



PAROS

Data-related Issues

OUTLINE



1. Core Set of Data Variables (with format)
2. Data Entry Method & Report Generation
3. Data Agreement



1. Core Data Variables (with format)

- Use Utstein style to identify core elements for data collection
- **Mandatory** list of variables for all participating site to contribute

1. Core Data Variables (with format)



Section	No	Data Elements	Variable code	Variable
Mode of transport	1	Patient brought in by	1	EMS
			2	Non-EMS
	If 'Non-EMS', please specify	1	Private ambulance	
		2	Own/private transport	
		3	Public transport	
Incident Information	2	Date of incident	-	dd/mm/yyyy
	5	Age		Days/Months/Years
	6	Gender	1	Male
			2	Female
Dispatch Information (Not Applicable for Non-EMS case)	9	Time call received at dispatch center	-	hh:mm:ss
	13	Time Ambulance arrived at scene	-	hh:mm:ss
	14	Time EMS arrived at patient side	-	hh:mm:ss
	15	Time Ambulance left scene	-	hh:mm:ss
	16	Time Ambulance arrived at ED	-	hh:mm:ss

1. Core Data Variables (with format)



Section	No	Data Elements	Variable code	Variable
Prehospital Event and Resuscitation Information	18	Arrest witnessed by	1	Not witnessed
			2	EMS/Private ambulance
			3	Bystander - healthcare provider
			4	Bystander - lay person
			5	Bystander - family
	19	Bystander CPR	1	Yes
			2	No
	22	Resuscitation attempted by EMS/Private ambulance	1	Yes
			2	No

1. Core Data Variables (with format)



Section	No	Data Elements	Variable code	Variable
Prehospital Event and Resuscitation Information	23	First arrest rhythm	1	VF
			2	VT
			3	PEA
			4	Asystole
			5	unknown shockable rhythm
			6	unknown unshockable rhythm
			99	unknown
	26	Prehospital defibrillation	1	Yes
			2	No
	31	Return of spontaneous circulation at scene / en-route	1	Yes
			2	No

1. Core Data Variables (with format)



Section	No	Data Elements	Variable code	Variable
Disposition	33	Final status at scene	1	Conveyed to ED
			2	Pronounced dead at scene
	34*	Cause of arrest	1	Trauma
			2	Non-trauma
		If 'non-trauma', please specify	1	Presumed cardiac etiology
			2	Respiratory
			3	Electrocution
			4	Drowning
			50	Other
	37	Patient's status at ED arrival	1	ROSC
			2	Ongoing resuscitation
			3	Transported without resuscitation

** To be filled up when EMS pronounced patient dead at scene*

1. Core Data Variables (with format)



Section	No	Data Elements	Variable code	Variable
ED Resuscitation	38	Date of arrival at ED	-	dd/mm/yyyy
	41	Cardiac rhythm on arrival at ED	1	VF
			2	VT
			3	PEA
			4	Asystole
			5	Sinus and other perfusing rhythm
	46	Return of spontaneous circulation at ED	1	Yes
			2	No
			3	NA
	51	Cause of arrest	1	Trauma
			2	Non-trauma
		If 'non-trauma', please specify	1	Presumed cardiac etiology
			2	Respiratory
			3	Electrocution
			4	Drowning
	50	Other		
	53	Outcome of patient	1	Admitted
2			Transferred to another hospital	
3			Died in ED	
99			unknown	

1. Core Data Variables (with format)



Section	No	Data Elements	Variable code	Variable
Hospital Outcome	54	Patient status	1	Discharged alive
			2	Remains in hospital at 30th day post arrest
			3	Died in hospital
	56	Patient neurological status on discharge or at 30 th day post arrest	-	CPC (1-5)
			-	OPC (1-5)
			99	unknown



2a. Data Entry Method

(A) Direct Online Entry

Data can be entered directly into the ePAROS (<http://www.eparos.org/>) registry with a login ID by designated PAROS coordinator as long as there is internet connection.

(B) Export Field Entry

This method allows participating sites with existing database to export their data and auto-populate the ePAROS registry.

