

Early minimally invasive image guided endoscopic evacuation of intracerebral haemorrhage: a randomised controlled trial

Date: _____

Study ID (USB-XXX): USB-_____

Location ID: _____

PI: PD Dr. med. J. Soleman

Co-PIs: Prof. Dr. med. R. Guzman

Prof. Dr. med. Urs Fischer

Dr. med. Tim Hallenberger

Version 1.2

09.10.2023

V1: Screening and baseline: up to 24 hours after symptom onset

Study inclusion

Inclusion criteria met	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Informed consent received	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Oral informed consent	<input type="checkbox"/> yes	<input type="checkbox"/> no	If yes, date _____/_____/_____
Consent given by	<input type="checkbox"/> Patient <input type="checkbox"/> Relative <input type="checkbox"/> Legal guardian <input type="checkbox"/> independent physician		
Written informed consent	<input type="checkbox"/> yes	<input type="checkbox"/> no	If yes, date _____/_____/_____
Consent given by	<input type="checkbox"/> Patient <input type="checkbox"/> Relative <input type="checkbox"/> Legal guardian <input type="checkbox"/> independent physician		

Randomisation

Randomisation date	_____/_____/_____
Randomisation to:	<input type="checkbox"/> Endoscopic evacuation <input type="checkbox"/> medical treatment
Study ID	_____

Baseline demographic data

Sex	<input type="checkbox"/> male	<input type="checkbox"/> female
Ethnicity	<input type="checkbox"/> Caucasian <input type="checkbox"/> Hispanic <input type="checkbox"/> Arabic <input type="checkbox"/> Asian <input type="checkbox"/> African <input type="checkbox"/> Unknown	
Age (years)	_____	

Baseline medical history (multiple answers possible)

Previous medical history (multiple answers possible)	<input type="checkbox"/> Myocardial infarction <input type="checkbox"/> Mechanical heart valve <input type="checkbox"/> Peripheral artery disease <input type="checkbox"/> Arterial hypertension <input type="checkbox"/> Atrial fibrillation <input type="checkbox"/> Chronic heart failure <input type="checkbox"/> Deep venous thrombosis <input type="checkbox"/> Pulmonary embolism <input type="checkbox"/> Liver disease <input type="checkbox"/> Renal disease <input type="checkbox"/> History of tumor	<input type="checkbox"/> Cerebral ischemia <input type="checkbox"/> TIA <input type="checkbox"/> previous ICH <input type="checkbox"/> Diabetes mellitus Type I <input type="checkbox"/> Diabetes mellitus Type II <input type="checkbox"/> Epilepsy <input type="checkbox"/> Dementia <input type="checkbox"/> Congenital defects <input type="checkbox"/> No comorbidities <input type="checkbox"/> Other: _____
Previous medication (multiple answers possible)	<input type="checkbox"/> Acetylsalicylic acid <input type="checkbox"/> Clopidogrel <input type="checkbox"/> Ticagrelor <input type="checkbox"/> Prasugrel <input type="checkbox"/> Vitamin K Antagonists <input type="checkbox"/> Rivaroxaban <input type="checkbox"/> Apixaban <input type="checkbox"/> Dabigatran <input type="checkbox"/> Fondaparinux <input type="checkbox"/> Edoxaban <input type="checkbox"/> Calcium channel blockers <input type="checkbox"/> ACE Inhibitors	
	<input type="checkbox"/> Angiotensin II receptor antagonists <input type="checkbox"/> Betablockers <input type="checkbox"/> Diuretics <input type="checkbox"/> NSAID <input type="checkbox"/> Statins <input type="checkbox"/> Therapeutic heparin <input type="checkbox"/> Antipsychotics <input type="checkbox"/> Antiepileptics <input type="checkbox"/> Any pain medication <input type="checkbox"/> Unknown <input type="checkbox"/> No medication <input type="checkbox"/> Other: _____	

Baseline radiology

Location haemorrhage (multiple answers possible)	<input type="checkbox"/> deep	<input type="checkbox"/> right
	<input type="checkbox"/> lobar	<input type="checkbox"/> left
	<input type="checkbox"/> uncertain	<input type="checkbox"/> both sides
ICH volume (abc/2) ICH volume volumetry (cm ³)	_____ mL _____ cm ³	
Intraventricular haemorrhage	<input type="checkbox"/> yes <input type="checkbox"/> no	
Stability scan performed	<input type="checkbox"/> yes <input type="checkbox"/> no	
CTA performed	<input type="checkbox"/> yes <input type="checkbox"/> no	

Baseline clinical examination

Blood pressure	_____ / _____	
(SBP/DBP; mmHg)		
Heart rate (bpm)	_____	
Body temperature (°C)	_____	
Height (cm)	_____	
Weight (kg)	_____	
GCS	Total: _____ Eye: _____ Verbal: _____ Motoric: _____	<input type="checkbox"/> GCS in intubated patient
mRS	<input type="checkbox"/> 0 - no symptoms <input type="checkbox"/> 1 - minor symptoms, no limitations <input type="checkbox"/> 2 – slight disability, no help needed <input type="checkbox"/> 3 – moderate disability, needs help but walks without assistance <input type="checkbox"/> 4 – moderate sever disabled, not able to walk <input type="checkbox"/> 5 - severe disability, bedridden <input type="checkbox"/> 6 - dead	

