BNI, HPI, HZI, NFELTP, RKI, SAP

SORMAS-N
TASKS & LOGBOOK

INSTRUCTIONS FOR THE PILOT PHASE

BNI, HPI, HZI, NFELTP, RKI, SAP

Contents

1   Introduction

This document contains some general remarks concerning the SORMAS-N field test and the daily tasks for all SORMAS roles. Furthermore you can keep track of your work and experiences in a structured logbook every day. The booklet is concluded by a final assessment.

Purpose of the System

SORMAS-N[1] was developed for two purposes. First, to assist public health workers in *containing outbreaks of epidemic prone diseases*, where main aspects in containing the epidemic are contact tracing and outbreak management. Second, to assist in *systematically collecting routine data* on mandatory notifiable diseases as timely and exhaustive as possible.

[1] Surveillance & Outbreak Response Management System - Nigeria

Purpose of the Pilot Phase

A 6-week pilot phase will test the *usability* of SORMAS-N for those two purposes. During this phase, SORMAS-N will be tested in two Nigerian states, Oyo and Kano. In these states, smart-phones containing the SORMAS-N app will be distributed in the participating local government areas (LGAs) and the SORMAS-N desktop applications will be used at the respective state epidemiologist's offices (see Table 3, Table 4 and Table 5).
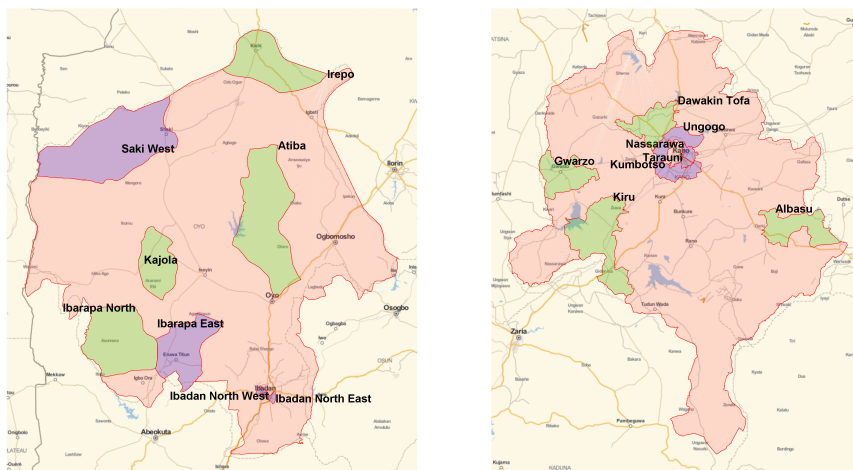
Figure 1: The selected LGAs in Oyo and Kano.

Table 1 gives an overview of the LGAs participating in the field test.

During the pilot phase, every person participating in the SORMAS-N test will be required to carry out certain tasks and enter data daily via the smart-phone or the desktop application during the days of Monday to Friday.

As SORMAS was developed for two different purposes, these are tested in 2 different ways:

1. *Exercise disease* – to see how SORMAS assists in contact tracing and management of an outbreak prone disease (e.g. Ebola), participants will be provided

LGA	State	Area Type	Population	Area
Albasu	Kano	rural	190153	398
Dawakin Tofa	Kano	rural	247875	479
Gwarzo	Kano	rural	183987	393
Kiru	Kano	rural	264781	927
Kumbotso	Kano	urban	295979	158
Nassarawa	Kano	urban	596669	34
Tarauni	Kano	urban	221367	28
Ungogo	Kano	urban	369657	204
Atiba	Oyo	rural	169702	1757
Ibadan North East	Oyo	urban	330399	18
Ibadan North West	Oyo	urban	152834	26
Ibarapa East	Oyo	urban	118226	838
Ibarapa North	Oyo	rural	101092	1218
Irepo	Oyo	rural	122553	984
Kajola	Oyo	rural	200997	609
Saki West	Oyo	urban	278002	2014

Table 1: The selected LGAs with *area type* and *population*.

with daily information on a mock-disease called exercise disease[2], blurred by cases of a clinically similar disease called other febrile disease[3], that can reliably be distinguished from exercise disease by lab diagnosis only. This data comes from a simulated scenario and all data will be generated by a computer. It will give an impression of an outbreak with cases and contact persons as realistic as possible – but names, places and stories are invented. This invented data is to be entered according to the role (see below) each participant takes on.

