



PROTOCOL FOR THE ASSESSMENT AND ACCREDITATION OF COVID-19 ISOLATION FACILITIES

Federal Ministry of Health
Department of Hospital Services

April 1 2020

Version 1

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Abbreviations

COVID-19	Corona virus disease 2019
IPC	Infection Prevention and Control
NCDC	Nigeria Centre for Disease Control
OPD	Out-patient Patient Department
PCR	Polymerase Chain Reaction
SOP	Standard Operating Procedure
WHO	World Health Organization
SARS-COV-2	Severe Acute Respiratory Syndrome Coronavirus 2.

Definition of Terms

Suspect case: Any person (including severely ill persons) with fever or cough or difficulty in breathing and in the last 14 days had; history of travel to any country reporting COVID-19 or close contact with a confirmed case of COVID -19 or exposure to a healthcare facility where COVID-19 case(s) has been reported.

Isolation: The separation of individuals who are ill and suspected or confirmed of COVID-19.

1.0 Introduction

COVID-19 is an emerging respiratory disease caused by a novel coronavirus SARS-COV-2. It was first detected in Wuhan China in December 2019. Transmitted through inhalation of large respiratory droplets and direct contact with contaminated surfaces, the main clinical features include fever, dry cough, fatigue, myalgia and dyspnea. As at 13th April, there are 1,876,296 cases across 210 countries with 116,096 deaths giving a case fatality of 3%. There is currently no specific treatment or vaccine against COVID-19.

Nigeria reported the first case of COVID-19 on the 28th of February 2020. Since then, there has been a steady rise in the number of cases across different states. To stem further transmission of the virus and provide adequate care for those infected, the World Health Organisation (WHO) advised that all confirmed cases should be isolated within health facilities (WHO, 2020). The organization cited the instance of countries that had resorted to the use of stadiums and gymnasia to care for mild cases, leaving severe and at-risk groups for health facilities.

Considering the upward trend of the spread of COVID-19 in Nigeria, and the paucity of requisite healthcare facilities, there is need to set up more isolation centres and to standardize existing ones to safely cater for infected individuals. Such isolation centres need to conform with international best practices with adaptation to the peculiarities of Nigeria. These centres should provide basic facilities for patient care in an atmosphere that minimizes health worker infection and facilitates physical and psychosocial recovery.

The purpose of isolation for COVID-19 patients are to:

- Prevent the spread of COVID-19 within health facilities and in the community.
- Provide dedicated medical care for confirmed COVID-19 cases
- Ensure that medical care to other patients in the hospital are not compromised.

1.2 Objectives

The objectives of this document are to provide guidance for the:

- Establishment of new COVID-19 isolation and treatment centers across the country.
- Strengthening of existing treatment centres to meet basic requirements for safety and comfort of patients and staff.
- Assessment and accreditation of isolation and treatment centres across the country.
- Recommendation for material, human and infrastructural requirements for surge capacity, patient care and prevention of nosocomial infections.

1.3 Scope

This document is intended to support a holistic COVID-19 public health preparedness and response strategy of government to be effected at national and state level health facilities and other adaptable non-medical facilities intended for the medical care of COVID-19 PCR confirmed cases. Elements to be assessed have been divided into the following areas:

- Location
- Access control and security
- Workflow
- Clinical and laboratory systems
- Manpower
- Ventilation

- Human, material and facility capacity
- Waste management
- Housekeeping Kitchen and Laundry
- Patient area including rooms
- Staff work area including offices and rest rooms
- Utilities including electricity and water supply
- Staff residence and welfare
- Supplies and access to infection prevention and waste management commodities.

Four categories of isolation facilities are proposed:

Isolation I: Facilities designated to receive patients who are suspected cases, those who meet the criteria for case definition or those who exhibit symptoms suggestive of COVID-19 infection, some of whom may be ill but they are yet to have a laboratory confirmation of infection.

Isolation II: Facilities designed to manage patients who have a laboratory PCR confirmed result of COVID -19 infection and are asymptomatic or have mild symptoms.

Isolation III: Facilities designated to manage confirmed patients who have a laboratory confirmed result of COVID -19 infection and are classified as severe or critical cases.

Isolation IV: Facilities designed to manage patients who had an initial laboratory confirmed positive result and are being considered for discharge. They have one negative PCR result and await a second negative result.

