

Data-Related Issues

OUTLINE



1. Update from Each PAROS Country

- a. Status (demo/live version, no. of cases entered)
- b. Issues Faced
- 2. Revised Data Migration Template
- 3. Status of Implementation of PAROS Study Log
- 4. IRB Register Approval Status
- 5. Updates in the ePAROS System
- 6. Data Quality Assurance Plan

1. Update from Each PAROS Country– Using ePAROS



Singapore

415 entries entered (as of 24 Jun 2011)

Thailand

Rajavithi Hospital: 2 cases entered (as of 24 Jun 2011)

Malaysia

- IRB approval status
 - Hospitals: approval notification received, pending letter
 - Universities: pending approval/letter
- 166 cases entered (as of 24 Jun 2011)
- Main issues with entering:
 - Difficulty getting hospital data from ED
 - Affects mostly cases that are conveyed to hospital

1. Update from Each PAROS Country



Using ePAROS

Australia

- Progress on ePAROS platform going live
- Status of cases entered into ePAROS
- Updates on Canberra:
 - Set-up: one ambulance service and two major receiving hospitals in Canberra
 - Next steps

Dubai

- Status of translated IRB approval letter
- 32 'live' cases and 33 'demo' cases entered (as of 29 Jun 2011)

Turkey (Izmir)

Updates

1. Update from Each PAROS Country

Using Export Data Online



Updates

- Taipei, Korea, Japan using this method
- Requires recoding
- Data recoding with Taipei is in its finishing stages
- Data migration template has been finalised



Osaka

- 4	A	В	С	D	E	F	G	н	ı		к	
			·	PAROS	-				PAN-OSAKA			
1										RECONCILED CODES		
2	Section	Number	Data Element	Code	Levels	Format	Data Element	Code	Levels	Format		
3		#1A	Patient brought in by		EMS	Integer					All cases = 1	
4 5 6 7	Mode of	T	r dicin brought in by		Non-EMS	integer					All vases - 1	
5	Transportation		If 'Non-EMS', please		Private ambulance							
6	Transportation.	#1B	specify		Own/private transport	Integer	NA NA				NA	
7				3	Public transport							
8		#2	Date of Incident	NA	ddłmmłyyyy	Date (dd/mm/yyyy)	v_15	ı	Date	Date (yyyy/mm/dd)	Change format from (уууу/mm/dd) to (dd/mm/yyyy)	
9 10 11		#3	Location of incident	NA	6-digit zip/postal code	Integer			NA		NA NA	
10		••	(optional)	999999	Unknown	integer			140		190	
11				1	Home residence		v-37	1			1= #4-1	
12	Incident			2	Healthcare facility			2		Integer	2 = #4-5	
13	Information		Location type	3	Public rcommercial building	Integer v-37		3			3 = #4-3	
13 14 15				4	Nursing home			4			4 = ??? (can be classified as either PAROS variable 3, 7 or 8)	
15		#4		5	Street/highway			5			5 = #4-9	
16				6	Industrial place			6			6 = #4- 2	
17				7	Transport center			7			7 = #4-4	
18				8	Place of recreation			8			8 = #4-3	
19				9	In EMS/provate ambulance			9			9 = #4-50	
20				50	Other							
21		#5A	Date of birth	NA	dd/mm/yyyy	Date (dd/mm/yyyy)			NA		NA	
22		#5B	Age	NA	Days Months Years	Integer	v_20	ı	Years	Integer		
23		#6	Gender	1	Male	Integer	v_19	1	Male	Integer	1= #6-1	
24		-0	Gender	2	Female	integer	V_10	2	Female	integer	2 = #6-2	
25			_	1	Chinese							
26		#7		2	Malay							
27		• •	Race (optional)	3	Indian	Integer			NA		NA	
28				4	Eurasian							
29				50	Other							