[2] ExD – *exercise disease*

[3] OFD – *other febrile disease*

2. *Routine data collection* – three different diseases[4] were chosen to test SORMAS' usefulness in collecting routine data: Measles, Cholera and Avian Influenza[5]. This data needs to be entered daily in SORMAS-N in addition to the paper based forms that are already in use and currently collected weekly. These are real data and depend on their appearance in the respective LGAs. They are not coming from a simulation. Therefore, every case of those 3 diseases seen in the LGAs should appear twofold: on a paper form and in SORMAS-N. The data on paper will be collected in the usual way by the DSNO.

[4] 3D – *Measles, Cholera and Avian Influenza*

[5] AI – *Avian Influenza*

For *Hospital focal persons* and *Surveillance officers* a difference to the current practice will be, that you will also be required to enter information daily even if there are no cases of measles, cholera and avian flu (daily zero-reporting).

User Roles

As demonstrated in the training, during an outbreak of an epidemic prone disease, there would be an organizational framework called *Emergency Operation Center (EOC)* to manage the different surveillance and outbreak information and activities. Within this framework, people take on different roles with different preset tasks, depending on their background. This is reflected in SORMAS. Every user of SORMAS has its unique role. All roles are briefly sketched. In the following sections your role and tasks are outlined in more detail.

A *Hospital focal person* (aka *Informant*) collects information on illness and death among patients and health care workers in a health facility and enters this information into SORMAS-N.

A *Surveillance officer* collects information on *exercise disease* and the 3 selected mandatory notifiable diseases in the community. She verifies and completes information on rumors according to her investigation. She assures daily notification of all suspected and confirmed cases of Measles, Cholera, Avian Influenza occurring in the LGA. This includes daily zero-notification of these 3 diseases, if no cases have occurred.

The *Rumor officer* triages and processes incoming rumors on *exercise disease* and forwards them to the *Surveillance supervisor*.

The *Surveillance supervisor* manages and coordinates information received from the *Rumor officer* and the *Surveillance officers*. She decides on investigating a new rumor.

A *Contact officer* is responsible for all aspects of contact tracing of contact persons. For Avian Influenza, this concerns human and animal cases. For *exercise disease* this includes daily visits of contact persons, assessing and documenting symptoms and notifying new possible cases.

The *Contact supervisor* is responsible for coordination of the contact management of *exercise disease* and Avian Influenza. She is responsible for all *Contact officers* within her state. She informs the *Case supervisor* about symptomatic contact persons and hands over suspected cases for further management, e.g. evacuation, isolation, lab confirmation, decontamination or psycho-social support.

The *Case supervisor* coordinates all activities around the case management (i.e. clinical management, isolation measures, transport, decontamination of residences or facilities, burial, psycho-social support). She immediately communicates results of laboratory investigations in case of *exercise disease* and Avian Influenza and thereby updates the status of *suspected cases* to *confirmed cases*, *probable cases*, *non-cases* or *discarded cases* resp..

Table 2 gives an overview of the distribution of the participants and their roles.

SormasRole	FacilityType	Kano	Oyo	(all)
Case supervisor	Tertiary	1	0	1
Case supervisor	NA	0	1	1
Contact officer	NA	8	8	16
Hospital focal person	Primary	28	9	37
Hospital focal person	Secondary	4	14	18
Hospital focal person	Tertiary	1	2	3
Hospital focal person	NA	0	8	8
Rumor officer	NA	1	1	2
Surveillance & Contact supervisor	NA	1	1	2
Surveillance officer	NA	8	8	16
(all)	(all)	52	52	104

Table 2: The distribution of participants according to their role, facility type and state.

Data for Exercise Disease

This booklet gives you an overview of the daily tasks on *exercise disease* for each role. In a supplementing document individual information including all injects will be given to each participant. It will contain data that should be entered by you which have been generated by the SORMAS simulation, and are invented especially for this pilot. These guided tasks will trigger further action resulting in additional data. All these *resulting data* will then be compared with the *expected data* to provide another evaluation method. On selected weekends during the pilot phase it is planed to adjust the data to the simulated story line.

Entries by the users are made from Monday to Friday only. Entries by the system will be made on weekends only.

The Logbook

This booklet contains for each day of the pilot phase a page – the log – which is left for users' comments and feedback. It is meant to document any problems or experiences that may occur. It is very important to document any difficulties or problems that occurred – this will help us to improve SORMAS.

Help!

If you feel that the SORMAS-N manual is not sufficient to answer your questions, the *SORMAS-N helpline* is available, where the following persons (see Table 3) can assist you.

Mr. Gbolagade Rasaki	0706-5523575	g.rasaki@sormas.ng
Dr. Ebiwumi Aikhionbare	038-6174455	e.aikhionbare@sormas-n.org
Mr. Adebowale Olofinmoyin	+234-801-6076028	a.olofinmoyin@sormas.net

Table 3: The SORMAS-N helpline.