Baseline laboratory

Blood samples obtained and sent	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> unknown
Source of blood	<input type="checkbox"/> arterial	<input type="checkbox"/> venous	<input type="checkbox"/> unknown
Time to aliquotation	_____ / _____	<input type="checkbox"/> unknown	
Time to freezing	_____ / _____	<input type="checkbox"/> unknown	
NfL	_____		
GFAP	_____		
S100B	_____		
IL-1 α	_____	IL-1 β	_____
IL-2	_____	IL-4	_____
IL-5	_____	IL-6	_____
IL-8	_____	IL-10	_____
IL-12p70	_____	TNF α	_____
Coagulation			
INR	_____	<input type="checkbox"/> unknown	

Baseline NIHSS
1A Level of consciousness (LOC)

- 0** - Alert
- 1** – Not alert but arousal by minor stimulation
- 2** – Not alert, requires repeated stimulation
- 3** – Comatose, not responsive

1B LOC Questions (Age/ current month)

- 0** – Both correct
- 1** – one correct (intubated/language barrier)
- 2** – neither correct (aphasic/stuporous)

1C LOC Commands (open eye + hand grip)

- 0** – Both correct
- 1** – one correct
- 2** – neither correct

2 Best gaze (horizontal eye movement)

- 0** – normal
- 1** – partial gaze palsy (one or both eyes)
- 2** – forced deviation/total gaze palsy

3 Visual

- 0** – No visual loss
- 1** – Partial hemianopia (extinction)
- 2** – Complete hemianopia
- 3** – Bilateral hemianopia (blindness)

4 Facial palsy (show teeth and close eyes)

- 0** - Normal
- 1** – minor paralysis (asymmetry on smiling)
- 2** – partial paralysis (near total lower face)
- 3** – Complete paralysis

5A Motor left arm (45° if supine/90° if sitting extension)

- 0** – no drift, holds for full 10 seconds
- 1** – Drift, drifts down before 10 seconds
- 2** – Effort against gravity
- 3** – No effort against gravity
- 4** – No movement
- UN** – untestable:_____

5A Motor right arm (45° if supine/90° if sitting extension)

- 0** – no drift, holds for full 10 seconds
- 1** – Drift, drifts down before 10 seconds
- 2** – Effort against gravity
- 3** – No effort against gravity
- 4** – No movement
- UN** – untestable:_____

6A Motor left leg (supine, 30° extension)

- 0** – no drift, holds for full 5 seconds
- 1** – Drift, drifts down before 5 seconds
- 2** – Effort against gravity
- 3** – No effort against gravity
- 4** – No movement
- UN** – untestable:_____

6B Motor right leg (supine, 30° extension)

- 0** – no drift, holds for full 5 seconds
- 1** – Drift, drifts down before 5 seconds
- 2** – Effort against gravity
- 3** – No effort against gravity
- 4** – No movement
- UN** – untestable:_____

7 Limb ataxia (eyes open/finger-nose/heel-shin)

- 0** – Absent
- 1** – Present in one limb
- 2** – Present in two limbs
- UN** – Amputation/joint fusion_____

8 Sensory

- 0** – normal
- 1** – mild to moderate sensory loss
- 2** – sever to total sensory loss

9 Best Language

- 0** – No aphasia
- 1** – mild to moderate aphasia
- 2** – severe aphasia (fragmented)
- 3** – mute/global aphasia/coma

10 Dysarthria

- 0** - Normal
- 1** – mild to moderate (slurring)
- 2** – severe dysarthria (unintelligible)
- UN** – Intubated/physical barrier_____

Total:
11 Extinction (Neglect)

- 0** – normal
- 1** – visual/tactile/spatial/personal/auditory inattention
- 2** – profound hemi-inattention

Acute treatment at baseline

Invasive treatment of hypertension	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Anticoagulant reversal	<input type="checkbox"/> yes	<input type="checkbox"/> no	(e.g. <i>Tranexamic acid etc.</i>)
Seizure management	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Blood glucose control	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Withhold treatment due to DNR	<input type="checkbox"/> yes	<input type="checkbox"/> no	
No ICU treatment	<input type="checkbox"/> yes	<input type="checkbox"/> no	

Baseline SAE

SAE observed	<input type="checkbox"/> yes	<input type="checkbox"/> no
If yes, specify (multiple answers possible)	<input type="checkbox"/> ischemic stroke <input type="checkbox"/> recurrent ICH <input type="checkbox"/> surgical site infection <input type="checkbox"/> any other infection (i.e. pneumonia) <input type="checkbox"/> epileptic seizure <input type="checkbox"/> any need for open neurosurgery <input type="checkbox"/> any other complication prolonging hospital stay/leading to additional treatment <input type="checkbox"/> mortality <input type="checkbox"/> other: _____	
SAE form filled out	<input type="checkbox"/> yes	<input type="checkbox"/> no

Comments

Signature and Date

Signature Examiner	Stamp
Date Examination	_____

V2: Day 1 assessment: 24 ± 6 hours after start of treatment

Surgical Baseline data

Date surgery	_____ / _____ / _____	Time arrival in OR (Einfahrt Saal)	_____ : _____
Time first cut	_____ :		
Duration to intervention (onset-surgical measures)	_____ hour(s): _____ min		
Surgery performed in hybrid OR	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> unknown
Device for ICH removal	<input type="checkbox"/> Artemis (Penumbra) <input type="checkbox"/> Normal Suction device <input type="checkbox"/> other: _____	<input type="checkbox"/> unknown	
Transparent sheath used	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> unknown
Neuronavigation	<input type="checkbox"/> BrainLab <input type="checkbox"/> Medtronic <input type="checkbox"/> other : _____	<input type="checkbox"/> unknown	
Endoscope	<input type="checkbox"/> Storz <input type="checkbox"/> Stryker <input type="checkbox"/> Minop <input type="checkbox"/> Olympus <input type="checkbox"/> other : _____	<input type="checkbox"/> unknown	
Conversion to CC	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> unknown
Intraoperative complications	<input type="checkbox"/> no <input type="checkbox"/> seizure <input type="checkbox"/> active bleeding <input type="checkbox"/> other : _____	<input type="checkbox"/> unknown	
Intraoperative CT performed (Hybrid OR only)	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> unknown
Post-operative CT performed	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> unknown
Satisfactory hematoma evacuation (<15mL residual hematoma)	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> unknown
ICH volume BrainLab (cm ³)	_____		
Change of volume in mL	_____		
Change of volume in percent	_____		
Restart surgery after residual hematoma on intra or postoperative CT	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> unknown
Duration of surgery (Schnitt to Naht)	_____ hour(s): _____ min		

