedale del Mugello (ITODM)	30	Seoul National University Hospital (KRSNU)	41
AOR San Carlo Potenza (ITSCP)	30	Chonbuk National University Hospital (KRCNU)	32
ARNAS Garibaldi (ITARN)	28	Yeungnam University Medical Center (KRYNU)	26
Istituto Clinico Città Studi (ITCDC)	27	Wonju Christian Hospital (KRWCH)	25
Policlinico Universitario Padova (ITPOL)	27	Dongsan Medical Center Keimyung Uni (KRDMD)	23
Santa Maria Nuova Hospital (ITSMN)	26	Samsung Medical Center (KRSMC)	22
Ospedale S. Donato Arezzo (ITSDA)	25	Ajou University Hospital (KRAUH)	20
Ospedale Civile di Ivrea (ITOCl)	24	Chonnam National University Hospital (KRCHO)	20
B. Ramazzini (ITRAM)	23	Eulji University Hospital (KREUH)	20
SSCosma e Damiano (ITSCD)	22	Hallym University Sacred Heart Hospital (KRHUS)	19
Belcolle (ITBLC)	17	Paik Hospital Pusan (KRPAl)	18
S. Pio Hospital (ITPIO)	16	Seoul National Uni Boramae Hospital (KRBOH)	17
Morelli Sondalo (ITMOS)	15	Gil Medical Center Gachon University (KRGIL)	17
Ospedale di Città di Castello (ITASL)	9	Dong-A University Hospital (KRDON)	13
Ospedale di Stato (ITCAL)	9	Soonchunhyang University Hospital (KRSUH)	12
Gradenigo Hospital (ITGRH)	9		
"P.O. ""R.GUZZARDI"" (ITPOR)"	9		

Country and hospital	Patients	Country and hospital	Patients
Chungnam National University Hospital (KRCHU)	11	Hospital Civil de Guadalajara (MXHCG)	69
Nat Health Insurance Corp Ilsan Hospital (KRILS)	11	Hospital General de Mexico O.D. (MXHGM)	52
Konkuk University Hospital (KRKUH)	11	Hospital General de Culiacan (MXHGC)	32
Dongguk Uni International Hospital (KRDUI)	7	Instituto Panvascular de Occidente (MXPDO)	29
Kangbuk Samsung Hospital (KRKSH)	7	Hospital Regional ISSSTE Monterrey (MXHRM)	18
Cheju National University Hospital (KRCHE)	3	"Regioal de ISSSTE ""Dr. Valentín Gómez Farías"" (MXVGF)"	18
Ulsan University Hospital (KRUUH)	2	San José/Zambrano Helion (MXSJT)	9
Kyrgyzstan	522	Hospital Angeles de Queretaro (MXHAQ)	2
Moldova			22
National Coordinator: Inna Lutsenko, Tynar Musabekova		National Coordinator: Elena Manole, Stanislav Groppa	
Bishkek City Civil Clinic 1 (KGBSK)	459	Institute of Neurology and Neurosurgery (MDINN)	22
Chui Regional Clinic (KGCHU)	63		
Lebanon	140	Morocco	1023
National Coordinator: Souheil Gebeily		National Coordinator: Belahsen Faouzi	
The Lebanese Hospital (LBLEH)	87	HASSAN II University Hospital (MAHUH)	842
Bellevue Medical Center (LBBMC)	53	Ibn Rochd University Hospital (MAIBN)	181
Libya	6	Netherlands	217
National Coordinator: Husen Abdulrahman		National Coordinator: To be appointed	
Benghazi Medical Centre (LYBEN)	6	University Hospital Maastricht (NLMAS)	84
Lithuania	1405	Groningen University Medical Centre (NLGRU)	75
National Coordinator: Aleksandras Vilionskis, Dalius Jatuzis		Atrium Medical Center (NLATR)	45
Republican Vilnius University Hospital (LTEME)	524	Sint Anna (NLSIN)	13
Vilnius Uni Hospital Santariskiu clinics (LTSAN)	335	New Zealand	175
Regional Hospital of Panev__ys (LTRHP)	208	National Coordinator: John Fink	
Hospital of Lithuanian University of Health Sciences		Wellington Regional Hospital (NZWEL)	91
Kaunas Clinics (LTHLU)	171	Christchurch Hospital (NZCHR)	60
