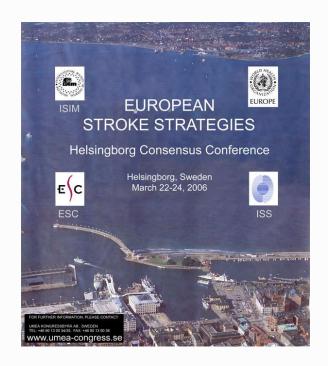
NYA EUROPEISKA RIKTLINJER FÖR STROKE – FORSKNINGEN BAKOM

EUROPEAN STROKE ORGANISATION

No CONFLICT OF INTEREST

KATHARINA STIBRANT SUNNERHAGEN MD, PHD PROFESSOR REHABILITERINGSMEDICIN PROFESSOR IN REHABILITATION MEDICINE INSTITUTE OF NEUROSCIENCE AND PHYSIOLOGY GOTHENBURG UNIVERSITY SWEDEN GUEST PROFESSOR SUNNAAS REHABILITATION HOSPITAL, NORWAY AND DEPARTMENT OF REHABILITATION, RIGA STRADIŅŠ UNIVERSITY LATVIA



Kjellström, Norrving, Shatchkute

The Helsingborg Declarations have been important reference documents for building up stroke services

UNIVERSITY OF GOTHENBURG

The 2006 Helsingborg declaration on stroke management in Europe

- Essential Principles for Good Practice Targets for 2005
- Research priorities
- I Organization of stroke services
- II Management of acute stroke
- **III** Prevention
- IV Rehabilitation after stroke
- V Evaluation of stroke outcome and quality assessment

THE VOICE OF STROKE IN EUROPE





ABOUT BLOG MEETINGS GUIDELINES PROJECTS RESOURCES MEDIA Q

WHAT WE DO

THE MISSION OF THE ESO IS TO REDUCE THE BURDEN OF STROKE.

ESO aims to improve stroke care by providing medical education to healthcare professionals and the lay public.

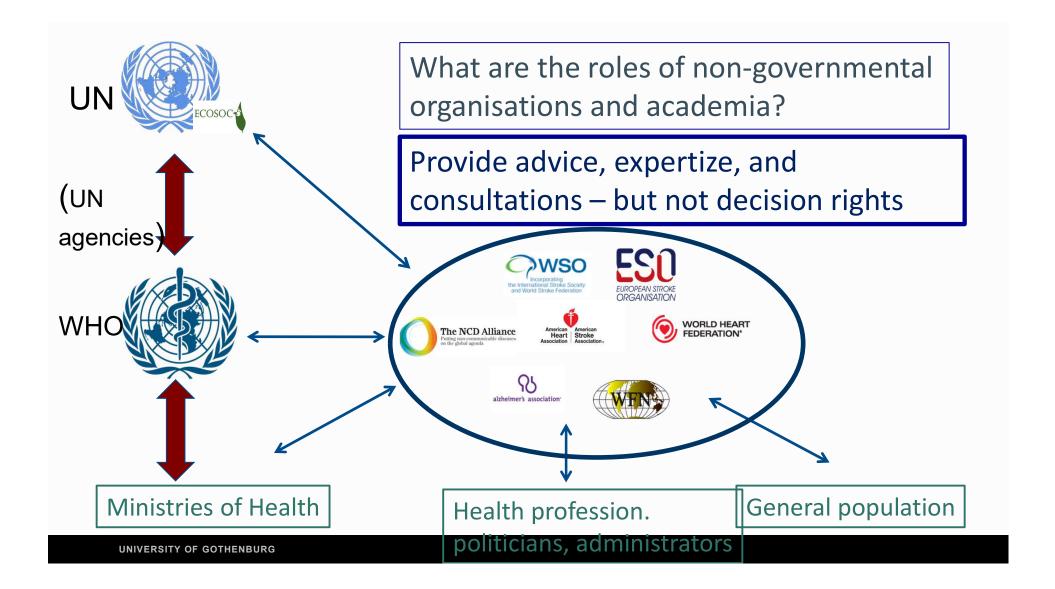




The European Stroke Organisation (ESO) is a Paneuropean society of stroke researchers, national and regional stroke societies and lay persons' organisations that was founded in December 2007.