1.4 Target Audience

The protocol is intended for use by Public health authorities at national and state level including hospital administrators, case managers and IPC focal persons.

1.5 Assessment tools

The document contains 2 categories of assessment tools:

- Checklist for adaptable facilities
- **Checklist for health facilities sectionalized as :**
 - a. Isolation II facilities
 - b. Isolation III facilities

These assessment tools were developed by the Accreditation Committee based on the current knowledge of the outbreak, evidence available from international best practices¹ and with consideration to the local context.

1.5.1 Thematic areas

a. Location:

- The facility should be in a serene environment or away from busy streets or crowded and populated areas
- The facility should have good road connection to a tertiary hospital with intensive care facility.
- There should be adequate parking space for staff vehicles and Ambulances

b. Access control and Security

- Trained security should be present at the main entrance gate of the area at all times with registers for ins and outs, wearing necessary PPE to take temperature measurement of staff and visitors

c. Workflow

A functional workflow should be maintained to reduce/minimize interactions between patients and clinical or support staff.

- There should be separate entrances for patients and staff.
- Hand hygiene facilities should be available at strategic positions throughout the facility including at the entrance and exit.
- The clean area (green zone) should be clearly demarcated from the patient area (red zone) if necessary, with a physical barrier. The clean areas include the nurses' station, facility store, administrative offices, pharmacy, kitchen, rest rooms /lounges for clinical duty staff, donning area. The doffing area should be in the red zone.
- The workflow for support systems particularly the laundry and kitchen, should be clearly defined to prevent cross -contamination of staff and material.
- Standard operating Procedures (SOP) for the various operations in the facility should be readily available to staff.

d. Clinical and Laboratory systems

- Patient-care equipment should be available and individualized or disinfected in between use and should remain in patient care area eg thermometers, stethoscope, glucometers with test strips, digital sphygmomanometer, pulse oximeters.
- Hospital stationaries should be available.
- There should be a mechanism in place to ensure equipment are in good condition and can easily be replaced within the shortest possible time.
- Specimen collection materials for COVID-19 and basic investigations should be available including materials for triple packaging and safe shipment of specimen to testing laboratories.

- Guidelines and protocols for case management, specimen collection, infection prevention and control and waste management should be available and accessible to staff
- There should be a discharge procedure for patients in place who meet discharge criteria as specified by Nigeria Centre for Disease for Control (NCDC).

e. Manpower requirement

- Clinical staff should be sufficient in number to provide adequate care
- There should be surge capacity for support and clinical staff.
- There should be accommodation for duty staff within the facility.
- There should be rest rooms or sleep-in rooms for staff on duty.
- Staff on duty should change into scrubs in a designated male and female changing area where this is possible.
- Daily monitoring of duty staff temperature should be in place.
- The maximum number of working hours should be decided with workloads well-distributed among duty staff and communicated.
- Rest times between shifts have been determined and communicated to all staff.

f. Ventilation

- The facility should be generally well-ventilated.

g. Patient rooms

- Rooms should be adequately ventilated and maintained at negative pressure relative to the outside or corridors using mechanical or natural ventilations if possible.
- Single ensuite patient rooms are preferred, however, where patients are cohorted, each bed should be 2 meters apart from each other.

- All beds should have launderable bed sheet that should be changed on daily basis. Personal toiletries, electric kettle or microwave ovens may be provided depending on availability.
- Lighting should be adequate in all rooms
- Potable water should be available
- Provision of intercom in each room for communication.
- Information materials should be developed for patients containing hand and respiratory hygiene, call number, mealtimes etc
- Patients' feeding should be considered and planned for without compromising safety of kitchen staff.
- Laundry services should be available for all patients
- Patients' rooms should be cleaned twice daily and when necessary with adherence to Infection control standards for environment cleaning of COVID-19
- All non-essential furniture should be removed and furniture in the room should be is easy to clean, and not conceal or retain dirt or moisture .
- Touch-free bins lined with infectious waste bin liners should be in patients' rooms
- Sharp boxes should be in each room for disposal of sharp waste if generated.
- Terminal disinfection of rooms should follow patient discharge.
- The signages for contact and droplet precautions should be displayed on the doors of the rooms

h. Personal protective equipment (PPE)

