

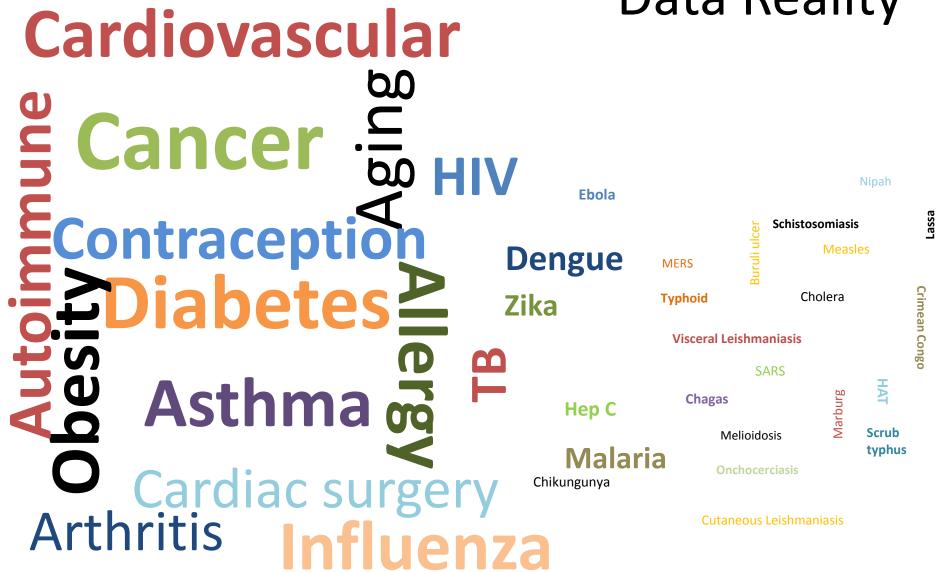
Raising the Standard for Global Collaboration in Infectious Disease

Laura Merson





Data Reality





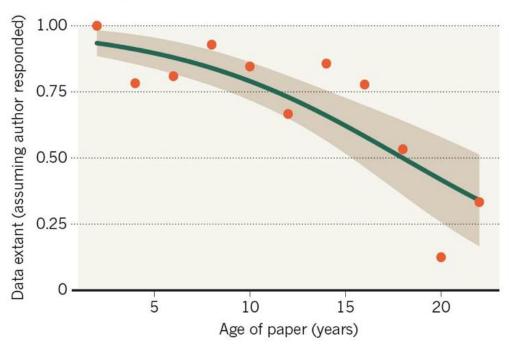


Guarding the Value of Data

Providing an insurance policy for research investment and outputs

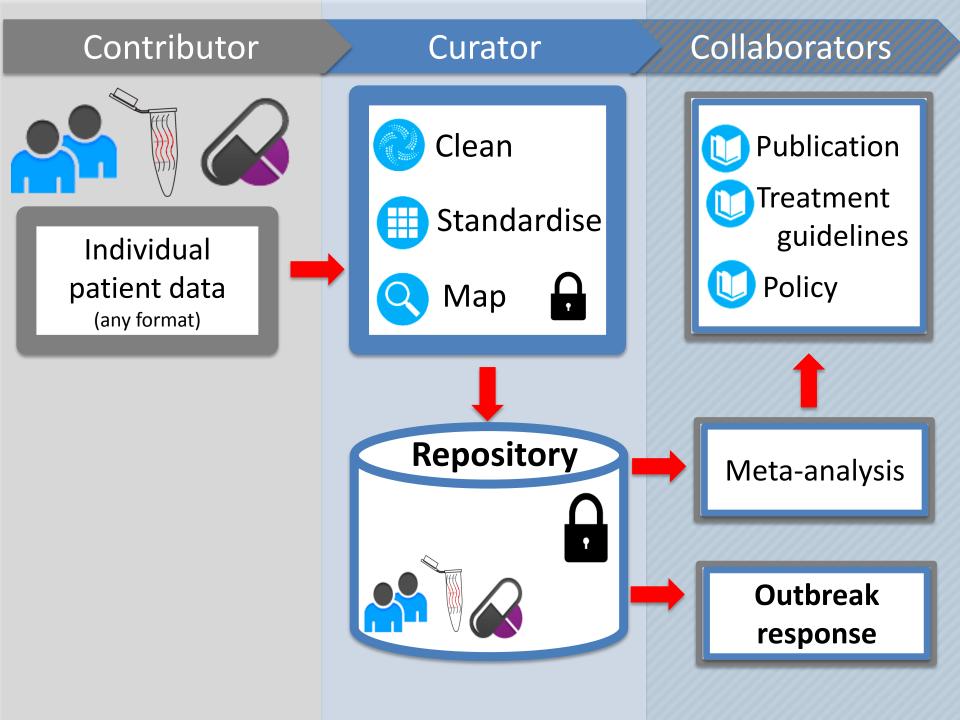
MISSING DATA

As research articles age, the odds of their raw data being extant drop dramatically.



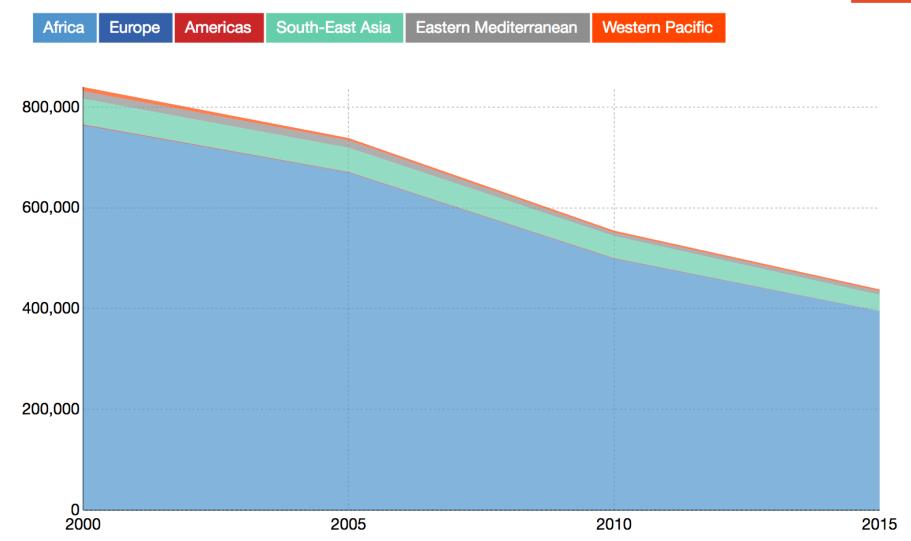
Upholding the ethical imperative to protect against loss of invaluable human health data held in traditional resources around the world