In 2015, ESO hosted its first annual conference, the European Stroke Organisation Conference (ESOC). After only 2 years, the <u>ESOC</u> had become the premiere event for stroke education and networking in Europe. In 2016, ESO launched the <u>European Stroke Journal (ESJ)</u> as the official scientific journal of the organisation.

In 2020 ESO was accredited as a regional <u>non-state actor</u> not in official relations with <u>WHO</u>.





Action Plan for Stroke in Europe 2018–2030

Organised by ESO, in cooperation with SAFE



The European Stroke Action Plan 2018 to 2030 – "the 3rd Helsingborg declaration"

A basic principle: The Action Plan is **free** from involvement from industry

The seven domains of the Action Plan

- 1. Primary Prevention (new)
- 2. Organization of Stroke Services
- 3. Management of Acute Stroke
- 4. Secondary prevention and organized follow-up
- 5. Rehabilitation
- 6. Evaluation of Stroke Outcome and Quality Assessment
- 7. Life after stroke (new)

A separate group on *Prioritized Research Areas for translational stroke research*.

ESO EUROPEAN STROKE ORGANISATION

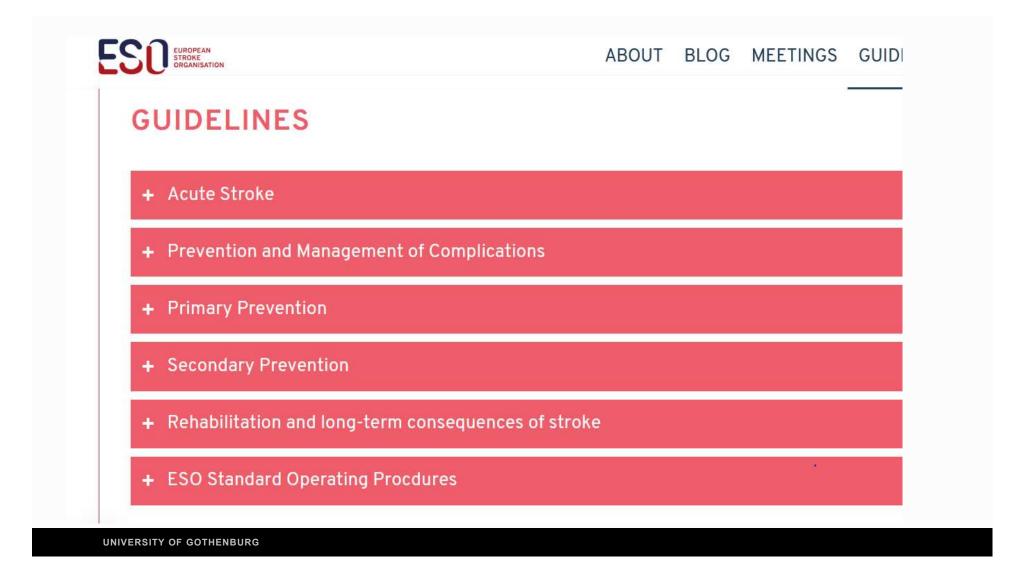
Proposals for new guideline topics

Suggested Topic*

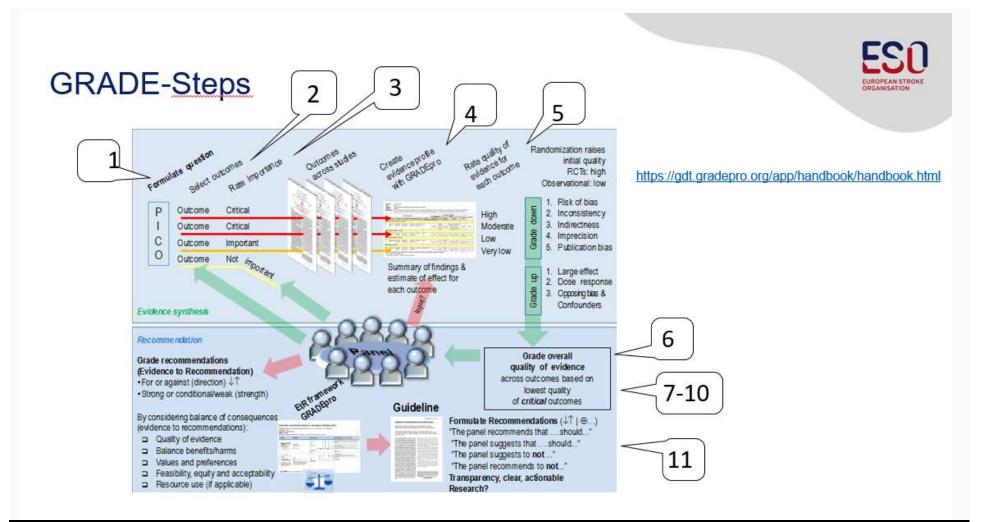
