

मनोज कुमार, भा०प्र०से० कार्यपालक निदेशक—सह— अपर सचिव, स्वास्थ्य विभाग।

पत्रांक : SHSB/ED CELL/15/2020/...9.7.96

सेवा में.

सभी जिला पदाधिकारी
सभी क्षेत्रीय अपर निदेशक, स्वास्थ्य सेवाएँ
सभी असैनिक शल्य चिकित्सक—सह—मुख्य चिकित्सा पदाधिकारी

पटना, दिनांक : <u>30/3/</u>2020

विषयः कोरोना वायरस (COVID-19) के मद्देनजर समुचित प्रबंधन हेतु सभी जिला अस्पताल एवं अनुमंडलीय अस्पताल में सम्पूर्ण चिकित्सा व्यवस्था के साथ—साथ Isolation Facility/Ward पूर्णतः क्रियाशील करने के संबंध में।

प्रसंगः SHSB के पत्रांक 9664 दिनांक 26.03.2020 एवं पत्रांक 9700 दिनांक 28.03.2020। महाशय,

कोरोना वायरस्न के बिहार में बढ़ते प्रकोप के मद्देनजर, स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार एवं स्वास्थ्य विभाग, बिहार सरकार के दिशा—निदेश के आलोक में COVID-19 संक्रमण को रोकने तथा इससे संभावित/पीड़ित मरीजों की चिकित्सा हेतु विभिन्न प्रकार के सुरक्षात्मक उपाय एवं आवश्यक चिकित्सकीय प्रबंधन का कार्य किया जा रहा है। इसी क्रम में सभी जिला अस्पताल में Protocol के अनुसार Flu Corner स्थापित करते हुए अस्पताल में आने वाले मरीजों को पृथक कर आवश्यक जाँच इत्यादि की सुविधा उपलब्ध करायी जाय, ताकि कम—से—कम लोग संक्रमित हो।

Isolation उन व्यक्तियों को अलग करने की प्रक्रिया है जो बीमार हैं और COVID-19 के संदिग्ध हो या उसकी सम्पुष्टि हो गयी है। सभी सिविल सर्जन/सभी जिला कार्यक्रम प्रबंधक के द्वारा चिन्हित Isolation facility/ward की विवरणी उपलब्ध कराई गई है। समेकित चिन्हित Isolation facility/ward की विवरणी पत्र के साथ संलग्न है। चिन्हित Isolation facility/ward सफल संचालन एवं समुचित प्रबंधन हेतु निम्न निदेश दिया जाता है:—

1. स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार से प्राप्त दिशा—िनर्देश के आलोक में Isolation Ward की सुरक्षा एवं समुचित प्रबंधन / व्यवस्था यथा — चिकित्सक एवं अन्य स्वास्थ्य कर्मी की उलब्धता, आवश्यक औषि, उपकरणों एवं उपस्करों की उपलब्धता सुनिश्चित किया जाए। साथ ही Isolation Ward में प्रतिनियुक्त चिकित्सकों एवं कर्मियों हेतु पर्याप्त मात्रा में मास्क, दस्ताना, PPE Kit आदि की समुचित व्यवस्था की जाए। स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत

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सरकार से प्राप्त COVID-19 guideline for setting up isolation facility/ ward प्रपत्र सहित की छायाप्रति इस पत्र के साथ संलग्न है, इसका अनुपालन सुनिश्चित किया जाये। दिशा—निर्देश की कुछ महत्वपूर्ण बिन्दू निम्नवत् है:—

- Post signages on the door indicating that the space is an isolation area/ward. It should be in a segregated area which is not frequented by outsiders.
- Remove all non-essential furniture and ensure that the remaining furniture is easy to clean, and does not conceal or retain dirt or moisture within or around it.
- COVID-19 patients should be housed in single rooms. However, if sufficient single rooms are not available, beds could be put with a spatial separation of at least 1 meter (3 feet) from one another.
- Preferably the isolation ward should have a separate entry/exit and should not be co-located with post-surgical wards/dialysis unit/SNCU/labour room etc.
- There should be double door entry with changing room and nursing station. Enough PPE should be available in the changing room with waste disposal bins to collect used PPEs. Used PPEs should be disposed as per the BMWM guidelines.
- Stock the PPE supply and linen outside the isolation room or area (e.g. in the change room). Setup a trolley outside the door to hold PPE. A checklist may be useful to ensure that all equipment is available.
- Non-critical patient-care equipment (e.g. stethoscope, thermometer, blood pressure cuff, and sphygnomanometer) should be dedicated for each patient, if possible. Any patient-care equipment that is required for use by other patients should be thoroughly cleaned and disinfected before use.
- Place an appropriate container with a lid outside the door for equipment that requires disinfection or sterilization.
- Ensure that appropriate hand washing facilities and hand-hygiene supplies are available. Stock the sink area with suitable supplies for hand washing, and with alcohol-based hand rub, near the point of care and the room door.
- The isolation ward should have a separate toilet with proper cleaning and supplies.

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- Ensure regular cleaning and proper disinfection of common areas, and adequate hand hygiene by patients, visitors and care givers.
- Visitors to the isolation facility should be restricted /disallowed. For unavoidable
 entries, they should use PPE according to the hospital guidance, and should be
 instructed on its proper use and in hand hygiene practices prior to entry into the
 isolation room/area.
- Ensure that visitors consult the health-care worker in charge (who is also responsible for keeping a visitor record) before being allowed into the isolation areas. Keep a roster of all staff working in the isolation areas, for possible outbreak investigation and contact tracing.
- Doctors, nurses and paramedics posted to isolation facility need to be dedicated and not allowed to work in other patient-care areas.
- All health staff involved in patient care should be well trained in the use of PPE.
- Set up a telephone or other method of communication in the isolation room or area to enable patients, family members or visitors to communicate with healthcare workers. This may reduce the number of times the workers need to don PPE to enter the room or area.
- 2. दिशा—निर्देश को अनुसार COVID-19 सम्पुष्ट रोगियों में से 15 प्रतिशत रोगियों में निमोनिया विकसित होने की संभावना रहती है, जिसमें से 5 प्रतिशत को Ventilator की आवश्यकता पड़ती है। अतः सभी जिला अस्पताल के Intensive Care Unit (ICU) में चिकित्सक एवं स्वास्थ्य कर्मी एवं क्रियाशील Ventilator तथा Oxygen आदि के साथ आवश्यक व्यवस्था सुनिश्चित किया जाए।
- 3. इस आपात स्थिति के मद्देनजर सभी जिला अस्पताल में एम्बुलेंस की पर्याप्त संख्या में समुचित व्यवस्था के साथ उपलब्धता सुनिश्चित करेंगे। इसके लिए भारत सरकार से प्राप्त "Standard Operating Procedure for Transporting a suspect/confirmed case of COVID-19" का अनुपालन सुनिश्चित किया जाये (छायाप्रति संलग्न)।
- 4. सभी जिला अन्यताल द्वारा COVID-19 से संबंधित जाँच हेतु Lab Technician को प्रशिक्षण प्रदान किया जाए, तदानुसार उन्हें VTM एवं PPE Kit आदि आपूर्ति की जाए, तािक संदिग्ध मरीजों का नमूना यथाशीघ्र संग्रह कर संबंधित जाँच केन्द्र में पहुँचाया जा सके।

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- 5. COVID-19 के नमूना जाँच से संबंधित राज्य स्वास्थ्य समिति, बिहार के पत्रांक 9700 दिनांक 28.03.2020 का अनुसरण कर ससमय शीत श्रृंखला बनाये रखते हुए नमूना जाँच हेतु Tag किये गये केन्द्रों पर पहुँचाना सुनिश्चित किया जाए।
- 6. जिला स्तर पर COVID-19 से संबंधित सभी प्रतिवेदनों के लिए (जैसे— IDSP डेली रिपोर्ट, Isolation facility/Ward, Quarantine Centre इत्यादि) जिला स्तर पर नोडल पदाधिकारी नामित किया जाए जो प्रतिदेदन राज्य स्वास्थ्य समिति, बिहार को प्रतिवेदन उपलब्ध कराने हेतु जिम्मेवार होंगे। उनके साथ dedicated डाटा इंट्री ऑपरेटर प्रतिनियुक्त किया जाए। प्रतिवेदन उपलब्ध कराने वाले नोडल ऑफिसर का नाम, पदनाम, दूरभाष तथा ईमेल इत्यादि की सूचना 24 घंटे के अंदर उपलब्ध कराया जाए।

