Inhospital CRF

	Emergency department
1)	Hospital
	 Södersjukhuset ○ KS Solna ○ Medizinische Universität Wien ○ Medizinischen Universität Graz ○ Universitätsklinikum Freiburg: Uniklinikum ○ Universitätsmedizin Halle ○ Asklepios Südpfalzklinik Kandel ○ Hospital Universitario La Paz ○ Hospital Clinico San Carlos ○ Univerzitetni Klinični Ljubljana ○ Univerzitetni Klinični Maribor ○ Other
2)	Time of hospital arrival
3)	ROSC sustained until hospital arrival? (ROSC sustained until arrival at the hospital and care has been tranferred to medical staff at the receiving hospital.)
	○ Yes ○ No
4)	Admitted alive? (Admitted with ROSC or ROC (return of circulation supported by extracorporeal CPR))
	○ Yes ○ No
5)	Patient declared dead at emergency department
	○ Yes ○ No
6)	ECPR (extracorporeal CPR) performed?
	○ Yes ○ No
7)	Time of ROSC or ROC (return of circulation supported by extracorporeal CPR) if ROSC/ROC after hospital arrival
	First registered vital functions upon arrival to hospital (in ER, ICU or other location)
8)	Systolic blood pressure (mmHg)
9)	Diastolic blood pressure (mmHg)
10)	Mean arterial pressure (MAP) (mmHg)

11)	Spontaneous breathing
	○ Yes ○ No
12)	Glasgow Coma Scale (GCS)
	3 0 4 0 5 0 6 0 7 0 8 0 9 0 10 0 11 0 12 0 13 0 14 0 15
13)	Pupillary response
	○ Present bilaterally○ Absent bilaterally○ Absent unilaterally○ Not assessed
14)	Tympanic temperature (°C)
15)	Time of first registered tympanic temperature
16)	Core temperature (°C) (first registered)
17)	Time of first registered core temperature
18)	Core temperature location
	○ Rectal○ Bladder○ Esophageal○ Blood
19)	ECG findings (first ECG 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 avai	lable after ROSC
20)	pH	
	Conversion of mmHg to kPa mmHg value * 0.133322	
21)	pO2 (kPa)	
22)	pCO2 (kPa)	
23)	Base excess (mmol/L)	
24)	Lactate (mg/dl)	
25)	O2-saturation (%)	
26)	Hb (g/dl)	
27)	B-glucose (mmol/L)	
	SOFA Score	
	Conversion of mmHg to kPa mmHg value * 0.133322	
	Admission Day 1 Day 2 Day 3 PaO2 Fraction Inspired Oxygen (%) Creatinine Glasgow Coma Scale Bilirubin (mg/dL) Platelet count (× 10^9/L) Cardiovascular function (check of	
	Cardiovascular function (check or	ne)

28)

Patients status prior to cardiac arrest (e.g. prior to randomization)

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 ☐ Cancer ☐ Stroke/TIA ☐ Chronic obstructive pulmonary disease ☐ HIV ☐ None of the above	



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Clinical Frailty Scale

1 Very Fit — People who are robust, active, energetic and motivated. These people commonly exercise regularly. They are among the fittest for their age.	*
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.	•
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).	
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.	



29)	Clinical Frailty Scale before OHCA
	 1 Very Fit - People who are robust, active, energetic and motivated 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. 5 Mildly Frail - These people often have more evident slowing, and need help in high order IADLS 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.
30)	Estimated pre-arrest mRS - see Follow-up manuals for more details on mRS princess2.org/manuals
	 0 - No neurological symptoms 1 - No significant neurological symptoms. Able to carry out usual activities, despite some symptoms 2 - Slight disability. Able to look after own affairs without assistance, but unable to carry out all previous activities 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 5 - Severe disability. Requires constant nursing care and attention, bedridden, incontinent
	Core variables for systemic hypothermia in the intervention group
31)	Cooling method
	○ Intravenous system○ Surface system
32)	Time of initiation of systemic cooling
33)	Was trans-nasal cooling interrupted prior to systemic cooling?
	YesNo
34)	If trans-nasal cooling was interrupted, please specify reason
35)	Time of termination of trans-nasal cooling
	Register core temperature every 20 minutes from start of systemic cooling until target temperature is reached, if not already at target temperature when systemic cooling is initiated. Minutes from start of systemic cooling Core temperature Start
	24/6½/262引0免95min)projectredcap.org REDCap



	180 (3 h)
36)	Time of core temperature ≤34 °C
37)	Time of Core temperature ≤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 10 Hour 11 Hour 12 Hour 13 Hour 14 Hour 15 Hour 16 Hour 17 Hour 18 Hour 17 Hour 18 Hour 19 Hour 10 Hour 10 Hour 10 Hour 10 Hour 10 Hour 11 Hour 12 Hour 13 Hour 14 Hour 15 Hour 16 Hour 17 Hour 18 Hour 17 Hour 18 Hour 19 Hour 20 Hour 20 Hour 21 Hour 22 Hour 23 Hour 24
38)	Time of termination of systemic cooling (start of rewarming)
39)	Time of core temperature ≥36.5 °C
40)	Did the patient have fever >37.7 °C during the first 72 hours (one measurement of core body temperature >37.7 °C) Yes No

