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Inhospital CRF

	Emergency department
	Hospital
	🔿 Södersjukhuset 🔿 Karolinska Solna 🔿 Other
	Time of hospital arrival
	Sustained ROSC (>20 minutes without CPR) at hospital arrival?
	⊖ Yes ⊖ No
	Admitted alive?
	⊖ Yes ⊖ No
	Patient declared dead at emergency department
	⊖ Yes ⊖ No
	First registered vital functions upon arrival to hospital (in ER, ICU or other location)
	Systolic blood pressure (mmHg)
	Diastolic blood pressure (mmHg)
	Mean arterial pressure (MAP) (mmHg)
))	Spontaneous breathing
	⊖ Yes ⊖ No



11)	Glasgow Coma Scale (GCS)
	$\bigcirc 3 \ \bigcirc 4 \ \bigcirc 5 \ \bigcirc 6 \ \bigcirc 7 \ \bigcirc 8 \ \bigcirc 9 \ \bigcirc 10 \ \bigcirc 11 \ \bigcirc 12 \ \bigcirc 13 \ \bigcirc 14 \ \bigcirc 15$
12)	Pupillary response
	 Present bilaterally Absent bilaterally Absent unilaterally Not assessed
13)	Tympanic temperature (°C)
14)	Core temperature (°C)
15)	Core temperature location
	 Rectal Bladder Esophageal Blood
16)	ECG findings (post-ROSC)
	 STEMI (>1mm ST elevation in ≥ 2 leads) New LBBB ST-segment depression (>1 mm in ≥ 2 leads) None of the above Other
	First arterial blood gas available after ROSC
17)	pH
	Conversion of mmHg to kPa mmHg value * 0.133322

18) pO2 (kPa)

19) pCO2 (kPa)



20)	Base excess (mmol/L)
21)	Lactate (mg/dl)
22)	O2-saturation (%)
23)	Hb (g/dl)
24)	B-glucose (mmol/L)
	SOFA Score Conversion of mmHg to kPa
	mmHg value * 0.133322 Admission Day 1 Day 2 Day 3 PaO2
	Patients status prior to cardiac arrest (e.g. prior to randomization)
25)	Previous (before cardiac arrest) know co-morbidity (Check all that apply)
	 Ischeamic heart disease Previous myocardial infarction Heart failure Atrial fibrillation/flutter Hypertension Diabetes type 1 Diabetes type 2 Chronic kidney disease Chronic liver disease

- Chronic liver disease
 Cancer
 Stroke/TIA
 Chronic obstructive pulmonary disease
 HIV
- \square None of the above



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1 Very Fit — People who are robust, active, energetic and motivated. These people commonly exercise regularly. They are among the fittest for their age.	Ì
2 Well — People who have no active disease symptoms but are less fit then category 1. Often, they exercise or are very active occasionally, e.g. seasonally.	•
3 Managing Well — People whose medical problems are well controlled, but are not regularly active beyond routine walking.	Ý
4 Vulnerable — While not dependent on others for daily help, often symptoms limit activities. A common complaint is being "slowed up" and/or being tired during the day.	
5 Mildly Frail — These people often have more evident slowing, and need help in high order IADLs (finances, transportation, heavy housework, medications). Typically, mild frailty progressively impairs shopping and walking outside alone, meal preparation and housework.	
6 Moderately Frail — People need help with all outside activities and with keeping house. Inside, they often have problems with stairs and need help with bathing and might need minimal assistance (cuing, standby) with dressing.	
7 Severely Frail — Completely dependent for personal care, from whatever cause (physical or cognitive). Even so, they seem stable and not at high risk of dying (within ~ 6 months).	X
8 Very Severely Frail — Completely dependent, approaching the end of life. Typically, they could not recover even from a minor illness.	
9 Terminally III — Approaching the end of life. This category applies to people with a life expectancy <6 months, who are not otherwise evidently frail.	