List of Participants

Table 4 and Table 5 list all participants from Kano and Oyo participating in the field test.

LGA	SormasRole	Institution	Name
Albasu	Contact officer	LGA HD	Mr Nonso Fabunmi
Albasu	Hospital focal person	Albasu PHC	Mr Sesugh Ogunode
Albasu	Hospital focal person	Fanda PHC	Mr Ugoh Maduabum
Albasu	Hospital focal person	Hungu PHC	Mrs Chiburem Dabiri
Albasu	Hospital focal person	Tsangaya PHC	Mr Azi Aikhionbare
Albasu	Surveillance officer	LGA HD	Mr Adebolajo Oboli
Dawakin Tofa	Contact officer	LGA HD	Mr Nnaemeka Mbah
Dawakin Tofa	Hospital focal person	Dandalama PHC	Mr Godwin Fajinmi
Dawakin Tofa	Hospital focal person	Dawanau PHC	Mrs Mujee Bot Kan
Dawakin Tofa	Hospital focal person	Tattarawa PHC	Mrs Loutoyopnica Kanayo
Dawakin Tofa	Hospital focal person	Dawaki General hospital	Mrs Al Derafaka Aradeon
Dawakin Tofa	Surveillance officer	LGA HD	Mrs Njideka Emordi
Gwarzo	Contact officer	LGA HD	Mrs Ijeoma Ezinwa
Gwarzo	Hospital focal person	Getso MCH	Mr Yakubu Effiom
Gwarzo	Hospital focal person	Alheri Clinic	Mr Adeyemi Njoku
Gwarzo	Hospital focal person	Koya Health Post	Mr Enosaze Olowola
Gwarzo	Hospital focal person	Gwarzo General Hospital	Mr Uche Mohamed
Gwarzo	Surveillance officer	LGA HD	Mr Olaoluwa Mshelia
Kiru	Contact officer	LGA HD	Mr Akinola Ohen
Kiru	Hospital focal person	Kiru CHC	Mrs Ololade Ogunbanwo Sosan
Kiru	Hospital focal person	Yako BCH	Mrs Tamunodieprieye Emigo
Kiru	Hospital focal person	Stholic Clinic	Mr Okoro Keita
Kiru	Hospital focal person	Taimako Clinic	Mr Omolade Bird
Kiru	Surveillance officer	LGA HD	Mr Oladipo Giwa
Kumbotso	Contact officer	LGA HD	Mrs Oluwanifesimi Abayomi
Kumbotso	Hospital focal person	Chiranci PHC	Mrs Adeyinka Olowola
Kumbotso	Hospital focal person	Sheka PHC	Mr Onyinye Agwuocha
Kumbotso	Hospital focal person	Nasiha Clinic	Mr Osagie Bada
Kumbotso	Hospital focal person	Tajudden Clinic	Mr Mosaku Choji
Kumbotso	Surveillance officer	LGA HD	Mrs Olamide Popoola
Nassarawa	Contact officer	LGA HD	Mrs Stella Uzochukwu
Nassarawa	Hospital focal person	Gwagwarwa PHC	Mrs Gberbo Ikeke
Nassarawa	Hospital focal person	Ahmadiyya Hospital	Mr Chinzor Oyeledun
Nassarawa	Hospital focal person	Bamaiyi Hospital	Mrs Ciara Emedolu
Nassarawa	Hospital focal person	Sir Muhd Sunusi Hospital	Mr Oladipo Ikimi
Nassarawa	Surveillance officer	LGA HD	Mr Chidi Sherif
Tarauni	Contact officer	LGA HD	Mrs Omodolapo Atulewa
Tarauni	Hospital focal person	Ja'oji PHC	Mr Ibinabo Ararume
Tarauni	Hospital focal person	Unguwa Uku PHC	Mrs Oluwaseyanu Adadevoh
Tarauni	Hospital focal person	Almu Hospital	Mr Ogbu Iyam
Tarauni	Hospital focal person	Annoury Hospital	Mrs Isobel Henry Akarandut
Tarauni	Surveillance officer	LGA HD	Mr Osagie Effiom
Ungogo	Contact officer	LGA HD	Mrs Fanique Inoniyegha
Ungogo	Hospital focal person	Ungogo PHC	Mr Ovieoghene Kanayo
Ungogo	Hospital focal person	Rahama Clinic	Mr Affiong Nworuh
Ungogo	Hospital focal person	Unicare Hospital	Mrs Olasubomi Olomu
Ungogo	Hospital focal person	Waziri Shehu Gidado	Mrs Chiapali Iyorhe
Ungogo	Surveillance officer	LGA HD	Mr Oseremen Ojukwu
NA	Case supervisor	Yar Gaya Hospital	Mr Ighogbetine Nguirmamaramama
NA	Hospital focal person	Yar Gaya Hospital	Mr Ogadinma Kontagora
NA	Rumor officer	State HD	Mrs Tarela Idahor
NA	Surveillance & Contact supervisor	State HD	Mr Adebowale Agbebaku

Table 4: The participants of Kano.