Klaipeda Seamen's Hospital (LTKLA)	141	Palmerston North Hospital (NZPNH)	24
Klaipeda university hospital (LTKUH)	23	Nicaragua	25
Telsiu hospital (LTTEL)	2	National Coordinator: Jorge Martinez Cerrato	
Republican Siauliai Hospital (LTRSH)	1	Hospital Metropolitano (NIMET)	25
Macedonia, Republic of	165	Norway	2073
National Coordinator: Anita Arsovskaa		National Coordinator: Anne Hege Aamodt, Titto Idicula,	
Clinical Hospital Tetovo (MKTET)	26	Arnstein Tveiten	
University Clinic of Neurology (MKUCN)	139	Sørlandet Sykehus Kristiansand (NOKRI)	544
Mexico	1047	Ullevaal University Hospital Neurology (NOULL)	332
National Coordinator: Fernando Gongora-Rivera,		Haukeland University Hospital (NOHAU)	279
Antonio Arauz Gongora		Sykehuset i Vestfold (NOTON)	225
Hospital Universitario UANL (MXUNI)	380	Akershus University Hospital (NOAHU)	137
Instituto Nacional de Neurologia y Neurocirugia (MXNNN)	344	Sykehuset Østfold (NOFRE)	127
Médica Sur (MXMES)	94	Sentralsjukehuset i Rogaland (NOSTV)	63

Country and hospital	Patients	Country and hospital	Patients
Trondheim University Hospital (NOTRH)	50	Hospital Nacional Edgardo Rebagliati Martins (PEERM)	41
Rikshospitalet, Oslo University Hospital (NORHO)	44	Hospital Nacional Almanzor Aguinaga Asenjo (PEAAA)	39
Molde Hospital (NOMOL)	39	Maria Auxiliadora (PEAUX)	17
Aker University Hospital (NOAUS)	34	Hospital Belen de Trujillo (PEHBT)	13
Nordlandssykehuset (NONOR)	29	Hospital Nacional Arzobispo Loayza (PEARZ)	8
Forde Sentralsjukehus (NOFOR)	27	Hospital Jorge Reategui Delgado (PEHJR)	3
Buskerud Hospital (NODRA)	23	Philippines	
Haugesund Sjukehus (NOHGS)	22	149	
University Hospital North Norway (NOTRO)	19	National Coordinator: To be appointed	
Hospital of Asker and Bærum (NOASK)	18	Community General Hospital of San Pablo City, Inc. (PHSPA)	48
Sykehuset Namsos (NONAM)	15	Mt. Carmel Diocesan General Hospital (PHCDG)	44
Telemark Hospital Skien (NOSKI)	12	Davao Regional Medical Center (PHDAV)	40
Sykehuset Innlandet HF Kongsvinger (NOKON)	8	Perpetual Succour Hospital (PHPSH)	14
St. Olavs Hospital Medicine (NOTRO)	7	Las Pinas Doctors Hospital (PHPIN)	3
Sørlandet Sykehus Arendal (NOARD)	3	Poland	
Ringerike Sykehus (NOHON)	3	4979	
Sykehuset Innlandet Lillehammer (NOLHA)	3	National Coordinator: Michal Karlinski, Adam Kobayashi,	
Helgelandssykehuset Mo i Rana (NOMOR)	3	Anna Czonkowska	
Haraldsplass Diakonale sykehus (NOHAR)	3	Pomorskie Centrum Traumatologii im.M.Kopernika (PLWOJ)	702
Flekkefjord Sykehus (NOFFS)	2	Institute of Psychiatry and Neurology (PLINS)	670
Laerdal sjukehus Helse Forde HF (NOLAE)	1	SPZZOZ Sandomierz (PLSPZ)	607
Helgelandssykehuset Mosjøen (NOMOS)	1	Wojewodzki Specjalistyczny Zespol Neuropsychiatryczny	
Sandnessjøen Hospital (NOSSJ)	1	(PLP07)	491
Stord sjukehus (NOSTO)	1	Biziel's hospital (PLBIZ)	392
Panama		Specialist Hospital (PLSPE)	270
National Coordinator: Ernesto Triana Bernal, Nelson Novarro	56	Szpital Wojewódzki nr 2 (PLSWO)	265
Centro Medico Paitilla (PACMP)		Wojewódzki Szpital Zespolony w Koninie (PLZES)	190
Complejo Hospitalario Metropolitano Dr. Arnulfo Arias/Caja de Seguro Social (PAMET)		CSK, MSWiA (PLP06)	188
Hospital Nacional (PANAC)	22	Wojewódzki Szpital Specjalistyczny (PLWSL)	182