Global malaria deaths by world region

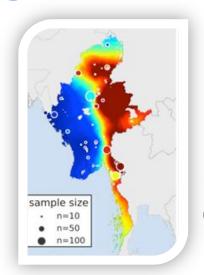




Understanding factors driving resistance



Young children and pregnant women



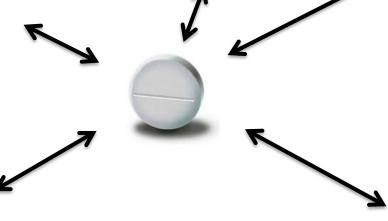
Regional diversity



Poor quality medicines

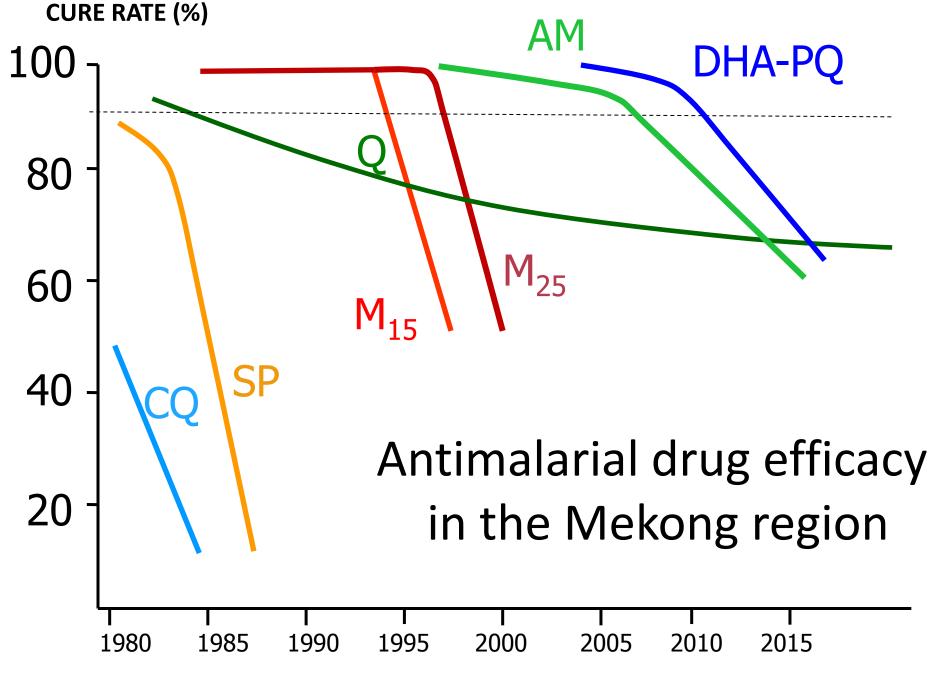


Comorbidities: e.g. malnutrition, HIV

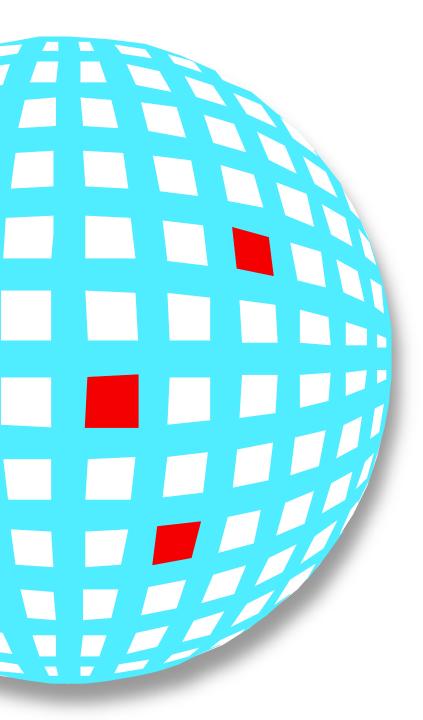


Drug interactions e.g. ARV





Acknowledgement: N.J. White (adapted)



WorldWide Antimalarial Resistance Network

WWARN



Responding to key public health needs

Is dosing of DHA-Piperaquine in young children adequate?



Power of pooled data



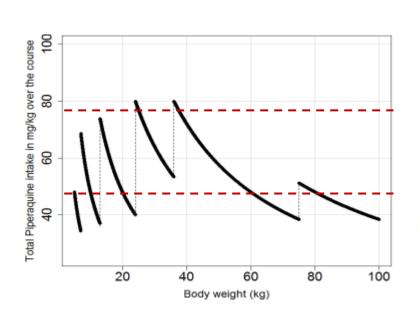
Dihydroartemisinin-Piperaquine study sites

- 26 studies
- 7,072 patients enrolled between 2002–2011

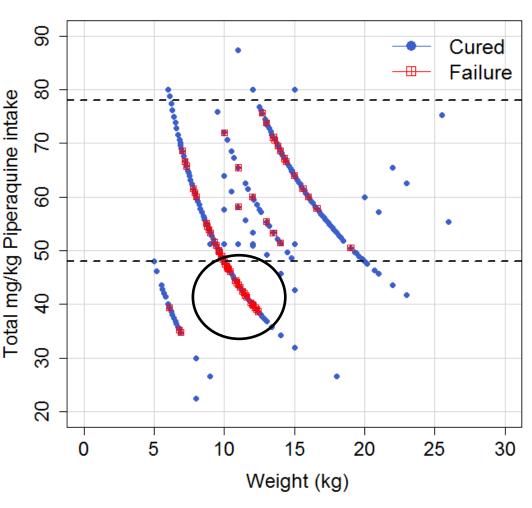




Suboptimal DHA-PQ dosing in young children



WHO recommended therapeutic range (48 -78 mg/kg) for piperaquine

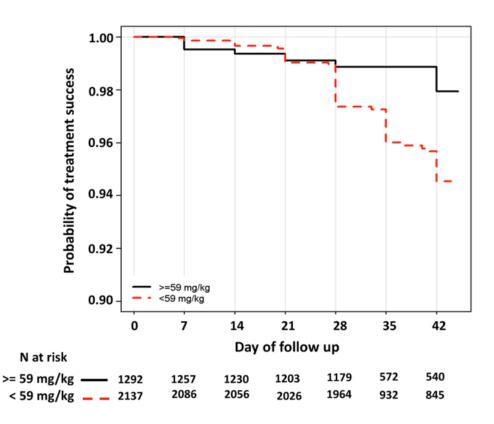


Young children administered suboptimal doses

WWARN DP Study Group. Plos Med. 2013

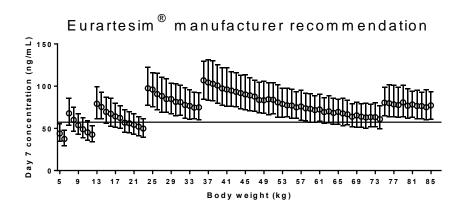


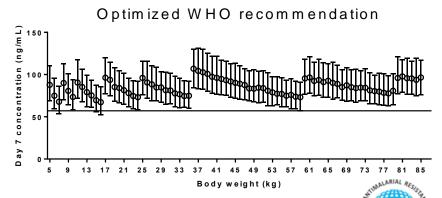
Risk of recrudescence in 1-4 year olds, by dose