अतः उपर्युक्त निदेशों का दृढ़ता से अनुपालन करते हुये संलग्न प्रपत्र में प्रतिवेदन प्रत्येक दिन संध्या 04:00 बजे तक ईमेल hwcbihar@gmail.com एवं spmnuhmbihar@gmail.com पर उपलब्ध कराना सुनिश्चित किया जाये।

इसे अतिआवश्यक समझा जाय।

अनुलग्नकः यथोक्त।

वेश्वासभाजन्,

(मनोज कुमार)





- 5. COVID-19 के नमूना जाँच से संबंधित राज्य स्वास्थ्य समिति, बिहार के पत्रांक 9700 दिनांक 28.03.2020 का अनुसरण कर ससमय शीत श्रृंखला बनाये रखते हुए नमूना जाँच हेतु Tag किये गये केन्द्रों पर पहुँचा ना सुनिश्चित किया जाए।
- 6. जिला स्तर पर COVID-19 से संबंधित सभी प्रतिवेदनों के लिए (जैसे— IDSP डेली रिपोर्ट, Isolation facility/VVard, Quarantine Centre इत्यादि) जिला स्तर पर नोडल पदाधिकारी नामित किया जाए जो प्रतिदिन राज्य स्वास्थ्य समिति, बिहार को प्रतिवेदन उपलब्ध कराने हेतु जिम्मेवार होंगे। उनके साथ dedicated डाटा इंट्री ऑपरेटर प्रतिनियुक्त किया जाए। प्रतिवेदन उपलब्ध कराने वाले नोडल ऑफिसर का नाम, पदनाम, दूरभाष तथा ईमेल इत्यादि की सूचना 24 घंटे के अंदर उपलब्ध कराया जाए।

अतः उपर्युक्त िनेदेशों का दृढ़ता से अनुपालन करते हुये संलग्न प्रपत्र में प्रतिवेदन प्रत्येक दिन संध्या 04:00 बजे तद्क ईमेल hwcbihar@gmail.com एवं spmnuhmbihar@gmail.com पर उपलब्ध कराना सुनिश्चित किया जाये।

इसे अतिआवश्यक समझा जाय।

विश्वासभाजन,

अनुलग्नकः यथोक्त।

ह०/-

(मनोज कुमार)

ज्ञापांक : 9796

पटना, दिनांक : <u>30/3/2020</u>

प्रतिलिपि : प्रधान सचिव / सचिव, स्वास्थ्य विभाग, बिहार, पटना को कृपया सूचनार्थ।

प्रतिलिपि : सभी प्रमंडलीय आयुक्त, बिहार को कृपया सूचनार्थ।

प्रतिलिपिः प्रशासी पदाधिकारी/सभी उप सचिव/राज्य कार्यक्रम पदाधिकारी, HWC/राज्य कार्यक्रम पदाधिकारी, PC&PNDT/राज्य कार्यक्रम प्रबंधक, NUHM, राज्य स्वास्थ्य समिति, बिहार को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

प्रतिलिपिः प्रभारी राज्य सर्वेक्षण पदाधिकारी, राज्य स्वास्थ्य समिति, बिहार को सूचनार्थ एवं आवश्यक कार्र्वाई हेतु प्रेषित।

प्रतिलिपिः अपर मुख्य चिकित्सा पदाधिकारी/सभी उपाधीक्षक/सभी जिला सर्वेक्षण पदाधिकारी/सभी जिला कार्यक्रम पदाधिकारी/जिला कार्यक्रम प्रबंधक को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

> कार्यपालक निदेशक-सह-अपर सचिव, स्वास्थ्य

> > Page 4 of 4



राज्य के चिकित्सा महाविद्यालय अस्पताल, जिला अस्पताल एवं अनुमण्डलीय/रेफरल

| क | (| | No. of | Isolation Centre में प्रतिनिय्क्त नोडल पदाधिकारी | क्त नोडल पदाधिकारी | का नाम, पदनाम |
|----------|-------------|--|--------|--|--------------------|---------------|
| H.o. | जिला का नाम | Isolation Ward का पता | Beds | Name | Designation | Mob No. |
| | | Sadar Hospital | 6 | Dr. Jetendar Prasad | Suptd. | 9546956133 |
| _ | Агапа | SDH Forbisganj | 2 | Dr. Ashutosh Kumar | DS | 7542840990 |
| 2 | Arwal | DH Arwal | 10 | Dr. Raman Aryabhatt | МО | 9939920018 |
| 6 | Aurangabad | Sadar Hospital, Aurangabad | 35 | Dr. Sunil Kumar | DS | 9470003054 |
| 4 | Banka | DH Banka | 50 | Dr. Anjani Kumar | МО | 9470003075 |
| rc. | Begusatai | HQ | 45 | Dr. Arun Kumar | МО | 9430845562 |
| 1,7 | | Nasha Mukti Kendra Sadar Hospital Compex Ghantaghar, Bhaglapur | 10 | Dr. A.K Mandal | DS, Bhagalpur | 8709895007 |
| 9 | Bhagalpur | SDH Kahalgaon | - 30 | | Dy Suptt. | 9470003129 |
| * | • | SDH Naugachiya | 30 | | Dy Suptt. | 9431001695 |
| | | JLNMCH | 100 | | DS | 9431874400 |
| | | DH ARA | 10 | Dr. Satish Kumar Sinha | SQ | 9470003156 |
| , | Bhojpur | SDH Jagdishpur | 15 | Dr. C. V. Narayan | DS . | 7903653342 |
| ۰ | Russon | DH Buxar | 14 | Dr. D. N. Pandey | DS | 9470003162 |
| • | Dava | SDH Dumraon | 8 | Dr. Anil Bhatt | DS | 8709831678 |

| | | | No of | Isolation Centre में प्रतिनियुक्त | क्त नोडल पदाधिकारी | का नाम, पदनाम |
|-------------|----------------|----------------------------|-------|-----------------------------------|--------------------|---------------|
| | जिला का नाम | Isolation Ward का पता | Beds | Name | Designation | Mob No. |
| 1. 1 | Darbhanga | Nursing Hostel DMCH | 112 | Dr. Baleshwar Sagar | DS, DMCH | 9470003253 |
| | | DH East Champaran | 16 | | DS | 9470003179 |
| | | SDH Pakaridayal | 5 | Dr. Veena Kumari Das | МО | 9470003183 |
| | | RH Dhaka | . 5 | Dr. S. K. Gupta | МО | 9470003182 |
| | East Champaran | RH Areraj | 5 | Dr. Niraj Kumar | МО | 9470003190 |
| | | RH Chakai | S | Dr. Chandan Kumar | МО | 9835474249 |
| | | Dunckan Hospital, Motihari | 9 | | | |
| | | DH Gava | 20 | Dr. Shivnarayan Singh | ACMO | 9470003296 |
| | | SDH Tekari | 20 | | DS | 9470003279 |
| | * | SDH Sherghati | 5 | | DS | 9470003276 |
| | Gaya | CHC Mahkar | . 25 | Dr. Shivnarayan Singh | ACMO | 9470003296 |
| | | ANMCH. Gava | 100 | | DS | 9470003300 |
| | | HQ HO | 11 | Dr. P. C. Prabhat | DS | 9470003311 |
| | | SDH Hathua | 5 | Dr. Ramesh Ram | ĎS | 9470003318 |
| | Gonaloani | RH Bhore | 2 | Dr. Khawar Imam | MOIC | 9470003310 |
| | (mgmJo) | RH Kateya | S | Dr. Bhagwanlal Singh | MOIC | 9470003307 |
| to the same | | RH Phulwariva | \$ | Dr. Rajeev Ranjan Kumar | MOIC | 9470003309 |

| राउ | य के विकित्स गताल में Isola | राज्य के चिकित्सा महाविद्यालय अस्पताल, जिला अस्पताल एवं अनुमण्डलीय/रेफरल अस्पताल में Isolation Bed की संख्या एवं उसके नोडल पदाधिकारी का नाम, पदनाम एवं मोबाईल नम्बर से संबंधित प्रतिवेदन | गाल, एवं प् | पताल, जिला अस्पताल एवं ग एवं उसके नोडल पदांधि नम्बर से संबंधित प्रतिवेदन | अनुमण्डलीय कारी का नाम | । / रेफरल न, पदनाम |
|-------|--------------------------------|--|----------------|--|---------------------------|-----------------------|
| | | | Jo 05 | No of Isolation Centre में प्रतिनियुक्त नोडल पदाधिकारी का नाम, पदनाम | क्त नोडल पदाधिकारी | का नाम, पदनाम |
| ъ. | जिला का नाम | Isolation Ward का पता | Rode | Name | Designation | Mob No. |
| 祖の | | | can . | r. CNI Alemand | DS Sadar Hospital | 9470003349 |
| | | DH Jamui | 5 | Dr. SN Anamad | Too one | |
| 13 | Jamui | RH Jhaiha | 5 | | | |
| | | orden Homital Ichanahad | 17 | Dr. Vinay Krishna Sinha | DIO | 9470003336 |
| | | Sadar nospitat, schanges | | 24:10 | DIO | 9470003336 |
| 70000 | | DU Chosi | 4 | Dr. Vinay Krishna Sinna | DIO. | |