Hospital Dr. Gustavo Nelson Collado (PAGNC)		Szpital Specjalistyczny w Koskich (PLSSC)	139
San Fernando (PASAF)	18	Szpital Specjalistyczny im. H. Klimontowicza w Gorlicach	
Paraguay		(PLGOR)	107
National Coordinator: Gloria Meza Rojas	167	6 Hospital of Florian Ceynowy in Wejherowo (PLHOF)	100
Hospital Central del Instituto de Previsión Social (PYPRE)		1 Szpital Powiatowy w Kraniku (PLKRA)	81
Peru		Medical University of Gdańsk (PLP03)	72
National Coordinator: Carlos Abanto	2290	Szpital Krośno (PLWSP)	60
Instituto Nacional de Ciencias Neurológicas (PEINC)	1881	Szpital Wolski (PLWOL)	52
Hospital II Angamos Essalud (PEHAE)	167	Clinical Hospital Nr 4 w Lublinie (PLPSK)	47
Hospital Nacional Carlos Alberto Seguin Escobedo (PEHNC)		Central University Hospital (PLCEN)	42
Hospital Alberto Sabogal Sologuren (PEHAS)	121	Szpital Powiatowy Skarżysko-Kamienna (PLPOW)	40
	45	Szpital Kolejowy SP ZOZ (PLKOL)	32
		122 Uniwersytecki Szpital Kliniczny (PLMAB)	26
		121 SPZOZ Lubartów (PLLUB)	25
		45 SPZOZ Dziadowo (PLDZI)	24
		Institute of Psychiatry and Neurology (PLP01)	20

Country and hospital	Patients	Country and hospital	Patients
Wojewodzki Szpital Specjalistyczny (PLWOS)	20	Qatar	191
Specialized Hospital (PLSPH)	16	National Coordinator: To be appointed	
Poznan - Province Hospital (PLP05)	14	Hamad General Hospital (QAHMG)	191
Poviat Hospital (PLPOS)	14		
SPSK im. Orlowskiego (PLMED)	12	Romania	51
Koscierzyna Hospital (PLKOS)	9	National Coordinator: Dafin Fior Muresanu	
Samodzielny Publiczny Szpital Wojewódzki im. Papie_a Jana Paw_a II (PLPAW)	9	Emergency County Hospital (ROECH)	18
Hospital in Radzy_ Podlaski (PLRAD)	8	Mures County Clinical Emergency Hospital (ROMUR)	15
Univeristy Hospital No 1 Bydgoszcz A. Jurasza (PLUHB)	8	County Emergency Hospital Timisoara (ROCEM) 10	
Medical University of Warsaw (PLP02)	7	Clinical Emergency County Hospital Oradea (ROCEO)	5
Military Medical Institute (PLP04)	7	"Emergency hospital ""Dr. N. Oblu"" Lasi (ROLAS)"	3
Marciniak Memorial Hospital (PLMAR)	6	Russian Federation	3065
Wojewódzki Szpital Specjalistyczny (PLWSS)	5	National Coordinator: Nikolay Shamalov	
Szpital Powiatowy Zespó_ Opieki Zdrowotnej w Przeworsku (PLPRZ)	4	Naberezhnye Chelny BSMP Tatarstan (RUBSM)	1975
Szpital Powiatowy w Sedziszowie Malopolskim (PLPSM)	4	Alexandrovskaya hospital (RUAXH)	194
Uppersilesian Medical Centre (PLUPP)	4	Sverdlovsk Clinical Regional Hospital #1 (RUSVE)	116
Wojewodzki Specjalistyczny Zespo_ Opieki (PLSZO)	3	ICDC (RUICD)	79
Szpital Specjalistyczny w Ja_le (PLJAS)	2	Research Center of Neurology of Russian Academy of Medical Sciences (RURCN)	71
St. Adalbert Hospital, Copernicus (PLSAH)	2	Vladivostok hospital ,Ññ1 (RUVLA)	65
Copernicus Hospital (PLCOP)	1	Krasnodar City Clinical Emergency Hospital (RUKRA)	64
Portugal	3852	SPb GBUZ «Gorodskaya bolnitsa _ 26» (RUSPG)	57
National Coordinator: Maria Antónia Ferro, Teresa Pinho e Melo		Russian State Medical University (RURSM)	56
Hospital Sao Jose - CHLC (PTSJO)	1399	Rostov District Clinical Hospital (RURON)	44
Hospital São João (PTHSJ)	1014	Novokuznetsk Municipal clinical hospital #1 (RUNOV)	42
