Out-of-hospital circulatory arrest: factors determining the outcome Amsterdam resuscitation study (ARREST) 2 and 3
Waalewijn, R.A.

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### ARREST 2: PRE-HOSPITAL RESUSCITATION

**Central Dispatch Center: (020)- 5555150**

#### GENERAL

1. Name rescuer: 
2. File number: 

3. Date call: 

4. Location resuscitation:
   - a. Street: 
   - b. Zipcode: 
   - c. City: 

5. Dispatch number: 

6. Type call, the rescuer was activated by the dispatcher:
   - [ ] 1 = after assistance for resuscitation by first ambulance
   - [ ] 2 = death on arrival
   - [ ] 3 = VF in ambulance
   - [ ] 4 = probable arrest after call by lay people
   - [ ] 5 = none

7. Ambulance service:
   - First ambulance
   - Second ambulance

8. Did the ambulance personnel confirm pulselessness?
   - [ ] Yes, continue registration
   - [ ] No, just record questions 1 to 8 and 27 to 31

---

**Time?**

(what is the time of the dispatch center?)

---

**File number**

**Page** 1
### Patient-Related Data 1

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>9. Patient's name</td>
<td></td>
</tr>
<tr>
<td>9. Girl's name</td>
<td></td>
</tr>
<tr>
<td>10. Date of birth</td>
<td></td>
</tr>
<tr>
<td>11. Gender:</td>
<td>male</td>
</tr>
<tr>
<td>12. Race:</td>
<td>unknown</td>
</tr>
<tr>
<td>13. Body weight:</td>
<td></td>
</tr>
<tr>
<td>14. Medical History</td>
<td></td>
</tr>
<tr>
<td>15. Medication?</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>ICD</td>
<td></td>
</tr>
<tr>
<td>Onset</td>
<td></td>
</tr>
<tr>
<td>Drug code</td>
<td></td>
</tr>
<tr>
<td>Duration</td>
<td></td>
</tr>
</tbody>
</table>

**File number**: [___][___][___]

**Page**: 2
PATIENT-RELATED DATA 2
(select one of the options)

16. How was the functional health status of the victim before the collapse?
   0 □ unknown
   1 □ independent in their own home
   2 □ dependent, in sheltered environment
   3 □ dependent, in health care facility
   4 □ dependent, in nursing home

17. Which physical activity performed the victim just before the collapse?
   0 □ unknown
   1 □ sleeping
   2 □ none (not sleeping) or normal exercise
   3 □ heavy exercise

18. What was the conscious state of the victim before the collapse?
   0 □ unknown
   1 □ alert
   2 □ reduced
   3 □ coma, vegetative state

19. Had the victim one or more symptoms before the collapse?

   0 □ unknown
   1 □ none
   2 □ palpitations
   3 □ dyspnea
   4 □ chest pain
   5 □ syncope/dizziness
   6 □ fatigue
   7 □ nonspecific symptoms

20. What was the moment of onset?

   0 □ unknown
   1 □ < 1 hour before collapse
   2 □ 1-24 hours before collapse
   3 □ > 24 hours before collapse

21. When did it stop?

   0 □ unknown
   1 □ till the collapse
   2 □ < 1 hour before collapse
   3 □ 1-24 hours before collapse

22. Did the victim consulted the general practitioner concerning the symptoms? Yes, when?

   0 □ unknown
   1 □ > 24 hours
   2 □ < 24 hours
   3 □ no
23. Who was the witness of the collapse?
0  ❌ unknown
1  ✔ ambulance personnel
2  ❌ GP
3  ❌ police
4  ❌ partner/relatives
5  ✔ bystander
6  ❌ no

25. Who was the caller?
0  ❌ unknown
1  ✔ ambulance personnel
2  ❌ GP
3  ❌ police
4  ❌ partner/relatives
5  ✔ bystander
6  ❌ no