| | | | NO. 0I | Isolation Centre 1 Amil 13-11 | | 1 |
|--------------|-------------|--|--------|-------------------------------|---|------------|
| . | जिला का नाम | Isolation Ward का पता | Reds | Name | Designation | Mob No. |
| स० | | | 2 | Dr SN Ahamad | DS Sadar Hospital | 9470003349 |
| | | DH Jamui | 0 | * | | |
| 13 | Jamui | RH Jhajha | 5 | | | |
| | | Sadar Hospital, Jehanabad | 17 | Dr. Vinay Krishna Sinha | DIO | 9470003336 |
| | Totomoto | RH. Ghosi | 4 | Dr. Vinay Krishna Sinha | DIO | 9470003336 |
| 4 1 | јепанарач | RH Makhdumpur | 5 | Dr. Vinay Krishna Sinha | DIO | 9470003336 |
| | | DII Voissus | 20 | Dr. Vinod | DS | 9470003362 |
| 15 | Kaimur | SDH. Mohaniva | 2 | Dr. Rajat | DS | 9470003361 |
| + | Vatihat | Katihar Medical College | 100 | Dr. Arvind Prasad Shahi | МО | 9470003366 |
| 9 1 | Maunian | Sadar Hospital Khagaria | 20 | Dr. Yogendra Singh Prayasi | DS Khagaria | 9431689373 |
| 71 | Miagaila | Sadar Hospital, Kishanganj | 10 | Dr. Anwar Hussain | Deputy Supritendent, Sadar Hospital, | 9470003402 |
| 81 | Kishanganj | MGM Medical College & Hosnital, Kishangani | 100 | Dr. Ashok Kumar Ghosh | Medical Supritendent | 9102315663 |
| | Labhicatai | Sadar Hospital | 16 | Dr. Bipin Kumar | MO Sadar Hospital | 9507209040 |
| 6 | Laningara | Sadar Hospital Madhepura | 10 | Dr. D.P Gupta | SQ | 9431685789 |
| 50 | Madhepura | Govt. Medical College | 107 | | | |
| | | Sadar Hospital Madhubani | 9 | Dr. Sunil Kumar | ÀСМО | 9470003433 |
| | | SDH Jaynagar | S | Dr. Kumar Ronit | MOIC | 9470003436 |

| ा अस्पताल एवं अनुमण्डलीय/रेफरल | ल पदाधिकारी का नाम, पदनाम | प्रतिवेदन |
|---|---|---------------------------------------|
| राज्य के चिकित्सा महाविद्यालय अस्पताल, जिला अस् | अस्पताल में Isolation Bed की संख्या एवं उसके नोडल पदाधिकारी | एवं मोबाईल नम्बर से संबंधित प्रतिवेदन |

| F | | | No. of | Isolation Centre में प्रतिनियुक्त नोडल पदाधिकारी | प्त नोडल पदाधिकारी | का नाम, पदनाम |
|-----------------|-------------|---------------------------------|--------|--|--------------------|---------------|
| ਸ. 3 | जिला का नाम | Isolation Ward का पता | Beds | Name | Designation | Mob No. |
| 2 | | SDH Jhnaiharpur | 5 | Dr. Mukesh kumar | MOIC | 9470003455 |
| | | SDH Phulparas | 5 | Dr. Ram Naresh Chaudhary | MOIC | 9431627857 |
| | | Sadar Hospital Munger | 9 | Dr. Niranjan Kumar | DS | 9470003456 |
| 22 | Munger | Sub Divisional Hospital Tarapur | 4 | Dr. B.N. Singh | DS | 9470003464 |
| | | Sadar Hospital, Muzaffarpur | 15 | Dr. Vinay Kumar Sharma | ACMO | 9470003495 |
| 23 | Muzaffarpur | SKMCH | 120 | Dr. P. C. Verma | Dy. Suptd. | 9470003474 |
| | | Sadar Hospital, Bihar Sharif | 10 | | DS | 9470003506 |
| . 24 | Nalanda | VIIMS, Pawapuri Nalanda | 96 | | | |
| 7 | | DH Nawada | 48 | Dr. Ashok Kumar | DIO | 9470003531 |
| 25 | Nawada | SDH Rajauli | 40 | | DS | 9431270464 |
| | | PMCH | 100 | | | |
| × · | | NMCH | 102 | | | |
| ļ, | | AIIMS | 12 | | | |
| | | IGIMS | 24 | | * | |
| 26 | Patna | DH - GGS, Patna City | 10 | | DS | 9470003583 |
| | | SDH Danapur | 24 | Dr. Ashok Kumar Singh | МО | 9470003588 |
| | | SDH Masaurhi | 30 | Dr. Harish Chandra Hari | MO | 9431084310 |

| जेला अस्पताल एवं अनुमण्डलीय/रेफरल | सके नोडल पदाधिकारी का नाम, पदनाम | संबंधित प्रतिवेदन |
|---|----------------------------------|-------------------|
| राज्य के चिकित्सा महाविद्यालय अस्पताल, जिला अस्पताल ए | on Bed की संख्या एवं उसके | नम्बर से संबंधित |

| | χ | | | |
|--|-----------------------|-----------------------------------|--|--------------------------|
| 5 | एवं मोबाईल नम्बर | स सब्धित प्रातवदन | | |
| | No. of | Isolation Centre में प्रतिनियुक्त | नोडल पदाधिकारी | का नाम, पदनाम |
| Isolation Ward का पत | | Name | Designation | Mob No. |
| SDH Paliganj | anj 4 | Dr. Abha Kumari | МО | 9470003602 |
| Sadar Hospital, Purnea | Purnea 45 | Dr. Niranjan Kumar Jha | MO Sadar Hospital Purnea | 9199714779 |
| Sub Divisional Hospital Dhamdaha. | lospital 8 | Dr. J.P. Pandey | MOIC | 9470003622 7739649836 |
| Sub Divisional Hospital Banmankhi. | Iospital 8 ni. | Dr. Prince Kumar Suman | MOIC | 9470003629 |
| Sadar Hospital Sasaram | Sasaram 6 | Dr. K.N. Tiwary | DS | 9470003656 |
| Narayan Medical College & Hospital, Jamuhar | College & 50 | DR. D.K. Raman | Supretendent | 9431015246 |
| Sadar Hospital Saharsa,Near Naya Bazar - 852201 | arsa,Near 50 52201 | Dr. Rabindra Mohan | Dist. Suprintendent (cum co-coordinator) | 9470003664 |
| Koshi Medical College, Saharsa | ge, Saharsa 50 | | | |
| DH Hospital | ital 10 | | DS | 9430903681 |
| SDH Rosera | era 5 | Dr. Rana Vishwa Vijay Singh | DS | 9470003682 |
| SDH Dalsinghsarai | ghsarai 8 | Dr. Arun Kumar | DS | 9470003683 |
| SDH Pusa | 10 10 | Dr. Arun Kumar Mahto | SQ. | 9470003684 |
| Sadar Hospital Chapra | I Chapra 15 | Dr. Ram Iqbal Singh | DS | 9470003711 |
| Sadar Hospital, Sheikhpura | | Dr. Vinay Kumar | MO | 8405915878 |
| Codon Hosmitel Checher | Sheikhpura 10 | | | 7517007157 |

| नीय / रेफरल | । का नाम, पदनाम | |
|---|---|-------------|
| n अस्पताल एवं अनुमण्डलीय/रे | धकारी | । प्रतिवेदन |
| गताल, जिला अस्प | । एवं उसके नोड | से संबंधित |
| महाविद्यालय अस्प | on Bed की संख्य | एवं मोबाईल |
| राज्य के चिकित्सा महाविद्यालय अस्पताल, जिला | अस्पताल में Isolation Bed की संख्या एवं | |

| - | | , | No. of | Isolation Centre में प्रतिनियुक्त नोडल पदाधिकारी का नाम, पदनाम | म्त नोडल पदाधिकारी व | का नाम, पदना |
|------|----------------|---------------------------------|--------|--|----------------------|--------------|
| H. A | जिला का नाम | Isolation Ward का पता | Beds | Name | Designation | Mob No. |
| | Sitamarhi | Sadar Hospital | 9 | DR A. ANJUM | MOIC | 9470003754 |
| | | Sadar Hospital | 9 | Dr. M. K. Alam (Incharge) | DS . | 9470003785 |
| 35 | Siwan | SDH Maharajganj | 50 | Dr. Sujata Sumbrai (Incharge) | DS | 9006269608 |
| | , | L. N. S. DH, Birpur | 53 | Dr. Kumar Birendra | Dy. Supt. | 9431478314 |
| 36 | Supaul | SDH Trivenigani | 30 | Dr. R. P. Sinha | Dy. Supt. | 9470003801 |
| | | Sadar Hospital, Hajipur-Hajipur | 10 | Dr. Kemeshwar Mandal | DS | 9470003811 |
| 37 | Vaishali | Vaishali SDH Mahua-Vaishali | 2 | Dr. Satyendra Kumar | DS | 9473072010 |
| 38 | West Champaran | Govt. Medical College, Bettiah | 100 | Dr. Vijay Kumar | HOD, Microbiology | 9430035358 |
| | Gr | Grand Total | 2358 | | | |





