



Lagos State Preparedness For 2019 novel Coronavirus & Lassa Fever Virus



OUTLINE

- Pathogens of high Consequences Outbreak
 - Novel Coronavirus outbreak
 - Lassa Fever outbreak
- Critical vulnerabilities of Lagos State
- Role of health care workers



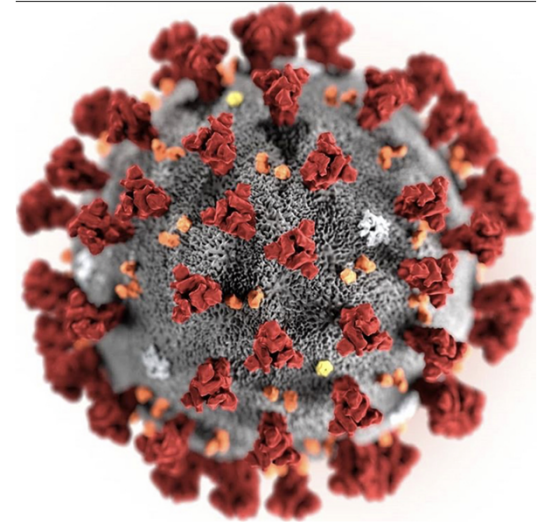
Pathogens of High consequence

- A pathogen with the potential to cause a high mortality rate among otherwise healthy people
- direct clinical specimens pose generalized risks to laboratory personnel
- Known risk of secondary airborne spread within health care settings or unknown mode of transmission
- No routine vaccine exists
- Examples include
 - Middle East Respiratory Syndrome Coronavirus (MERS_CoV) in Saudi Arabia (2018);
 - ongoing Ebola Virus Disease (EVD) Outbreak in Democratic Republic of Congo (DRC) since 2018;
 - **Lassa Fever in Nigeria ongoing**
 - **nCOV 2019 ongoing**



Introduction

- In December, 2019, a series of pneumonia cases of unknown cause emerged in Wuhan, Hubei, China.
- Between then and now it has infected 1400 people with 56 deaths.
- It is present across 3 continents and 14 countries including China and the US with heavy traffic into Lagos.





Coronavirus cases

Deaths

41

Confirmed cases

1,315

Confirmed cases of the new coronavirus as of **Jan. 24.**



Health Emergency Office, Johns Hopkins University

Los Angeles Times



LIVE UPDATES

Updated 18 minutes ago

Coronavirus Live Updates: Death Toll Reaches 56 as Cases Rise Sharply

Hundreds of medical personnel are being deployed to Wuhan and affected areas to treat the ill and stem the outbreak.

By The New York Times

RIGHT NOW China temporarily bans wildlife trade



The deadly virus has killed 41 people in China

- ✓ WHO is on the verge of declaring a PHEIC.
- ✓ It met last Thursday and decided to observe for a while. However, it has increased by more than 100% in both morbidity and mortality!!!



Novel Coronavirus update ; Saturday 25 January 2020

Country.	Confirmed.	Death
China	2800	81
Hong Kong	8	0
Thailand.	8	0
France.	3	0
Malaysia.	4	0
Singapore.	4	0
Taiwan.	4	0
Japan.	2	0
Vietnam.	2	0
Nepal.	1	0
Macau.	6	0
South Korea.	4	0
USA	5	0
Cumulative.	2858	81



Novel Coronavirus update ;Tuesday February 4, 2020

Country.	Confirmed.	Death
China	20438	81
Hong Kong	15	0
Thailand.	19	0
France.	6	0
Malaysia.	08	0
Germany	12	0
Singapore.	18	0
Australia	12	0
Taiwan.	10	0
UAE	5	0
Italy, Philippines, UK, Russia	2	1(Philippines)
Japan.	20	0
Canada	4	0
Vietnam.	9	0
Nepal, Finland, Cambodia, Spain, Sri Lanka, Sweden.	1	0
Macau.	9	0
South Korea.	16	0
USA	11	0
Cumulative.	20629	427