Direct online entry	Export Field Entry
Singapore	Japan
Malaysia	Korea
Thailand	Taiwan
Turkey	
Australia (NSW)	

2b. Generation of Reports



(A) Sample of Utstein Survival Report

Browser: ePAROS: Menu

ePAROS.org powered by Sansio

Home | Setup | ePAROS | Reports | Tools | Log Out

myDashboard

- Security
- Call Times
- Utstein Survival Report**
- Demographics

myDashboard Main

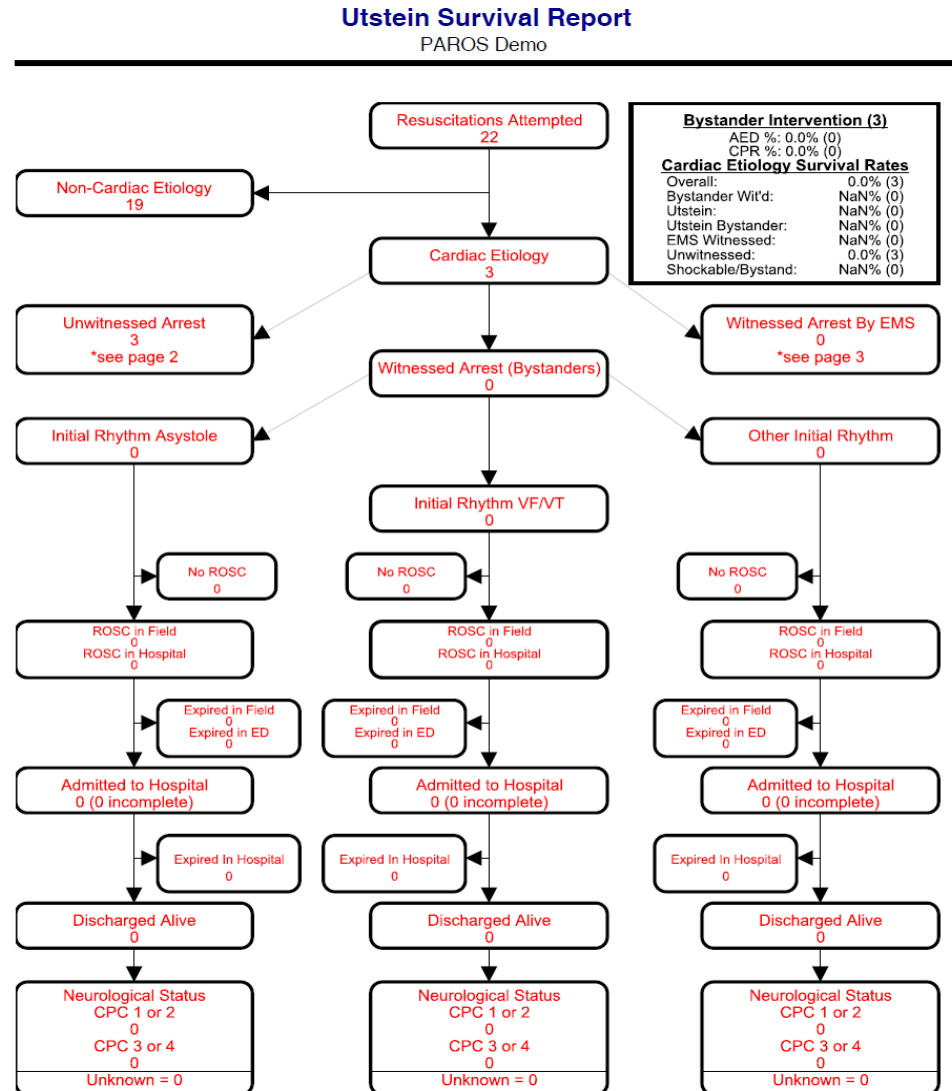
Data Collection

Incomplete Forms By Hospital

Hospital	Total Forms
0007 - SGH	1

Agency Productivity

No data found.



2b. Generation of Reports

(B) Sample of Call Times Report



File Edit View Favorites Tools Help

★ + ePAROS: Menu

ePAROS.org
powered by Sansio

Home Setup ▾ ePAROS ▾ Reports ▾ Tools ▾ Log Out

myDashboard

myDashboard Main

- Security
- Call Times**
- Utstein Survival Report
- Demographics

Agency Productivity

No data found.
No data found.

Call Times

No data found.