Day 1 clinical examination

Blood pressure (SBP/DBP; mmHg)	_____ / _____	
Heart rate (bpm)	_____	
Body temperature (°C)	_____	
GCS	Total: _____	<input type="checkbox"/> GCS in intubated patient
	Eye: _____	
	Verbal: _____	
	Motoric: _____	
mRS	<input type="checkbox"/> 0 - no symptoms <input type="checkbox"/> 1 - minor symptoms, no limitations <input type="checkbox"/> 2 – slight disability, no help needed <input type="checkbox"/> 3 – moderate disability, needs help but walks without assistance <input type="checkbox"/> 4 – moderate sever disabled, not able to walk <input type="checkbox"/> 5 - severe disability, bedridden <input type="checkbox"/> 6 - dead	

Day 1 radiology (cCT)

ICH volumetry (cm ³)	_____	
Change of volume in mL	_____	
Change of volume in percent	_____	
Recurrent haemorrhage	<input type="checkbox"/> yes	<input type="checkbox"/> no

Acute treatment at day 1

Invasive treatment of hypertension	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Anticoagulant reversal	<input type="checkbox"/> yes	<input type="checkbox"/> no	(e.g. <i>Tranexamic acid etc.</i>)
Seizure management	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Blood glucose control	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Withhold further treatment due to DNR	<input type="checkbox"/> yes	<input type="checkbox"/> no	
No ICU treatment	<input type="checkbox"/> yes	<input type="checkbox"/> no	

Day 1 NIHSS
1A Level of consciousness (LOC)

- 0** - Alert
- 1** – Not alert but arousal by minor stimulation
- 2** – Not alert, requires repeated stimulation
- 3** – Comatose, not responsive

1C LOC Commands (open eye + hand grip)

- 0** – Both correct
- 1** – one correct
- 2** – neither correct

3 Visual

- 0** – No visual loss
- 1** – Partial hemianopia (extinction)
- 2** – Complete hemianopia
- 3** – Bilateral hemianopia (blindness)

5A Motor left arm (45° if supine/90° if sitting extension)

- 0** – no drift, holds for full 10 seconds
- 1** – Drift, drifts down before 10 seconds
- 2** – Effort against gravity
- 3** – No effort against gravity
- 4** – No movement
- UN** – untestable:_____

6A Motor left leg (supine, 30° extension)

- 0** – no drift, holds for full 5 seconds
- 1** – Drift, drifts down before 5 seconds
- 2** – Effort against gravity
- 3** – No effort against gravity
- 4** – No movement
- UN** – untestable:_____

7 Limb ataxia (eyes open/finger-nose/heel-shin)

- 0** – Absent
- 1** – Present in one limb
- 2** – Present in two limbs
- UN** – Amputation/joint fusion_____

9 Best Language

- 0** – No aphasia
- 1** – mild to moderate aphasia
- 2** – severe aphasia (fragmented)
- 3** – mute/global aphasia/coma

Total:
1B LOC Questions (Age/ current month)

- 0** – Both correct
- 1** – one correct (intubated/language barrier)
- 2** – neither correct (aphasic/stuporous)

2 Best gaze (horizontal eye movement)

- 0** – normal
- 1** – partial gaze palsy (one or both eyes)
- 2** – forced deviation/total gaze palsy

4 Facial palsy (show teeth and close eyes)

- 0** - Normal
- 1** – minor paralysis (asymmetry on smiling)
- 2** – partial paralysis (near total lower face)
- 3** – Complete paralysis

5A Motor right arm (45° if supine/90° if sitting extension)

- 0** – no drift, holds for full 10 seconds
- 1** – Drift, drifts down before 10 seconds
- 2** – Effort against gravity
- 3** – No effort against gravity
- 4** – No movement
- UN** – untestable:_____

6B Motor right leg (supine, 30° extension)

- 0** – no drift, holds for full 5 seconds
- 1** – Drift, drifts down before 5 seconds
- 2** – Effort against gravity
- 3** – No effort against gravity
- 4** – No movement
- UN** – untestable:_____

8 Sensory

- 0** – normal
- 1** – mild to moderate sensory loss
- 2** – sever to total sensory loss

10 Dysarthria

- 0** - Normal
- 1** – mild to moderate (slurring)
- 2** – severe dysarthria (unintelligible)
- UN** – Intubated/physical barrier_____

11 Extinction (Neglect)

- 0** – normal
- 1** – visual/tactile/spatial/personal/auditory inattention
- 2** – profound hemi-inattention

Day 1 Re-surgery (0-24h postOP)