LGA	SormasRole	Institution	Name
Atiba	Contact officer	LGA HD	Mrs Chisom Ihenacho
Atiba	Hospital focal person	Grace Hospital	Mrs Oni Ezeife
Atiba	Hospital focal person	Oroki Medical Centre	Mr Arome Ubido
Atiba	Hospital focal person	Boroboro Health centre	Mrs Chizoba Sodje
Atiba	Hospital focal person	State Hospital	Mr Adedeji Obanor
Atiba	Surveillance officer	LGA HD	Mr Ok Kefee
Ibadan North East	Contact officer	LGA HD	Mr Nonso Oguntokun
Ibadan North East	Hospital focal person	Jobi Memorial Hospital, Paadi	Mrs Ibukunoluwa Ebor
Ibadan North East	Hospital focal person	Iwo road Health Centre	Mr Akindela Maduabum
Ibadan North East	Hospital focal person	OkeAdu Health Centre	Mrs Oluremi Bali
Ibadan North East	Hospital focal person	Oluyoro Catholic Hospital	Mr Osabuhien Ofere
Ibadan North East	Surveillance officer	LGA HD	Mrs Plangnan Idahor
Ibadan North West	Contact officer	LGA HD	Mr Godwin Eguavoen
Ibadan North West	Hospital focal person	Ayeye Primary Health Centre	Mrs Onayi Nwuche
Ibadan North West	Hospital focal person	Jericho Specialist Hospital	Mrs Adaobi Chiejine
Ibadan North West	Hospital focal person	AlafiaHospital	Mr Akinola Rasaki
Ibadan North West	Hospital focal person	Unity Medical Centre	Mrs Nadoca Guda
Ibadan North West	Surveillance officer	LGA HD	Mrs Toniah Egerega
Ibarapa East	Contact officer	LGA HD	Mrs Omodolapo Uduak
Ibarapa East	Hospital focal person	Oke Imale primary health centre	Mr Kingsley Onyemachi
Ibarapa East	Hospital focal person	General Hospital, Eruwa	Mr Aryee Ezenwaka
Ibarapa East	Hospital focal person	Awojobi Clinic	Mrs Adaeze Keita
Ibarapa East	Hospital focal person	Rehoboth Hospital	Mrs Mesoma Ubah
Ibarapa East	Surveillance officer	LGA HD	Mrs Anike Ibe
Ibarapa North	Contact officer	LGA HD	Mr Ogadinma Elumelu
Ibarapa North	Hospital focal person	Akindele Clinic	Mr Ime Iyke
Ibarapa North	Hospital focal person	Victory foundation	Mr Oludare Omodiagbe
Ibarapa North	Hospital focal person	PHC Okeola	Mr Edoja Oshoala
Ibarapa North	Hospital focal person	General Hospital	Mr Olatunbosun Ekoku
Ibarapa North	Surveillance officer	LGA HD	Mr Decale Oya Decale Aminu
Irepo	Contact officer	LGA HD	Mr Madukairo Katsina
Irepo	Hospital focal person	Elkeedam Clinic	Mrs Oula Omeje
Irepo	Hospital focal person	Agede PHC	Mrs Stella Ogungbe
Irepo	Hospital focal person	Kisi General Hospital	Mr Olatunbosun Azeez
Irepo	Hospital focal person	Muslim Hospital	Mrs Adaobi Mshelia
Irepo	Surveillance officer	LGA HD	Mrs Odera Envoh
Kajola	Contact officer	LGA HD	Mr Chimere Oboh
Kajola	Hospital focal person	Baptist Medical centre Okeho	Mr Okoro Osuchukwu
Kajola	Hospital focal person	Wuraola Hospital	Mr Niamke Isa
Kajola	Hospital focal person	Ijo Primary Health Care Centre	Mr Olatunbosun Kontagora
Kajola	Hospital focal person	Okeho General Hospital	Mrs Temilore Brann
Kajola	Surveillance officer	LGA HD	Mr Clinton Iyke
Saki West	Contact officer	LGA HD	Mrs Oluwafunke Agbamuche
Saki West	Hospital focal person	Isale Taba Maternity Centre	Mr Oluwakemi Kontagora
Saki West	Hospital focal person	State Hospital	Mrs Bukola Onyearugbulem
Saki West	Hospital focal person	Baptist Medical Centre	Mrs Efuose Omoko
Saki West	Hospital focal person	Muslim Hospital	Mr Ovieoghene Yaji
Saki West	Surveillance officer	LGA HD	Mrs Omotese Ogugua
NA	Case supervisor	Isolation unit	Mrs Ololade Vanzekin
NA	Hospital focal person	IDSR UCH	Mrs Mujeedat Dabiri
NA	Rumor officer	State HD	Mrs Omodolapo Okafor
NA	Surveillance & Contact supervisor	State HD	Mr Irechukwu Akinfenwa