Double risk of failure for patients receiving piperaquine <59mg/kg







Contributor

Individual patient data (any format)

Curator











Collaborators

Meta-analysis





Publication



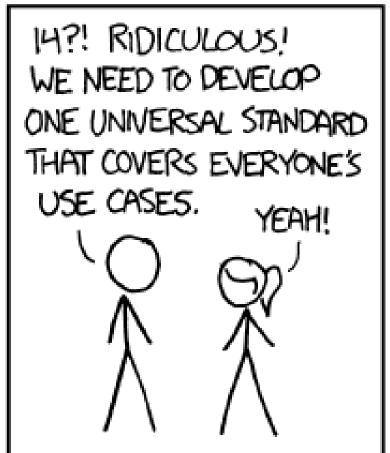
Treatment guidelines



Policy

HOW STANDARDS PROLIFERATE; (SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)

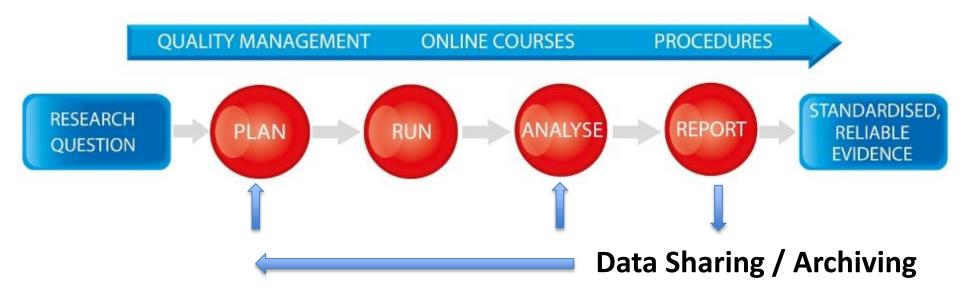
SITUATION: THERE ARE 14 COMPETING STANDARDS.



500N:

SITUATION: THERE ARE 15 COMPETING STANDARDS.

Role of WWARN



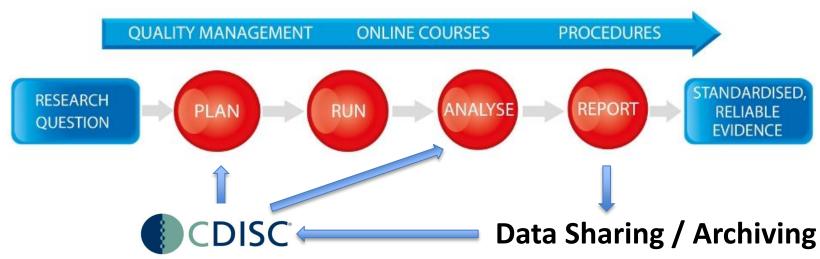


Role of WWARN

To <u>facilitate</u> the development of a CDISC data standard for malaria.

Aligns with WWARN goals to:

- Enable data sharing
- Conduct pooled data analyses to quantify effects of different standards.
- Provide the (long-term) storage infrastructure and maintaining the antimalarial data repository / archive





The role of stakeholders

Stakeholders include:

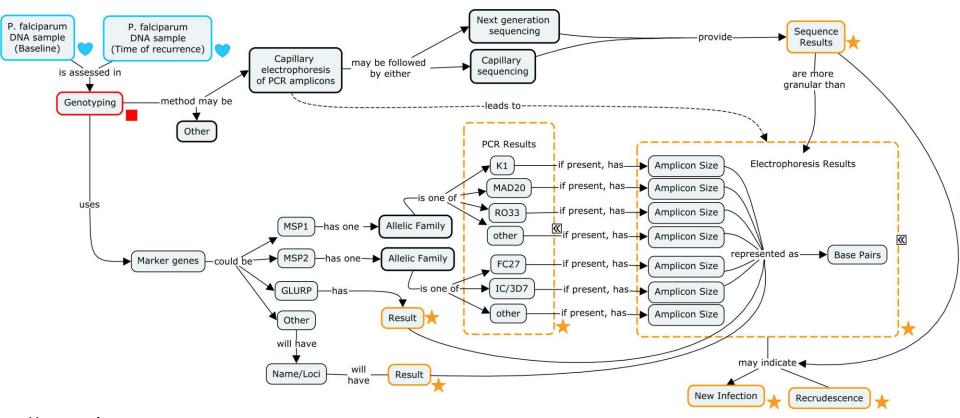
- CDISC, CPATH
- WWARN members
- WHO GMP / TDR
- BMGF
- GHT, LSTM,
- Pharma:
 - o GlaxoSmithKline
 - Medicines for Malaria Venture
 - o Merck
 - Novartis
 - o Sanofi
 - o Shin Poon
 - Sigma Tau
 - o Takeda
 - o UCB

Review draft data standards

Share relevant experience:

- Recent CRF templates / Database Structures / Statistical Analysis Plans
- Identification of critical issues in regulatory submissions.

P. falciparum recrudescence vs. reinfection



Known issues

- Reproducibility, Sensitivity, and Specificity
- In high malaria transmission intensity settings, MoI, a minor population at D0 may be the genotype that recurs.
- In the very low malaria transmission intensity settings, the lack of diversity in the
 population of parasites means that a reinfecting parasite may have a high probability of
 sharing the same genotype as the original infection.



Reviewers comments

3.2 Baseline Assessments

Evaluating malaria subjects may include the collection of medical history, as well as recording symptoms of the disease, and characteristics of the subject based on physical examination and special investigations, such as laboratory tests and electrocardiograms (ECGs). Medical history helps to confirm the diagnosis, exclude severe malaria, and identify underlying risk factors that may also be exclusion criteria (e.g., pregnancy, co-morbidities such as HIV, malnutrition MAL_244 RESOLVED MAL_205 RESOLVED). Data regarding recent antimalarial treatment, as well as any concomitant medication use (including traditional, alternative and complementary medicines) MAL_206 RESOLVED and previous medical history may be exclusion criteria and, if not, are necessary for the interpretation of possible adverse events (AEs). Physical characteristics of the subject can include age, body weight, and pregnancy status for women of child-bearing age, as well as whether or not any abnormalities were detected on physical examination and special investigations.