COVID -19 Outbreak Guidelines for Setting up Isolation Facility/Ward

National Centre for Disease Control
22 Sham Nath Marg, Delhi 110054
Directorate General of Health Services
Ministry of Health and Family Welfare

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WHO has declared the COVID-19 (SARS-CoV-2) outbreak as Public Health Emergency of international concern and has raised the risk assessment of China, Regional Level and Global Level to Very High and "all countries should be prepared for containment, including active surveillance, early detection, isolation and case management, contact tracing and prevention of onward spread of SARS-CoV-2 infection. Among the factors affecting cluster containment, Isolation of cases and quarantine of contacts is the mainstay of outbreak containment.

Scope of document: This guidance document has been prepared to establish an isolation facility at the level of district hospital, a secondary health care facility.

A. Quarantine and isolation

Quarantine and Isolation are important mainstay of cluster containment. These measures help by breaking the chain of transmission in the community.

Quarantine

Quarantine refers to separation of individuals who are not yet ill but have been exposed to COVID-19 and therefore have a potential to become ill. There will be voluntary home quarantine of contacts of suspect /confirmed cases. The guideline on home quarantine available on the website of the Ministry provides detail guidance on home quarantine.

Isolation refers to separation of individuals who are ill and suspected or confirmed of COVID-19. All suspect cases detected in the containment/buffer zones (till a diagnosis is made), will be hospitalized and kept in isolation in a designated facility till such time they are tested negative. Persons testing positive for COVID-19 will remain to be hospitalized till such time 2 of their samples are tested negative as per MoHFW's discharge policy. About 15% of the patients are likely to develop pneumonia, 5 % of whom requires ventilator management.

Hence dedicated Intensive care beds need to be identified earmarked. Some among them may progress to multi organ failure and hence critical care facility/ dialysis facility/ and Salvage therapy [Extra Corporeal Membrane Oxygenator (ECMO)] facility for managing the respiratory/renal complications/ multi-organ failure shall be required. If such facilities are not available in the containment zone, nearest tertiary care facility in Government / private sector needs to be identified, that becomes a part of the micro-plan.

There are various modalities of isolating a patient. Ideally, patients can be isolated in individual isolation rooms or negative pressure rooms with 12 or more air-changes per hour.

In resource constrained settings, all positive COVID-19 cases can be cohorted in a ward with good ventilation. Similarly, all suspect cases should also be cohorted in a separate

(56

ward. However under no circumstances these cases should be mixed up. A minimum distance of 1 meter needs to be maintained between adjacent beds. All such patients need to wear a triple layer surgical mask at all times.

Nosocomial infection in fellow patients and attending healthcare personnel are well documented in the current COVID-19 outbreak as well. There shall be strict adherence to Infection prevention control practices in all health facilities. IPC committees would be formed (if not already in place) with the mandate to ensure that all healthcare personnel are well aware of IPC practices and suitable arrangements for requisite PPE and other logistic (hand sanitizer, soap, water etc.) are in place. The designated hospitals will ensure that all healthcare staff is trained in washing of hands, respiratory etiquettes, donning/doffing & proper disposal of PPEs and bio-medical waste management.

At all times doctors, nurses and para-medics working in the clinical areas will wear three layered surgical mask and gloves. The medical personnel working in isolation and critical care facilities will wear full complement of PPE (including N95 masks).

The support staff engaged in cleaning and disinfection will also wear full complement of PPE. Environmental cleaning should be done twice daily and consist of damp dusting and floor mopping with Lysol or other phenolic disinfectants and cleaning of surfaces with sodium hypochlorite solution. Detailed guidelines available on MoHFW's website may be followed.

B. Setting up isolation facility/ward

An isolation facility aims to control the airflow in the room so that the number of airborne infectious particles is reduced to a level that ensures cross-infection of other people within a healthcare facility is highly unlikely.

- > At State level, a minimum of **50** bed isolation ward should be established.
- At District level, a minimum of 10 bed isolation ward should be established.
 - Post signages on the door indicating that the space is an isolation area.
 - Remove all non-essential furniture and ensure that the remaining furniture is easy to clean, and does not conceal or retain dirt or moisture within or around it.
 - COVID-19 patients should be housed in single rooms.
 - However, if sufficient single rooms are not available, beds could be put with a spatial separation of at least 1 meter (3 feet) from one another.
 - To create a 10 bed facility, a minimum space of 2000 sq. feet area clearly segregated from other patientcare areas is required.
- Preferably the isolation ward should have a separate entry/exit and should not be co-located with post-surgical wards/dialysis unit/SNCU/labour room etc.
 - It should be in a segregated area which is not frequented by outsiders.
 - The access to isolation ward should be through dedicated lift/guarded stairs.

- There should be double door entry with changing room and nursing station.
 Enough PPE should be available in the changing room with waste disposal bins to collect used PPEs. Used PPEs should be disposed as per the BMWM guidelines.
- Stock the PPE supply and linen outside the isolation room or area (e.g. in the change room). Setup a trolley outside the door to hold PPE. A checklist may be useful to ensure that all equipment is available.
- Place appropriate waste bags in a bin. If possible, use a touch-free bin. Ensure that used (i.e. dirty) bins remain inside the isolation rooms.
- Place a puncture-proof container for sharps disposal inside the isolation room/area and bio-medical waste should be managed as per the BMWM guidelines.
- Keep the patient's personal belongings to a minimum. Keep water pitchers and cups, tissue wipes, and all items necessary for attending to personal hygiene within the patient's reach.
- Non-critical patient-care equipment (e.g. stethoscope, thermometer, blood pressure cuff, and sphygmomanometer) should be dedicated for the patient, if possible. Any patient-care equipment that is required for use by other patients should be thoroughly cleaned and disinfected before use.
- Place an appropriate container with a lid outside the door for equipment that requires disinfection or sterilization.
- Ensure that appropriate hand washing facilities and hand-hygiene supplies are available. Stock the sink area with suitable supplies for hand washing, and with alcohol-based hand rub, near the point of care and the room door.
- Ensure adequate room ventilation. If room is air-conditioned, ensure 12 air changes/hour and filtering of exhaust air. A negative pressure in isolation rooms is desirable for patients requiring aerosolization procedures (intubation, suction nebulisation). These rooms may have standalone air-conditioning. These areas should not be a part of the central air-conditioning.
- If air-conditioning is not available negative pressure could also be created through putting up 3-4 exhaust fans driving air out of the room.
 - In district hospital, where there is sufficient space, natural ventilation may be
 followed. Such isolation facility should have large windows on opposite walls of the
 room allowing a natural unidirectional flow and air changes. The principle of
 natural ventilation is to allow and enhance the flow of outdoor air by natural forces
 such as wind and thermal buoyancy forces from one opening to another to achieve
 the desirable air change per hour.
 - The isolation ward should have a separate toilet with proper cleaning and supplies.
 - Avoid sharing of equipment, but if unavoidable, ensure that reusable equipment is appropriately disinfected between patients.

- Ensure regular cleaning and proper disinfection of common areas, and adequate hand hygiene by patients, visitors and care givers. Keep adequate equipment required for cleaning or disinfection inside the isolation room or area, and ensure scrupulous daily cleaning of the isolation room or area.
- Visitors to the isolation facility should be restricted /disallowed. For unavoidable entries, they should use PPE according to the hospital guidance, and should be instructed on its proper use and in hand hygiene practices prior to entry into the isolation room/area.
- Ensure that visitors consult the health-care worker in charge (who is also responsible for keeping a visitor record) before being allowed into the isolation areas. Keep a roster of all staff working in the isolation areas, for possible outbreak investigation and contact tracing.
- Doctors, nurses and paramedics posted to isolation facility need to be dedicated and not allowed to work in other patient-care areas.
- Consider having designated portable X-ray and portable ultrasound equipment.
- Corridors with frequent patient transport should be well-ventilated.
- All health staff involved in patient care should be well trained in the use of PPE.
- Set up a telephone or other method of communication in the isolation room or area to enable patients, family members or visitors to communicate with health-care workers. This may reduce the number of times the workers need to don PPE to enter the room or area.