Re-surgery necessary If yes, specify why (multiple answers possible)	<input type="checkbox"/> yes <input type="checkbox"/> rebleeding <input type="checkbox"/> intracranial infection <input type="checkbox"/> ICP monitoring <input type="checkbox"/> uncontrollable ICP <input type="checkbox"/> hydrocephalus <input type="checkbox"/> subdural hematoma	<input type="checkbox"/> no	<input type="checkbox"/> unknown <input type="checkbox"/> unknown
Performed surgery (multiple answers possible)	<input type="checkbox"/> ICP monitoring <input type="checkbox"/> decompressive hemi-Craniectomy <input type="checkbox"/> Craniotomy <input type="checkbox"/> ETV <input type="checkbox"/> EVD <input type="checkbox"/> VP-Shunt <input type="checkbox"/> Burr hole		<input type="checkbox"/> unknown
SAE form filled out	<input type="checkbox"/> yes	<input type="checkbox"/> no	

Day 1 SAE

SAE observed If yes, specify (multiple answers possible)	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> ischemic stroke <input type="checkbox"/> recurrent ICH <input type="checkbox"/> surgical site infection <input type="checkbox"/> any other infection (i.e. pneumonia) <input type="checkbox"/> epileptic seizure <input type="checkbox"/> any need for open neurosurgery <input type="checkbox"/> any other complication prolonging hospital stay/leading to additional treatment <input type="checkbox"/> mortality <input type="checkbox"/> other: _____	
SAE form filled out	<input type="checkbox"/> yes	<input type="checkbox"/> no

Comments

Signature and Date

Signature Examiner	Stamp
Date Examination	

V3: Day 3 assessment: 72 ± 12 hours after start of treatment

Day 3 clinical examination

Blood pressure
(SBP/DBP; mmHg) _____ / _____
 Heart rate (bpm) _____

Body temperature
(°C) _____

GCS
 Total: _____
 Eye: _____
 Verbal: _____
 Motoric: _____

GCS in intubated patient

- mRS
- 0 - no symptoms
 - 1 - minor symptoms, no limitations
 - 2 – slight disability, no help needed
 - 3 – moderate disability, needs help but walks without assistance
 - 4 – moderate sever disabled, not able to walk
 - 5 - severe disability, bedridden
 - 6 - dead

Day 3 laboratory

Blood samples obtained and sent	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> unknown
Source of blood	<input type="checkbox"/> arterial	<input type="checkbox"/> venous	<input type="checkbox"/> unknown
Time to aliquotation	_____ / _____	<input type="checkbox"/> unknown	
Time to freezing	_____ / _____	<input type="checkbox"/> unknown	
NfL	_____		
GFAP	_____		
S100B	_____		
IL-1 α	_____	IL-1 β	_____
IL-2	_____	IL-4	_____
IL-5	_____	IL-6	_____
IL-8	_____	IL-10	_____
IL-12p70	_____	TNF α	_____

Acute treatment at day 3

Invasive treatment of hypertension	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Anticoagulant reversal	<input type="checkbox"/> yes	<input type="checkbox"/> no	(e.g. Tranexamic acid etc.)
Seizure management	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Blood glucose control	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Withhold further treatment due to DNR	<input type="checkbox"/> yes	<input type="checkbox"/> no	
No ICU treatment	<input type="checkbox"/> yes	<input type="checkbox"/> no	

Day 3 NIHSS
1A Level of consciousness (LOC)

- 0 - Alert
- 1 – Not alert but arousal by minor stimulation
- 2 – Not alert, requires repeated stimulation
- 3 – Comatose, not responsive

1C LOC Commands (open eye + hand grip)

- 0 – Both correct
- 1 – one correct
- 2 – neither correct

3 Visual

- 0 – No visual loss
- 1 – Partial hemianopia (extinction)
- 2 – Complete hemianopia
- 3 – Bilateral hemianopia (blindness)

5A Motor left arm (45° if supine/90° if sitting extension)

- 0 – no drift, holds for full 10 seconds
- 1 – Drift, drifts down before 10 seconds
- 2 – Effort against gravity
- 3 – No effort against gravity
- 4 – No movement
- UN – untestable:_____

6A Motor left leg (supine, 30° extension)

- 0 – no drift, holds for full 5 seconds
- 1 – Drift, drifts down before 5 seconds
- 2 – Effort against gravity
- 3 – No effort against gravity
- 4 – No movement
- UN – untestable:_____

7 Limb ataxia (eyes open/finger-nose/heel-shin)

- 0 – Absent
- 1 – Present in one limb
- 2 – Present in two limbs
- UN – Amputation/joint fusion_____

9 Best Language

- 0 – No aphasia
- 1 – mild to moderate aphasia
- 2 – severe aphasia (fragmented)
- 3 – mute/global aphasia/coma

Total:
1B LOC Questions (Age/ current month)

- 0 – Both correct
- 1 – one correct (intubated/language barrier)
- 2 – neither correct (aphasic/stuporous)

2 Best gaze (horizontal eye movement)

- 0 – normal
- 1 – partial gaze palsy (one or both eyes)
- 2 – forced deviation/total gaze palsy

4 Facial palsy (show teeth and close eyes)

- 0 - Normal
- 1 – minor paralysis (asymmetry on smiling)
- 2 – partial paralysis (near total lower face)
- 3 – Complete paralysis

5A Motor right arm (45° if supine/90° if sitting extension)

- 0 – no drift, holds for full 10 seconds
- 1 – Drift, drifts down before 10 seconds
- 2 – Effort against gravity
- 3 – No effort against gravity
- 4 – No movement
- UN – untestable:_____

6B Motor right leg (supine, 30° extension)

- 0 – no drift, holds for full 5 seconds
- 1 – Drift, drifts down before 5 seconds
- 2 – Effort against gravity
- 3 – No effort against gravity
- 4 – No movement
- UN – untestable:_____