- PPE should be available in different sizes and sufficient quantity for clinical and support staff.
- There should be at least one month's stock balance of disposable personal protective equipment

- A plan should be in place to keep track and custody of key supplies (e.g. PPE, cleaning and disinfection material, sanitizers, etc.) and a procurement process to acquire these on short notice.

i. Environmental cleaning

- A procedure is in place for the low risk and high-risk areas on a regular basis and when required.
- Appropriate products for the cleaning and disinfection of the surfaces, equipment and medical apparatuses in green and red zones are available in sufficient quantities
- PPE for the hygienist should be available in different sizes (including utility gloves and reusable aprons).

j. Waste management

- Waste segregation should be into infectious and sharp waste in the red zone and general waste in the green zone
- A mechanism for final disposal of infectious waste by incineration should be in place
- Space should be available for preparation of chlorine solution and disinfection of reusable PPE.

k. Patient recreation

- There should be available space for recreation for patients. These should include television and radio / Reading materials/ indoor games.

l. Power

- The facility should have a back-up power source.

m. Laundry

- There should be a mechanism in place to prevent clean linen from coming in contact with dirty linen.

n. Kitchen

- There should be a functional kitchen in the clean zone

o. Storage facility

- Storage facilities should be available for stocking commodities and should meet be of adequate temperature and humidity to prevent spoilage.

p. Water supply

- Water should be reticulated to all parts of the facility and flow constantly.

q. Training

- There should be a plan in place to train clinical and support staff (including new staff) in line with the task they are to carry out.
- Training should cover amongst others hand hygiene., doffing and donning of PPE, waste management, case management and specimen collection

r. Ambulance services

- An ambulance service should be readily available.
- There should be space available for decontamination of ambulances or vehicles used to convey confirmed cases.

1.6 Additional requirements for Isolation III facilities

Isolation III facilities should have in addition to the above, other amenities and infrastructure needed to care for critically ill patients including ventilators, dialysis machines, defibrillators and , morgue and the full complement of specialized staff.

CHECKLIST ONE: FOR NON-HEALTH CARE FACILITIES

1. GENERAL INFORMATION

1. Name of Facility _____

Date of Assessment: _____

2. Name of Assessment team lead _____

3. Type of Facility

Public [] Private [] NGO [] Others _____

5. Address :

6. Name of Contact person in facility _____ Designation _____

Email address _____ phone no _____

. FACILITY INFORMATION:

S/N	THEMATIC AREA	AVAILABLE /YES	IN PROGRESS	NO	REMARK
1	LOCATION				
	Is the facility in a serene environment away from noise pollution?				
	Is the facility easily accessible to a tertiary care Centre dedicated to the management of COVID-19				
	Is there adequate parking space for staff vehicles and ambulance?				
2	SECURITY AND ACCESS CONTROL				
	Is there presence of security guards on a 24 hours basis at the entrance gate?				
	Are visitors checked for symptoms before entering the facility?				
	Are records in place for access control into the facility?				
	Is hand hygiene enforced for all staff and visitors before entry and exit of the facility?				
3	WORKFLOW				
	Are there space for signages at the entrance and				

	waiting area about COVID -19, hand and respiratory hygiene				
	Are there separate entrances and exits for staff and patients?				
	Has workflow for all support systems (laundry, kitchen, etc.) been identified to prevent cross - contamination of staff and material?				
	Is there a dedicated space for staff to don PPE before entry into the red zone?				
	Is there a marked-out area for doffing with hand hygiene facilities in place?				
3	CLINICAL AND LABORATORY SYSTEMS				
	Is there a place that can be marked out sampling and safe shipment of specimen?				
4	MANPOWER				
	What is the present medical and support staff manpower on ground?				
	Is there space that can be mapped out for changing room for duty staff differentiated as male and female?				
	Are there toilets that can be designated for staff in the clean (green) area?				
	Is there space for accommodation for duty staff? Is it onsite or off-site?	Onsite [] Offsite []			
	Is there space that can be allotted as common room and sleep-in room for staff on duty?				
5	PERSONAL PROTECTIVE EQUIPMENT				
	Is there space that can be allotted for storage of PPE of different sizes and sufficient quantity for clinical and support staff?				
6	WASTE MANAGEMENT				
	Does the facility have cleaning personnel that can be trained on all relevant procedures?				
	Is there arrangement to provide cleaning and disinfecting materials in sufficient quantity?				
	What method of waste disposal is in use?				
	Can space for preparation of chlorine solution and				