Taipei

-	A	В	С	D	E	F	G	н	1	J	K	L		
	PAROS						TAIW							
1				Tritos				IAIV	Reconciled Codes					
2	Section	Number	Data Element	Code	Levels	Format	Number	Data Element	Code	Levels	Format			
3		81A	Patient brought in by		EMS	Integer						All cases = 1		
4	Mode of	\vdash		2	Non-EMS									
5	Transportation	#1B	If 'Non-EMS', please	2	Private ambulance Own/private transport	Integer			NA			NA NA		
5		#ID	specify	3	Public transport	integer			IWA			194		
7		\vdash		,		Date		1			Data			
8		\$ 2	Date of Incident	NA	dd/mm/yyyy	(dd/mm/yyyy)		Date of incident		Date (??/??/ууууу)				
9		#3	Location of incident	NA	6-digit zip/postal code	Integer			NA			NA NA		
10			(optional)	999999	Unknown									
10 11 12 13				1	Home residence			Location type	l	Home residence		Home residence = 1		
12				2	Healthcare facility				l	Education		Education = 3		
13	Incident			3	Public /commercial building				l	Public / commercial building		Public / commercial building = 3		
14	Information			4	Nursing home				l	Nursing home		Nursing home = 4		
15		24	Location type	5	Street/highway	Integer			l	Street / highway		Street / highway = 5		
16			Location type	6	Industrial place				l	Industrial place		Industrial place = 6		
14 15 16 17				7	Transport center				l	Place of recreation		Place of recreation = 8		
18 19				8	Place of recreation				l	Other		Other = 50		
19				9	In EMS/provate ambulance	1			l		1			
20				50	Other				l					
21		#5A	Date of birth	NA	dd/mm/yyyy	Date (dd/mm/yyyy)			NA			NA NA		
					Days						Integer			
		#5B	Age	NA	Months	Integer	4 1	Age (years)	l	NA				
22					Years									
22 23		# 6	Gender	1	Male	Integer		Gender		М	Text	M = 1		
24		-0	Gender	2	Female	integer		delidel		F	Text	F=2		
24 25 26				1	Chinese									
26		#7		2	Malay									
27		٠.	Race (optional)	3	Indian	Integer			NA			NA NA		
28				4	Eurasian									
29				50	Other									
27 28 29 30		#8A		1	Yes: 'No medical history'	Integer		Medical history	l .	N		N = #8A-1		
31				2	No: 'No medical history'	eyer				Unknown		Unknown = #8B-1		
31 32 33 34		#8B		1	Yes: 'Unknown medical history'	Interne		Hart Para		Υ		Y = #8C-1		
33		#0D		2	No: 'Unknown medical history'	Integer		Heart disease		N		N = #8C-2		
34				1	Yes: Has Heart disease		1			Υ		Y = #8D-1		
		#8C		^	10 0 x P	Integer	II	Diabetes	I	<u>.</u> .				



Essential Documents

- At least 3 months of sample data (in English)
- Data taxonomy of country's variables (in English):
 - List of variables
 - Definitions of variables
 - Format, capacity and how data for each variable is collected



How to Start

- Match PAROS Data Element with own variable
- Check for missing data
- Clearly differentiate missing data from pending data
- Try to minimise empty cells
- Adherence to Data Quality Assurance plan

3. Status of Implementation of PAROS Study Log



	Α	В	С	D	Е		
	s/N	DATE OF ARRIVAL INTO ED	ΝΔΜΕ ΟΕ ΡΔΤΙΕΝΤ	IDENTIFICATION /	CASE NO.		
1	3/14	DATE OF ARRIVAL INTO ED	TANE OF TAILER	SOCIAL SECURITY NUMBER	(AS PER ePAROS)		
2							
3							
4							
5							

- To ensure traceability at each site, the link between the case number (issued by ePAROS) and the actual patient's details should be retained
- This should be maintained by each site
- For confidentiality and privacy of patients to be observed, there is no need for sharing beyond each site