8 Sensory

- 0 – normal
- 1 – mild to moderate sensory loss
- 2 – sever to total sensory loss

10 Dysarthria

- 0 - Normal
- 1 – mild to moderate (slurring)
- 2 – severe dysarthria (unintelligible)
- UN – Intubated/physical barrier_____

11 Extinction (Neglect)

- 0 – normal
- 1 – visual/tactile/spatial/personal/auditory inattention
- 2 – profound hemi-inattention

Day 3 Re-surgery (0-72h postOP)

Re-surgery necessary If yes, specify why (multiple answers possible)	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> unknown <input type="checkbox"/> rebleeding <input type="checkbox"/> intracranial infection <input type="checkbox"/> ICP monitoring <input type="checkbox"/> uncontrollable ICP <input type="checkbox"/> hydrocephalus <input type="checkbox"/> subdural hematoma	
Performed surgery (multiple answers possible)	<input type="checkbox"/> ICP monitoring <input type="checkbox"/> decompressive hemi-Craniectomy <input type="checkbox"/> Craniotomy <input type="checkbox"/> ETV <input type="checkbox"/> EVD <input type="checkbox"/> VP-Shunt <input type="checkbox"/> Burr hole	<input type="checkbox"/> unknown
SAE form filled out	<input type="checkbox"/> yes <input type="checkbox"/> no	

Day 3 SAE

SAE observed If yes, specify (multiple answers possible)	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> ischemic stroke <input type="checkbox"/> recurrent ICH <input type="checkbox"/> surgical site infection <input type="checkbox"/> any other infection (i.e. pneumonia) <input type="checkbox"/> epileptic seizure <input type="checkbox"/> any need for open neurosurgery <input type="checkbox"/> any other complication prolonging hospital stay/leading to additional treatment <input type="checkbox"/> mortality <input type="checkbox"/> other: _____
SAE form filled out	<input type="checkbox"/> yes <input type="checkbox"/> no

Comments

Signature and Date

Signature Examiner	Stamp
Date Examination	_____

V4: Day 7 assessment: 7 days after start of treatment / discharge

Day 7 clinical examination

Blood pressure

(SBP/DBP; mmHg) _____ / _____

Heart rate (bpm)

Body temperature
(°C)

GCS

Total: _____

GCS in intubated patient

Eye: _____

Verbal: _____

Motoric: _____

mRS

0 - no symptoms

1 - minor symptoms, no limitations

2 – slight disability, no help needed

3 – moderate disability, needs help but walks without assistance

4 – moderate sever disabled, not able to walk

5 - severe disability, bedridden

6 - dead

Day 7 Re-surgery

Re-surgery necessary

yes

no

unknown

If yes, specify why

(multiple answers possible)

rebleeding

unknown

intracranial infection

ICP monitoring

uncontrollable ICP

hydrocephalus

subdural hematoma

Performed surgery

(multiple answers possible)

ICP monitoring

unknown

decompressive hemi-Craniectomy

Craniotomy

ETV

EVD

VP-Shunt

Burr hole

SAE form filled out

yes

no

Day 7 NIHSS
1A Level of consciousness (LOC)

- 0** - Alert
- 1** – Not alert but arousal by minor stimulation
- 2** – Not alert, requires repeated stimulation
- 3** – Comatose, not responsive

1C LOC Commands (open eye + hand grip)

- 0** – Both correct
- 1** – one correct
- 2** – neither correct

3 Visual

- 0** – No visual loss
- 1** – Partial hemianopia (extinction)
- 2** – Complete hemianopia
- 3** – Bilateral hemianopia (blindness)

5A Motor left arm (45° if supine/90° if sitting extension)

- 0** – no drift, holds for full 10 seconds
- 1** – Drift, drifts down before 10 seconds
- 2** – Effort against gravity
- 3** – No effort against gravity
- 4** – No movement
- UN** – untestable:_____

6A Motor left leg (supine, 30° extension)

- 0** – no drift, holds for full 5 seconds
- 1** – Drift, drifts down before 5 seconds
- 2** – Effort against gravity
- 3** – No effort against gravity
- 4** – No movement
- UN** – untestable:_____

7 Limb ataxia (eyes open/finger-nose/heel-shin)

- 0** – Absent
- 1** – Present in one limb
- 2** – Present in two limbs
- UN** – Amputation/joint fusion_____

9 Best Language

- 0** – No aphasia
- 1** – mild to moderate aphasia
- 2** – severe aphasia (fragmented)
- 3** – mute/global aphasia/coma

Total:
1B LOC Questions (Age/ current month)

- 0** – Both correct
- 1** – one correct (intubated/language barrier)
- 2** – neither correct (aphasic/stuporous)

2 Best gaze (horizontal eye movement)

- 0** – normal
- 1** – partial gaze palsy (one or both eyes)
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4 Facial palsy (show teeth and close eyes)

- 0** - Normal
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- 3** – Complete paralysis

5A Motor right arm (45° if supine/90° if sitting extension)

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- UN** – untestable:_____

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- 4** – No movement
- UN** – untestable:_____

8 Sensory

- 0** – normal
- 1** – mild to moderate sensory loss
- 2** – sever to total sensory loss

10 Dysarthria

- 0** - Normal
- 1** – mild to moderate (slurring)
- 2** – severe dysarthria (unintelligible)
- UN** – Intubated/physical barrier_____

11 Extinction (Neglect)

- 0** – normal
- 1** – visual/tactile/spatial/personal/auditory inattention
- 2** – profound hemi-inattention

