

# Facilitating harms data capture by non-clinicians utilizing a novel data collection tool



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# Background



#### Limited evidence on the safety of ACTs in real life settings

- Repeated use
- Vulnerable populations

#### Post-marketing surveillance

- Detect rare, possibly serious events that may be associated with a drug
- Inform on potential risk factors

#### Issues

- Weak system
- Aimed at conventional healthcare system



# Designing Adverse Event Forms for Real-World Reporting



#### Aim

To develop user-friendly AE reporting forms to capture information on events

associated with ACTs

#### Development

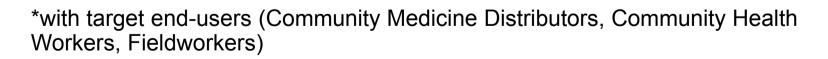
Review of existing forms

 $\downarrow$ 

Form development workshops\*

 $\downarrow$ 

Pretesting\*



#### For use by data collectors with limited knowledge of adverse events

Dose (e.g. 2 tabs, 1 cap, 1g,

500mg, 5ml, 1 tsp)

5.1 5.2 5.3 5.4



atient ID:	ACTIV	E ADVER	SE EVENT RI	EPORT FOR	M (PROSPI	ECTIVE) - PA	ART A (	PRE-TR	EATMENT) Version 3.0 (Ad	A C CONSORT	T	
Show the pictu	re story to the respond	ent. Use the s	tory to explain w	hy you are fillii	,		•	i	VC131011 0.0 (AC	uuri,		
		). (1)				uss with the p we are filling		orm:				
			L		- 6//	We are trying to [Study Drug]	o find out	people's e	experiences with	using		
	The state of the s					l would like you you took [Study		e what hap	ppened before ar	nd after	Y	/
1	*,		1	B CO		l would like us t	to fill this f	form in tog	gether			
The man takes mala		an is being sick. y not be due to		The reporter fill with the								
1. 1 Reporter ID	1.2 Rep	orter Contact		1.3 Reporter Job Title		1.4 Report Number	/A	1.5 Date Pa (DD/MM/)	art A Completed: YYYY)	Picto	rial desig	gn
2.1 Patient ID	2.2 Age(yrs)		2.3 Weight (kg) If known	2.4 He (cm) <i>lf</i>	ight known	2.5 Sex M/F		2.6 Pre	egnant? Y/N	1	to aid	
3. Presenting pro			'							comn	nunicati	on
3.1 Symptoms be	fore being prescribed (Stu	idy Drug]:								COIIII	iuiiicati	UII
3.2 Diagnosis				3.3 Conf	irmed by: Rapid I	Diagnostic Test? Ye	es 🗆 No 🗆	3.4 Mala	ria Blood Slide	in	lower-	
4. Medication Hi	story					- T				1:40.		
1	4.1 Did the patient try any treatment for these symptoms before attending the health facility? Yes \( \subseteq No \( \supseter \);  4.2 Did the patient use any trace the patient take?					liter	acy leve	<b>:</b>   \				
4.1.1 If yes, what	did the patient take?						I .	-	rtails if known	S	ettings	
4.3.1 If yes, what	ent take any medicines re does the patient take (na	mes of drugs a			medicine, epilep	sy, etc) Yes 🗆 No	re gi	-	patient use any t ularly? Yes  \B\			
	scribed at this Visit (from		1 4 4		1 .1		/DD /s == =	hanna	a			
Drug na	me   [	Jose (e.g. 2 t	abs, 1 cap, 1g,	Frequency (	e.g. once daily	, Start Date	(DD/MM	/YYYY)	Number of da	ays		

twice daily)

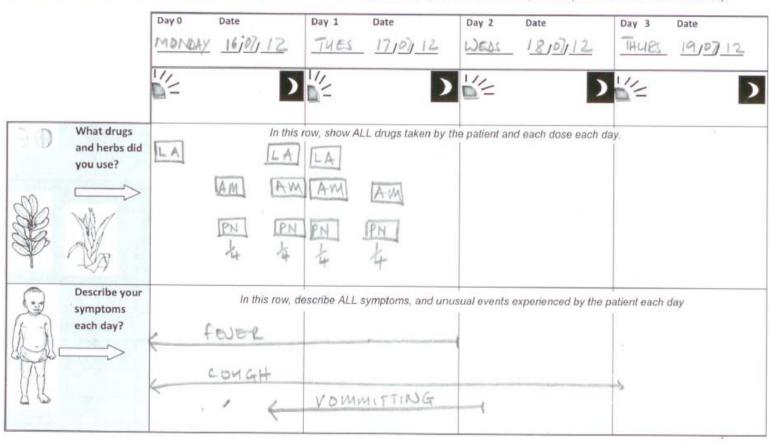
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prescribed