CDISC JIRA tickets

| 0 | MAL-296 | Routinely Collected Data - Adverse Events of Special Interest | Bess LeRoy | Colleen Ratliffe | @ | RESOLVED | Done | 22/Nov/16 | 28/Nov/16 |
|---|---------|---|-------------------|---------------------|----------|----------|-------|-----------|-----------|
| 0 | MAL-293 | Known Issue 2 | Bess LeRoy | Colleen Ratliffe | @ | RESOLVED | Done | 22/Nov/16 | 29/Nov/16 |
| 0 | MAL-291 | Routinely Collected Data - Dosing with Food | Bess LeRoy | Colleen Ratliffe | @ | RESOLVED | Done | 22/Nov/16 | 29/Nov/16 |
| 0 | MAL-288 | Routinely Collected Data - Site and Trial Level Data | Bess LeRoy | Colleen Ratliffe | @ | RESOLVED | Done | 22/Nov/16 | 24/Nov/16 |
| 0 | MAL-282 | Disease Assessment - Parasite Genotyping | Jon Neville | Colleen Ratliffe | @ | RESOLVED | Done | 22/Nov/16 | 24/Nov/16 |
| 0 | MAL-284 | Disease Assessment - Parasite Genotyping | Jon Neville | Colleen Ratliffe | @ | RESOLVED | Done | 22/Nov/16 | 24/Nov/16 |
| 0 | MAL-286 | Routinely Collected Data - Site and Trial Level Data | lesley Workman | Colleen Ratliffe | @ | RESOLVED | Fixed | 22/Nov/16 | 26/Nov/16 |
| 0 | MAL-290 | Known Issue 1 | Bess LeRoy | Colleen Ratliffe | 2 | RESOLVED | Done | 22/Nov/16 | 26/Nov/16 |



Resources - News - Education -

Enter your keywords

SEARCH

HOME / STANDARDS / THERAPEUTIC AREAS / MALARIA

Standards -

Malaria

ALL CURRENT PUBLIC **REVIEWS**

BRIDG v5.0 Public Review Comments Due by: 4 May 2017

Define VML v2 1 Dublic

ENGLISH FRANÇAIS

IMPACT

Malaria Therapeutic Area User Guide v1.0

Partnerships ▼

Release Date: 9 Jan 2017

Version 1.0 of the Malaria Therapeutic Area User Guide (TAUG-Malaria) was dev Program and the CDISC Standards Development Process. TAUG-Malaria descrik

biomedical concepts relevant to Malaria, and the necessary metadata to repres consistently with CDISC standards, such as the SDTM and CDASH.

An example CRF developed by the team can be accessed here: Malaria Case Rec

TA Standards extend the Foundational Standards to represent data that pertain within disease areas. CDISC Standards specify how to structure the data; they d should be collected or how to conduct clinical trials, assessments or endpoints

CDISC posts Public Review comments and resolutions to ensure transparency a how comments were addressed in the standard development process.

TA Specifications show how to modify TAUG examples for various versions of th



Share Data CRM Low bandwidth Register Login People Contact

ABOUT US TRACKING RESISTANCE WORKING TOGETHER **TOOLS & RESOURCES NEWS & INFORMATION**

Home > Tools & resources > Procedures > Malaria Case Record Form (CRF)

Malaria Case Record Form (CRF)

Author: WWARN

To help investigators implement the Malaria Therapeutic Area Data Standard (TAUG-malaria) developed in partnership with CDISC we are delighted to share a standardised Case Record Form (CRF) which facilitates the collection of relevant clinical data according to CDASH (Clinical Data Acquisition Standards Harmonization) standards* and will map the data to the SDTM (Study Data Tabulation Model). Our CDASH compliant CRF is intended to be used by persons involved in the planning, collection, management and analysis of antimalarial clinical trials and clinical studies to ensure compliance to regulatory requirements for submission. We also hope it will promote data interchange allowing data to be pooled and shared, and ensure that clinical malaria data is appropriately archived and available for further analysis and reporting. We will develop training materials





Form CRF

Share

9 January 2017 Malaria Case Record Form CRF v1.0

DOCX - 202.66 KB

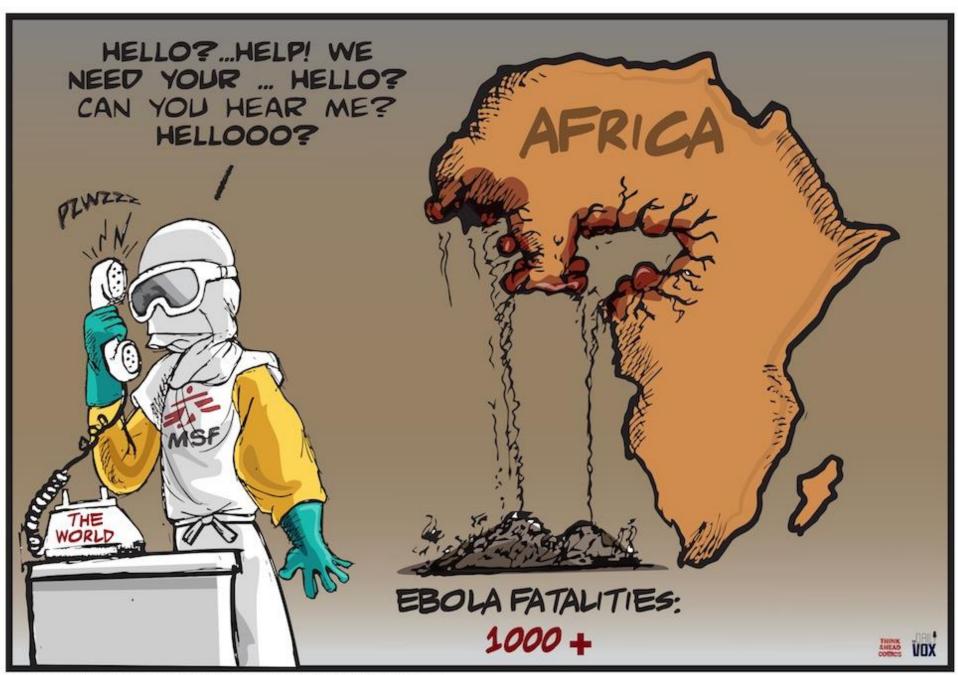
to accompany this CRF and the malaria standards in the coming months.

