

# WCN 2023

## XXVI WORLD CONGRESS OF NEUROLOGY

# MONTREAL

15 - 19 OCTOBER 2023

- Valeria Caso
- Stroke Unit
- Santa Maria della Misericordia Hospital
- University of Perugia
- Perugia, Italy

Stroke Implementation in  
Europe

---

## For each domain:

- State of the art
- State of current services
- Research and development priorities
- Targets for 2030

Guideline

## Action Plan for Stroke in Europe 2018–2030

**Bo Norrving<sup>1</sup>, Jon Barrick<sup>2</sup>, Antoni Davalos<sup>3</sup>, Martin Dichgans<sup>4</sup>,  
Charlotte Cordonnier<sup>5</sup>, Alla Guekht<sup>6</sup>, Kursad Kutluk<sup>7</sup>,  
Robert Mikulik<sup>8</sup>, Joanna Wardlaw<sup>9</sup>, Edo Richard<sup>10</sup>,  
Darius Nabavi<sup>11</sup>, Carlos Molina<sup>12</sup>, Philip M Bath<sup>13</sup>,  
Katharina Stibrant Sunnerhagen<sup>14</sup>, Anthony Rudd<sup>15</sup>,  
Avril Drummond<sup>16</sup>, Anna Planas<sup>17</sup> and Valeria Caso<sup>18</sup>;**  
on behalf of the Action Plan for Stroke in Europe  
Working Group\*

**EUROPEAN  
STROKE JOURNAL**

European Stroke Journal  
2018, Vol. 3(4) 309–336  
© European Stroke Organisation  
2018