C. Checklist for isolation rooms

- Eye protection (visor or goggles)
- Face shield (provides eye, nose and mouth protection)
- Gloves
- reusable vinyl or rubber gloves for environmental cleaning
- latex single-use gloves for clinical care
- Hair covers
- Particulate respirators (N95, FFP2, or equivalent)
- Medical (surgical or procedure) masks
- Gowns and aprons
- single-use long-sleeved fluid-resistant or reusable non-fluid-resistant gowns
- plastic aprons (for use over non-fluid-resistant gowns if splashing is anticipated and if fluid-resistant gowns are not available)
- Alcohol-based hand rub
- Plain soap (liquid if possible, for washing hands in clean water)
- Clean single-use towels (e.g. paper towels)
- Sharps containers

- disinfectant environmental cleaning and for detergent Appropriate for disinfection of surfaces, instruments or equipment
- Large plastic bags
- Appropriate clinical waste bags
- Linen bags
- Collection container for used equipment
- Standard protocols for hand hygiene, sample collection and BMW displayed clearly
- Standard Clinical management protocols

D. Wearing and removing Personal Protective Equipment (PPE)

Before entering the isolation room or area:

- Collect all equipment needed;
- Perform hand hygiene with an alcohol-based hand rub (preferably when hands are not visibly soiled) or soap and water;
- Put on PPE in the order that ensures adequate placement of PPE items and prevent self-contamination and self-inoculation while using and taking off PPE; an example of the order in which to don PPE when all PPE items are needed is hand hygiene, gown, mask or respirator, eye protection and gloves

Leaving the isolation room or area

- Either remove PPE in the anteroom or, if there is no anteroom, make sure that the PPE will not contaminate either the environment outside the isolation room or
- Remove PPE in a manner that prevents self-contamination or self-inoculation with contaminated PPE or hands. General principles are:
 - remove the most contaminated PPE items first;
 - perform hand hygiene immediately after removing gloves;
 - remove the mask or particulate respirator last (by grasping the ties and discarding in a rubbish bin);
 - discard disposable items in a closed rubbish bin;
 - put reusable items in a dry (e.g. without any disinfectant solution) closed container; an example of the order in which to take off PPE when all PPE items are needed is gloves (if the gown is disposable, gloves can be peeled off together with gown upon removal), hand hygiene, gown, eye protection, mask or respirator, and hand hygiene
 - Perform hand hygiene with an alcohol-based hand rub (preferably) or soap and water whenever un-gloved hands touch contaminated PPE items.

E. Transport of Infectious Patients

It is recommended that transport of infectious patients is limited to movement considered medically essential by the clinicians, e.g. for diagnostic or treatment purposes. Where infectious patients are required to be transported to other units within the hospital or outside the following precautions may be implemented:

- Infected or colonised areas of the patient's body are covered: For contact isolation
 this may include a gown, sheets or dressings to surface wounds; these patients are
 transferred to a Standard Pressure or Protective Environment Isolation room For
 respiratory isolation the patient is dressed in a mask, gown and covered in sheets;
 these patients are accommodated in a Negative Pressure Isolation Room For
 quarantine isolation the patient may be transported in a fully enclosed transport
 cell or isolator with a filtered air supply and exhaust; these patients are
 accommodated in a high level quarantine isolation suite.
- The transport personnel remove existing PPE, cleanse hands and transport the
 patient on a wheelchair, bed or trolley, applying clean PPE to transport the patients
 and when handling the patient at the destination. Gown-up and gown-down rooms
 located at the entry to a Unit will assist the staff to enter and exit the facility
 according to the strict infection control protocols required, thereby reducing the
 risk of contamination
- The destination unit should be contacted and notified prior to the transfer to ensure suitable accommodation on arrival.
- It is preferred that the patient is transported through staff and service corridors, not public access corridors During planning stages, design can assist transfer of infectious patients by providing service corridors and strategically placed lifts, capable of separation from other lifts. The nominated lift may be isolated from public and staff transit through access control measures and cleaned following transit of the infectious patient.
- Design may also incorporate a designated floor for horizontal bed transfers of infectious patients away from busy clinical areas. The designated floor may be located at mid-level in the hospital
- A combination of nominated lifts, corridors and a bed transfer floor would assist in the movement of infectious patients through the hospital and minimise the risk of spread of infection.

Annexure I

Checklist for isolation rooms

- Eye protection (visor or goggles)
- · Face shield (provides eye, nose and mouth protection)
- Gloves
- · reusable vinyl or rubber gloves for environmental cleaning
- · latex single-use gloves for clinical care
- Hair covers
- Particulate respirators (N95, FFP2, or equivalent)
- · Medical (surgical or procedure) masks
- Gowns and aprons
- · single-use long-sleeved fluid-resistant or reusable non-fluid-resistant gowns
- plastic aprons (for use over non-fluid-resistant gowns if splashing is anticipated and if fluid-resistant gowns are not available)
- Alcohol-based hand rub
- Plain soap (liquid if possible, for washing hands in clean water)
- Clean single-use towels (e.g. paper towels)
- Sharps containers
- Appropriate detergent for environmental cleaning and disinfectant for disinfection of surfaces, instruments or equipment
- Large plastic bags
- Appropriate clinical waste bags
- · Linen bags
- · Collection container for used equipment
- Standard IEC
- Standard protocols for hand hygiene, sample collection and BMW displayed clearly
- Standard Clinical management protocols

<u>Annexure II</u>

Hospital Preparedness & Isolation Facility Assessment Checklist - COVID19

I. GENERAL INFORMATION

| □Public □Private | | | | | | |
|---|--|---|---|--|--|--|
| □Primary □Seconda | ry Tertiary | | | | | |
| □PHC □UPHC □CHC □Taluk/Sub-District Hospital □ District Hospital □General Hospital □Medical College Hospital □ Multi-Speciality Hospital □Nursing Home □ Dispensary □Clinic | | | | | | |
| | | | | | | |
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| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | - | | | | |
| | | | | | | |
| Doctors - MBBS | | | | | | |
| Doctors- AYUSH | | | | | | |
| | | | | | | |
| Non-Clinical specialists other than Microbiologist | | | | | | |
| Microbiologists | | | | | | |
| Intensivists # | Pulmonologist # | Int | Pulm | | | |
| Senior Resident # | | SR | JR | | | |
| | The state of the s | | | | | |
| *************************************** | | | | | | |
| 11111111 | | | | | | |
| | □ Primary □ Secondal □ PHC □ UPHC □ CHe □ District Hospital □ GHospital □ Multi-Speciality Hos□ □ Clinic □ Doctors - MBBS □ Doctors - AYUSH Clinical Specialists oth Intensivist/Pulmonole Non-Clinical specialist Microbiologists | □ Primary □ Secondary □ Tertiary □ PHC □ UPHC □ CHC □ Taluk/Sub-District Hospital □ District Hospital □ General Hospital □ Medical College Hospital □ Multi-Speciality Hospital □ Nursing Home □ Dispical □ Clinic □ Clinic □ Doctors - MBBS □ Doctors- AYUSH □ Clinical Specialists other than Intensivist/Pulmonologist □ Non-Clinical specialists other than Microbiologists □ Microbiologists □ Intensivists # □ Pulmonologist # □ Senior Resident # □ Junior Resident # □ Interns □ Nurses | □ Primary □ Secondary □ Tertiary □ PHC □ UPHC □ CHC □ Taluk/Sub-District Hospital □ District Hospital □ General Hospital □ Medical College Hospital □ Multi-Speciality Hospital □ Nursing Home □ Dispensar □ Clinic □ Clinic □ Doctors - MBBS □ Doctors- AYUSH □ Clinical Specialists other than Intensivist/Pulmonologist Non-Clinical specialists other than Microbiologist Microbiologists Intensivists # Pulmonologist # Intensivists # Senior Resident # Junior Resident # SR Interns Nurses | | | |