	disinfection of reusable PPE can identified?				
7	RECREATION FACILITIES				
	Is there space available for recreation for patients?				
9	ELECTRICITY				
	What is the primary source of power for the facility?				
	Is there regular supply of electricity in the facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Are there readily available and functional back-up power sources?				
	If yes, what type(s) of back up electricity supply do you have?				
	If generator, who is responsible for fuelling the generator?				
	Is fuel supply regular?	<input type="checkbox"/> Yes <input type="checkbox"/> No			
10	KITCHEN				
	Is there a functional kitchen?	<input type="checkbox"/> Yes <input type="checkbox"/> No			
	Can the kitchen area be separated from the proposed clinical area?				
	STORAGE				
	Is there a dedicated space for storage of commodities?				
11	LAUNDRY				
	Is there a functional laundry?				
	Does the laundry layout allow for separation of dirty linen from clean linen without cross infection?				
13	WATER SUPPLY				
	Is there adequate water supply in all areas in the facility?				
14	PATIENT ROOMS				
	How many beds are available in the facility?				
	Are furniture in the proposed patient rooms such that can be easily cleaned?				
	Are the proposed patient rooms cross ventilated?				
	Are there non- touch bins in the proposed patients room?				
	Is there a functional intercom that connects the proposed patient rooms with the rest of the				

	facility?				
	Is drinking water available at isolation area?	<input type="checkbox"/> Yes <input type="checkbox"/> No			
15	VENTILATION				
	Is the facility well ventilated?				
16	TRAINING				
	Is there a plan in place to train clinical and support staff (including new staff) in line with the task they are to carry out to ensure safety?				

CHECKLIST TWO: FOR HEALTH FACILITIES

ASSESSMENT CHECKLIST FOR COVID -19 ISOLATION FACILITIES

1. GENERAL INFORMATION

1. Name of Facility _____	Date of Assessment: _____
2. Name of Assessment team lead _____	
3. Type of Health facility	Public [<input type="checkbox"/>] Mission [<input type="checkbox"/>] Tertiary [<input type="checkbox"/>] Others _____
5. Address of the health facility	
6. Name of Contact person in facility _____ Designation _____	
Email address _____ phone no _____	

SECTION A: FACILITIES DESIGNATED ISOLATION II

S/N	THEMATIC AREA	YES/NO	REMARK
1	LOCATION		
1.1	Is the facility in a serene environment away from noise pollution?	<input type="checkbox"/> Yes <input type="checkbox"/> No	

1.2	Is the facility easily accessible to a tertiary care centre dedicated to the management of COVID-19?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
1.3	Is there adequate parking space for staff vehicles and ambulance?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
1.4	Is the isolation facility near the out-patient department (OPD), in-patients ward or other crowded areas of the hospital?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2	SECURITY AND ACCESS CONTROL		
2.1	Is there presence of security guards on a 24 hours basis at the entrance gate?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2.2	Are visitors checked for symptoms before entering the facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2.3	Are records in place for access control into the facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2.4	Is hand hygiene enforced for all staff and visitors before entry and exit of the facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2.5	Does the hospital limit the movement of patients in the isolation facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2.6	Is there any protocol for limiting the entry of visitors at isolation area?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3	WORKFLOW		
3.1	Are there signages at the entrance and waiting area about COVID -19, hand and respiratory hygiene	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3.2	Are there separate entrances and exits for staff and patients into the isolation facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3.3	Has the workflow for the laundry, kitchen been identified to prevent cross -contamination of staff and material?	<input type="checkbox"/> Yes <input type="checkbox"/> No In progress []	
3.4	Is there a dedicated space for staff to don PPE before entry into the red zone?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3.5	Is there a marked-out area for doffing with hand hygiene facilities in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3.6	Have specific routes been designated for the transport of patients to minimize contact with other patients and staff?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3.7	Are there separate areas for donning and duffing	<input type="checkbox"/> Yes <input type="checkbox"/> No	