27. What was the technique of the bystander CPR?
0  ❌ unknown
1  ✔ mouth to mouth ventilation
2  ✔ only chest compressions
3  ❌ both by two rescuers
4  ✔ both by one rescuer
5  ✔ bystander CPR
6  ❌ no bystander CPR

29. Who was the bystander CPR-er?
0  ❌ unknown
1  ✔ ambulance personnel
2  ❌ GP
3  ❌ police
4  ❌ partner/relatives
5  ✔ bystander
6  ✔ no bystander CPR

31. Was the bystander CPR-er trained?
0  ❌ unknown
1  ✔ yes
2  ❌ no
3  ✔ no bystander CPR

Yes, what was the date of the last lesson:

File number
Page 4
33. Did the ambulance started CPR after they arrived at the patient’s side?
1 □ yes
2 □ no

34. What were the criteria for “not to resuscitate”?

35. Were the resuscitation efforts stopped by the ambulance?
0 □ unknown
1 □ yes, no ROSC
2 □ yes, ROSC
3 □ no

36. What were the reasons to stop the resuscitation efforts?

37. What was the first recorded heart rhythm?
0 □ unknown
1 □ VF
2 □ wide QRS complex tachycardia
3 □ narrow QRS complex tachycardia
4 □ normocardia
5 □ bradycardia
6 □ asystole

38. What was the frequency of this rhythm? [ ] [ ] /min

39. Which drug was administrated first?
0 □ unknown
1 □ adrenaline
2 □ atropine
3 □ lidocaine
4 □ NaHCO3
5 □ procaínamide
6 □ no drugs

40. What was the total dosages of all administrated drugs?

Adrenaline □□□□ [iv]mg □□□□ [iv]mg NaHCO3 □□□□ ml
Atropine □□□□ [iv]mg □□□□ [iv]mg Procainamid □□□□ ml
Lidocaine □□□□ [iv]mg □□□□ [iv]mg NaCl □□□□ ml
### AMBULANCE RELATED DATA 2

<table>
<thead>
<tr>
<th>Times in pre-hospitale phase</th>
<th>Dispatch center</th>
<th>Ambulance</th>
<th>Police</th>
<th>Reseachers</th>
<th>Registered</th>
</tr>
</thead>
<tbody>
<tr>
<td>41. Collapse</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>42. Start bystander CPR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>43. Call dispatch center</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>44. Call police</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>45. Departure ambulance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>46. Stop 1e ambulance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>48. Stop 2e ambulance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>47. Stop police</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>49. Arrival amb.-pers. at pat.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>50. First defibrillation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>51. Intubation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>52. I.V. access</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>53. First drugs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>54. Pacemaker</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>55. ROSC</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>56. Stop resuscitation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>57. Departure to ER</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>58. Arrival on ER</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

59. Outcome of the pre-hospitale resuscitation efforts by ambulance personnel?

- 0: unknown
- 1: ROSC, transport ER
- 2: continuation of CPR, transport ER
- 3: deceased and transport to the hospital
- 4: deceased and no transport

**Clock of the defibrillator**

**Comparing time reseacher**

**Time correction**

*The reseacher fills in the last column with the corrected times*
### RESUSCITATION ON EMERGENCY ROOM