Table 5: The participants of Oyo.

2   Hospital Focal Person (Informant)

Tasks as Hospital Focal Person (3D)

Concerning Measles, Cholera and Avian Influenza[6]:

daily

1. Notify any case of these 3 diseases via SORMAS-N as well as via established IDSR procedures (paper) to the *Surveillance officer* of your LGA.

2. Send a daily zero-report of those 3 diseases via SORMAS-N (when applicable).

Tasks as Hospital Focal Person (ExD)

Concerning exercise disease[7]:

before 10 AM

1. You have the following information about patients or health care workers in your facility about *exercise disease*. Use them to fulfill your duty as a *Hospital focal person*.

    . . . list of possible cases (person information with symptoms)

1. Some patients have died. Please notify this via SORMAS-N.

    . . . list of persons that have died

[6] according to occurrence of real cases

[7] according to the daily information given in the tasks section of the day

3   Rumor Officer

Tasks as Rumor Officer (3D)

Concerning Measles, Cholera and Avian Influenza you have no tasks.

Tasks as Rumor Officer (ExD)

Concerning exercise disease[8]:

before 10 AM

1. Enter the following rumors.

    -   Enter rumor information.

    -   Enter place information connected to the rumor.

    -   Enter person information connected to the rumor.

    -   Enter possible cases related to the rumor. Mark them as *possible case.*

    -   Enter contact person information.

    . . . daily list of rumors

    . . . sometimes with participating persons and possibly with their symptoms

    . . . each rumor ends with a ■

2. You have received information about cases of death. Please notify them via SORMAS-N.

    . . . list of persons that have died

[8] according to the daily information given in the tasks section of the day

4   Surveillance Officer

Tasks as Surveillance Officer (3D)

Concerning Measles, Cholera and Avian Influenza[9]:

daily

1. Notify any case of those 3 diseases via SORMAS-N as well as via established IDSR procedures (paper) to your *Surveillance supervisor*. Every time there is such a case, please make a photocopy of each IDSR notification. Collect daily copies until the end of the pilot phase and hand them over together with the booklet to Dr. Olawunmi Adeoye.

2. Perform a daily zero-reporting if no cases occur.

[9] according to occurrence of real cases

Tasks as Surveillance Officer (ExD)

Concerning exercise disease[10]:

before 10 AM

1. Verify and complete information on rumors according to your investigation on site, which have resulted in the following information.

   - Complete rumor information.

   - Complete place information connected to the rumor.

   - Complete person information connected to the rumor.

   - Complete possible cases related to the rumor. Mark them as *possible case.*

   . . . daily list of rumors

   . . . sometimes with participating persons and possibly with their symptoms

   . . . each rumor ends with a ■

2. In your investigation you have identified the following new contacts (of persons which had contact to a known case). Enter them into SORMAS-N.

   . . . list of contacts (persons with case information)

after 3 PM

3. Look for new reports of *possible cases.* Complete the missing information.

   . . . list of cases (persons with symptoms)

4. Look for new reports of cases of death. Confirm the information.

   . . . list of persons that have died

[10] according to the daily information given in the tasks section of the day

5   Contact Officer

Tasks as Contact Officer (AI)

Concerning Measles and Cholera you have no tasks.

Concerning Avian Influenza[11]:

daily

1. Notify contact persons of animal and human cases of Avian Influenza including zero-notifications.

2. Visit contact persons to check and document any symptoms of Avian influenza for 17 consecutive days.

Tasks as Contact Officer (ExD)

Concerning exercise disease[12]:

between 11 AM and 2PM

1. Display the list of all your tasks.

   . . . number of task

2. You are visiting contact persons. While you do your visits, you retrieve the following information.

   - Is the person available and cooperative?

   - Enter the contact visit information.

   - Create an appointment for the next visit.