Santa Maria (PTHSM)	532	City Clinical Hospital _ 67 named L.A.Vorobova Moscow (RULAV)	37
Hospitais da Universidade de Coimbra (PTCOI)	230	National Pirogov Centre (RUPIR)	36
Hospital Garcia de Orta (PTGDO)	207	"BUZOO ""_B"" (RUUZO)"	33
Hospital de São Sebastião (PTSAS)	184	GKB Nr 20 DZM (RUGKB)	32
Hospital Santo António (PTHSA)	157	State Healthcare Institution of Kaluga Region	
Centro Hospitalar de Gaia (PTCHG)	68	«City Clinical Hospital #2» (RUGRO)	31
Hospital S Bernardo (PTBER)	39	Krasnoyarsk Regional Hospital (RUKRS)	27
Hospital de Braga (PTBRA)	6	MMBU GKB_ 1 Pirogov (RUMBU)	27
Hospital de Egas Moniz (PTEGM)	5	Citi Clinical Hospital #20 named after A.K. Ermishancev (RUAKE)	20
Centro Hospitalar Lisboa Ocidental (PTCLO)	4	Nikolaevskaya hospital (RUNIK)	20
Hospital de Faro (PTFAR)	3	Orenburg City Clinical Hospital (RUORN)	15
Hospital Geral do Centro Hospitalar e Universitário de Coimbra (PTCHL)	2	Mariinsky Hospital (RUMAR)	12
Centro Hospitalar de Setubal (PTHDS)	2	Medical Military academy (RUMMA) 12	
		Saudi Arabia	33
		National Coordinator: Adel Al Hazzani	
		King Abdulaziz University (SAKBZ)	33

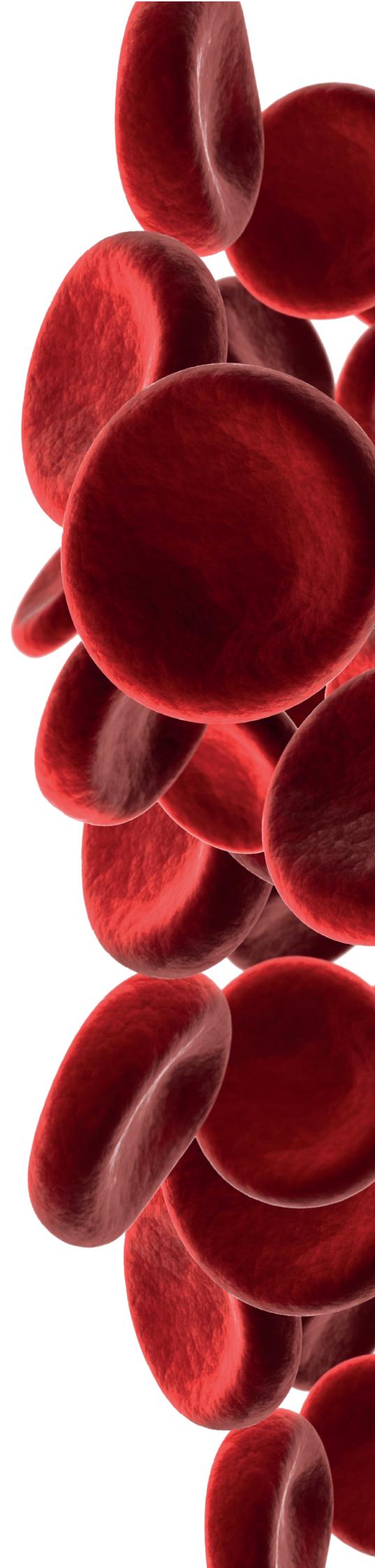
Country and hospital	Patients	Country and hospital	Patients
Singapore	325	National Institute of Cardiovascular Diseases (SKNCD)	1
National Coordinator: Kim En-Lee			
National Neuroscience Institute-TTSH campus (SGNNI)	145		
Singapore General Hospital (SGSGH)	140	National Coordinator: Antoni Dávalos, Jose Castillo	
National University Hospital (SGNUH)	40	Hospital San Carlos (ESHSC)	997
		Hospital Universitari Germans Trias i Pujol (ESHTP)	918
Slovenia	1508	Hospital General de Albacete (ESHGA)	220
National Coordinator: Viktor Svilgelj		Hospital Universitario de la Princesa (ESHUP)	196
University Medical Center Ljubljana (SILJU)	910	Hospital Universitario Virgen del Rocío (ESHVR)	176
University clinic (SIMBA)	339	Hospital Ramón y Cajal (ESHRC)	173
General Hospital Novo mesto (SIGHN)	160	Hospital Universitari Girona (ESESU)	126
General Hospital Celje (SICEL)	67	Hospital de la Santa Cruz y San Pablo (ESHSP)	96
Murska Sobota General Hospital (SIMUR)	23	Virgen de las Nieves (ESHVN)	90
SB jesenice (SISBJ)	7	Hospital de Navarra (ESHNV)	89
SB Nova Gorica (SINGO)	2	Hospital Universitario La Paz (ESHLA)	88
		Hospital Son Dureta (ESHSD)	86
Slovakia	3655	Hospital de Bellvitge (ESHBE)	82
National Coordinator: Zuzana Gdovinova		Hospital Gregorio Marañón (ESHGM)	78
Faculty Hospital Nitra (SKNIT)	1257	Hospital Universitario Vall d'Hebron (ESHVH)	77
Faculty Hospital Trnava (SKTRN)	796	Hospital Virgen de la Salud (ESHVS)	68
Forlife n.o. (SKFNO)	329	Hospital Universitario Virgen Macarena (ESHVM)	61
University hospital of L. Pasteur (SKLUI)	310	Hospital de Donostia (ESHDE)	50
VNsP Levofç (SKGEH)	150	Hospital Galdakano (ESHGE)	47
UVN SNP Ru_omberok (SKUVN)	127	Hospital Clínico Universitario (ESSAN)	44
FNsP Skalica a.s. (SKFKA)	88	Hospital de Leon (ESHLE)	37
Faculty Hospital Banska Bystrica (SKSZU)	83	Hospital del Mar (ESHME)	36
Nemocnica Poprad a.s. (SKPOP)	77	Hospital General La Mancha Centro (ESGEN)	34
University hospital of Bratislava (SKUHB)	77	Hospital clínico universitario Dr Lozano Blesa (ESHLB)	33