	Echocardiography findings
41)	LVEF (%) at 24 hours (+/- 12 hours)
	 Normal (> 55%) Mildly reduced (45-54%) Moderately reduced (30-44%) Severely reduced (< 30%) Not performed
12)	LVEF (%) at 72 hours (+/- 12 hours)
	 Normal (> 55%) Mildly reduced (45-54%) Moderately reduced (30-44%) Severely reduced (< 30%) Not performed
	Serious adverse events within 7 days
13)	Moderate bleeding, according to the GUSTO criteria (bleeding requiring transfusion, but not resulting in haemodynamic compromise)
	○ Yes ○ No
14)	Severe bleeding according to Gusto criteria
45)	Sepsis and septic shock, according to the 3rd international consensus definitions for sepsis and septic shock?
	○ Yes ○ No
16)	Arrhythmia resulting in hemodynamic compromise?
	○ No○ Bradycardia with need for pacing○ Ventricular tachycardia○ Ventricular fibrillation
17)	Cerebrovascular lesion during ICU stay
	○ Yes ○ No
18)	New cardiac arrest after enrollment (requiring CPR/defibrillation)
19)	Circulatory complications?
	 ○ No ○ Cardiogenic shock requiring inotropes ○ Cardiogenic shock requiring mechanical support

50)	Cooling device related adverse events
	○ Yes
	○ No○ Uncertain (needs adjudication)
51)	
J1)	in res, specify
52)	Did device related or other unexpected serious adverse event occur?
	○ Yes (fill in safety CRF) ○ No
	Sedation
53)	Was the patient sedated 40 h according to protocol?
	○ Yes ○ No
54)	If sedation was terminated (including wake-ups) before 40 h from cardiac arrest, describe why
	Lab tests (During ICU stay)
55)	NSE at 24 hours (if applicable)
33)	NOL at 24 nours (ii applicable)
56)	NSE at 48 hours (if applicable)
,	
57)	NSE at 72 hours (if applicable)
	
58)	Maximum level of Troponin T within 24 hours (if used by center)
59)	Maximum level of Troponin I within 24 hours (if used by center)



	Angiography/Revascularization
60)	Angiography performed
	○ Not performed○ Acute within 24h after admission○ During ICU/hospital stay
61)	PCI_performed
	○ Yes ○ No
	Delirium
62)	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).
	YesNoMissingNot applicable
63)	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).
	YesNoMissingNot applicable
	Organ support during ICU stay
64)	Was the patient supported by an intra-aortic ballon pump (IABP)
	○ Yes ○ No
65)	Was the patient supported by ECMO?
	○ Yes ○ No
66)	If yes, was the patient put on ECMO during CPR (ECPR)?
	○ Yes ○ No
67)	If supported with ECPR, when was ECMO started?
68)	Was the patient supported by an Impella?
	○ Yes ○ No

69)	Was the patient treated with continous renal replacement therapy?
	○ Yes ○ No
70)	Deviation from protocol
	○ Yes ○ No
71)	If protocol deviation = Yes, describe
	Prognostication at 72 hours - see manual for Neurologic prognostication princess2.org/manuals
72)	Time for prognostication
73)	Does the patient fulfill the study criteria for a likely poor neurological outcome?
	○ Yes ○ No
74)	What prognostic methods beyond clinical neurological assessment were used for prognostication? (tick all that apply)
	□ NSE □ SSEP □ EEG □ MR/CT brain scan
	Withdrawal of life sustaining therapies / ICU care discontinued
75)	When was intensive care terminated?
	
76)	What prognostic methods beyond clinical neurological assessment were used in the event that intensive care was discontinued? (tick all that apply)
	☐ NSE ☐ SSEP ☐ EEG ☐ MR/CT brain scan
77)	If intensive care was discontiued before 72 hours from randomization, describe why?

	Discharge
78)	Did patient die during hospital stay?
	Yes (fill in below)No
79)	If yes, where did the patient die
	○ ICU ○ Hospital ward
80)	Cause of death
	○ Cerebral○ Cardiac○ Infection○ Multi-organ failure○ Other
81)	Date and time of discharge
82)	mRS at hospital discharge - see follow up manual for more information of mRS princess2.org/manuals
	 0 - No neurological symptoms. 1 - No significant neurological symptoms. 2 - Slight disability. 3 - Moderate disability. 4 - Moderate severe disability. 5 - Severe disability.
83)	Patient discharged to
	○ Home○ Rehabilitation○ Other