Status of implementation

4. IRB Register

Approval Status from Each Participating Country



COUNTRY	STATUS				
Australia	Pending IRB approval letter				
Japan	Pending IRB waiver letter				
Korea	Pending IRB application status				
Malaysia	Pending approval letters				
Singapore	Approval letters obtained from DSRB and CIRB				
Taiwan	?				
Thailand	Approval letter obtained from Rajavithi Hospital				
Turkey	Pending approval from IRB and response from Izmir health directorate				
United Arab Emirates	Pending translated approval letter				





Ability to add races

- Different types of races can now be added in the system specified to each country by Study Data Administrator
- Automated Country, City/EMS district and Site numbers
 - Country, City/EMS district and site numbers in the Patient Enrollment Form are now automated for each user account i.e. user does not need enter the above information

PAROS website link

Link on the ePAROS home page is updated



- Purpose
 - To uphold data integrity
- Three levels of data personnel
 - (International) study level: Study Data Administrator
 - Regional or country level: Regional/Country Data Administrator
 - Site level: Site Data Administrator



(International) Study Data Administrator

(International) Study Data At	
ROLES & RESPONSIBILITIES	QUALITY CONTROL
	ACTIVITIES
a. Request for a copy of approvals and related information	a. Maintain Quality Control log for issues identified and/or
b. Issue ePAROS access to data personnel at the	,
site, regional, and country level	Personnel
c. Conduct training on the ePAROS system	b. Perform logical and consistency
d. Liaise with server provider on any systemic	
change to ePAROS	field type checks)
e. Clarify queries with other data administrators	
f. Carry out for-cause investigations	
g. Work with the Regional/Country Data	
Administrators for data recoding and migration	
(if applicable)	



by

Regional/Country Data Administrator **ROLES & RESPONSIBILITIES QUALITY CONTROL ACTIVITIES** a. Provide prompt responses (within two working weeks) to Study Data a. Maintain Quality Control log for issues Administrator upon request for information or clarification identified and/or rectified Regional/Country Data Administrator b. Clarify gueries with other data administrators (site, study) c. Maintain a copy of valid approval from the ethics review board (or b. Ensure correctly matched cases based on equivalent) for the country or region identifiers (if applicable)

- d. Report regional or country-wide accrual rate when requested by Study c. Ensure correctly translated fields in the data **Data Administrator** collection form as validated bv translation (if applicable)
- e. Report any deviation from protocol involving data entered into ePAROS f. Work with the other data administrators to resolve corrections or d. Ensure that validated data collection form is
- issues in a timely manner
- g. Be trained in using ePAROS (if applicable)
- h. Assist in the training of users using the ePAROS (if applicable)
- i. Ensure that data to be migrated is accurate, complete and correctly mapped (if applicable)
- Work with the Study Data Administrator for data recoding and migration (if applicable)

- back
- uniformly applied throughout the participating region and country
- e. Ensure that data from a region or country is accurate, complete and provided/entered in accordance to recommended timelines (see Section 4)
- f. Perform logical and consistency checks (e.g. using range and field type checks)



Site Data Administrator

ROLES & RESPONSIBILITIES

- a. Provide prompt responses (within one working week) to other data administrators upon request for information or clarification
- b. Clarify data queries with other data administrators
- c. Maintain a copy of valid approval from the ethics review board (or equivalent) for the site
- d. Report accrual rate at site when requested by Region/Country and Study Data Administrator
- e. Report any deviation from protocol involving data entered into ePAROS
- f. Work with the other data administrators to resolve corrections or issues in accordance to recommended timelines (see Section 4)
- g. Attend training of the ePAROS system as and when required (if applicable)
- h. Work with the Regional/Country Data Administrator for data recoding and migration (if applicable)