   . . . daily list of visit information

3. Mark the following visits as *not possible.*

   . . . daily list of schedule entries of visit which were not possible

4. During your visit you learned about additional contact persons and contact information (contact person in contact with case). Enter them into SORMAS-N.

   . . . daily list of contact information

5. During your visit you learned about cases of death. Enter this information into SORMAS-N.

   . . . list of persons that have died

[11] according to occurrence of real cases

[12] according to the daily information given in the tasks section of the day

6   Surveillance and Contact Supervisor

Tasks as Surveillance Supervisor (3D)

Concerning Measles, Cholera and Avian Influenza[11]:

daily

1. Check the list of notified cases including zero-notifications.

2. Check, validate and manage any other incoming information of the *Surveillance officers.*

3. Create tasks when necessary and assign them to your *Surveillance officers.*

Tasks as Contact Supervisor (AI)

Concerning Measles and Cholera you have no tasks.

Concerning Avian Influenza[13]:

daily

1. Create follow-up tasks (for 17 days, including first and final visit) for contact persons of a suspected or confirmed human or animal case of Avian Influenza.

2. Assign tasks to *Contact officers.*

3. List all contact persons with symptoms.

4. Have a look at each case and confirm those who fulfill the case definition. Immediately trigger action as appropriate.

[13] according to occurrence of real cases

Tasks as Surveillance Supervisor (ExD)

between 11 AM and 2 PM

1. List all rumors (the new ones highlighted) with *possible cases* and contact persons.

2. Have a look at each *possible case* and confirm those who fulfill the case definition as *suspected case.*

after 3 PM

3. Create a surveillance report.

4. Look at the rumor list and decide on the status of each rumor. Create necessary tasks for further investigation and assign them to *Surveillance officers.*

Tasks as Contact Supervisor (ExD)

1. Are any of the newly entered contact persons or contacts already in the system? Confirm all contact persons entered by the *Contact officers.*

2. Create tasks for initial visits, contact visits and final visits for all new contact persons.

3. Assign all unassigned tasks to the *Contact officer* of the LGA where the contact person resides.

4. List all contact persons with symptoms (*possible cases*).

5. Have a look at each *possible case* and confirm those who fulfill the case definition as *suspected case.*

6. List all contact persons of cases with 2 negative lab results (*non-cases*) that are still in contact tracing. Stop the contact tracing and create a final visit.

7. Check the status of the assigned tasks. Look for tasks that are overdue.

7 Case Supervisor

Tasks as Case Supervisor (3D)

Concerning Measles, Cholera and Avian Influenza[14]:

daily

1. Coordinate the *Case officers* for clinical management of cases and case management.[15]

[14] according to occurrence of real cases

[15] *Case officer* is currently not a user role of SORMAS.

Tasks as Case Supervisor (ExD)

Concerning exercise disease[16]:

before 10 AM

1. Are there any cases that must be isolated? Display the list of all those cases. Create tasks for isolation for those cases who need it and assign it.

2. Are there any cases that need lab diagnosis? Display the list of all those cases. Create tasks for lab diagnostic verification for those cases who need it and assign it.

3. Display all lab requests that are overdue.

   . . . number of requests overdue

4. You receive the following lab information. Make sure it is properly documented in SORMAS-N.

   . . . lab information for cases

5. Are there any cases that can be discharged? Display the list of all those cases. Create tasks for those cases who need it and assign it. From those that have two negative tests (48h apart) the following cases are symptom-free for at least 3 days.

   . . . list of cases (name with birth date)

6. Are there any cases who died? Display the list of all those cases. Create tasks for the burial of those cases who need it and assign it.

   . . . list of cases (name with birth date)

after 3 PM

7. Are there any tasks that need to be updated? Display a list of pending tasks and update their status.

   . . . list of tasks (name of case, task type and status)

[16] according to the daily information given in the tasks section of the day

8   Logbook

Day 1 – 2015-06-01 – Mon 1 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

   ☐ without difficulties

   ☐ with some difficulties

   ☐ unable to fully execute the tasks

   ☐ unable to execute the tasks

   ☐ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

   ☐ without difficulties

   ☐ with some difficulties

   ☐ unable to notify via SORMAS-N

   ☐ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 2 – 2015-06-02 – Tue 2 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    ☐ without difficulties

    ☐ with some difficulties

    ☐ unable to fully execute the tasks

    ☐ unable to execute the tasks

    ☐ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    ☐ without difficulties

    ☐ with some difficulties

    ☐ unable to notify via SORMAS-N

    ☐ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 3 – 2015-06-03 – Wed 3 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to fully execute the tasks