Liptovská nemocnica s poliklinikou MUDr.Ivana Stodolu (SKLNP)		Hospital Insular de Gran Canaria (ESHIG)	23
Nemocnica Ko_ice_ aca a.s (SKKOS)	71	Hospital Parc Taulí (ESHPT)	23
Vranovska nemocnica, n.o. (SKVRN)	65	Hospital de Cruces (ESHCR)	21
_ubovnianska nemocnica n.o., (SKLUB)	60	Hospital de Torrecárdenas (ESHTC)	19
Hospital and policlinics Spisska Nova Ves a.s. (SKNPO)	50	Hospital Miguel Servet (ESHMS)	18
Hospital Svidník (SKSVI)	31	Hospital Valme (ESHVE)	17
University Hospital in Martin (SKMAR)	25	Hospital Meixoeiro (Vigo) (ESHMV)	13
Fakultna Nemocnica Trencin (SKFNT)	19	Hospital General Universitario-Valencia (ESHUV)	13
NsP Stefana Kukuru v Michalovciach n o (SKNSK)	13	Nuestra Señora de la Candelaria (ESNSC)	13
NsP sv.Barbory Ro__ava (SKBRO)	5	Hospital General Doctor Negrín (ESHDN)	11
Faculty Hospital J.A.Reimana (SKFRP)	4	Hospital General de Castellón (ESHGC)	11
Nemocnica s poliklinikou Dunajská Streda (SKNDS)	4	Hospital Nuestra Señora del Rosario (ESROS)	10
Nemocnica s poliklinikou Povazska Bystrica (SKNPB)	4	Hospital Univ Central de Asturias (ESAST)	9
NsP Brezno n.o. (SKBRZ)	3	Hospital Universitario de Canarias (ESHUC)	9
Nemocnica A. Lena,Humenné (SKHUM)	2	Hospital Universitario La Fe (ESHUF)	9
		University Hospital Doce de Octubre (ESDDO)	8

Country and hospital	Patients	Country and hospital	Patients
Basurto (ESBAS)	4	Örebro sjukhus (SEORE)	42
Hospital Universitario Principe de Astur (ESHPA)	4	Arvika Sjukhus (SEARV)	41
Hospital Txagorritxu (ESTIM)	3	Kärnsjukhuset Skövde (SEKAS)	39
Clinica Universitaria de Navarra (ESCUN)	2	Helsingborgs Lasarett (SEHEL)	37
Hospital Sagrat Cor (ESSCB)	2	Kiruna sjukhus (SEKIR)	35
Hospital General Yagüe (ESHGY)	1	Piteå Älvdals sjukhus (SEPIT)	35
Hospital general Universitario de Alicante (ESUDA)	1	Alingsås lasarett (SEALI)	27
Sri Lanka	304	Blekingesjukhuset (SEBLE)	25
National Coordinator: Udaya Ranawaka		Ängelholms Sjukhus (SEANG)	23
Colombo North Teaching Hospital, Ragama (LKCNT)	304	Norrälje sjukhus (SENOR)	16
Sweden	9301	Lasarettet i Enköping (SEENK)	12
National Coordinator: Jesper Petersson		Karlskoga Hospital (SEKAR)	12
Karolinska University Hospital-Solna (SEKSJ)	1983	Sollefteå sjukhus (SESOL)	12
Södersjukhuset (SESOS)	1297	Skellefteå Lasarett (SESKL)	11
Capio St Görans sjukhus (SESTG)	726	Gävle-Sandvikenssjukhus (SEGAV)	10
Sahlgrenska Universitetssjukhus (SESUS)	507	Västerviks sjukhus (SEVAS)	10
Karolinska University Sjukhuset-Huddinge (SEHUD)	410	Lindesbergs lasarett (SELIL)	7
Uppsala Akademiska sjukhus (SEUAS)	397	Sjukhuset i Hässleholm (SESHH)	5
Centrallasarettet Västerås (SECEL)	329	Lasarettet i Ystad (SEYST)	5
Falun (SEFAL)	254	Kungälvs sjukhus (SEKUN)	3
Karlstad centralsjukhus (SEKCS)	240	Skene Hospital (SESKE)	3
Länssjukhuset Halmstad (SEHAL)	231	Trelleborgs sjukhus (SETSJ)	2
Kristianstad centralsjukhus (SEKRS)	229	Gällivare sjukhus (SEGAL)	1
Mälarsjukhuset (SEMAL)	225	Lycksele (SELYC)	1
Malmö allmänna sjukhus (SEMAS)	188	Lasarettet i Motala (SEMOT)	1
Varbergs sjukhus (SEVAR)	185	Norrköping lasarett (SENOL)	1
Södra Älvborgs Sjukhus (SEBOL)	164	Torsby sjukhus (SETOR)	1
Nyköpings lasarett (SENYK)	164	Uddevalla sjukhus (SEUDD)	1