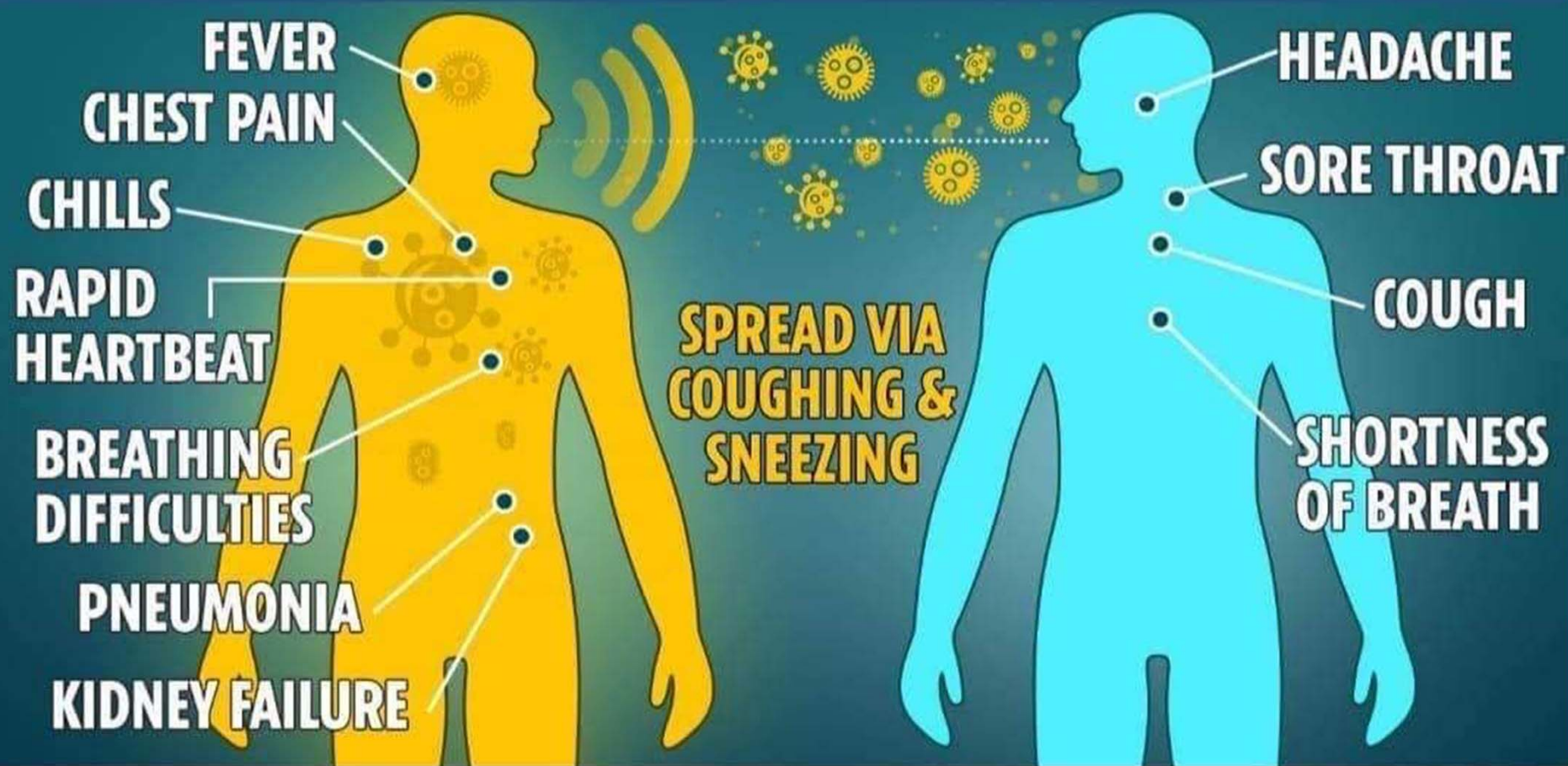
Signs of Infection

Common signs and symptoms :

- Running nose
- Headache
- Feeling of being unwell
- Sore throat
- Fever
- Cough
- In more severe cases, infection can cause
- Pneumonia
- Severe acute respiratory disease
- Kidney failure and even
- Death



The symptoms of 2019-nCoV and how it spreads





Management of a suspected case of Wuhan novel coronavirus (WN-CoV)

Does the patient have :

EITHER

- acute respiratory infection of any degree of severity (including at least one of: shortness of breath, cough or sore throat) **OR**
- severe acute respiratory infection requiring admission to hospital with clinical or radiological evidence of pneumonia or acute respiratory distress syndrome