    □ unable to execute the tasks

    □ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to notify via SORMAS-N

    □ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 4 – 2015-06-04 – Thu 4 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

   □ without difficulties

   □ with some difficulties

   □ unable to fully execute the tasks

   □ unable to execute the tasks

   □ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

   □ without difficulties

   □ with some difficulties

   □ unable to notify via SORMAS-N

   □ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 5 – 2015-06-05 – Fri 5 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to fully execute the tasks

    □ unable to execute the tasks

    □ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to notify via SORMAS-N

    □ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 8 – 2015-06-08 – Mon 8 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

   □ without difficulties

   □ with some difficulties

   □ unable to fully execute the tasks

   □ unable to execute the tasks

   □ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

   □ without difficulties

   □ with some difficulties

   □ unable to notify via SORMAS-N

   □ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 9 – 2015-06-09 – Tue 9 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to fully execute the tasks

    □ unable to execute the tasks

    □ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to notify via SORMAS-N

    □ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 10 – 2015-06-10 – Wed 10 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to fully execute the tasks

    □ unable to execute the tasks

    □ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to notify via SORMAS-N

    □ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 11 – 2015-06-11 – Thu 11 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    ☐ without difficulties

    ☐ with some difficulties

    ☐ unable to fully execute the tasks

    ☐ unable to execute the tasks

    ☐ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    ☐ without difficulties

    ☐ with some difficulties

    ☐ unable to notify via SORMAS-N

    ☐ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 12 – 2015-06-12 – Fri 12 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

   ☐ without difficulties

   ☐ with some difficulties

   ☐ unable to fully execute the tasks

   ☐ unable to execute the tasks

   ☐ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

   ☐ without difficulties

   ☐ with some difficulties

   ☐ unable to notify via SORMAS-N

   ☐ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 15 – 2015-06-15 – Mon 15 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    ☐ without difficulties

    ☐ with some difficulties

    ☐ unable to fully execute the tasks

    ☐ unable to execute the tasks

    ☐ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    ☐ without difficulties

    ☐ with some difficulties

    ☐ unable to notify via SORMAS-N

    ☐ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 16 – 2015-06-16 – Tue 16 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

   ☐ without difficulties

   ☐ with some difficulties

   ☐ unable to fully execute the tasks

   ☐ unable to execute the tasks

   ☐ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

   ☐ without difficulties

   ☐ with some difficulties

   ☐ unable to notify via SORMAS-N

   ☐ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 17 – 2015-06-17 – Wed 17 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    ☐ without difficulties

    ☐ with some difficulties

    ☐ unable to fully execute the tasks

    ☐ unable to execute the tasks

    ☐ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    ☐ without difficulties

    ☐ with some difficulties

    ☐ unable to notify via SORMAS-N

    ☐ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 18 – 2015-06-18 – Thu 18 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

   ☐ without difficulties

   ☐ with some difficulties

   ☐ unable to fully execute the tasks

   ☐ unable to execute the tasks

   ☐ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

   ☐ without difficulties

   ☐ with some difficulties

   ☐ unable to notify via SORMAS-N

   ☐ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 19 – 2015-06-19 – Fri 19 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

   □ without difficulties

   □ with some difficulties

   □ unable to fully execute the tasks

   □ unable to execute the tasks

   □ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

   □ without difficulties

   □ with some difficulties

   □ unable to notify via SORMAS-N

   □ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 22 – 2015-06-22 – Mon 22 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to fully execute the tasks

    □ unable to execute the tasks

    □ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to notify via SORMAS-N

    □ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 23 – 2015-06-23 – Tue 23 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

   ☐ without difficulties

   ☐ with some difficulties

   ☐ unable to fully execute the tasks

   ☐ unable to execute the tasks

   ☐ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

   ☐ without difficulties

   ☐ with some difficulties

   ☐ unable to notify via SORMAS-N

   ☐ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 24 – 2015-06-24 – Wed 24 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

   □ without difficulties

   □ with some difficulties

   □ unable to fully execute the tasks

   □ unable to execute the tasks

   □ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

   □ without difficulties

   □ with some difficulties

   □ unable to notify via SORMAS-N

   □ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 25 – 2015-06-25 – Thu 25 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to fully execute the tasks

    □ unable to execute the tasks

    □ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to notify via SORMAS-N

    □ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 26 – 2015-06-26 – Fri 26 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to fully execute the tasks

    □ unable to execute the tasks

    □ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to notify via SORMAS-N

    □ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 29 – 2015-06-29 – Mon 29 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to fully execute the tasks

    □ unable to execute the tasks

    □ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to notify via SORMAS-N

    □ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 30 – 2015-06-30 – Tue 30 Jun