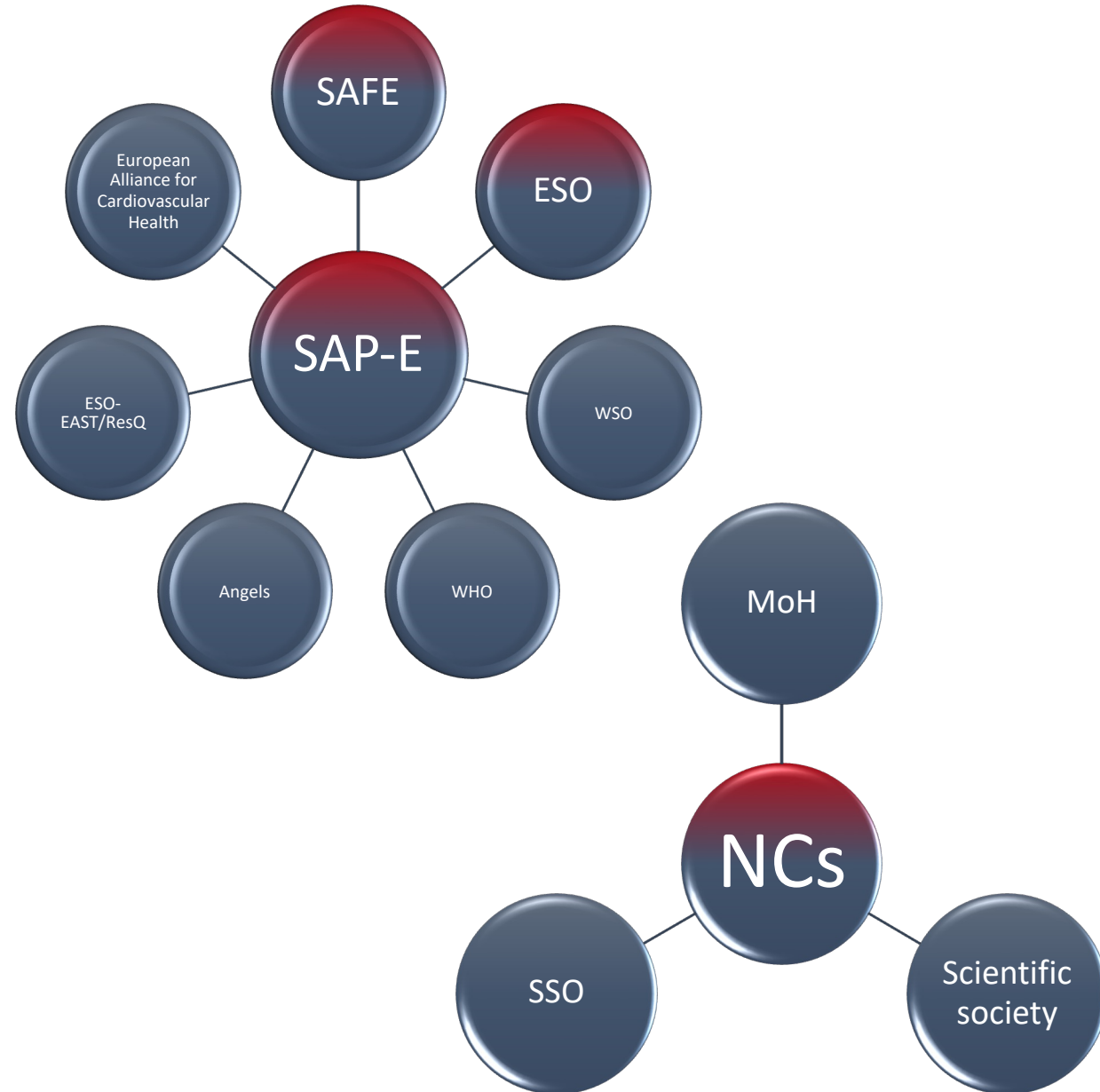


Article reuse guidelines:  
[sagepub.com/journals-permissions](https://sagepub.com/journals-permissions)  
DOI: 10.1177/2396987318808719  
[journals.sagepub.com/home/eso](https://journals.sagepub.com/home/eso)

SAGE

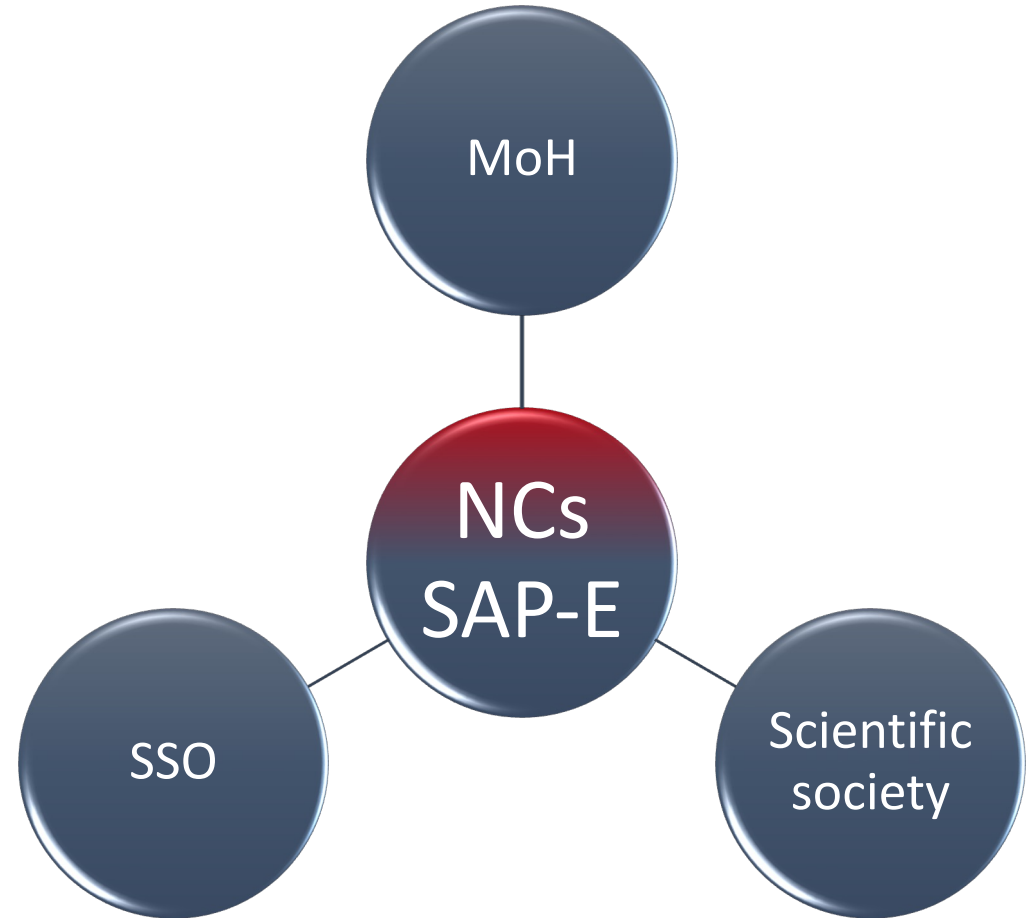
# What is SAP-E?