Devembered the medarin same versus form (CDC)





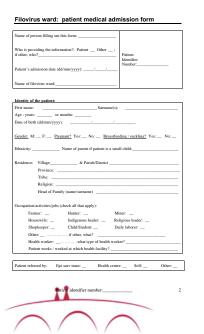




1: AMALGAMATE AVAILABLE RESOURCES

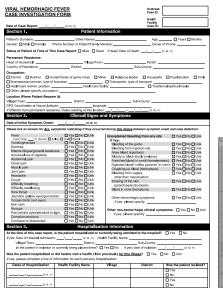
Collect existing data forms from a range of

organisations



ISARIC







| 1-5- | Case ID | | | | | | | | | | | | | | | | |
|------|------------------------------------|-----------------|---|---|---|---|---|---|----|-----------|-------|----|----|----|----|----|---------------|
| 2 | Case to | | | | | | | | Do | of sympto | was a | | | | | | |
| | | Olderof | | | | | | | | | | | | | | | $\overline{}$ |
| 4 | Sign/Symptom | admission) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 3 | Fever (vesino) | - aprillation (| _ | - | - | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | - |
| 6 | Fever (if yes, record temperature) | - | _ | - | _ | _ | _ | | _ | _ | | _ | _ | _ | _ | _ | - |
| ŀ÷. | Symptom (yea/no) | _ | _ | _ | _ | _ | | | _ | _ | | _ | _ | _ | _ | _ | - |
| 8 | Generalized Muscle Pain | _ | _ | - | - | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | - |
| 9 | Severe Headache | - | _ | - | _ | _ | _ | | _ | _ | | _ | _ | _ | _ | _ | - |
| 10 | Fatigue (authoria) | _ | _ | _ | _ | _ | | | _ | _ | | _ | _ | _ | _ | _ | _ |
| | Conjunctivitis | _ | _ | - | - | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | - |
| 12 | Sore throat Dysphagia | - | _ | - | - | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | - |
| | Loss of appetite | _ | | _ | _ | _ | | | _ | | | _ | _ | | | _ | - |
| 14 | Coughing | _ | _ | - | _ | _ | _ | | _ | _ | | _ | _ | _ | _ | _ | - |
| | Right Upper Quadrant pain | - | _ | - | - | - | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 16 | Non-bloody Diarrhoea | _ | _ | - | _ | _ | _ | | _ | _ | | _ | _ | _ | _ | _ | _ |
| | Chest Pain | _ | _ | _ | _ | _ | | | _ | _ | | _ | _ | _ | _ | _ | _ |
| 18 | Abdominal Pain | _ | _ | - | _ | _ | | _ | _ | _ | | _ | _ | _ | _ | _ | _ |
| 19 | | _ | _ | _ | _ | _ | _ | | _ | _ | | _ | _ | | _ | _ | _ |
| | Dyspase | _ | _ | _ | _ | _ | | | _ | _ | | _ | - | _ | _ | _ | _ |
| | Back Pain | - | _ | _ | _ | _ | | | _ | _ | | _ | _ | _ | _ | _ | _ |
| | Dehydration | _ | _ | _ | _ | _ | _ | | _ | _ | | _ | _ | _ | _ | _ | - |
| | Anuria | - | _ | _ | _ | _ | | | _ | _ | | _ | _ | _ | _ | _ | _ |
| 24 | Dispriorited | - | _ | - | - | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | - |
| | Hiccups | - | _ | - | _ | _ | _ | | _ | _ | | _ | _ | _ | _ | _ | _ |
| 26 | Heemorrhagic symptoms | _ | _ | _ | _ | _ | | | _ | _ | | _ | _ | _ | _ | _ | _ |
| 27 | Meiaena, bioody diarrhopa | _ | _ | - | - | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | _ |
| 28 | Haematuria | - | _ | - | _ | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | _ |
| | Epistaxis (nose bleed) | _ | _ | _ | _ | _ | | | _ | _ | | _ | _ | _ | _ | _ | _ |
| 30 | Haematemesis (vomt blood) | _ | _ | - | - | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | _ |
| | Beeding gums | - | _ | - | - | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | _ |
| 32 | Beeding at Injection site | _ | _ | _ | _ | _ | | | _ | _ | | _ | _ | _ | _ | _ | _ |
| | Haemophysis (coughing blood) | _ | _ | _ | _ | - | | | _ | _ | | _ | - | _ | _ | _ | - |
| 34 | Non-menstrual vaginal bloeding* | _ | _ | _ | _ | _ | _ | | - | | | - | - | | _ | _ | - |
| | Petechie | _ | _ | - | _ | _ | _ | | - | _ | _ | _ | _ | _ | _ | _ | - |
| 35 | Pentition | _ | _ | _ | _ | | _ | | _ | _ | | _ | _ | _ | _ | _ | - |
| 37 | Daily observations/Treatments | | | | | | | | | | | | | | | | |
| 38 | Daily Guerrations Treasmonts | | | | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | | | | |



1: AMALGAMATE AVAILABLE RESOURCES

- Collect existing data forms from a range of organisations
- Literature search to identify additional variables

Viruses 2014. 6, 927-937; doi:10.3390/v6020927



Clinical Documentation and Data Transfer from Ebola and Marburg Virus Disease Wards in Outboeak Settings: Health Care Wrkers' Reriences and Pufrences

Silja Bühler 1,2,4, Paul Roddy 3, Ellen Nolte 1,4 and Matthias Borchert 1,5

- London School of Hygiene and Tropical Medicine, Keppel Street, London WC1E 7HT, UK; E-Mails: enolte@rand.org (E.N.); Matthias.Borchert@charite.de (M.B.)
 Institute of Social and Preventive Medicine, University of Zurich, Hirschengraben 84,
- Médecins Sans Frontières Spain, Nou de la Rambla, 26, Barcelona 08001, Spain
- RAND Europe, Westbrook Centre, Milton Road, Cambridge, CB4 1YG, UK Institute of Tropical Medicine and International Health, Charité – Universitätsmedizin Berlin, Spandauer Damm 130, Berlin D-14050, Germany
- Author to whom correspondence should be addressed: E-Mail: silia.buehler@ifspm.uzh.ch: Tel.: +41-44-634-4631; Fax: +41-44-634-4984.