3.8	Are hand washing facility & hand sanitizer available at donning & doffing areas?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4	CLINICAL AND LABORATORY SYSTEMS		
4.1	Are patient -care equipment available and individualized eg thermometers, stethoscope, glucometers with test strips, digital sphygmomanometer, pulse oximeters?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4.2	Is there a mechanism in place to ensure equipment are in good condition and can easily be replaced within the shortest possible time?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4.3	Is there a plan in place for sampling and safe shipment of specimen?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4.4	Does the facility have a written policy for sample collection and transport?	<input type="checkbox"/> Yes <input type="checkbox"/> No n progress []	
4.5	Are staff trained in specimen collection?		
4.6	Is there any designated area for sample collection?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4.7	Do laboratory staff follow standard precautions and use appropriate PPE while taking sample?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4.8	Are clinical guidelines for the management COVID-19patients available?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4.9	Is a discharge policy for patients in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5	MANPOWER		
5.1	Are medical and support staff manpower on ground?	<input type="checkbox"/> Yes <input type="checkbox"/> No In progress []	
5.2	Is there surge capacity for support and clinical staff?	<input type="checkbox"/> Yes <input type="checkbox"/> No In progress []	
5.3	Are there changing rooms for duty staff?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5.4	Is accommodation provided for duty staff? Is it onsite or off-site?	Onsite [] Offsite []	
5.5	Are there staff toilets separate for males and females in the clean (green) area?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5.6	Is there space allotted as common room and sleep-in room for staff on duty?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5.7	Is there a plan in place to avoid burn-out among	<input type="checkbox"/> Yes <input type="checkbox"/> No	

	clinical and support staff?		
6	PERSONAL PROTECTIVE EQUIPMENT (PPE)		
6.1	Are necessary PPE available of different sizes and sufficient quantity for clinical and support staff?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
6.2	Are PPEs located near point of use? a. Gloves b. Gowns c. Face masks d. N 95 respirators e. Goggles f. Hair covers g. Shoe covers or boots	<input type="checkbox"/> Yes <input type="checkbox"/> No In progress [] <input type="checkbox"/> Yes <input type="checkbox"/> No In progress [] <input type="checkbox"/> Yes <input type="checkbox"/> No In progress [] <input type="checkbox"/> Yes <input type="checkbox"/> No In progress [] <input type="checkbox"/> Yes <input type="checkbox"/> No In progress [] <input type="checkbox"/> Yes <input type="checkbox"/> No In progress []	
6.3	Are staff trained in the use of PPE?	<input type="checkbox"/> Yes <input type="checkbox"/> No In progress []	
7	ENVIRONMENTAL CLEANING		
7.1	Is there a procedure for cleaning of the room regularly and after patient discharge?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
7.2	Have cleaning personnel been trained on all relevant procedures?	<input type="checkbox"/> Yes <input type="checkbox"/> No In progress []	
7.3	Are cleaning and disinfecting materials in sufficient quantity?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
8	WASTE MANAGEMENT		
8.1.	Is waste segregation into infectious, general and sharp waste in place in the red zone?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
8.2	Has a mechanism for final disposal of infectious waste been put in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No In progress []	
8.3	Has space for preparation of chlorine solution and disinfection of reusable PPE been identified?	<input type="checkbox"/> Yes <input type="checkbox"/> No In progress []	
9	RECREATION FACILITIES		
9.1	Is there space available for recreation for patients?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
10	ELECTRICITY		

10.1	What is the primary source of power for the facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
10.2	Is there regular supply of electricity in the facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
10.3	Are there readily available and functional back-up power sources?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
10.4	If yes, what type(s) of back up electricity supply do you have?		
10.5	If generator, who is responsible for fueling the generator?		
10.6	Is fuel supply regular?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
11	KITCHEN		
11.1	Is there a functional kitchen?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
11.2	Is the kitchen area separated from the clinical area?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
12	STORAGE		
12.1	Is there a dedicated space for storage of commodities?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
13	LAUNDRY		
13.1	Is there a functional laundry?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
13.2	Is there a mechanism in place to prevent clean linen from coming in contact with dirty linen?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
13.3	Is there storage space for clean linen?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
14	WATER SUPPLY		
14.1	Is there adequate water supply in all areas in the facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
15	PATIENT ROOMS		
15.1	How many beds are available in the facility?		
15.2	Are patients' room single ensuite or cohort	<input type="checkbox"/> single rooms <input type="checkbox"/> cohort (if both are available , tick both)	