Malmö - Skånes Universitetssjukhus (SESKA)	151	Switzerland	51
Danderyd Hospital (SEDSS)	147	National Coordinator: To be appointed	
Södertälje sjukhus (SESOD)	137	GHOL (CHNYO)	51
Ryhovs Länssjukhus (SEJOL)	123	Thailand	624
Mora Lasarett (SEMOL)	113	National Coordinator: Yongchai Nilanont	
Köping Hospital (SEKOH)	112	King Chulalongkorn Memorial Hospital (THKCM)	624
Universitetssjukhuset Linköping (SELIN)	98	Tunis	3198
Oskarshamns Sjukhus (SEOSK)	89	National Coordinator: Faycel Bentati	
Kullbergska sjukhuset (SEKUL)	86	Institut National Mongi ben Hamida de Neurologie (TNMON)	3198
Lund - Skånes Universitetssjukhus (SEUSL)	75		
Visby Lasarett (SEVIL)	64	Turkey	1386
Norrlands universitetssjukhus (SENUS)	61	National Coordinator: Yakup Krespi	
Lidköping Hospital (SELIID)	53	Memorial Hizmet hospital (TRMHH)	885
Länssjukhuset Kalmar (SEKAL)	45	Avrupa Hastanesi Neurology Department (TRAHN)	125

Country and hospital	Patients	Country and hospital	Patients
Florence Nightingale (TRFLO)	108	William Harvey Hospital (GBWIL)	399
Istanbul (TRIST)	105	Northampton General Hospital (GBNGH)	372
Bezmialem Vakif University Medicine Faculty Hospital (TRBVU)	96	Royal bournemouth and Christchurch Hospital (GBRBC)	349
Inonu University, Turgut Ozal Medical Center(TRTOM)	36	Royal Sussex County Hospital (GBRSC)	347
Antalya Education and Research Hospital (TRANT)	11	Gloucestershire Royal Hospital (GBGLO)	341
Istanbul University Cerrahpasa School of Medicine (TRCER)	11	Poole Hospital (GBPLE)	334
Özel Ege Saglik Hastanesi (TROZE)	5	St. George's Hospital (GBSGH)	332
Dokuz Eylul Medical Faculty (TRDOK)	1	Southend Hospital (GBSOU)	315
Erciyes University Medical Faculty Hosp (TRERC)	1	Royal Preston Hospital (GBPRE)	313
Trakya University Faculty of Medicine (TRTRA)	1	South Glasgow University Hospital (GBSGU)	313
Yeditepe University Hospital (TRYED)	1	Hull Royal Infirmary (GBHUL)	265
Ukraine	106	Queen Alexandra Hospital (GBQAH)	262
National Coordinator: Liliya Zviyagina		Torbay (GBTOR)	248
Ivano-Frankivsk Regional Clinical Hospital (UAIVF)	29	King s College Hospital NHS Trust (GBKCH)	241
Kyiv Region Hospital (UAKRH)	23	Forth Valley Royal Hospital (GBSRI)	237
Vinnitsa regional Psychoneurological hospital name academician of O.I. Yshenko (UAYSH)	16	Worcestershire Acute Hospital (GBWOR)	229
Municipal City Clinical Hospital of the Emergency Medical Care (UAMCC)	15	Medway Maritime Hospital (GBMMH)	228
Odessa City Hospital (UAODS)	12	Royal United Hospital Bath (GBRUH)	227
Feofania(UAFEO)	11	Salisbury District Hospital (GBSAL)	216
United Arab Emirates	1347	Royal Cornwall Hospital (GBRCH)	211
National Coordinator: Suhail Alrukn		Ninewells Hospital Dundee (GBDDN)	207
Rashid Hospital (AERAS)	1347	St Thomas Hospital (GBSTH)	204
United Kingdom	22910	Shrewsbury and Telford Hospital Trust (GBSTT)	195
National Coordinator: Kennedy Lees, Gary Ford		Ipswich Hospital NHS Trust (GBIHIN)	193
Aberdeen Royal Infirmary (GBARI)	933	Calderdale and Huddersfield NHS Foundation Trust (GBCAL)	187
Southern General Hospital (GBINS)	906	Sunderland Royal Hospital (GBSUN)	185
University Hospital North Staffordshire (GBSTO)	890	Queen Elizabeth Hospital Birmingham (GBNFT)	183