Received: 13 December 2013; in revised form: 8 February 2014 / Accepted: 11 February 2014 / Published: 19 February 2014

and evaluating treatment strategies require the collection of clinical data in outbreak settings, where clinical documentation has been limited. Currently, no consensus among filovirus outbreak-response organisations guides best practice for clinical documentation and data transfer. Semi-structured interviews were conducted with health care workers (HCWs) involved in FHF outbreaks in sub-Saharan Africa, and with HCWs experienced in documenting and transferring data from high-risk areas (isolation wards or biosafety level detail and categorised by requirement for electricity and ranked by interviewee preference. Some methods involve removing paperwork and other objects from the filovirus disease ward without disinfection. We believe that if done properly, these methods are reasonably safe for certain settings. However, alternative methods avoiding the removal of objects, or involving the removal of paperwork or objects after non-damaging disinfection, are

Filovirus Hemorrhagic Fever Outbreak Case Management: A Review of Current and Future Treatment Options

riruses are taxonomically separated into 2 genera, approximately 2800 laboratory-confirmed, suspect, or

proved, and available filovirus treatment in humans at

al coefficia of interest none reported, coeffects: Paul Roddy, MPH, Nos de la Rentilla, 35 Sercations 85001,

Discost-Modifying Aports
The pathophysiology of FHF resembles sepsis and
septic shock, with strong inflammatory responses and
disseminated intravascular coagulation (DIC) [13]. This
similarity served as the impetus for animal model

treatment, (3) past and current challenges for outbreak case management, and (4) recommendations for im-

proved case management. This review may assist futu

Clinical Manifestations and Case Management of Ebola Haemorrhagic Fever Caused by a Newly Identified Virus Strain, Bundibugyo, Uganda, 2007-2008

Paul Roddy¹*, Natasha Howard⁴, Maria D. Van Kerkhove⁵, Julius Lutwama⁶, Joseph Wamala⁷

Funding: NDW advocededger funding from the Medical Research Council UK and the BI and Melinda Gazes Foundation. The funders had no role in study design data or legion and analysis, decision to publish, or preparation of the manuscript.

SUPPLEMENT ARTICLE

Blood Chemistry Measurements and D-Dimer Levels Associated with Fatal and Nonfatal Outcomes in Humans Infected with Sudan Ebola Virus

Pierre E. Rollin, Daniel G. Bausch, and Anthony Sanchez

Special Pathogons Branch, Division of Viral and Rickersial Diseases, National Center for Infectious Diseases, Centers for Disease Central and Prevention, Arlanta, Georgia; "Department of Topical Medicine, Tulare School of Public Health and Tropical Medicine, New Orleans, Louisiana

Blood samples from patients metted with the Valuan species of Ebola varus (EBOV), obtained during an outbreak of disease in Uganda in 2000, were tested for a pund of analyse to evaluate their clinical condition and to compare values obtained for patients with fatal and nonfatal cases and for uninfrected (hospitalized control) patients. View function test showed higher levels of aparetar aminorantserierae (AST) in blood samples from patients with fatal cases than in samples from patients with nonfatal cases, whereas almin unique fataferase holds on the control patients. View function test showed higher levels (received in a patient service of the control patients) and the control patients with fatal cases than in samples from patients with nonfatal cases, whereas administrate fatal cases that one of the control patients which the control patients are constituted to the control patients. aminotransferase levels were comparable and only slightly increased in all patients, suggesting that increased blood AST levels are due to a greater degree of injury in tissues other than the liver. Significantly higher levels blood AST levels are due to a greater degree of justy in tissues other than the lives. Significantly higher levels of amples, our an interface of superior in tissues other than the lives. Significantly higher levels of amples, our an interface of severity and carbon in the law of the l

The filoviruses, Ebola virus (EBOV) and Marburg virus, caused by Zaire EBOV (ZEBOV) and Sudan EBOV cause a severe, often fatal, hemorrhagic fever syndrome in humans [1]. Pathological studies have characterized widespread/pantropic infection, with the liver and spleen being the principal target organs and exhibiting obvious pathology [2–12]. For EBOV infections in humans, the vast majority of recognized cases have been

respectively [1]. Injury to the liver occurs as a result of demonstrated in a handful of human cases [7, 8, 13, 14] and a large number of experimentally infected mon-keys [5, 6, 15–18]. During the acute phase of filovirus disease, serum enzyme levels reflective of liver function AST levels typically higher than ALT levels.

to be a consequence of disseminated intravascular co agulation (DIC). Although infection of endothelial cells lining blood vessels does occur, experimental infection of nonhuman primates with ZEBOV showed no direct correlation between infection and damage to the endo-thelium [18]. DIC, a life-threatening coagulopathy

December 2012 | Volume 7 | Issue 12 | e52986

#2: DETERMINE WHAT IS NEEDED

 Survey experienced health care workers, public health agencies, clinical researchers to collect recommendations on important data variables.