Primary care

- isolate the patient (and their belongings or waste) in a side room with the door closed
- do not physically examine the patient
- if consultation/examination had already started, leave the room and wash your hands
- seek specialist advice from a local microbiologist, virologist, or infectious diseases physician

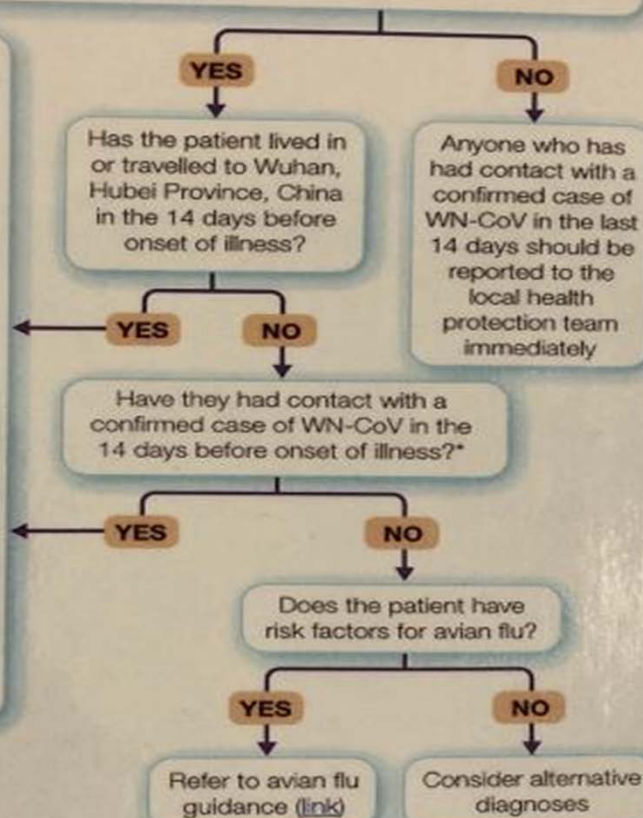
Secondary care

- place the patient in respiratory isolation, and PPE is worn by any person entering the room
- seek specialist advice from a local microbiologist, virologist, or infectious diseases physician

Patient phone call

- advise the patient to stay at home whilst appropriate transport can be arranged

Notify the local PHE Health
Protection Team by phone



Foot note - For further guidance:

[Link to background information](#)

[Link to initial investigation of possible cases guidance](#)

[Link to infection prevention and control guidance](#)



Lassa Fever Outbreak

- Lassa fever, known as Lassa hemorrhagic fever (LHF), is a type of viral hemorrhagic fever caused by Lassa fever virus.
- Symptoms include fever, weakness, headaches, vomiting, and muscle pains.\
- The risk of death once infected is about one percent and frequently occurs within two weeks of the onset of symptoms.



Mastomys natalensis

- “Multimammate rat”
- Peri-domestic
- Inhabits fields and cleared forest
- Prolific breeder (8-12 pups/litter)
- Infected at birth and become chronic asymptomatic carriers of Lassa virus
- Shed virus in the urine and feces
- Numerous sub-species



Lassa Fever updates

- New confirmed cases --- 195.
- **Twenty nine deaths**
- **At least two dead health workers**
- Eleven states have recorded at least one confirmed case across 32 Local Government Areas.
- States involved: Ondo, Edo, Delta, Taraba, Plateau, and Bauchi --
- The overall case fatality rate (CFR) for 2020 is (14.7%)
- confirmed cases: 89% Edo, Ondo and Ebonyi



Nigeria Centre for Disease Control

Protecting the health of Nigerians

www.ncdc.gov.ng

PLOT 801 EBITU UKIWE STREET, JABI ABUJA, NIGERIA.

TOLL FREE CALL: 0800-970000-10. Email: info@ncdc.gov.ng



@NCDCgov

Lassa fever Situation Report

Epi Week 10: 02 - 08 March 2020

Key Points

Table 1: Summary of current week (10), cumulative from Epi week 01–10, 2020 and comparison with previous year (2019)

Reporting Period	Suspected cases	Confirmed cases	Probable cases	Deaths (Confirmed cases)	Case Fatality Ratio (CFR)	States and LGAs affected (Confirmed cases)
Current week (week 10)	364	81	2	9	11.1%	State(s): 15 LGA(s): 29
2020 Cumulative (week 1-10)	3416	855	11	144	16.8%	State(s): 27 LGA(s): 119
2019 Cumulative (week 1-10)	1752	472	15	110	23.3%	State(s): 21 LGA(s): 73