- **Policy project**
- **Overarching targets:**
  1. *to reduce the absolute number of strokes in Europe by 10%*
  2. *to treat 90% or more of all patients with stroke in Europe in a dedicated stroke unit as the first level of care*
  3. *to have national plans for stroke encompassing the entire chain of care*
  4. *to fully implement national strategies for multisector public health interventions*
- **National coordinators**
  - To link MoH, SSOs and Stroke Scientific societies
- **Strategic framework**



# Template for stakeholder analysis – all countries are different

- Who are responsible for the different chains in stroke care?
- To whom shall the NCs advocate for a National Stroke Plan etc?
- To obtain oversight – getting the whole picture
- To get the golden triangle in place
- Most doctors are not trained for politics and advocacy ..



# Template for National Stroke Plan

- Each country has own organisation and way of working
- A national plan covers what patients shall have access to and organisation
- Template to support where needed
- Funding and implementation..

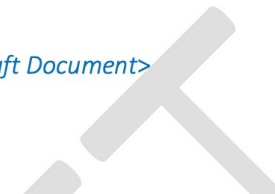
This document was developed for the Stroke Action Plan for Europe program (SAP-E), of ESO and SAFE. Its use is allowed only within the scope of the SAP-E program. This DRAFT version of the document was developed by F. Pennacchi (ALICE Italia ODV) and F.R. Pezzella, Co-chair of the SAP-E program

National Stroke Plan document DRAFT TEMPLATE

---

## National Stroke Plan

*<Template Draft Document>*





# Essentials of stroke care

## Pre-hospital management

Must do	Source	Type of source
1. Educational campaigns to increase the awareness of immediately calling EMS for people with suspected stroke	[5]	EBR
2. EMS technicians and paramedics should be trained in a simple pre-hospital stroke scale to identify potential stroke patients.	[5]	EBR
3. EMS should implement a 'code-stroke' protocol including highest priority dispatch, pre-hospital notification and rapid transfer to nearest 'stroke ready' hospital	[5]	EBR
Don't do	Source	Type of source
1. Routine use of O2; only use if SpO2 <95%	[5]	EBR
2. Pre-hospital administration of insulin	[5]	EBR
3. Pre-hospital induction of hypothermia	[5]	EBR

## On arrival with suspected stroke or TIA

Must do	Source	Type of source
1. Patients should be admitted to a hospital with a defined rapid pathway for acute stroke and staff with expertise in acute stroke	[6]	EBR
2. Patients should have a swift but careful clinical assessment, including neurological examination; use a stroke severity rating, e.g. NIHSS	[6]	EBR
3. Immediate brain imaging with non-contrast CT or MRI (DWI, T2*/SWI, FLAIR) in patients with ongoing symptoms	[7]	EBR

# THE ESSENTIALS OF STROKE CARE

The care and support every stroke survivor should get



# Stroke Service Tracker

- Baseline(2020)
- Upload of summary data on an annual basis
- Definition of data sources
- Basic variables
- Key performance indicators
- Benchmarking set in individual nations at annual audits
- Allows for comparison between countries and over time

## Data Sources

### Sources:

Which sources will you be utilising?

- National register
- National register with mandatory reporting
- National register with mandatory reporting AND crosschecking with national health surveillance data
- National health surveillance data
- Regional register
- Regional register with mandatory reporting
- Regional register with mandatory reporting AND crosschecking with national health surveillance data
- RESQ
- Individual contact to sites
- Estimate
- Other specify

### National register:

Which national register will you be using?

How many stroke admission were registered in the national register in total?

Making a coverage of \_\_\_\_\_ % *(empty until total number of all stroke is answered on next page)*

Documentation for the national register:

### Regional register:

Which regional register will you be using?

How many stroke admission were registered in the regional register in total?

Making a coverage of \_\_\_\_\_ % *(empty until total number of all stroke is answered on next page)*

Documentation for the regional register:

### RESQ:

What is your coverage in RESQ?

Documentation for RESQ:

### If individual contact to sites was checked:

How many sites do you have in total?

How many individual sites were contacted?

Making a coverage of \_\_\_\_\_ %

**Learn more at**  
**<https://actionplan.eso-stroke.org>**