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

   □ without difficulties

   □ with some difficulties

   □ unable to fully execute the tasks

   □ unable to execute the tasks

   □ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

   □ without difficulties

   □ with some difficulties

   □ unable to notify via SORMAS-N

   □ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 31 – 2015-07-01 – Wed 1 Jul

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    ☐ without difficulties

    ☐ with some difficulties

    ☐ unable to fully execute the tasks

    ☐ unable to execute the tasks

    ☐ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    ☐ without difficulties

    ☐ with some difficulties

    ☐ unable to notify via SORMAS-N

    ☐ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 32 – 2015-07-02 – Thu 2 Jul

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    ☐ without difficulties

    ☐ with some difficulties

    ☐ unable to fully execute the tasks

    ☐ unable to execute the tasks

    ☐ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    ☐ without difficulties

    ☐ with some difficulties

    ☐ unable to notify via SORMAS-N

    ☐ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 33 – 2015-07-03 – Fri 3 Jul

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

   ☐ without difficulties

   ☐ with some difficulties

   ☐ unable to fully execute the tasks

   ☐ unable to execute the tasks

   ☐ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

   ☐ without difficulties

   ☐ with some difficulties

   ☐ unable to notify via SORMAS-N

   ☐ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 36 – 2015-07-06 – Mon 6 Jul

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

   □ without difficulties

   □ with some difficulties

   □ unable to fully execute the tasks

   □ unable to execute the tasks

   □ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

   □ without difficulties

   □ with some difficulties

   □ unable to notify via SORMAS-N

   □ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 37 – 2015-07-07 – Tue 7 Jul

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to fully execute the tasks

    □ unable to execute the tasks

    □ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to notify via SORMAS-N

    □ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 38 – 2015-07-08 – Wed 8 Jul

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    ☐ without difficulties

    ☐ with some difficulties

    ☐ unable to fully execute the tasks

    ☐ unable to execute the tasks

    ☐ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    ☐ without difficulties

    ☐ with some difficulties

    ☐ unable to notify via SORMAS-N

    ☐ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

Day 39 – 2015-07-09 – Thu 9 Jul

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to fully execute the tasks

    □ unable to execute the tasks

    □ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    □ without difficulties

    □ with some difficulties

    □ unable to notify via SORMAS-N

    □ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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Day 40 – 2015-07-10 – Fri 10 Jul

1. How did you execute the *exercise disease* tasks in SORMAS-N today?

    ☐ without difficulties

    ☐ with some difficulties

    ☐ unable to fully execute the tasks

    ☐ unable to execute the tasks

    ☐ not applicable, as there were no tasks for *exercise disease* today

2. How did you execute your task of notifying *Measles, Cholera or Avian Influenza* cases in SORMAS-N today?

    ☐ without difficulties

    ☐ with some difficulties

    ☐ unable to notify via SORMAS-N

    ☐ not applicable, as there were no such cases today

3. Please give detailed description of the problem if you encountered any difficulties either with notification of *Measles, Cholera or Avian Influenza* cases or with the execution of the exercise.

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9 Final Assessment

1. Please write down your *role* during the pilot phase (*Contact officer*, *Contact supervisor* etc.).

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2. How easy was it overall to work with SORMAS-N? Please mark a number.

1	2	3	4	5	6	7	8	9	10
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

   difficult   easy

3. How useful is SORMAS-N in outbreak management? Please mark a number.

1	2	3	4	5	6	7	8	9	10
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

   useless   useful

4. How useful did you find SORMAS-N in regular surveillance? Did it support you in your routine work? Please mark a number.

1	2	3	4	5	6	7	8	9	10
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

   useless   useful

5. Would you recommend the tool to your colleagues?

   ☐ Yes

   ☐ Maybe

   ☐ No

6. Have you used other outbreak management tools before?

   ☐ No

   ☐ Yes

   Which one?

   _____

   Would you (rather) use SORMAS-N?

   ☐ No

   ☐ Yes

   Why?

   _____

   _____

7. Please indicate the device you have used.

   ☐ Smart-phone

   ☐ Tablet

8. How often did you experience problems with access to and upload of your information?

   ☐ Never

   ☐ About once weekly

   ☐ About once daily

   ☐ More than once daily

9. Did you experience problems more than once with charging the smart-phone?

   ☐ Yes

   ☐ No

10. Which functions are missing in SORMAS-N?

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11. What else could be improved?

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At the end of the pilot, please do not forget to hand in this completed booklet to Dr. Ebiwumi Aikhionbare. Your feedback is of great importance for improving the performance of SORMAS.

For *Surveillance officers* only: Please hand in the photocopies of the IDSR forms.

Thank you very much for participating in the SORMAS-N field test.
We hope you had a pleasant time.