- \bigcirc 1 Very Fit People who are robust, active, energetic and motivated
- \bigcirc 2 Well People who have no active disease symptoms but are less fit then category 1

3 Managing Well - People whose medical problems are well controlled, but are not regularly active beyond routine walking.

- 4 Vulnerable While not dependent on others for daily help, often symptoms limit activities.
- igodow 5 Mildly Frail These people often have more evident slowing, and need help in high order IADLs
- \bigcirc 6 Moderately Frail People need help with all outside activities and with keeping house.
- 7 Severely Frail Completely dependent for personal care, from whatever cause (physical or cognitive)
- 8 Very Severely Frail Completely dependent, approaching the end of life. T
- 9 Terminally III Approaching the end of life.

27) Estimated pre-arrest mRS

- O No neurological symptoms
- 1 No significant neurological symptoms. Able to carry out usual activities, despite some symptoms
- O 2 Slight disability. Able to look after own affairs without assistance, but unable to carry out all previous activities
- \bigcirc 3 Moderate disability. Requires some help, but able to walk unassisted
- 4 Moderate severe disability. Unable to attend to own bodily needs without assistance or unable to walk unassisted
- \bigcirc 5 Severe disability. Requires constant nursing care and attention, bedridden, incontinent

Core variables for systemic hypothermia in the intervention group

28) Cooling method

Intravenous system
 Surface system

- 29) Time of initiation of systemic cooling
- 30) Was trans-nasal cooling interrupted prior to systemic cooling?
 - Yes
- 31) If trans-nasal cooling was interrupted, please specify reason
- 32) Time of termination of cooling with RhinoChill

Register core temperature and tympanic temperature every 20 minutes from start of systemic cooling until target temperature is reached

Minutes from start of systemic cooling Core temperature Start _____ 20 _____ 40 _____ 60 _____



180 (3 h) _____ 200 (3 h, 20 min) _____ 220 (3 h, 40 min) _____ 240 (4 h) _____ 260 (4 h, 20 min) _____ 280 (4 h, 40 min) _____

33) Time of core temperature \leq 34 °C

34) Time of Core temperature \leq 33 °C

Register core temperature every hour during maintenance phase (start registration 1 hour after target temperature is reached)

Core temperature Hour 1 Hour 2 Hour 3 Hour 4 Hour 5 Hour 6 Hour 7 Hour 8 Hour 9 Hour 10 Hour 11 Hour 12 Hour 13 Hour 14 Hour 15 Hour 16 Hour 17 Hour 18 Hour 19 Hour 20 Hour 21 Hour 22 Hour 23 Hour 24

35) Time of termination of systemic cooling (start of rewarming)

36) Time of core temperature \geq 36.5 °C

37) Did the patient have fever >37.7 °C during the first 72 hours

⊖ Yes ⊖ No

38) LVEF (%) at 24 hours

0	Normal (> 55%)
Õ	Mildly reduced (45-54%)
Ó	Moderately reduced (30-44%)
Ο	Severely reduced (< 30%)
Ο	Not performed

39) LVEF (%) at 72 hours

\cap	Normal (> 55%)
\cup	Normai (~ 5570)
\cap	Mildly reduced (45-54%)

- Moderately reduced (30-44%)
- \bigcirc Severely reduced (< 30%)
- Not performed

Serious adverse events within 7 days

40) Moderate bleeding, according to the GUSTO criteria (bleeding requiring transfusion, but not resulting in haemodynamic compromise)

○ Yes

∩ No

⊖ Yes ⊖ No

- 41) Severe bleeding according to Gusto criteria (intracranial hemorrhage or bleeding resulting in haemodynamic compromise necessitating intervention)
- 42) Sepsis and septic shock, according to the 3rd international consensus definitions for sepsis and septic shock?

⊖ Yes ⊖ No

43) Arrhythmia resulting in hemodynamic compromise?

⊖ No

- Bradycardia with need for pacing
- Ventricular tachycardia
- Ventricular fibrillation

44) Cerebrovascular lesion during ICU stay

⊖ Yes ⊖ No

45) New cardiac arrest after enrollment

○ Yes ○ No

46) Circulatory complications?