| | The Property of the second | Pharmacists | | |
|------|--|--|--|---|
| | | Laboratory Technicians | | |
| | | Cleaning staff | | |
| | | Ambluance drivers | | |
| 4. D | oes this HCF have a designated COVID 19 isolation fa | cility | 14 | □Yes□No |
| τ, υ | | 14 CONTROL - 14 CO | o a parincipal | |
| | II. HCF PREPAREDNESS TO MANA | <u>AGE MAJOR EPIDEMIC</u> | CS & PANDEMIC | <u> </u> |
| 5. C | ore Emergency Response / Rapid Response Team for | | ☐Available ☐In progre | |
| | dentified? | | □ Available □ In progr | occ Not |
| | oles and responsibilities of RRT/ERT clearly defined? | | started | 1 |
| 7. 1 | s there a contingency plan for covering for a core tea | m member who is absent? | ☐ Available ☐ In progr started | ess□ Not |
| 8. 1 | Monitoring and managing Health Care Personnel (HCI a) The facility follows the Central/State public heal monitoring and managing HCP with potential fo b) The facility have a process to conduct symptom prior to the start of duty shift for HCP | th policies/procedures for r exposure to COVID-19 | □Yes □No | |
| 9. 1 | Training for Healthcare Personnel (HCP) a) Education and job-specific training to HCP regardi Signs and symptoms of infection Triage procedures including patient placem Safely collect clinical specimen Correct infection control practices and PPE HCP sick leave policies Recommended actions for not using recom How and to whom suspected cases (COVID | ent and filling the CIF use mended PPE -19)should be reported | □Completed □In Prop Started □Completed □In Prop Started □Completed Not Started □Completed Progress□ Not Started □In Progress□ Not St □Completed □In Prop Started □Completed □In Prop Started □Completed □In Prop Started | ogress□ Not □ In Progress ted □ In I □ Complete arted ogress□ Not |
| | ш | <u>. TRIAGE</u> | | |
| 20. | Triage protocols available at the healthcare facility? | | ☐ Available ☐ In progress | ess 🗆 Not |
| 21. | Availability of telemedicine facility as a way to provi direct interaction with the patient | de clinical support without | ☐Available ☐ In progr started | ess 🗆 Not |
| 22 | Is there specific waiting area for people with respira | tory symptoms? | | |
| | Availability of designated ARI/COVID-19 triage area | | ☐ Available ☐ In prog started | ress 🗆 Not |
| | Do they have non-contact Infra-Red thermometer a desk? | | | |
| 25. | Availability of signage directing to triage area and si alert staff if they have symptoms of COVID-19 | gnage to instruct patients to | □Available □In prog started | ress 🗆 Not |
| 26. | Do they have dedicated/single examination rooms i room should satisfy criteria of one patient per room examination) | n Triage area? (Dedicated with door closed for | □Yes □No | |
| | Triage area has signs/alerts about respiratory etique | ette and hand hygiene? | □Yes □No | |
| 27 | I Light gles light alking and it is an interest and its and its interest a | | | |

| 29. Triage staff trained on revised COVID19 case definition and identify suspected | □Yes □No |
|--|---|
| cases ? 30. Screening questionnaire and algorithm for triage available with staff | ☐ Available ☐ In progress ☐ Not started |
| 31. Infrared thermometer available with the triage staff | ☐ Available ☐ In progress ☐ Not started |
| 32. Waste bins and access to cleaning/ disinfection supplies available in Triage area | ☐ Available ☐ In progress ☐ Not started |
| 33. Physical barriers (e.g., glass or plastic screens) at reception areas available to limit close contact between triage staff and potentially infectious patients | ☐ Available ☐ In progress ☐ Not started |
| 34. Does the patient waiting area have cross ventilation | □Yes □No |
| 35. Waiting area cleaned at least twice daily with 0.5% hypochlorite solution (or) 70% alcohol for surfaces that do not tolerate chlorine | □Yes □No |
| Does the hospital have dedicated infrastructure for isolation facility? (If No skip to Section IV) | □Yes □No |
| 37. Type of isolation Facility | ☐Temporary ☐ Permanent |
| IV Isolation Facility | |
| IV Bolddon i domer | |
| 38. Is the isolation facility near OPD/IPD/other crowded area? | □Yes □No |
| 39. Screening rooms identified and available at the isolation area? | ☐ Available ☐ In progress☐ Not started |
| 40. Is there separate entry to the isolation area? | □Yes □No |
| 41. Dedicated space for staff to put on PPE while entering the isolated area | ☐ Available ☐ In progress☐ Not started |
| 42. Is there separate exit for isolation area? | □Yes □No |
| 43. Dedicated space for staff to take off PPE near exit? | □ Available □ In progress□ Not started |
| 44. Isolation facility is separate and has rooms/wards? | □Rooms□Wards |
| 45. Are washrooms available as 1 toilet per 20 persons? | □Yes □No |
| 46. Number of beds in each isolation rooms/wards | <u> </u> |
| 47. Is the distance between two beds in isolation wards/rooms more than 1 meter? | □Yes □No |
| 48. Do the hospital have policy to segregate clinical staff (e.g. nurses) for care of COVID19 cases? | □Yes □No |
| 49. Whether PPEs available and located near point of use? a. Gloves | □Yes □No |
| b. Gowns | □Yes □No |
| c. Face masks | □Yes □No |
| d. 95 respirators | □Yes □No |
| 50. Whether the hospital limits the movement of patients in the isolation facility outside for medically necessary purposes only? | □Yes □No |
| 51. Are the known or suspected COVID19 patients placed on contact and droplet precautions? | □Yes □No |
| 52. If a patient leaves their room for medical purposes, are they provided face mas | k □Yes □No |
| 53. Do staff transporting the patient wear PPE? | □Yes □No |
| 54. While transporting patients are specific routes used to minimize contact with other patients and staff? | □Yes □No |
| 55. For a patient on Airborne Precautions, air pressure is monitored daily with visual indicators (e.g., smoke tubes, flutter strips), regardless of the presence of differential pressure sensing devices (e.g., manometers): | ☐Yes ☐No f |