#3: CREATE A MASTER LIST

| | | 1.1000 | | | | | | | | | | |
|--|-----|---|---|--|-----------------------------|--|--|--|--|---|-------------------------------|------------------------------|
| | Α | В | С | D | E | F | G | Н | I | J | K | L |
| | | Master Content | | Green=General Demo | Yellow=Vitals | Orange=Signs/Sympt oms | Blue=History | Purple=Diagnostic Tests | ns Given | Performed | RED=Discharg e Information | Black=Operationa Research |
| 2 | | CRITICAL: READ ME BEFORE PROCEEDING: This table is meant to serve as 'most robust' s | | | | ave sufficient intelligence to add | I variables as needed. Th | is table is in no way meant to | serve as the final list of | clinical variables collected. | | |
| 3 | # | VARIABLE LIST (ROBUST) | START POINT: 1. Baseline=first patient contact 2. First Consult=First MD patient interaction 3. Vitals=Nurse or physician basic patient assessment 4. Reneat Consult- | POINT: 1. Baseline=first patient contact 2. First Consult=First MD patient interaction 3. Vitals=Nurse or physician basic patient assessment 4. Repeat Consult: more thorough patient beautiful patient assessment throughput. | Data Collection Location | Frequency of Collection: (Total possible collection frequency) | Coding Method | Coding Schema | Mandatory Variable (not able to be manipulated on line list generator software) 1==yes 0==no | FINAL JUSTIFICATION FOR Variable BEING MANDATORY OR OPTIONAL (Write rationale here) | | |
| 1 | | | | 1 | | | | 1==Filovirus PCR | 1 | | | |
| 2 | | | | | | | | 2==Filovirus ELISA | 1 | | | |
| :3 | | Specimen Type (LABS) | | | | | | 3==Na+, K+, CI-, HCO3- | 0 | | | |
| 4 | | | | | | | | 4==Ionized Ca++ | 0 | | | |
| 25 | | | | 2.3.4.5 | | | | 5==lonized Ca++ | 0 | | | |
| 6 | | | | | | | | 6==Hemoglobin/Hematocrit | 0 | | | |
| :7 | | | | | | | | 7==WBC | 0 | | | |
| 8 | | | | | | | categorical all levels NOTE: SKIP PATTERN BUILT FOR PATIENTS THAT RECEIVED SPECIMEN DRAW ONLY (user able to select all relevant fields) | 8==Platelet | 0 | | | |
| 9 | | | | | | | | 9==Glucose | 0 | | | |
| 0 | | | 1 or 2 | | | | | 10==BUN/Creatinine | 0 | | | |
| 1 | 108 | | | | triage, consultation, | multiple (triage-discharge) | | 11==Lactate | 0 | | | |
| 11 12 13 14 15 16 17 18 19 10 11 11 11 11 11 11 11 11 11 11 11 11 | | | | 2,0,1,0 | vitals, discharge | and a second sec | | 12==Malaria RDT 13==D-dimer | 0 | Prognostic value important | | |
| 13 | | | | | | | | | | for patient management | | |
| 4 | | | | | | | | 14==APTT & PT & INR | 0 | | | |
| 5 | | | | | | | | 15==Amylase | 0 | | | |
| 6 | | | | | | | | 16==Bilirubin | 0 | | | |
| 7 | | | | | | | | 17==AST/SGOT and ALT/SGPT | 0 | Prognostic value important for patient management | | |
| 8 | | | | | | | | 18==Creatine kinase | 0 | for patient management | | |
| 9 | | | | | | | | 19==Albumin | 0 | | <u> </u> | |
| 0 | | | | | | | | 20==Urinalysis | 0 | | | |
| 1 | | | | | | | | 99==other (open for entry) | 0 | | <u> </u> | |
| 12 | 109 | Lab (specimen) Results (LABS) | 2 | 3,4,5,6 | consultation, dishcarge | multiple (triage-discharge) | NOTE: SKIP PATTERN BUILT FOR PATIENTS THAT RECEIVED SPECIMEN DRAW ONLY (user able | Categorical results populated based on lab tests drawn | 0 | | | |
| 4 | 110 | Fluid Given | 2 | 2,3,4,5 | consultation | multiple (triage-discharge) | Binary all levels | 1==yes | | | | |
| 5 | 110 | Fidia Gryen | • | and the second | Consumeron | pre (urage-uracriatge) | Sinary an levels | 0==no | - | | | |
| 7 | | | | | | | Discoult to the second | 1==ORS | 0 | | | |
| 7 | | | | | | | Binary by type of fluid given with aggregate | 2==Lactated Ringers | 0 | | | |
| | | Florid Observations) | | | | | 'Fluids Y/N at all levels | 3==D10 | 0 | | | |
| 8 | 111 | Fluid Given (Type) | 2 | 2,3,4,5 | consultation | multiple (consultation/vitals) | NOTE: SKIP PATTERN | | • | | | |
| 19 | | | | | | | ONLY PATIENTS THAT WERE GIVEN FLUIDS | 4=Others (open) | 0 | | | |

#4: DETERMINE WHAT IS NOT NEEDED TO ACHIEVE THE OBJECTIVES

 Iterative series of reviews and input from a range of experts

SEPERATELY

 Survey of experienced health care workers to select and justify what variables are needed





#5: ONGOING REVIEW & UPDATE

- Addition of variables as required by stakeholders to accommodate research, interventions and new findings
- Data dictionary development
- Dictionary standardization CDISC standards







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Ethical considerations for use of unregistered interventions for Ebola virus disease (EVD)

Summary of the panel discussion

WHO statement 12 August 2014

West Africa is experiencing the largest, most severe and most complex outbreak of Ebola virus disease in history. Ebola outbreaks can be contained using available interventions like early detection and isolation, contact tracing and monitoring, and adherence to rigorous procedures of infection control. However, a specific treatment or vaccine would be a potent asset to counter the virus.

Over the past decade, research efforts have been invested into developing drugs and vaccines for Ebola virus disease. Some of these have shown promising results in the laboratory, but they have not yet been evaluated for safety and efficacy in human beings. The large number of people affected by the 2014 west Africa outbreak, and the high case-fatality rate, have prompted calls to use investigational medical interventions to try to save the lives of patients and to curb the epidemic.

Therefore, on 11 August 2014, WHO convened a consultation to consider and assess the ethical implications for clinical decision-making of the potential use of unregistered interventions.

In the particular circumstances of this outbreak, and provided certain conditions are met, the panel reached consensus that it is ethical to offer unproven interventions with as yet unknown efficacy and adverse effects, as potential treatment or prevention.

"investigators have a moral duty to evaluate these interventions in the best possible clinical studies that can be conducted under the circumstances of the epidemic."



1. EBOLA THERAPIES AND VACCINES: WHAT'S IN THE PIPELINE?

The following table dists potential therapies and vaccines for EVD and provides an formation about how the antervention similarly work. It also summarises the area earch, which has been bond ucted, awhat is known about a fety and availability, and the feasibility of the sean der turnent bonditions. It he dist has been produced after a review of the dist and the feasibility of the sean der turnent bonditions. It he dist has been produced after a review of the distance of the feasibility of the sean der turnent bonditions. It he distance is known as the distance of the feasibility of the feasibili

1.1 Lead experimental therapies

Table1. **Dverview **Bofs* cientific **Information** bn **Botential **Bote

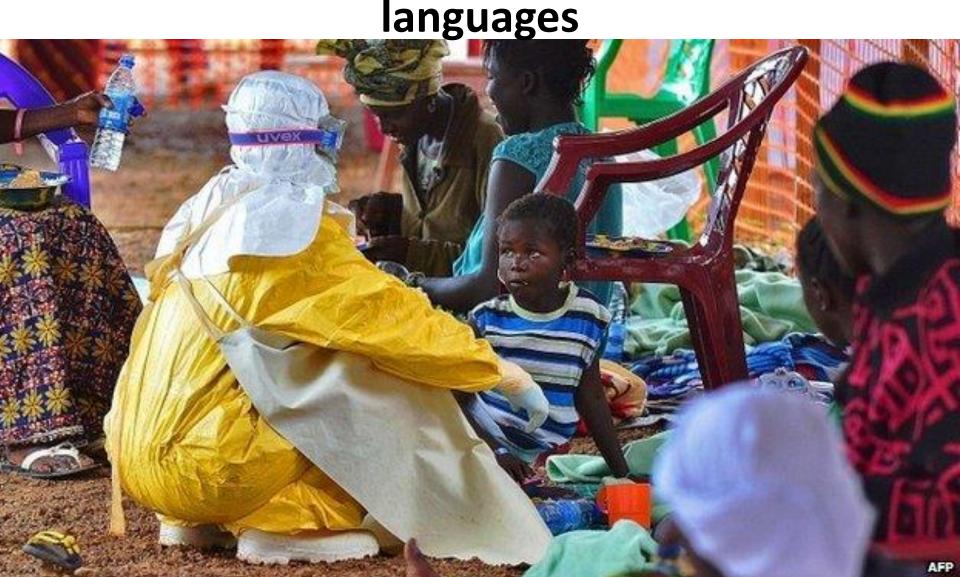
| Therapy | What it does?/ State of research | Safety | Availability/feasibility |
|----------------------------|---|--|---|
| Convalescent plasma | Studies suggest blood transfusions from EVD survivors might prevent or treat Ebola virus infection in others, but the results of the studies are still difficult to interpret. It is not known whether antibodies in the plasma of survivors are sufficient to treat or prevent the disease. More research is needed. | Safe if provided by well-managed blood banks. Risks are like those associated with the use of any blood products, such as the transmission of blood-borne pathogens that cause disease. There is a theoretical concern about antibody-dependent enhancement of EVD infection, which can increase infectivity in the cells. | Blood transfusion is culturally acceptable in West Africa. Potential donors are Ebola survivors, but the logistics of blood collection are an issue. Options to conduct studies in patients are being explored. The first batches of convalescent plasma might be available by the end of 2014. |
| ZMapp Cocktail of three | The three antibodies in this mixture block or neutralize the virus, by | There have been no formal safety studies in humans. Very small | A very limited supply (fewer than 10 treatment courses) has been |