Lassa Fever Situation Report

Epi Week: 10 2020

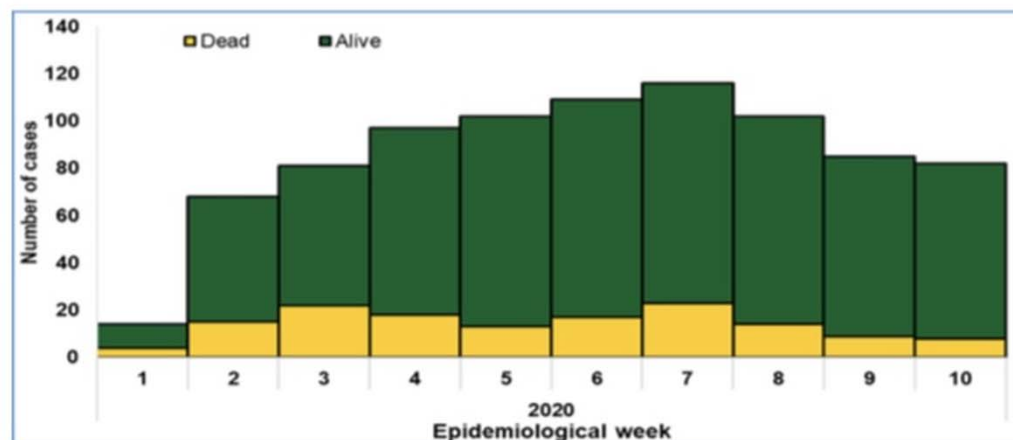


Figure 1. Epidemic curve of confirmed Lassa fever cases from epidemiological week 01 to 10, 2020