15.3	For cohorting rooms, is the distance between two beds in isolation wards/rooms more than 2 meter?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
15.4	Are washrooms available as 1 toilet and bathroom per 5 patients in cohort rooms?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
15.5	Are furniture in patient rooms such that can be easily cleaned?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
15.6	Are patient rooms cross ventilated?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
15.7	Is there a non- touch bin in the patient's room?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
15.8	Is there a functional intercom that connects patient rooms with the rest of the facility?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
15.9	Have information materials been developed for patients containing hand and respiratory hygiene, call number, meal times etc?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
15.10	Are contact and droplet precaution posters and reminders visibly displayed in patient area?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
15.11	Is drinking water available at isolation area?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
16	VENTILATION		
16.1	Is the facility well ventilated?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
17	TRAINING		
17.1	Is there a plan in place to train clinical and support staff (including new staff) in line with the task they are to carry out to ensure safety?	<input type="checkbox"/> Yes <input type="checkbox"/> No In progress []	
18	AMBULANCE		
18.1	Is ambulance service readily available?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
18.2	Is there a protocol in place for ambulance decontamination?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
18.3	Are staff trained in ambulance decontamination?	<input type="checkbox"/> Yes <input type="checkbox"/> No	

SECTION B: THIS SECTION IS TO BE COMPLETED ONLY FOR FACILITIES TREATING CRITICALLY ILL COVID -19 PATIENTS (ISOLATION III)

19	INTENSIVE CARE UNIT (ICU)		
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19.1	Is there an ICU facility attached to isolation area?	<input type="checkbox"/> Yes <input type="checkbox"/> No
19.2	Are there any beds dedicated for COVID 19 patients?	<input type="checkbox"/> Yes <input type="checkbox"/> No
19.3	If YES Number of beds dedicated to COVID 19 Cases	
19.4	Is the distance between beds in ICU more than 2 meters?	<input type="checkbox"/> Yes <input type="checkbox"/> No
19.5	Is the oxygen supply to patients by cylinder or central piped connection?	Cylinder [] piped connection []
19.6	Are there separate Ventilators, nebulizers, Infusion pumps in ICU? Please indicate the numbers a. Ventilators b. Nebulizers c. Infusions pumps	<input type="checkbox"/> Yes <input type="checkbox"/> No
19.7	List all categories of specialties available and their numbers : Doctors (please list): 1 2 3 4 5 6 Nurses (please list): 1 2 3 4 5 6	
19.8	Is there adequate supply of masks, ET tubes, PPE kits available at ICU?	<input type="checkbox"/> Yes <input type="checkbox"/> No
19.9	Have all ICU Staff received training in donning & doffing of PPE?	<input type="checkbox"/> Yes <input type="checkbox"/> No
19.10	For patient on Airborne Precautions, is air pressure monitored daily with visual indicators?	<input type="checkbox"/> Yes <input type="checkbox"/> No
19.11	Do isolation rooms where the critically ill are kept have negative pressure class?	<input type="checkbox"/> Yes <input type="checkbox"/> No
19.12	Are COVID -19 patients' samples transported in triple packing?	<input type="checkbox"/> Yes <input type="checkbox"/> No
19.13	Are standard precautions maintained while transporting	<input type="checkbox"/> Yes <input type="checkbox"/> No

	the COVID-19 samples?	
19.14	Does the hospital have a policy to designate clinical staff (e.g. nurses) for the care of COVID-19 cases?	<input type="checkbox"/> Yes <input type="checkbox"/> No
19.15	Do staff transporting the patient wear PPE?	<input type="checkbox"/> Yes <input type="checkbox"/> No
19.16	Does the facility have a separate mortuary	<input type="checkbox"/> Yes <input type="checkbox"/> No
19.17	Are body bags available for use?	<input type="checkbox"/> Yes <input type="checkbox"/> No

References

1. European Centre for Disease Prevention and Control. Checklist for hospitals preparing for the reception and care of coronavirus 2019 (COVID-19) patients. ECDC: Stockholm; 2020.
2. National Centre for Disease Control India. COVID -19 outbreak. Guidelines for setting up isolation facility/Ward. 2020
3. Nigeria Centre for Disease Control. Infection Prevention and Control recommendations during Health Care when COVID-19 infection is suspected. 2020.

List of contributors

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