QUALITY CONTROL ACTIVITIES

- a. Maintain Quality Control log for issues identified and/or rectified by Site Data Administrator
- b. Ensure correctly matched cases based on identifiers (if applicable)
- c. Ensure correctly translated fields (if applicable)
- d. Ensure that data from site is accurate, complete and provided/entered in accordance to recommended timelines (see Section 4)
- e. Perform logical and consistency checks (e.g. using range and field type checks)
- f. Ensure that data transcribed from source documents to (paper) data collection form is accurate and complete (if applicable)



Data Flow and QC Checks

Direct Entry Online (ePAROS)



QC 1: Site performs QC on ePAROS data against source data

QC 2: Logic Data checks on <u>ePAROS</u> data by Regional/Country and/or Study Data

Administrator

Export Field Entry



QC ①: Logic Data checks exported data by Regional/Country and/or Study Data
Administrator



Data Checks

TYPE OF DATA CHECKS	DESCRIPTION	FREQUENCY				
Direct Entry Online		4. IRB Register - Approval Stat				
Computer checks in ePARQS	Entered data will be subjected to systemic validation rules	When entering data into ePAROS				
Logic data checks	Checks will be on all data fields entered for a particular case (see Annex B)	Logic data checks performed at the site or region level should be done within 2 calendar months from incident date of case. On the study level, a frequency table will be worked out with the Study Data Administrator				
Export Field Entry						
Logic data checks	Checks will be on all data fields migrated onto the data migration template (jointly worked out with the Study Data Administrator). Reference can be taken from the logic data checks using the Direct Entry Online method (see Annex B)	Frequency of check by Study Data Administrator on the fields selected for checking depends on the frequency of batch transfer worked out with the individual country or region				

Where necessary, the Study Data Administrator can conduct audit checks on the site/region.



Responsibilities of Site Pl

- Ensures data completeness and accuracy from site
- Be apprised of the data-related issues raised by working with other data personnel





Recommended Timelines

TYPE OF DATA ENTRY	RECOMMENDED TIMELINES							
Direct Entry Online (ePAROS)	Data entry: Case should be entered into ePAROS 2 calendar							
	months from the incident date of case							
	Data checks: Checks should be performed no more than 2							
	calendar weeks from the completion							
	Resolution of data query to site: 3 work-weeks from time the							
	query was raised							
	Resolution of data query to region/country: 1 calendar month							
	from time the query was raised							
Export Field Entry	A frequency timeline for data migration will be worked out jointly							
	with the Study Data Administrator							





Access to Data

- Privacy of subjects must be maintained
- Sharing of ePAROS usernames and passwords is not allowed

TYPE OF DATA ADMINISTRATOR	ACCESS RIGHTS	SYSTEMIC RIGHTS
Study Data Administrator	Access to every case entered into ePAROS study-wide	View and amend all sections
Region/Country Data Administrator	Access to every case entered into ePAROS for the said region or country	View all sections
Site Data Administrator	Access to every case entered into ePAROS for the said site	 Administrators entering EMS and Hospital data: view and amend all sections Administrators entering EMS data only: view and amend EMS data only Administrators entering Hospital data only: view all sections, but amend hospital data only



Quality Control Log

			-							
4	A	B C D E F	G	Н		J	K	L	M	N
ı	PAR@S Impr	roving Outcomes from Pre-hospital and Emergency Co	are (across the Asia-Pacific						
2				EMS & HOSPITAL DA	TA QUERIES	6				
}	F	PAROS QUERY / COMMENTS			REGION / S	SITE REP	LY			REMARKS
ŀ	Case number			Case number						
5	Section			Section						
)	Variable			Variable						
7	Query/Comments			Reply to query / comments						
}										
)										
0										
1										
2										
4										
5	Case number			Case number						
6	Section			Section						
7	Variable			Variable						
8	Query/Comments			Reply to query / comments						
9										
0										
1										
2										
2 3 4										
4										

All Quality Control logs should be maintained at each site, region and country. The Study Data Administrator can request for a copy of the Quality Control logs from sites or regions/countries on an ad-hoc or regular basis