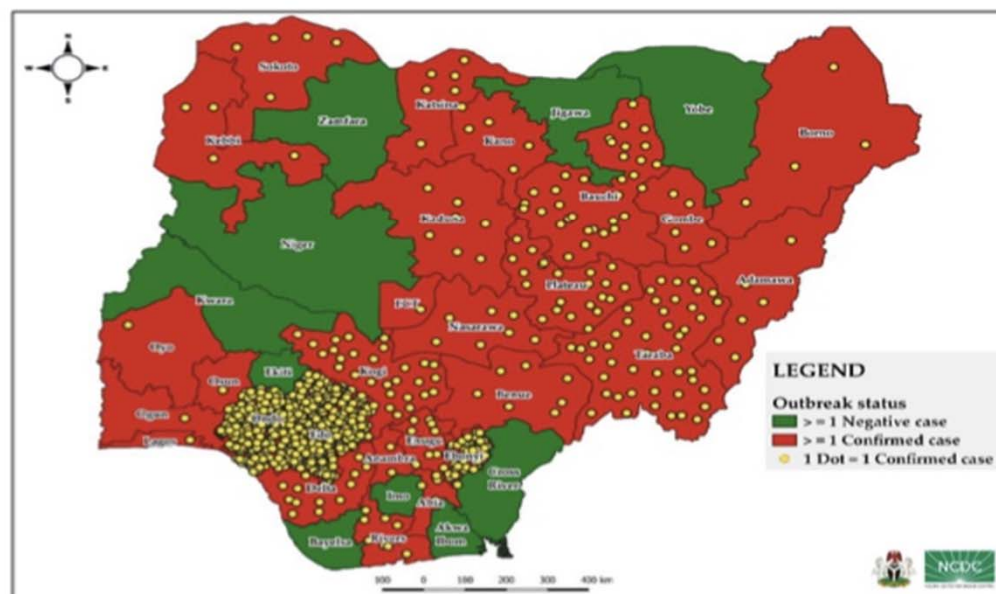


Figure 2. Confirmed Lassa fever cases by States in Nigeria, week 01- 10, 2020



Lassa Fever Situation Report

Epi Week: 10 2020

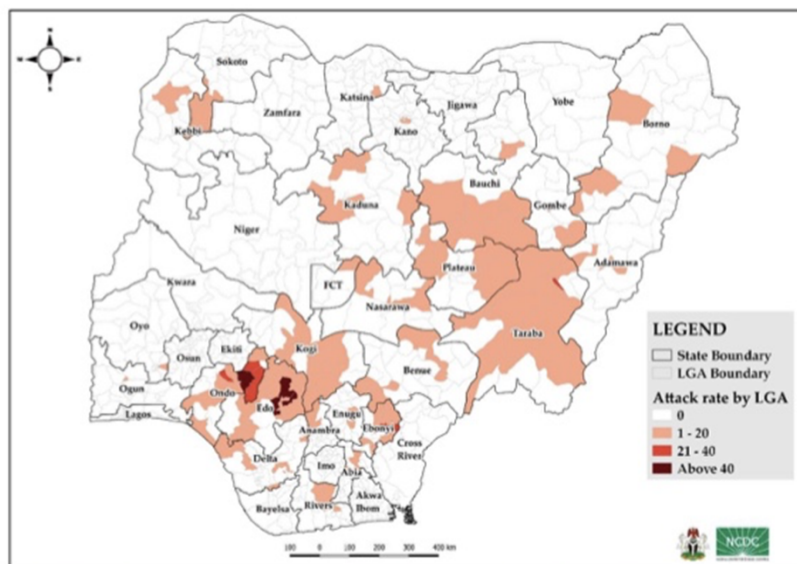


Figure 3. Confirmed Lassa fever rate per 100,000 population for LGAs in Nigeria, week 01- 10, 2020

Table 2: Key indicators for current week 2020 and trend compared to previous week, Nigeria

Indicator	Number for current week	Trend from previous week	Cumulative number for 2020
Probable cases	2	↑	11
Health Care Worker affected	2	↑	29
Cases undergoing treatment in Treatment centres	133	↓	879
Contact tracing			
Cumulative contact listed	2007	↑	8114
Contacts under follow up	2841	↑	2841
Contacts completed follow up	1495	↑	5210
Symptomatic contacts	8	↑	138
Positive contacts	0	↔	59
Contacts lost to follow up	0	↓	4

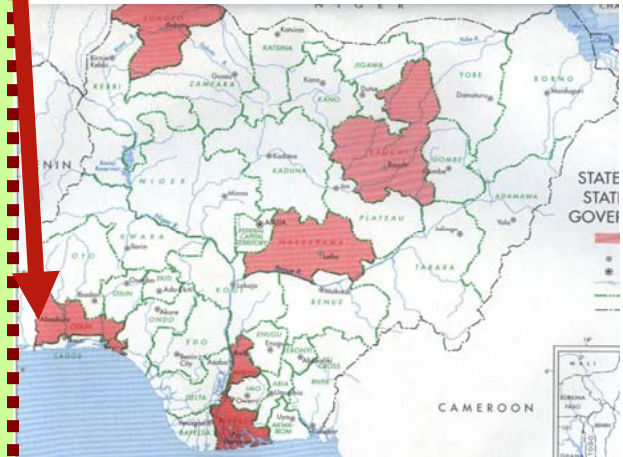
Key
 ↑ Increase
 ↓ Decrease
 ↔ No difference



LAGOS STATE OF NIGERIA



- Smallest state with an area – 3,577 sq. km (22% Water)
- Commercial, Financial and Industrial nerve center of Nigeria
- Population of about 24 million people





HOW TO PREVENT LASSA FEVER

Prevent
rats from
houses

Block all
holes in the
house

Do not touch
rats, dead or
alive with bare
hands

Cook all
foods
properly
before eating

Avoid eating
food/fruits
eaten by rats

Store food in
cover
container

Clean your
home and
surroundings
regularly

Dispose waste
properly in
covered
dustbin

Wash hands
regularly with
soap and
water,
running water
always

Avoid self
medication;
go to approved
health
facilities

Do no dry food
in open places
and on the
floor

Avoid person-
to person
contact with
someone who
has the disease



Lagos is vulnerable!!!