| 2000 | Are these isolation rooms/wards satisfying the criteria of negative pressure class N? (Applicable if an aerosol generating procedure is performed) | □Yes □No |
|---|---|---|
| 57. | Is there Provision food in the isolation area? | ☐ Available ☐ In progress☐ Not started |
| 58. | Policy for leftover food waste management? | ☐ Available ☐ In progress☐ Not started |
| 59. | Is there an ICU facility attached to isolation area? | □Yes □No |
| | Availability of cross ventilation | □Yes □No |
| | Is there any designated area for sample collection? | □Yes □No |
| 62. | Are they following standard precautions and PPE while taking sample? | □Yes □No |
| _ | Does the facility have a written policy for sample collection and transport? | □Yes □No |
| - | Are these sample transported in triple packing? | □Yes □No |
| | Does the transportation package contain IATA DG code (UN3373)? | □Yes □No |
| _ | Are they following standard precautions while transporting the sample? | □Yes □No |
| | Are the floors of isolation facility suitable for moping? | □Yes □No |
| - | Is drinking water available at isolation area? | □Yes □No |
| OF THE | Availability of management protocols for COVID19 | □ Available □ In progress□ Not started |
| 70. | Is rotation roster of duty shift for staff posted at isolation facility | ☐ Available ☐ In progress☐ Not started |
| 71. | Is there any protocol for limiting the entry of visitors at isolation area? | ☐ Available ☐ In progress☐ Not started |
| | Availability of consents Therman store DD assessment with a dula O Dedication | |
| 72. | Availability of separate Thermometers BP apparatus with adult & Pediatric cuffs? | □Yes □No |
| 1000000 | | ☐ Available ☐ In Progress☐ Not Started |
| 1000000 | cuffs? | ☐ Available ☐ In Progress☐ Not Started |
| 73. | cuffs? Availability of discharge policy for COVID19 IV. INFECTION PREVENTION AND CONTROL F | □ Available □ In Progress□ Not Started PRACTICES |
| 73. | cuffs? Availability of discharge policy for COVID19 | □ Available □ In Progress□ Not Started PRACTICES □Yes □No □ Available □ In progress□ Not |
| 73. 74. 75. | Cuffs? Availability of discharge policy for COVID19 IV. INFECTION PREVENTION AND CONTROL F Does the hospital have Hospital Infection control Committee (HICC)? Are there any infection control protocols/guidelines available? Functioning hand washing stations (including water, soap and paper towel or air | □ Available □ In Progress□ Not Started PRACTICES □Yes □No |
| 73. 74. 75. | Cuffs? Availability of discharge policy for COVID19 IV. INFECTION PREVENTION AND CONTROL F Does the hospital have Hospital Infection control Committee (HICC)? Are there any infection control protocols/guidelines available? Functioning hand washing stations (including water, soap and paper towel or air dry) at isolation area? | □ Available □ In Progress□ Not Started PRACTICES □Yes □No □ Available □ In progress□ Not |
| 73. 74. 75. 76. | Cuffs? Availability of discharge policy for COVID19 IV. INFECTION PREVENTION AND CONTROL F Does the hospital have Hospital Infection control Committee (HICC)? Are there any infection control protocols/guidelines available? Functioning hand washing stations (including water, soap and paper towel or air dry) at isolation area? Does the facility have uninterrupted running water supply? | □ Available □ In Progress□ Not Started PRACTICES □ Yes □ No □ Available ☑ In progress□ Not started □ Yes □ No |
| 73. 74. 75. 76. 77. | Cuffs? Availability of discharge policy for COVID19 IV. INFECTION PREVENTION AND CONTROL F Does the hospital have Hospital Infection control Committee (HICC)? Are there any infection control protocols/guidelines available? Functioning hand washing stations (including water, soap and paper towel or air dry) at isolation area? Does the facility have uninterrupted running water supply? Is alcohol based hand sanitizer available at isolation area? | □ Available □ In Progress□ Not Started PRACTICES □Yes □No □ Available ☑ In progress□ Not started □Yes □ No □ Yes □ No □ Yes □ No |
| 73. 74. 75. 76. 77. 78. | Cuffs? Availability of discharge policy for COVID19 IV. INFECTION PREVENTION AND CONTROL F Does the hospital have Hospital Infection control Committee (HICC)? Are there any infection control protocols/guidelines available? Functioning hand washing stations (including water, soap and paper towel or air dry) at isolation area? Does the facility have uninterrupted running water supply? Is alcohol based hand sanitizer available at isolation area? Are the staff following five movements of hand washing? | Available In Progress Not Started |
| 73. 74. 75. 76. 77. 78. 79. | Cuffs? Availability of discharge policy for COVID19 IV. INFECTION PREVENTION AND CONTROL F Does the hospital have Hospital Infection control Committee (HICC)? Are there any infection control protocols/guidelines available? Functioning hand washing stations (including water, soap and paper towel or air dry) at isolation area? Does the facility have uninterrupted running water supply? Is alcohol based hand sanitizer available at isolation area? | □ Available □ In Progress□ Not Started PRACTICES □Yes □No □ Available ☑ In progress□ Not started □Yes □ No □ Yes □ No □ Yes □ No |
| 73. 74. 75. 76. 77. 78. 79. | Cuffs? Availability of discharge policy for COVID19 IV. INFECTION PREVENTION AND CONTROL F Does the hospital have Hospital Infection control Committee (HICC)? Are there any infection control protocols/guidelines available? Functioning hand washing stations (including water, soap and paper towel or air dry) at isolation area? Does the facility have uninterrupted running water supply? Is alcohol based hand sanitizer available at isolation area? Are the staff following five movements of hand washing? Are the staff following six steps of hand washing? | Available In Progress Not Started PRACTICES Yes No |
| 73. 74. 75. 76. 77. 78. 79. 80. 81. | Cuffs? Availability of discharge policy for COVID19 IV. INFECTION PREVENTION AND CONTROL F Does the hospital have Hospital Infection control Committee (HICC)? Are there any infection control protocols/guidelines available? Functioning hand washing stations (including water, soap and paper towel or air dry) at isolation area? Does the facility have uninterrupted running water supply? Is alcohol based hand sanitizer available at isolation area? Are the staff following five movements of hand washing? Are the staff following six steps of hand washing? Is there posters to reinforce hand washing and PPE at hand washing stations VI. ENVIRONMENTAL CLEANING Are objects and environmental surfaces in patient care areas touched frequently | Available In Progress Not Started PRACTICES Yes No |
| 73. 74. 75. 76. 77. 78. 79. 80. 81. | Availability of discharge policy for COVID19 IV. INFECTION PREVENTION AND CONTROL F Does the hospital have Hospital Infection control Committee (HICC)? Are there any infection control protocols/guidelines available? Functioning hand washing stations (including water, soap and paper towel or air dry) at isolation area? Does the facility have uninterrupted running water supply? Is alcohol based hand sanitizer available at isolation area? Are the staff following five movements of hand washing? Are the staff following six steps of hand washing? Is there posters to reinforce hand washing and PPE at hand washing stations VI. ENVIRONMENTAL CLEANING Are objects and environmental surfaces in patient care areas touched frequently (e.g., bed rails, overbed table, bedside commode, lavatory surfaces) are cleaned Are they disinfected with an approved disinfectant frequently (at least daily) | Available |
| 73. 74. 75. 76. 77. 80. 81. | LV. INFECTION PREVENTION AND CONTROL F IV. INFECTION PREVENTION AND CONTROL F Does the hospital have Hospital Infection control Committee (HICC)? Are there any infection control protocols/guidelines available? Functioning hand washing stations (including water, soap and paper towel or air dry) at isolation area? Does the facility have uninterrupted running water supply? Is alcohol based hand sanitizer available at isolation area? Are the staff following five movements of hand washing? Are the staff following six steps of hand washing? Is there posters to reinforce hand washing and PPE at hand washing stations VI. ENVIRONMENTAL CLEANING Are objects and environmental surfaces in patient care areas touched frequently (e.g., bed rails, overbed table, bedside commode, lavatory surfaces) are cleaned Are they disinfected with an approved disinfectant frequently (at least daily) and when visibly soiled? | Available In Progress Not Started PRACTICES Yes |
| 73. 74. 75. 76. 77. 78. 79. 80. 81. | Availability of discharge policy for COVID19 IV. INFECTION PREVENTION AND CONTROL F Does the hospital have Hospital Infection control Committee (HICC)? Are there any infection control protocols/guidelines available? Functioning hand washing stations (including water, soap and paper towel or air dry) at isolation area? Does the facility have uninterrupted running water supply? Is alcohol based hand sanitizer available at isolation area? Are the staff following five movements of hand washing? Are the staff following six steps of hand washing? Is there posters to reinforce hand washing and PPE at hand washing stations VI. ENVIRONMENTAL CLEANING Are objects and environmental surfaces in patient care areas touched frequently (e.g., bed rails, overbed table, bedside commode, lavatory surfaces) are cleaned Are they disinfected with an approved disinfectant frequently (at least daily) | Available In Progress Not Started PRACTICES Yes No |