Call Times - EMS Times: Dispatch to Arrival

PAROS Demo

Elapsed Time	# of Runs	% of Runs	# of Runs Cumulative	% of Runs Cumulative
0 - 0.5 Minutes	1	3%	1	3%
0.5 - 1 Minutes	1	3%	2	6%
1 - 1.5 Minutes	0	0%	2	6%
1.5 - 2 Minutes	1	3%	3	10%
2 - 2.5 Minutes	0	0%	3	10%
2.5 - 3 Minutes	0	0%	3	10%
3 - 3.5 Minutes	0	0%	3	10%
3.5 - 4 Minutes	0	0%	3	10%
4 - 4.5 Minutes	0	0%	3	10%
4.5 - 5 Minutes	0	0%	3	10%
5 - 5.5 Minutes	0	0%	3	10%
5.5 - 6 Minutes	0	0%	3	10%
6 - 6.5 Minutes	2	6%	5	16%
6.5 - 7 Minutes	0	0%	5	16%
7 - 7.5 Minutes	0	0%	5	16%
7.5 - 8 Minutes	1	3%	6	19%
8 - 8.5 Minutes	1	3%	7	23%
8.5 - 9 Minutes	1	3%	8	26%
9 - 9.5 Minutes	0	0%	8	26%
9.5 - 10 Minutes	2	6%	10	32%
10 - 10.5 Minutes	0	0%	10	32%
10.5 - 11 Minutes	0	0%	10	32%
11 - 11.5 Minutes	1	3%	11	35%
11.5 - 12 Minutes	1	3%	12	39%
12 - 12.5 Minutes	0	0%	12	39%
12.5 - 13 Minutes	0	0%	12	39%
13 - 13.5 Minutes	0	0%	12	39%
13.5 - 14 Minutes	0	0%	12	39%
14 - 14.5 Minutes	0	0%	12	39%
14.5 - 15 Minutes	1	3%	13	42%
15 + Minutes	2	6%	15	48%
Unknown	16	52%	31	100%
Total			31	Avg = 9.1 min

2b. Generation of Reports



(C) Excel export of data

Data can be exported into Excel by doing an initial search

This screenshot shows the ePAROS.org web application interface. At the top, there is a navigation bar with the ePAROS.org logo and the text 'powered by Sansio'. Below this is a menu bar with options: Home, Setup, ePAROS, Reports, Tools, and Log Out. The 'ePAROS' menu item is highlighted with a red box, and a dropdown menu is visible with 'PAROS Search' and 'Add New' options. Below the menu bar is a 'myDashboard Main' section with two widgets: 'Agency Productivity' and 'Call Times', both displaying 'No data found.'

This screenshot shows the search criteria form in the ePAROS application. The form is titled 'Search' and contains several fields for filtering data. The fields are: 1 - Date of Birth (All, From, Through), 2 - Date of incident (All, From, Through), 3 - Location of incident (text input), 4 - Patient's age (in years) (dropdown), 5 - Patient's Gender (All), 6 - Race (All), 7 - Patient brought in by (EMS, OWN/PRIVATE TRANSPORT, PRIVATE AMBULANCE, PUBLIC TRANSPORT), 8 - Medical History (CANCER, DIABETES, HEART DISEASE, HIV, HYPERLIPIDEMIA, HYPERTENSION, NO, OTHER, RENAL DISEASE, RESPIRATORY DISEASE), 9 - Final status at scene (CONVEYED TO ED, PRONOUNCED DEAD AT SCENE), 10 - Cause of arrest (NON-TRAUMA, TRAUMA), 11 - Level of destination hospital (COMMUNITY, TERTIARY), 12 - Patient's status at ED arrival (ONGOING RESUSCITATION, ROSC, TRANSPORTED WITHOUT RESUSCITATION), 13 - Destination hospital (1 selected) (9000 - PAROS Demo Hospital). There is a 'Saved Filter Name:' field and a 'Save Filter' button at the bottom.



2b. Generation of Reports

(C) Excel export of data

User can choose the type of export to be generated under 'Send results to' field.

Home | Setup ▼ | ePAROS ▼ | Reports ▼ | Tools ▼ | Log Out

Search Results

[Search Again]

Records found: 29
Click column headers to sort.