Acute treatment at day 7

Invasive treatment of hypertension	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Anticoagulant reversal	<input type="checkbox"/> yes	<input type="checkbox"/> no	(e.g. <i>Tranexamic acid etc.</i>)
Seizure management	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Blood glucose control	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Withhold further treatment due to DNR	<input type="checkbox"/> yes	<input type="checkbox"/> no	
No ICU treatment	<input type="checkbox"/> yes	<input type="checkbox"/> no	

Day 7 Discharge

Time spent in ICU	_____ : _____ (hh:mm)
Time spent in intubation	_____ : _____ (hh:mm)
Discharge destination	<input type="checkbox"/> rehabilitation centre <input type="checkbox"/> other hospital <input type="checkbox"/> home <input type="checkbox"/> nursing home <input type="checkbox"/> other: _____

Day 7 SAE

SAE observed	<input type="checkbox"/> yes	<input type="checkbox"/> no
If yes, specify (multiple answers possible)	<input type="checkbox"/> ischemic stroke <input type="checkbox"/> recurrent ICH <input type="checkbox"/> surgical site infection <input type="checkbox"/> any other infection (i.e. pneumonia) <input type="checkbox"/> epileptic seizure <input type="checkbox"/> any need for open neurosurgery <input type="checkbox"/> any other complication prolonging hospital stay/leading to additional treatment <input type="checkbox"/> mortality <input type="checkbox"/> other: _____	
SAE form filled out	<input type="checkbox"/> yes	<input type="checkbox"/> no

Comments

Signature and Date

Signature Examiner

Stamp

Date Examination

V5: 3-month assessment: 3 months ± 14 days after start of treatment / discharge

3 month clinical examination

Blood pressure (SBP/DBP; mmHg)	_____ / _____	
Body temperature (°C)	_____	
GCS	Total: _____ Eye: _____ Verbal: _____ Motoric: _____	<input type="checkbox"/> GCS in intubated patient
mRS	<input type="checkbox"/> 0 - no symptoms <input type="checkbox"/> 1 - minor symptoms, no limitations <input type="checkbox"/> 2 – slight disability, no help needed <input type="checkbox"/> 3 – moderate disability, needs help but walks without assistance <input type="checkbox"/> 4 – moderate sever disabled, not able to walk <input type="checkbox"/> 5 - severe disability, bedridden <input type="checkbox"/> 6 - dead	

3-month Quality of Life (PROMIS 10)

1. In general, would you say your health is	_____ Points
2. In general, would you say your quality of life is	_____ Points
3. In general, how would you rate your physical health	_____ Points
4. In general, how would you rate your mental health, including your mood and your ability to think	_____ Points
5. In general, how would you rate your satisfaction with your social activities and relationships	_____ Points
9r. In general, please rate how well you carry out your usual social activities and roles	_____ Points
6. To what extend are you able to carry out your everyday physical activities such as walking, climbing stairs etc	_____ Points
10r. How often have you been bothered by emotional problems such as feeling anxious, depressed or irritable	_____ Points
8r How would you rate your fatigue on average	_____ Points
7rc How would you rate your pain on average	_____ Points

3 month NIHSS
1A Level of consciousness (LOC)

- 0 - Alert
- 1 – Not alert but arousal by minor stimulation
- 2 – Not alert, requires repeated stimulation
- 3 – Comatose, not responsive

1C LOC Commands (open eye + hand grip)

- 0 – Both correct
- 1 – one correct
- 2 – neither correct

3 Visual

- 0 – No visual loss
- 1 – Partial hemianopia (extinction)
- 2 – Complete hemianopia
- 3 – Bilateral hemianopia (blindness)

5A Motor left arm (45° if supine/90° if sitting extension)

- 0 – no drift, holds for full 10 seconds
- 1 – Drift, drifts down before 10 seconds
- 2 – Effort against gravity
- 3 – No effort against gravity
- 4 – No movement
- UN – untestable:_____

6A Motor left leg (supine, 30° extension)

- 0 – no drift, holds for full 5 seconds
- 1 – Drift, drifts down before 5 seconds
- 2 – Effort against gravity
- 3 – No effort against gravity
- 4 – No movement
- UN – untestable:_____

7 Limb ataxia (eyes open/finger-nose/heel-shin)

- 0 – Absent
- 1 – Present in one limb
- 2 – Present in two limbs
- UN – Amputation/joint fusion_____

9 Best Language

- 0 – No aphasia
- 1 – mild to moderate aphasia
- 2 – severe aphasia (fragmented)
- 3 – mute/global aphasia/coma

Total:
1B LOC Questions (Age/ current month)

- 0 – Both correct
- 1 – one correct (intubated/language barrier)
- 2 – neither correct (aphasic/stuporous)

2 Best gaze (horizontal eye movement)

- 0 – normal
- 1 – partial gaze palsy (one or both eyes)
- 2 – forced deviation/total gaze palsy

4 Facial palsy (show teeth and close eyes)

- 0 - Normal
- 1 – minor paralysis (asymmetry on smiling)
- 2 – partial paralysis (near total lower face)
- 3 – Complete paralysis

5A Motor right arm (45° if supine/90° if sitting extension)

- 0 – no drift, holds for full 10 seconds
- 1 – Drift, drifts down before 10 seconds
- 2 – Effort against gravity
- 3 – No effort against gravity
- 4 – No movement
- UN – untestable:_____

6B Motor right leg (supine, 30°extension)

- 0 – no drift, holds for full 5 seconds
- 1 – Drift, drifts down before 5 seconds
- 2 – Effort against gravity
- 3 – No effort against gravity
- 4 – No movement
- UN – untestable:_____