Western Infirmary (GBGBW)	817	East and north hertfordshire nhs trust Lister (GBQET)	178
University hospital coventry (GBUHC)	744	Aintree University Hospital (GBAIN)	169
University Hospital of North Durham (GBUHN)	744	queen elizabeth hospital, gateshead (GBQEH)	164
Addenbrookes hospital (GBADD)	654	Fairfield general hospital (GBFGH)	158
Newcastle upon Tyne Hospitals NHS Foundation Trust (GBGBF)	634	Southmead Hospital (GBFRE)	141
Watford General Hospital (GBWAT)	616	Erne Hospital (GBEHO)	138
Luton & Dunstable NHSFT hospital (GBLDH)	614	Princess Royal Hospital Haywards Heath (GPFRH)	137
North Tyneside General Hospital (GBNTG)	529	Ulster Hospital Belfast (GBUHD)	131
Lincoln County Hospital (GBLCH)	502	Craigavon Area Hospital (GBCRA)	124
The Royal Wolverhampton Hospital Trust (GBRWH)	494	Dorset County Hospital (GBDOR)	123
James Cook University Hospital (GBJCU)	463	Bradford Royal Infirmary (GBSLH)	117
Morriston (GBMOR)	461	Warrington and Halton Hospitals (GBWAH)	115
QEQM Hospital (GBQEQQ)	399	Royal Surrey County Hospital (GBROY)	106
		University Hospitals Leicester NHS Trust (GBUHL)	105
		Northwick Park Hospital (GBNPH)	104
		York Hospital (GBYOR)	103

Country and hospital	Patients	Country and hospital	Patients
Bristol royal infirmary (GBBRI)	100	West Cumberland Hospital (GBWCH)	31
John Radcliffe Hospital (GBJRH)	100	Walsall Manor Hospital (GBWMH)	31
Darent Valley Hospital (GBDVH)	96	Nevill Hall Hospital (GBNEV)	30
Pilgrim Hospital (GBpil)	96	Blackpool Victoria Hospital (GBBLA)	28
Harrogate District Hospital (GBHDH)	94	The Princess Alexandra Hospital (GBPAH)	28
Salford Royal Foundation Trust (GBSRF)	92	Musgrove Park Hospital (GBMPH)	27
Daisy Hill Hospital (GBDHH)	88	Mid Yorkshire Hospitals NHS Trust (GBMYH)	26
City Hospital Campus NUH NHS Trust (GBNCH)	88	St Helens and Knowsley Teaching Hospital (GBHKT)	25
ROTHERHAM GENERAL HOSPITAL (GBROT)	87	South Tyneside NHS Foundation Trust (GBSTN)	25
Barnsley Hospital NHS Foundation Trust (GBBAR)	81	Arrowe Park Hospital (GBAPH)	23
Broomfield Hospital (GBBRO)	78	St John's Hospital (GBHOW)	23
Airedale General Hospital (GBAIR)	76	Royal Glamorgan Hospital (GBRGH)	22
Doncaster Royal Infirmary (GBDON)	70	Ashford and St Peters NHS Trust (GBASH)	21
Colchester Hospital University NHS Foundation Trust (GBCOL)	69	Epsom General Hospital (GBEGH)	21
Royal Hallamshire Hospital (GBRHH)	69	Victoria Hospital Kirkcaldy (GBVIC)	21
Royal London Hospital (GBBLT)	68	North Cheshire Hospitals Trust (GBCHE)	20
City Hospital, Birmingham (GBCIH)	68	The Maidstone Hospital (GBMAH)	20
The Great Western Hospital NHS Foundation Trust (GBGWH)	66	Prince Philip Hospital (GBPPH)	20
University Hospitals of North Tees & Hartlepool (GBNTH)	60	Peterborough City Hospital (GBPET)	18
Princess of Wales hospital (GBPWH)	58	Glasgow Royal Infirmary (GBGLA)	17
Belfast HSC Trust (GBRVI)	54	Antrim area hospital (GBAAH)	16
Scarborough General Hospital (GBSCA)	54	Queens Hospital Burton Foundation Nhs Tr (GBHBF)	15
Worthing (GBWAS)	53	Bronglais (GBBGS)	14
Altnagelvin Area Hospital (GBALH)	51	Buckinghamshire Hospitals NHS Trust (GBBHN)	14
Royal Derby Hospital (GBDRB)	50	James Paget University Hospital (GBJAM)	12