CLINICAL CONDITION OF THE PATIENT

<table>
<thead>
<tr>
<th>60. Name of the hospital where patient is transported to:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>61. Heart rhythm</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 = unknown</td>
</tr>
<tr>
<td>1 = VF</td>
</tr>
<tr>
<td>2 = wide QRS complex tachycardia</td>
</tr>
<tr>
<td>3 = narrow QRS complex tachycardia</td>
</tr>
<tr>
<td>4 = normocardia</td>
</tr>
<tr>
<td>5 = bradycardia</td>
</tr>
<tr>
<td>6 = asystole</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>62. Frequency of heart rhythm</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>63. Respiration</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 = unknown</td>
</tr>
<tr>
<td>1 = spontaneous</td>
</tr>
<tr>
<td>2 = support with bag-valve mask</td>
</tr>
<tr>
<td>3 = intubation + manual ventilation</td>
</tr>
<tr>
<td>4 = intubation + mechanical ventilation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>64. Blood pressure (systolic / diastolic)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>65. Body temperature</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>66. Glasgow-coma score</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 = unknown, otherwise 3 - 16 points</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>67. Pupil reflex</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 = unknown</td>
</tr>
<tr>
<td>1 = yes</td>
</tr>
<tr>
<td>2 = no</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>68. Result resuscitation efforts on the ER</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 = unknown</td>
</tr>
<tr>
<td>1 = ROSC and admission</td>
</tr>
<tr>
<td>2 = deceased on ER</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Arrival on ER</th>
<th>Departure to ICU/CCU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time ROSC or death:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>File number</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
</tr>
</tbody>
</table>
69. Additional therapeutic procedure on ER, not performed in the pre-hospital phase:
   0 ☐ unknown
   1 ☐ peripheral IV access
   2 ☐ central IV access
   3 ☐ defibrillation
   4 ☐ pacemaker
   5 ☐ intubation
   6 ☐ surgical intervention
   7 ☐ re-warming
   8 ☐ other therapeutic measures
   9 ☐ none

   a. Chirurgical intervention: ____________________________

   b. Type of re-warming: ____________________________

   c. Other therapeutic measures: ____________________________

70. Additional drugs on ER, not administered in the pre-hospital phase:
   0 ☐ unknown
   1 ☐ adrenaline
   2 ☐ atropine
   3 ☐ lidocaine
   4 ☐ procainamide
   5 ☐ bretyllium
   6 ☐ sodium bicarbonate
   7 ☐ other drug(s)
   8 ☐ none

   a. Other drug(s): ____________________________
                   ____________________________
                   ____________________________
                   ____________________________
HOSPITAL DISCHARGE

74. Discharge destination?
0 ☑ unknown
1 ☑ home
2 ☑ rehabilitation facility
3 ☑ health care facility
4 ☑ nursing-home
5 ☑ other
6 ☑ deceased < 24 uur
7 ☑ deceased > 24 uur

75. Date of discharge or death?   d m y

76. What was the quality of life at the time of discharge, evaluated with the OPC and CPC score?

a. Overall prestatie categorie (OPC)
0 ☑ Unknown
1 ☑ Good cerebral performance. Conscious, alert, able to work and lead a normal life. May have minor psychological or neurological deficits.
2 ☑ Moderate cerebral disability. Conscious. Sufficient cerebral function for part-time work in sheltered environment or independent activities of daily life. May have hemiplegia, seizures, ataxia, dysarthria, or permanent memory or mental changes.
3 ☑ Severe cerebral disability. Conscious. Dependent on others for daily support because or impaired brain function. At least limited cognition. Includes a wide range of cerebral abnormalities from ambulatory with severe memory disturbance or dementia precluding independent existence to paralytic and able to communicate only with eyes, as in the locked-in syndrome.
4 ☑ Coma, vegetative state.
5 ☑ Certified brain dead or dead by traditional criteria.

b. Cerebrale prestatie categorie (CPC)
0 ☑ Unknown
1 ☑ Good overall performance. Healthy, alert, capable of normal life.
2 ☑ Moderate overall disability. Conscious. CPC 1 plus no or only mild functional disability from noncerebral organ system.
3 ☑ Severe overall disability. Conscious. CPC 2 alone or moderate disability from noncerebral organ system dysfunction alone or both. Performs independent activities of daily life. May be able to work part-time in sheltered environment but disabled for competitive work.
4 ☑ Coma, vegetative state.
5 ☑ Certified brain dead or dead by traditional criteria.
Brief description of the resuscitation situation

Catchwords:

Events before ambulance arrival:

Events after ambulance arrival:

Events on ER: