

Inhospital CRF

Emergency department

Date of birth

Hospital

☐ Södersjukhuset ☐ KS Solna ☐ Medizinische Universität Wien ☐ Medizinischen Universität Graz
☐ Universitätsklinikum Freiburg: Uniklinikum ☐ Universitätsmedizin Halle ☐ Asklepios Südpfalzlinik
Kandel ☐ Hospital Universitario La Paz ☐ Hospital Clinico San Carlos ☐ Univerzitetni Klinični Ljubljana
☐ Univerzitetni Klinični Maribor ☐ Ospedale Policlinico di Milano ☐ Erasme Brussels ☐ St. Elisabeth
Brussels ☐ CHU St. Pierre Brussels ☐ Krankenhaus der Barmherzigen Brüder, Trier ☐ Martha-Maria
Hospital, Halle ☐ St Elizabeth Hospital, Halle ☐ LKH Graz ☐ Other

Time of hospital arrival

ROSC sustained until hospital arrival?

(ROSC sustained until arrival at the hospital and care has been transferred to medical staff at the receiving hospital.)

☐ Yes ☐ No

Admitted alive?

(Admitted with ROSC or ROC (return of circulation supported by extracorporeal CPR))

☐ Yes ☐ No

Patient declared dead at emergency department

☐ Yes ☐ No

ECPR (extracorporeal CPR) performed?

☐ Yes ☐ No

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)

Systolic blood pressure (mmHg)

Diastolic blood pressure (mmHg)

Mean arterial pressure (MAP) (mmHg)

Spontaneous breathing

☐ Yes ☐ No

Glasgow Coma Scale (GCS)

☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15

Pupillary response

- ☐ Present bilaterally
☐ Absent bilaterally
☐ Absent unilaterally
☐ Not assessed

Tympanic temperature (°C)

Time of first registered tympanic temperature

Core temperature (°C) (first registered)

Time of first registered core temperature

Core temperature location

- ☐ Rectal
☐ Bladder
☐ Esophageal
☐ Blood

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 available after ROSC

pH

Conversion of mmHg to kPa
mmHg value * 0.133322

pO2 (kPa)

pCO2 (kPa)

Base excess (mmol/L)

Lactate (mmol/L)

O2-saturation (%)

Hb (g/L)

B-glucose (mmol/L)

ICU arrival

Time of ICU arrival

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 ($\times 10^9/L$) _____
Cardiovascular function (check one) _____

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

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 than 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 Ill — Approaching the end of life. This category applies to people with a life expectancy <6 months, who are not otherwise evidently frail.	

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 than 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 Ill - Approaching the end of life.
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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

Temperature variables

Cooling method

- ☐ Intravenous system
 - ☐ Surface system
-

Time of initiation of systemic cooling

Was trans-nasal cooling interrupted prior to systemic cooling?

- ☐ Yes
 - ☐ No
-

If trans-nasal cooling was interrupted, please specify reason

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 _____	
20 _____	
40 _____	
60 _____	
80 (1 h, 20 min) _____	
100 (1 h, 40 min) _____	
120 (2 h) _____	
140 (2 h, 20 min) _____	
160 (2 h, 40 min) _____	
180 (3 h) _____	

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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) _____

Time of core temperature $\leq 34^{\circ}\text{C}$

Time of Core temperature $\leq 33^{\circ}\text{C}$

Register core temperature every hour during 40 hours (start registration at ICU admission [hour 0])

Core temperature
Hour 0 (admission) _____
Hour 1 _____
Hour 2 _____
Hour 3 _____
Hour 4 _____
Hour 5 _____
Hour 6 _____
Hour 7 _____
Hour 8 _____
Hour 9 _____
Hour 10 _____
Hour 11 _____
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Hour 32 _____
Hour 33 _____
Hour 34 _____
Hour 35 _____
Hour 36 _____
Hour 37 _____
Hour 38 _____
Hour 39 _____
Hour 40 _____