Macclesfield District General hospital (GBMAC)	47	Southport and Ormskirk NHS Trust (GBSOR)	12
Imperial College Healthcare NHS Trust (GBCCH)	44	Derriford Hospital (GBDER)	11
Leeds general infirmary (GBLGI)	43	Mayday University Hospital (GBMUH)	11
The Queen Elizabeth Hospital Kings Lynn NHS TRUST (GBQEK)	43	Cumberland Infirmary (GBCIN)	9
Royal Free Hampstead NHS Trust (GBRFH)	43	East Surrey Hospital (GBESH)	9
Tunbridge Wells Hospital in Pembury (GBKSH)	42	Medical specialist Group (GBMSG)	9
Basildon Hospital (GBBTU)	39	Sandwell and West Birmingham NHS Trust (GBSWB)	8
North Hampshire Hospital (GBNHH)	39	University Hospital of Wales (GBUHW)	8
Glangwili General Hospital (GBGGH)	38	Royal Gwent Hospital (GBRGW)	7
Royal Devon & Exeter Hospital (GBRDE)	37	Edinburgh Western General (GBEDI)	6
Bedford Hospital (GBBED)	36	Manchester Royal Infirmary (GBMRI)	6
National Hospital for Neurology (GBNHN)	36	Nobles Hospital (GBNBH)	6
Stockport NHS Foundation trust (GBSNF)	36	Norfolk and norwich university Hospital (GBNOR)	6
Royal Liverpool & Broadgreen University Hospital (NHS) Trust (GBRLH)	34	University Hospital Southampton (GBUHS)	6
Yeovil District Hospital (GBYEO)	34	Birmingham Heartlands Hospital (GBBHH)	5
Diana Princess of Wales Hospital (GBDIP)	33	Scunthorpe General Hospital (GBSCH)	5
Kent and Canterbury Hospital (GBKAC)	33	Southampton General Hospital (GBSHH)	5
Princess Royal Hospital (GBPRN)	33	Hope Hospital, Manchester (GBHOP)	4

Country and hospital	Patients	Country and hospital	Patients
Walton Centre NHS Foundation Trust (GBWLT)	4	The People ' 115 hospital (VNTHF)	12
Causeway Hospital (GBCAH)	3	Benh vien Trung Uong Hue (VNHUE)	11
Wrexham maelor Hospital (GBWRX)	3	Trung Vuong (VNTVU)	8
Countess of Chester (GBCOC)	2	HCMC Univesity Medical Center (VNHCM)	3
Conquest Hospital (GBCON)	2		
Coventry & Warwickshire University Hosp (GBCOV)	2		
Royal Blackburn Hospital (GBROB)	2		
Wishaw General Hospital (GBWIS)	2		
Ayr Hospital (GBAYR)	1		
Charing Cross Hospital (GBCHA)	1		
Mater Hospital (GBMHB)	1		
Queen s Medical Centre (GBQMC)	1		
Royal Hampshire County Hospital (GBRHC)	1		
St. Richard's hospital (GBRIH)	1		
Russells Hall Hospital (GBRUS)	1		
Uruguay	10		
National Coordinator: Claudia Camejo			
Medica Uuguaya (UYMEU)	6		
Hospital de Clínicas (UYHDC)	4		
Venezuela	2039		
National Coordinator: Mario De Bastos			
Hospital Universitario de Caracas (VEHUC)	2016		
Hosp Univ de Maracaibo (VEHUM)	17		
Instituto Autonomo Hospital Universitario de Los Andes (VEULA)	5		
Clinica La Piramide (VEPIR)	1		
Vietnam	447		
National Coordinator: Luc Tran Viet			
General Friendship Hospital of Nghe An (VNGFH)	60		
Thanhhoa General Hospital (VNTHA)	58		
Thai Nguyen general hospital (VNTHI)	51		
Nhan Dan Gia Dinh (VNNDG)	48		
108 Military central hospital Stroke Unit (VNMHO)	31		
Millitary hospital 103 (VN MIL)	30		
Benh vien da khoa huru nghi Viet Tiep (VNHVI)	28		
Cho Ray Hospital (VNCRH)	25		
Bach Mai Neurology (VNBAC)	22		
National Hospital of Geriatry (VNNHG)	19		
Thanh Nhan (VNTAH)	15		
Bach Mai Emergency (VNBA2)	13		
Benh vien Thong Nhat (VNBHT)	13		



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