Many patients, some very sick, some not, coming from many places speaking many









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MSF is an international. independent, medical humanitarian organisation

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First trials for Ebola treatments to start at MSF sites in December

13 November 2014

Geneva - In the absence of specific treatments for Ebola, international medical humanitarian organisation Médecins Sans Frontières (MSF) announced today that it will host clinical trials in three Ebola treatment centres in West Africa. The separate trials, which are aimed at quickly finding an effective therapy that can be used against the disease which has so far taken around 5,000 lives in the current outbreak in the region, will be led by three different research partners.

The French National Institute of Health and Medical Research (INSERM) will lead a trial using antiviral drug favipiravir in Guéckédou, Guinea; the Antwerp Institute of Tropical Medicine (ITM) will lead a trial of convalescent whole blood and plasma therapy at the Donka Ebola centre in Conakry, Guinea; and The University of Oxford will lead, on behalf of the International Severe Acute Respiratory and Emerging Infection Consortium (ISARIC), a Wellcome Trust-funded trial of the antiviral drug brincidofovir at a site yet to be determined. The World Health Organization (WHO) and health authorities of the affected countries are also taking part in this collaborative effort.



Helena gets a chance to talk to her son Moses who is an Ebola confirmed patient. A MSF health promoter supports this difficult moment for the young mother as she is too overwhelmed with what to say. The health promoter advises her to say positive things such as "I am waiting here outside for you" or "I am thinking of you non Stop"



Data Standards



Therapeutic Area Data Standards User Guide for Ebola Virus Disease

Version 1.0 (Provisional)

Developed by the **Ebola Team**

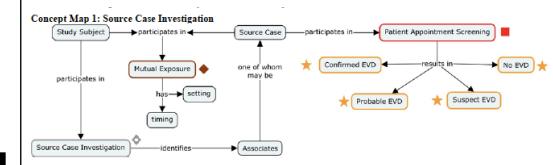
Notes to Readers

- ☐ This is version 1.0 of the Therapeutic Area Data Standards User Guide for Ebola Virus Disease.
- ☐ This document is based on CDASH v1.1 and CDASHUG v1.0, SDTM v1.4 and SDTMIG v3.2, but incorporates some modeling based on proposed changes to these foundational standards.

Revision History

| Date | Version |
|------------|-----------------|
| 2016-12-19 | 1.0 Provisional |
| 2016-09-30 | 1.0 Draft |

See Appendix E for Representations and Warranties, Limitations of Liability, and Disclaimers.

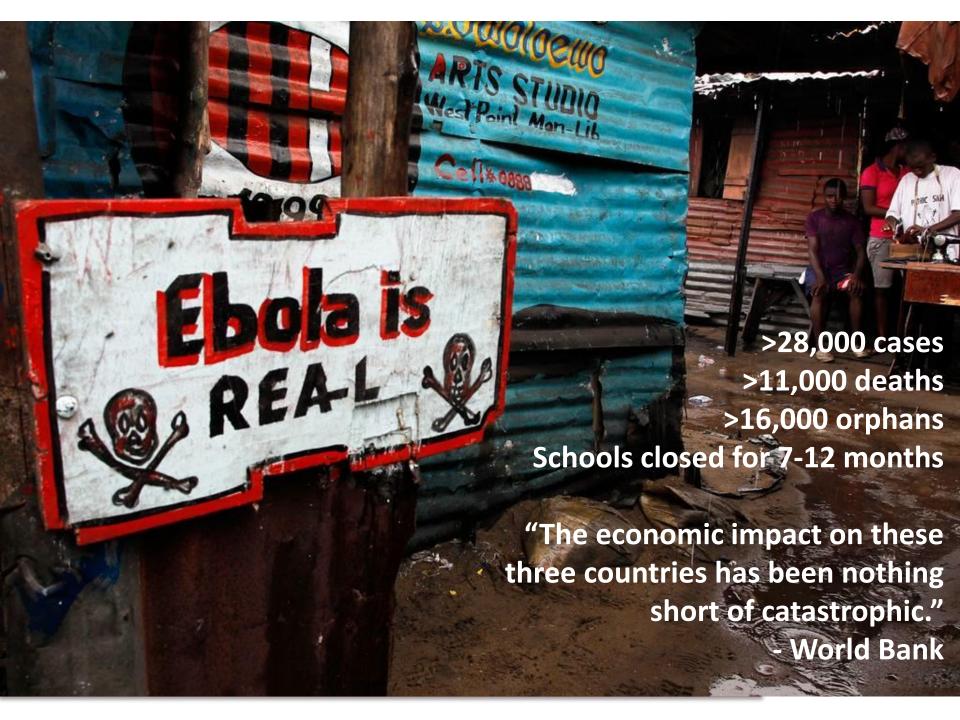


| EVD Entry Symptom and Diagnosis | Type |
|--|------------|
| Visit VISIT Pre-specified | VISIT 1 |
| Domain DOMAIN Hidden/pre-specified | MH |
| Did the subject experience fever? MHOCCUR where MHTERM = "Fever" | □ Yes □ No |
| Start Date FEVER_MHSTDAT MHSTDTC where MHTERM = "Fever" | |
| Ongoing FEVER_MHONGO MHENRTPT MHENRF | □ Yes □ No |
| End Date FEVER_MHENDDAT MHENDTC where MHTERM = "Fever" | |
| Did the subject experience vomiting? MHOCCUR where MHTERM = "Vomiting" | □ Yes |
| Start Date VOMIT_MHSTDAT MHSTDTC where MHTERM = "Vomiting" | ' |









Drivers of infectious disease outbreaks are strengthening and shifting.