Time of termination of systemic cooling (start of rewarming)

Time of core temperature ≥ 36.5 °C

Did the patient have any fever during the first 72 hours
(one measurement of core body temperature >37.7 °C)

☐ Yes ☐ No

Fever control hour 0-40

Fever (>37.7 °C) during hour 0-40 requiring fever control with medical device (e.g. surface or intravascular cooling)

☐ Yes ☐ No

Fever control hour 41-72

Fever (>37.7 °C) during hour 41-72 requiring fever control with medical device (e.g. surface or intravascular cooling)

☐ Yes ☐ No

Echocardiography findings

LVEF (%) at 24 hours (+/- 12 hours)

- ☐ Normal ($> 55\%$)
☐ Mildly reduced (45-54%)
☐ Moderately reduced (30-44%)
☐ Severely reduced ($< 30\%$)
☐ Not performed

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

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

☐ Yes ☐ No

Severe bleeding according to Gusto criteria
(intracranial hemorrhage or bleeding resulting in
haemodynamic compromise necessitating intervention)

☐ Yes
☐ No

Sepsis and septic shock, according to the 3rd international consensus definitions for sepsis and septic shock?

☐ Yes ☐ No

Arrhythmia resulting in hemodynamic compromise?

- ☐ No
☐ Bradycardia with need for pacing
☐ Ventricular tachycardia
☐ Ventricular fibrillation
-

Cerebrovascular lesion during ICU stay

☐ Yes ☐ No

New cardiac arrest after enrollment (requiring CPR/defibrillation)

- ☐ Yes
☐ No
-

Circulatory complications?

(If the patient was treated with both inotropes and mechanical support, choose mechanical support)

- ☐ No
☐ Cardiogenic shock requiring inotropes
☐ Cardiogenic shock requiring mechanical support
-

Cooling device related adverse events

- ☐ Yes
☐ No
☐ Uncertain (needs adjudication)
-

If Yes, Specify

Did device related or other unexpected serious adverse event occur?

☐ Yes (fill in safety CRF) ☐ No

Sedation

Was the patient sedated 40 h according to protocol?

☐ Yes ☐ No

If sedation was terminated (including wake-ups) before 40 h from cardiac arrest, describe why

Lab tests (During ICU stay)

NSE at 24 hours (if applicable)

NSE at 48 hours (if applicable)

NSE at 72 hours (if applicable)

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

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

Angiography/Revascularization

Angiography performed

- ☐ Not performed
☐ Acute within 24h after admission
☐ During ICU/hospital stay

PCI_performed

- ☐ Yes ☐ No

Delirium

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
☐ No
☐ Missing
☐ Not applicable

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
☐ No
☐ Missing
☐ Not applicable

Organ support during ICU stay

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

- ☐ Yes ☐ No

Was the patient supported by ECMO?

- ☐ Yes ☐ No

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

- ☐ Yes ☐ No

If supported with ECPR, when was ECMO started?

Was the patient supported by an Impella?

- ☐ Yes ☐ No

Was the patient treated with continuous renal replacement therapy?

- ☐ Yes ☐ No

Deviation from protocol

- ☐ Yes ☐ No

If protocol deviation = Yes, describe

Prognostication at 72 hours - see manual for Neurologic prognostication princess2.org/manuals

Time for prognostication

Does the patient fulfill the study criteria for a likely poor neurological outcome?

- ☐ Yes
☐ No

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

When was intensive care terminated?

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

If intensive care was discontinued before 72 hours from randomization, describe why?

Discharge

Did patient die during hospital stay?

- ☐ Yes (fill in below)
☐ No

If yes, where did the patient die

- ☐ ICU
☐ Hospital ward

Cause of death

- ☐ Cerebral
☐ Cardiac
☐ Infection
☐ Multi-organ failure
☐ Other

Date and time of discharge

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.
-

Patient discharged to

- ☐ Home
- ☐ Rehabilitation
- ☐ Other