# Diary format to record drug administration and event details in chronological relation to each other



to the hospital can you tell me the drugs and herbs your child took each day, and any symptoms old or new, each day. I will record these in this diary:





### **Evaluation**

# Do these forms enable non-clinicians to collect safety data which can inform on potential harms related to ACTs?

	Malawi	Uganda		
Study	ACTia – Safety of repeated drug use in children	i: Use of RDTs to improve malaria treatment in the community in Uganda ii: Introducing RDTs in drug shops to improve the targeting of malaria treatment		
ACT(s)	AL & DHA-PQ	AL		
Participant age group	Children	Adults & children		
Intervention	AL vs DHA-PQ	RDT vs presumptive treatment		
Data collectors	Experienced fieldworkers	Experienced fieldworkers		
Additional details	Safety data collected alongside adherence data on day 3 or 4	Safety data collected alongside economic, adherence and outcome data on day 4		



# Results

### Dihydroartemisinin-Piperaquine (Children)

Event as reported	Preferred Term (MedDRA)	No. of patients (n=115)
Mouth sores	Stomatitis	3
Diarrhoea	Diarrhoea	2
Vomiting	Vomiting	2
Cough	Cough	2
Convulsion	Convulsion	2
Head sores/sores on neck	Skin ulcer	2
Yellowish eyes	?Jaundice	1
Swollen face	Swelling face	1
Weakness	Asthenia	1



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Event as reported – Artemether/lumefantrine	Preferred Term (MedDRA)	No. of children (n=576)	No. of adults (n=83)
Cough	Cough	11	0
(General body) weakness/Weak/Unable to stand	Asthenia	8	2
Vomiting	Vomiting	7	1
(High) fever/(Very) high temperature	Pyrexia	5	2
Flu	Influenza	4	0
Diarrhoea	Diarrhoea	3	0
Mouth sores	Stomatitis	3	0
Dizziness	Dizziness	2	5
Sweating	Hyperhidrosis	2	0
Swollen face	Swelling face	2	0
Skin rash	Rash	1	0
Abdominal pain	Abdominal pain	1	1
Joint pains	Arthralgia	1	0
Swelling of the lips	Lip swelling	1	0
Strong headache	Headache	1	2
Tired	Fatigue	1	0
Convulsions	Convulsions	2	0
Loss of appetite	Decreased appetite	1	0
Confused/Lost sense of understanding	Confusional state	1	1
Jumpy	Nervousness	1	0
Restlessness	Restlessness	1	0
Pain	Pain	1	0
Nausea	Nausea	0	1
Body itching	Pruritus	0	1

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Vomiting	Vomiting	7	1
(High) fever/(Very) high temperature	Pyrexia	5	2
Flu	Influenza	4	0
Diarrhoea	Diarrhoea	3	0
Mouth sores	Stomatitis	3	0
Dizziness	Dizziness	2	5
Sweating	Hyperhidrosis	2	0
Swollen face	Swelling face*	2	0
Skin rash	Rash	1	0
Abdominal pain	Abdominal pain	1	1
Joint pains	Arthralgia	1	0
Swelling of the lips	Lip swelling*	1	0
Strong headache	Headache	1	2
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Nausea	Nausea	0	1
Body itching	Pruritus	0	1



# Interesting findings

- Different AE detection rates between fieldworkers
- Differences between AEs detected by fieldworkers and AEs
  - detected on review
- Intensity of training





#### Conclusions

- Non-clinicians are capable of capturing a patient's experience following a malaria episode which can be used to detect adverse events
- Contribution of data to a centralized safety database
- Training and continuous feedback are paramount
- Not malaria-specific







#### Learn more about our resources

www.actconsortium.org/safetydatacollectiontools

www.actconsortium.org/drugsafetydatabase

Or contact Cheryl.Pace@LSTMed.ac.uk



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www.actconsortium.org/newsletter

For any questions or comments, contact debora.miranda@lshtm.ac.uk