Send results to:

- Printable version of the results below
- Excel export of results below
- Excel export of data

Case Number ▲	Date of Arrest	Patient	Edit Form
DMDEM0127	2010-09-02		
DMDEM0132	2010-09-20		

2b. Generation of Reports

(C) Excel export of data – Sample



	A	B	C	D	E	F	G	H	I
1									
2	Data Export								
3	PAROS Demo								
4									
5									
6	Date of Arrest	Case #	Country	City	Site #	Brought In By	Location of Incident	Location Unknown	Location Type
7	02/09/2010	DMDEM0127	DM	DEM	01	EMS		1	Home Residence
8	20/09/2010	DMDEM0132	DM	DEM	01	EMS			Home Residence
9	07/07/2010	DMDEM111	DM	DEM	11	EMS			
10	23/06/2010	DMDEM1110	DM	DEM	01	EMS	12345678		Home Residence
11	01/07/2010	DMDEM1111	DM	DEM	01	EMS		1	Home Residence
12	14/06/2010	DMDEM1113	DM	DEM	01	EMS	123456		Home Residence
13	26/05/2010	DMDEM1114	DM	DEM	01	EMS	123456		Home Residence
14	31/05/2010	DMDEM1115	DM	DEM	02	EMS	123456		Home Residence
15	24/06/2010	DMDEM1116	DM	DEM	04	EMS		1	Home Residence
16	31/05/2010	DMDEM1117	DM	DEM	06	EMS		1	Street/Highway
17	09/06/2010	DMDEM1119	DM	DEM	01	EMS			Other
18	23/06/2010	DMDEM112	DM	DEM	12	EMS	12345678		
19	09/06/2010	DMDEM1121	DM	DEM	01	EMS			Home Residence
20	09/06/2010	DMDEM1124	DM	DEM	04	EMS			Transport center



3. Data Agreement

Objective

- To provide guidelines on the use of data within PAROS

Applicability

- All PAROS members (EXCO & General)
- Default custodian of Network's database
- Third party users (enforcement through associated members)



3. Data Agreement

(A) Contributing Data

- Minimal expectation of all members – contribute a **core data set**, whether directly or indirectly

(B) De-identification & Cleaning Up of Data

- Any data extracted from PAROS CRN can only be done in the de-identified format

(C) Data Ownership

- Data contributed to PAROS CRN belongs to the Network
- Members continue to own their portion of source data and are free to use them in a way they deem appropriate as long as they are not collaborating with any other site(s) (whether PAROS or non-PAROS). Any use of data drawn from PAROS CRN beyond that contributed by one's own institution(s) would require an approval from PC Chair (or PAROS CRN Chair if PC Chair cannot resolve)
- Non-members wishing to use data extracted from PAROS CRN's database must obtain prior approval from PC Chair (or PAROS CRN Chair if PC Chair cannot resolve)



3. Data Agreement

(D) Requesting for Data

- Data drawn from PAROS CRN (partial or all) can only be used by obtaining written approval from PAROS CRN, unless the data were solely contributed from source by that user
- Use only written approval
- Any request must come in the form of a research proposal and at least one PAROS CRN member must be involved

Research proposal



Review by Publication Committee
(depending on subject nature)



Escalated to PAROS CRN EXCO

(Chairman of PAROS CRN (or designee) will make the final decision)



3. Data Agreement

(E) Using and Disclosing Data

- Data from PAROS CRN should only be used in accordance to their approved use
- Data from PAROS CRN must not be circulated freely

(F) Data Security & Rights to Audit

- Contributors, recipients and custodian of the data have a joint responsibility in ensuring the data provided to, extracted from or stored on behalf of PAROS CRN are kept secure at all times
- Where is a breach in data security, all responsible parties should undertake the responsibility to inform the Chair and take reasonable steps to limit the extent of the breach
- Chairman reserves the right to appoint a designee to conduct audits



3. Data Agreement

(G) Acknowledging PAROS CRN

- Use of any data requested from PAROS CRN must accord due acknowledgement to PAROS CRN

(F) Miscellaneous

- Upon the termination of PAROS membership, recipients of the data shall return all extracted data to the Chair (or designee) or destroy all data received from PAROS CRN. Where this is not possible, further uses and/or disclosures should be limited
- All contributed data to the Network would remain with the Network and outgoing parties cannot request for those data to be withdrawn from the Network's database
- Chairman reserves the right to guide the relevant outgoing parties to take reasonable steps to seek rectification, including termination of PAROS membership