8 Sensory

- 0 – normal
- 1 – mild to moderate sensory loss
- 2 – sever to total sensory loss

10 Dysarthria

- 0 - Normal
- 1 – mild to moderate (slurring)
- 2 – severe dysarthria (unintelligible)
- UN – Intubated/physical barrier_____

11 Extinction (Neglect)

- 0 – normal
- 1 – visual/tactile/spatial/personal/auditory inattention
- 2 – profound hemi-inattention

3 month Re-surgery

Re-surgery necessary If yes, specify why (multiple answers possible)	<input type="checkbox"/> yes <input type="checkbox"/> rebleeding <input type="checkbox"/> intracranial infection <input type="checkbox"/> ICP monitoring <input type="checkbox"/> uncontrollable ICP <input type="checkbox"/> hydrocephalus <input type="checkbox"/> subdural hematoma	<input type="checkbox"/> no	<input type="checkbox"/> unknown <input type="checkbox"/> unknown
Performed surgery (multiple answers possible)	<input type="checkbox"/> ICP monitoring <input type="checkbox"/> decompressive hemi-Craniectomy <input type="checkbox"/> Craniotomy <input type="checkbox"/> ETV <input type="checkbox"/> EVD <input type="checkbox"/> VP-Shunt <input type="checkbox"/> Burr hole	<input type="checkbox"/> unknown	
SAE form filled out	<input type="checkbox"/> yes	<input type="checkbox"/> no	

3-month MOCA

Visuospatial/Executive	_____ Points
Naming	_____ Points
Memory	No Points
Attention - Number list	_____ Points
Attention – Letter list	_____ Points
Attention - Subtraction	_____ Points
Speech – Repetition	_____ Points
Speech – Word naming	_____ Points
Abstraction	_____ Points
Recollection	_____ Points
Orientation	_____ Points
Total Points	_____ Points
	(+1 Point if ≤ 12 years of Education)

3-month Patient Satisfaction (1-lowest, 5-best)

1. Fühlten Sie sich gut betreut?	_____ Points
2. Wurden alle Ihre Fragen zu Ihrer Zufriedenheit erfüllt (zum Beispiel was passiert in Zukunft?) und fühlten Sie sich ernst genommen?	_____ Points
3. Hatten Sie das Gefühl, dass man sich genug Zeit für Sie genommen hat (konnten zum Beispiel Ärzte und Pflege genügend auf Ihre Bedürfnisse eingehen)?	_____ Points
4. Wie zufrieden sind Sie mit dem Ergebnis Ihrer Behandlung (Zum Beispiel mit der Entwicklung von körperlichen Einschränkungen)?	_____ Points
5. Wie zufrieden sind Sie gesamthaft mit Ihrer Behandlung (Zum Beispiel mit der Funktion im Alltag)?	_____ Points
Total points	_____ Points

3 month SAE

SAE observed	<input type="checkbox"/> yes	<input type="checkbox"/> no
If yes, specify (multiple answers possible)	<input type="checkbox"/> ischemic stroke <input type="checkbox"/> recurrent ICH <input type="checkbox"/> surgical site infection <input type="checkbox"/> any other infection (i.e. pneumonia) <input type="checkbox"/> epileptic seizure <input type="checkbox"/> any need for open neurosurgery <input type="checkbox"/> any other complication prolonging hospital stay/leading to additional treatment <input type="checkbox"/> mortality <input type="checkbox"/> other: _____	
SAE form filled out	<input type="checkbox"/> yes	<input type="checkbox"/> no

Comments

Pregnancy
reported?

Signature and Date

Signature Examiner	Stamp
Date Examination	_____

V6: 6-month assessment: 6 months ± 28 days after start of treatment / discharge

6 month clinical examination

Blood pressure (SBP/DBP; mmHg)	_____ / _____	
Heart rate (bpm)	_____	
Body temperature (°C)	_____	
GCS	Total: _____ Eye: _____ Verbal: _____ Motoric: _____	<input type="checkbox"/> GCS in intubated patient
mRS	<input type="checkbox"/> 0 - no symptoms <input type="checkbox"/> 1 - minor symptoms, no limitations <input type="checkbox"/> 2 – slight disability, no help needed <input type="checkbox"/> 3 – moderate disability, needs help but walks without assistance <input type="checkbox"/> 4 – moderate sever disabled, not able to walk <input type="checkbox"/> 5 - severe disability, bedridden <input type="checkbox"/> 6 - dead	

6-month radiology (cCT)

ICH volumetry (cm³)	_____	
Change of volume in mL	_____	
Change of volume in percent	_____	
Residual hematoma	<input type="checkbox"/> yes	<input type="checkbox"/> no
Recurrent haemorrhage	<input type="checkbox"/> yes	<input type="checkbox"/> no

6 month laboratory

Blood samples obtained and sent	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> unknown
Source of blood	<input type="checkbox"/> arterial	<input type="checkbox"/> venous	<input type="checkbox"/> unknown
Time to aliquotation	_____ / _____	<input type="checkbox"/> unknown	
Time to freezing	_____ / _____	<input type="checkbox"/> unknown	
NfL	_____		
GFAP	_____		
S100B	_____		
IL-1 α	_____	IL-1 β	_____
IL-2	_____	IL-4	_____
IL-5	_____	IL-6	_____
IL-8	_____	IL-10	_____
IL-12p70	_____	TNF α	_____