- Lagos has the highest population of people from South East Asia
- Lagos is the entry point for >90% of international travel in Nigeria
- Lagos is the port of choice for all purchases from China
- Population density : > 24 million
- Average flights to Lagos from South Asia > 4 per week
- Success of Ebola containment in 2014

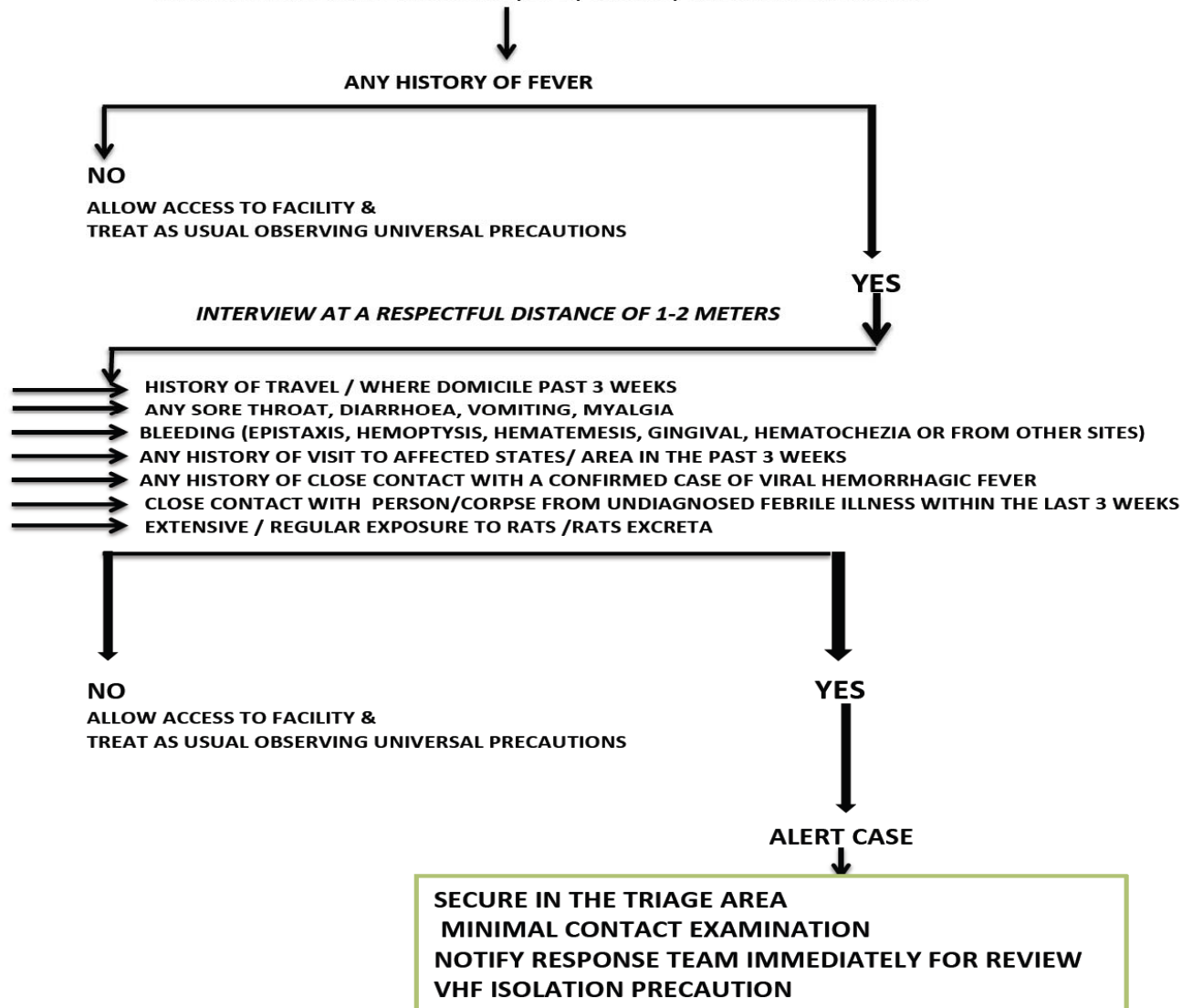


LAGOS STATE UNIVERSITY TEACHING HOSPITAL, IKEJA

HEMORRHAGIC VIRUS DISEASES TRIAGE PROTOCOL

SCREEN--- ISOLATE ---NOTIFY

ARRIVAL IN MEDICAL EMERGENCY, OPD, LASEMS, CHILDREN EMERGENCY





REMEMBER 'WUHAN' TO PROTECT YOURSELF FROM CORONAVIRUS

Wash your hands often

Use masks properly and when necessary

Have your temperature checked for fever

Avoid large crowds and stay home if you're sick

Never touch your face with unclean hands

SOURCE: DEPARTMENT OF HEALTH