⊖ No

- Cardiogenic shock requiring inotropes
- Cardiogenic shock requiring mechanical support



47) Device related adverse events	47)	Device	related	adverse	events
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⊖ Yes
○ No
\bigcirc Uncertain (needs adjudication)

48) If device related adverse events = Yes, Specify

49) Did device related or other unexpected serious adverse event occur?

	⊖ Yes	(fill in	safety	CRF)	🔿 No
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Sedation

- 50) Was the patient sedated 40 h according to protocol?
 - ⊖ Yes ⊖ No
- 51) If sedation was terminated before 40 h from cardiac arrest, describe why

Lab tests (During ICU stay)

- 52) NSE at 24 hours (if applicable)
- 53) NSE at 48 hours (if applicable)
- 54) NSE at 72 hours (if applicable)
- 55) Maximum level of Troponin T within 24 hours (if used by center)

56) Maximum level of Troponin I within 24 hours (if used by center)



Angiography/Revascularization

- 57) Angiography performed
 - O Not performed
 - Acute within 24h after admission
 During ICU/hospital stay
- 58) PCI_performed

⊖ Yes ⊖ No

Delirium

59) Symptoms of delirium at the time of ICU discharge? Identified by: ICD-code for delirium, or positive delirium screening with the delirium assessment instrument used at the site (E.g. the CAM-ICU, the Nu-DESC etc.), or delirium described by text in the medical journals (according to the DSM-5 criteria for delirium).

⊖ Yes

O No

O Missing

○ Not applicable

60) Symptoms of delirium at seven days or later after OHCA? Identified by: ICD-code for delirium, or positive delirium screening with the delirium assessment instrument used at the site (E.g. the CAM-ICU, the Nu-DESC etc.), or delirium described by text in the medical journals (according to the DSM-5 criteria).

○ Yes

Ŏ Missing

○ Not applicable

Organ support during ICU stay

61) Was the patient supported by an intra-aortic ballon pump (IABP)

⊖ Yes ⊃ No

62) Was the patient supported by ECMO?

⊖ Yes ⊖ No

63) If yes, was the patient put on ECMO during CPR (ECPR)?

⊖ Yes ⊃ No

64) If supported with ECPR, when was ECMO started?

65) Was the patient supported by an Impella?

⊖ Yes ⊃ No



66)	Was the patient treated with continous renal replacement therapy?
	⊖ Yes ⊖ No
67)	Deviation from protocol
	⊖ Yes ⊖ No
68)	If protocol deviation = Yes, describe
	Prognostication at 72 hours
69)	Time for prognostication
70)	Does the patient fulfill the study criteria for a likely poor neurological outcome?
	○ Yes ○ No
71)	What prognostic methods beyond clinical neurological assessment were used for prognostication? (tick all that apply)
	□ NSE □ SSEP
	□ SSET □ EEG □ MR/CT brain scan
	Withdrawal of life sustaining therapies / ICU care discontinued
72)	What prognostic methods beyond clinical neurological assessment were used in the event that a decision was made to discontinue intensive care? (tick all that apply)

SSEP
EEG
MR/CT brain scan

73) When was intensive care terminated?

74) If treatment terminated before 72 hours from randomization. Describe why?



- 75) Did patient die during hospital stay?
 - \bigcirc Yes (fill in below) \bigcirc No
- 76) If yes, where did the patient die

○ ICU○ Hospital ward

77) Cause of death

⊖ Cerebral

O Cardiac

O Infection

O Multi-organ failure

○ Other

78) No. of days in hospital

- 79) mRS at hospital discharge
 - \bigcirc 0 No neurological symptoms.
 - O 1 No significant neurological symptoms.
 - O 2 Slight disability.
 - 3 Moderate disability.
 - \bigcirc 4 Moderate severe disability.
 - \bigcirc 5 Severe disability.

80) Patient discharged to

⊖ Home

- O Rehabilitation
- Other