6 month Re-surgery

Re-surgery necessary If yes, specify why (multiple answers possible)	<input type="checkbox"/> yes <input type="checkbox"/> rebleeding <input type="checkbox"/> intracranial infection <input type="checkbox"/> ICP monitoring <input type="checkbox"/> uncontrollable ICP <input type="checkbox"/> hydrocephalus <input type="checkbox"/> subdural hematoma	<input type="checkbox"/> no	<input type="checkbox"/> unknown <input type="checkbox"/> unknown
Performed surgery (multiple answers possible)	<input type="checkbox"/> ICP monitoring <input type="checkbox"/> decompressive hemi-Craniectomy <input type="checkbox"/> Craniotomy <input type="checkbox"/> ETV <input type="checkbox"/> EVD <input type="checkbox"/> VP-Shunt <input type="checkbox"/> Burr hole	<input type="checkbox"/> unknown	
SAE form filled out	<input type="checkbox"/> yes	<input type="checkbox"/> no	

3-month Quality of Life (PROMIS 10)

1. In general, would you say your health is	_____ Points
2. In general, would you say your quality of life is	_____ Points
3. In general, how would you rate your physical health	_____ Points
4. In general, how would you rate your mental health, including your mood and your ability to think	_____ Points
5. In general, how would you rate your satisfaction with your social activities and relationships	_____ Points
9r. In general, please rate how well you carry out your usual social activities and roles	_____ Points
6. To what extend are you able to carry out your everyday physical activities such as walking, climbing stairs etc	_____ Points
10r. How often have you been bothered by emotional problems such as feeling anxious, depressed or irritable	_____ Points
8r How would you rate your fatigue on average	_____ Points
7rc How would you rate your pain on average	_____ Points

6 month NIHSS
1A Level of consciousness (LOC)

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1C LOC Commands (open eye + hand grip)

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5A Motor left arm (45° if supine/90° if sitting extension)

- 0** – no drift, holds for full 10 seconds
- 1** – Drift, drifts down before 10 seconds
- 2** – Effort against gravity
- 3** – No effort against gravity
- 4** – No movement
- UN** – untestable:_____

6A Motor left leg (supine, 30° extension)

- 0** – no drift, holds for full 5 seconds
- 1** – Drift, drifts down before 5 seconds
- 2** – Effort against gravity
- 3** – No effort against gravity
- 4** – No movement
- UN** – untestable:_____

7 Limb ataxia (eyes open/finger-nose/heel-shin)

- 0** – Absent
- 1** – Present in one limb
- 2** – Present in two limbs
- UN** – Amputation/joint fusion_____

9 Best Language

- 0** – No aphasia
- 1** – mild to moderate aphasia
- 2** – severe aphasia (fragmented)
- 3** – mute/global aphasia/coma

Total:
1B LOC Questions (Age/ current month)

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- 1** – one correct (intubated/language barrier)
- 2** – neither correct (aphasic/stuporous)

2 Best gaze (horizontal eye movement)

- 0** – normal
- 1** – partial gaze palsy (one or both eyes)
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- 4** – No movement
- UN** – untestable:_____

6B Motor right leg (supine, 30° extension)

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- 1** – Drift, drifts down before 5 seconds
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- 4** – No movement
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8 Sensory

- 0** – normal
- 1** – mild to moderate sensory loss
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10 Dysarthria

- 0** - Normal
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- UN** – Intubated/physical barrier_____

11 Extinction (Neglect)

- 0** – normal
- 1** – visual/tactile/spatial/personal/auditory inattention
- 2** – profound hemi-inattention

6-month MOCA

Visuospatial/Executive	_____ Points	
Naming	_____ Points	
Memory	No Points	
Attention - Number list	_____ Points	
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Attention - Subtraction	_____ Points	
Speech – Repetition	_____ Points	
Speech – Word naming	_____ Points	
Abstraction	_____ Points	
Recollection	_____ Points	
Orientation	_____ Points	
Total Points	_____ Points	(+1 Point if \leq 12 years of Education)

6-month Patient Satisfaction (1-lowest, 5-best)

1. Fühlten Sie sich gut betreut?	_____ Points
2. Wurden alle Ihre Fragen zu Ihrer Zufriedenheit erfüllt (zum Beispiel was passiert in Zukunft?) und fühlten Sie sich ernst genommen?	_____ Points
3. Hatten Sie das Gefühl, dass man sich genug Zeit für Sie genommen hat (konnten zum Beispiel Ärzte und Pflege genügend auf Ihre Bedürfnisse eingehen)?	_____ Points
4. Wie zufrieden sind Sie mit der Aufklärung für die Zeit nach der Studie (Wurden zum Beispiel Fragen über den zukünftigen Krankheitsverlauf beantwortet)?	_____ Points
5. Wie zufrieden sind Sie gesamthaft mit Ihrer Behandlung (Zum Beispiel mit der Funktion im Alltag)?	_____ Points
Total points	_____ Points

6 month SAE

SAE observed	<input type="checkbox"/> yes	<input type="checkbox"/> no
If yes, specify (multiple answers possible)	<input type="checkbox"/> ischemic stroke <input type="checkbox"/> recurrent ICH <input type="checkbox"/> surgical site infection <input type="checkbox"/> any other infection (i.e. pneumonia) <input type="checkbox"/> epileptic seizure <input type="checkbox"/> any need for open neurosurgery <input type="checkbox"/> any other complication prolonging hospital stay/leading to additional treatment <input type="checkbox"/> mortality <input type="checkbox"/> other: _____	
SAE form filled out	<input type="checkbox"/> yes	<input type="checkbox"/> no

Comments

Pregnancy
reported?

Signature and Date

Signature Examiner

Stamp

Date Examination