ESO publishes two types of documents 1. Full ESO Guideline Document with evidence-based recommendations and expert consensus statements (for characteristics see table below) 2. Expedited recommendation in instances where there is at least one published guidelinechanging RCT

ABOUT BLOG MEETINGS GUIDELINES PROJECTS RESOURCES MEDIA Q

| Why would this topic benefit from a guideline?* | GUIDELINE DOCUMENT | Evidence-based recommendation Uses GRADE methodology Follows ESO Guideline SOP Provides high-quality outcome Offers detailed document (available online) Entails time-consuming process Is published in the ESJ Expert Consensus Statement (ECS) Selected format if there is insufficient evidence to provide an evidence-based recommendation |
|---|-----------------------|--|
| Name* | | Presented in the guideline document with the result of a majority vote |
| E-Mail* | | Conducted in the presence of at least one published guideline- changing RCT |



| C | onflict of Intere ESO Guide | 1997 - 1995 | 5 |
|-------------|--------------------------------|-------------|-----------|
| SURNAME: | Stibrant Sunnerhagen | NAME: | Katharina |
| AFFILIATION | Univ of Gothenburg | | |



Step 1: Ask a specific management question to be answered by a recommendation

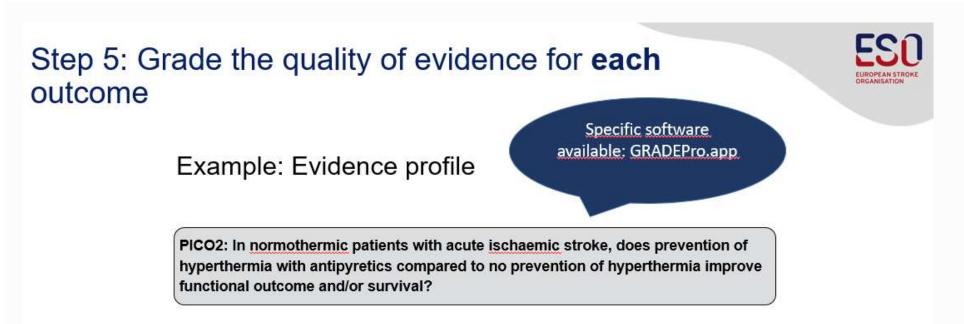
PICO

- Patients (population)
- Intervention (therapeutic, diagnostic)
- Comparison (alternative intervention)
- Outcomes of interest (e.g. mortality, dependency)

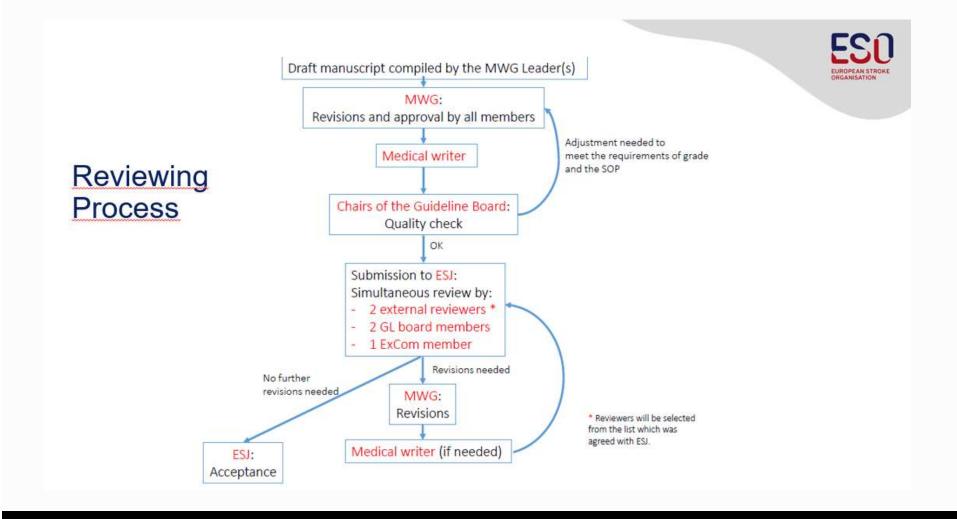
Example

- For adults with acute ICH (P), does altering blood pressure to a particular target or with a specific agent (I) compared with an alternative target or agent (C) improve outcome (O)?





| Quality assessment | | | | | | No of patients | | Effect | | | | |
|--------------------|----------------------|----------------------------------|-----------------------------|----------------------------|---------------------------|-------------------------|--|---|------------------------------|--|------------------|------------|
| No of studies | Design | Risk of bias | Inconsistency | Indirectness | Imprecision | Other considerations | PICO2 - Prevention of hyperthermia | no treatment in normothermic patients with acute ischemic stroke | Relative (95% CI) | Absolute | Quality | Importance |
| Function | al outcome | (follow- | ap 1-3 months; a | ssessed with | modified Ran | kin Scale) | | | | | | |
| 3 | randomised trials | no serious risk of bias | no serious inconsistency | no serious indirectness | no serious imprecision | none | 450/686 (65.6%) | 418/637 (65.6%) | RR 1.02 (0.94 to 1.1) | 13 more per 1000 (from 39 fewer to 66 more) | 9969 HQH | CRITICAL |
| Mortality | (follow-up | 1-3 mont | ths) | | 8 | 3 8 | | i | | | | |
| 4 | randomised trials | 100 C 100 C 100 C | no serious inconsistency | no serious indirectness | serious ¹ | none | 106/700 (15.1%) | 104/654 (15.9%) | RR 0.96 (0.74 to 1.23) | 6 fewer per 1000 (from 41 fewer to 37 more) | 0000 MODERATE | CRITICAL |



European Stroke Organisation (ESO) – European Society for Minimally Invasive Neurological Therapy (ESMINT) guidelines on mechanical thrombectomy in acute ischaemic stroke

Endorsed by Stroke Alliance for Europe (SAFE)

Guillaume Turc^{1,2,3,4}, Pervinder Bhogal⁵, Urs Fischer⁶, Pooja Khatri⁷, Kyriakos Lobotesis⁸, Mikaël Mazighi^{3,9,10,11}, Peter D. Schellinger¹², Danilo Toni¹³, Joost de Vries¹⁴, Philip White¹⁵ and Jens Fiehler¹⁶

PICO 9: For adults with LVO-related acute ischaemic stroke, does selection of MT candidates based on advanced perfusion, core or collateral imaging compared with no advanced imaging: Improve identification of patients with a therapy effect of thrombectomy on functional outcome? Decrease the risk of sICH?

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Recommendations

 In adult patients with anterior circulation large vessel occlusion-related acute ischaemic stroke presenting from 0 to 6 h from time last known well, advanced imaging is not necessary for patient selection.

Quality of evidence: Moderate $\oplus \oplus \oplus$, Strength of recommendation: Weak \downarrow ?

In adult patients with anterior circulation large vessel occlusion-related acute ischaemic stroke presenting beyond 6 h from time last known well, advanced imaging selection is necessary.
 Quality of evidence: Moderate ⊕⊕⊕, Strength of recommendation: Strong ↑↑



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