| 87. Availability of terminal cleaning checklist | □ Available □ In progress□ Not |
|--|--|
| 88. Availability of three bucket system | started |
| 89. Are they following correct contact time for disinfection with hypochlorite | ☐Yes ☐No |
| solution? (10 minutes for non-porous surfaces) | □Yes □No |
| 90. Are the staff following outward mopping technique | Пм. Пм. |
| 91. Availability of separate mops for each area | ☐Yes ☐No |
| 92. Frequency of cleaning of isolation rooms? | Yes No |
| | |
| 93. Frequency of cleaning of ambulatory areas? | |
| 94. Frequency of cleaning of bathrooms of isolation areas? | |
| 95. Staff wearing PPE while cleaning | □Yes □No |
| a. Gloves b. Masks | □Yes □No |
| c. Apron | □Yes □No |
| | |
| 96. Are the staff trained in housekeeping and infection control practices?97. Doctors, nurses & cleaning staff available/ shift at isolation area? | □Yes □No |
| | ☐Yes ☐No |
| 98. Barrier nursing practiced at isolation area in 1:1 ratio? | □Yes □No |
| 99. Is there any policy for linen management for isolation facility? | ☐ Available ☐ In progress☐ Not started |
| 100. What is the frequency of changing linen in isolation rooms? | □Daily □Alternate Days □Weekly |
| | □When Soiled |
| 101. Type of linen used | ☐ Disposable ☐Reusable |
| VII. BIOMEDICAL WASTE MANAGEMENT (| |
| | <u>Oldiovivi)</u> |
| | |
| 102. Availability of SOP for BMW management? | ☐Available ☐In progress☐ Not |
| | ☐ Available ☐ In progress☐ Not started |
| 102. Availability of SOP for BMW management? 103. Availability of agreement with CWTF | - 10 to 10 t |
| 103.Availability of agreement with CWTF | started |
| 103. Availability of agreement with CWTF 104. Are they following color codes bins in BMW management? | started □ Available □ In progress□ Not |
| 103. Availability of agreement with CWTF 104. Are they following color codes bins in BMW management? 105. Is there sufficient quantity color coded bags available? | started □ Available □ In progress□ Not started |
| 103. Availability of agreement with CWTF 104. Are they following color codes bins in BMW management? 105. Is there sufficient quantity color coded bags available? 106. Are they disinfecting the waste before it is disposed? | started Available In progress Not started Yes No |
| 103. Availability of agreement with CWTF 104. Are they following color codes bins in BMW management? 105. Is there sufficient quantity color coded bags available? 106. Are they disinfecting the waste before it is disposed? 107. Method of disposing biomedical wastes? | started Available In progress Not started Yes No Yes No |
| 103. Availability of agreement with CWTF 104. Are they following color codes bins in BMW management? 105. Is there sufficient quantity color coded bags available? 106. Are they disinfecting the waste before it is disposed? 107. Method of disposing biomedical wastes? 108. Disposal of sharps as per the standard protocol? | started Available In progress Not started Yes No Yes No Yes No |
| 103. Availability of agreement with CWTF 104. Are they following color codes bins in BMW management? 105. Is there sufficient quantity color coded bags available? 106. Are they disinfecting the waste before it is disposed? 107. Method of disposing biomedical wastes? 108. Disposal of sharps as per the standard protocol? 109. Availability of biomedical waste trolley? | started Available In progress Not started Yes No Yes No Yes No CWTF Deep burial Incineration |
| 103. Availability of agreement with CWTF 104. Are they following color codes bins in BMW management? 105. Is there sufficient quantity color coded bags available? 106. Are they disinfecting the waste before it is disposed? 107. Method of disposing biomedical wastes? 108. Disposal of sharps as per the standard protocol? | started Available In progress Not started Yes No Yes No Yes No CWTF Deep burial Incineration Yes No |
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| 103. Availability of agreement with CWTF 104. Are they following color codes bins in BMW management? 105. Is there sufficient quantity color coded bags available? 106. Are they disinfecting the waste before it is disposed? 107. Method of disposing biomedical wastes? 108. Disposal of sharps as per the standard protocol? 109. Availability of biomedical waste trolley? 110. Availability of dedicated BMW collection area? 111. BMW collected from isolation facility within 48hrs? | started Available In progress Not started Yes No Yes No CWTF Deep burial Incineration Yes No Yes No |
| 103. Availability of agreement with CWTF 104. Are they following color codes bins in BMW management? 105. Is there sufficient quantity color coded bags available? 106. Are they disinfecting the waste before it is disposed? 107. Method of disposing biomedical wastes? 108. Disposal of sharps as per the standard protocol? 109. Availability of biomedical waste trolley? 110. Availability of dedicated BMW collection area? 111. BMW collected from isolation facility within 48hrs? | started Available In progress Not started Yes No Yes No CWTF Deep burial Incineration Yes No Yes No Yes No |
| 103. Availability of agreement with CWTF 104. Are they following color codes bins in BMW management? 105. Is there sufficient quantity color coded bags available? 106. Are they disinfecting the waste before it is disposed? 107. Method of disposing biomedical wastes? 108. Disposal of sharps as per the standard protocol? 109. Availability of biomedical waste trolley? 110. Availability of dedicated BMW collection area? 111. BMW collected from isolation facility within 48hrs? VIII. ICU FACILITY 112. Are there any beds dedicated for COVID 19 infection? | started Available In progress Not started Yes No Yes No CWTF Deep burial Incineration Yes No Yes No Yes No |
| 103. Availability of agreement with CWTF 104. Are they following color codes bins in BMW management? 105. Is there sufficient quantity color coded bags available? 106. Are they disinfecting the waste before it is disposed? 107. Method of disposing biomedical wastes? 108. Disposal of sharps as per the standard protocol? 109. Availability of biomedical waste trolley? 110. Availability of dedicated BMW collection area? 111. BMW collected from isolation facility within 48hrs? VIII. ICU FACILITY 112. Are there any beds dedicated for COVID 19 infection? 113. If Yes, Number of beds dedicated to COVID 19 cases? | started Available In progress Not started Yes No Yes No CWTF Deep burial Incineration Yes No Yes No Yes No Yes No Yes No |
| 103. Availability of agreement with CWTF 104. Are they following color codes bins in BMW management? 105. Is there sufficient quantity color coded bags available? 106. Are they disinfecting the waste before it is disposed? 107. Method of disposing biomedical wastes? 108. Disposal of sharps as per the standard protocol? 109. Availability of biomedical waste trolley? 110. Availability of dedicated BMW collection area? 111. BMW collected from isolation facility within 48hrs? VIII. ICU FACILITY 112. Are there any beds dedicated for COVID 19 infection? 113. If Yes, Number of beds dedicated to COVID 19 cases? 114. Is the distance between beds in ICU more than 1 meter? | started Available In progress Not started Yes No Yes No CWTF Deep burial Incineration Yes No Yes No Yes No Yes No Yes No |
| 103. Availability of agreement with CWTF 104. Are they following color codes bins in BMW management? 105. Is there sufficient quantity color coded bags available? 106. Are they disinfecting the waste before it is disposed? 107. Method of disposing biomedical wastes? 108. Disposal of sharps as per the standard protocol? 109. Availability of biomedical waste trolley? 110. Availability of dedicated BMW collection area? 111. BMW collected from isolation facility within 48hrs? VIII. ICU FACILITY 112. Are there any beds dedicated for COVID 19 infection? 113. If Yes, Number of beds dedicated to COVID 19 cases? 114. Is the distance between beds in ICU more than 1 meter? 115. Is the oxygen supply is by cylinder or central connection? | started Available In progress Not started Yes No Yes No CWTF Deep burial Incineration Yes No |
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| 103.Availability of agreement with CWTF 104.Are they following color codes bins in BMW management? 105.Is there sufficient quantity color coded bags available? 106.Are they disinfecting the waste before it is disposed? 107.Method of disposing biomedical wastes? 108. Disposal of sharps as per the standard protocol? 109.Availability of biomedical waste trolley? 110.Availability of dedicated BMW collection area? 111.BMW collected from isolation facility within 48hrs? VIII. ICU FACILITY 112.Are there any beds dedicated for COVID 19 infection? 113. If Yes, Number of beds dedicated to COVID 19 cases? 114. Is the distance between beds in ICU more than 1 meter? 115. Is the oxygen supply is by cylinder or central connection? 116. Are there any separate Ventilators, nebulizers, Infusion pumps in ICU? 117. Adequate supply of masks, ET tubes, PPE kits available at ICU? | started Available In progress Not started Yes No Yes No CWTF Deep burial Incineration Yes No |
| 103. Availability of agreement with CWTF 104. Are they following color codes bins in BMW management? 105. Is there sufficient quantity color coded bags available? 106. Are they disinfecting the waste before it is disposed? 107. Method of disposing biomedical wastes? 108. Disposal of sharps as per the standard protocol? 109. Availability of biomedical waste trolley? 110. Availability of dedicated BMW collection area? 111. BMW collected from isolation facility within 48hrs? VIII. ICU FACILITY 112. Are there any beds dedicated for COVID 19 infection? 113. If Yes, Number of beds dedicated to COVID 19 cases? 114. Is the distance between beds in ICU more than 1 meter? 115. Is the oxygen supply is by cylinder or central connection? 116. Are there any separate Ventilators, nebulizers, Infusion pumps in ICU? 117. Adequate supply of masks, ET tubes, PPE kits available at ICU? 118. All ICU Staff received training in donning & doffing of PPE? | started Available In progress Not started Yes No Yes No CWTF Deep burial Incineration Yes No |
| 103. Availability of agreement with CWTF 104. Are they following color codes bins in BMW management? 105. Is there sufficient quantity color coded bags available? 106. Are they disinfecting the waste before it is disposed? 107. Method of disposing biomedical wastes? 108. Disposal of sharps as per the standard protocol? 109. Availability of biomedical waste trolley? 110. Availability of dedicated BMW collection area? 111. BMW collected from isolation facility within 48hrs? VIII. ICU FACILITY 112. Are there any beds dedicated for COVID 19 infection? 113. If Yes, Number of beds dedicated to COVID 19 cases? 114. Is the distance between beds in ICU more than 1 meter? 115. Is the oxygen supply is by cylinder or central connection? 116. Are there any separate Ventilators, nebulizers, Infusion pumps in ICU? 117. Adequate supply of masks, ET tubes, PPE kits available at ICU? 118. All ICU Staff received training in donning & doffing of PPE? | started Available In progress Not started Yes No Yes No CWTF Deep burial Incineration Yes No |
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XII.OTHER ESSENTIAL SERVICES

| 121.Is there strategy available for optimizing the PPE supply | ☐ Available ☐ In progress☐ Not started |
|---|--|
| 122. Are there any stockout experience for PPEs in the las year. | □Yes □No |
| 123.Designated ambulance facility for transporting patients from isolation area? | □Yes □No |
| 124.list of contact numbers of ambulance drivers displayed at isolation area? | □ Available □ In progress□ Not started |
| 125.Ambulance staff trained in wearing PPE & and other Infection control practices? | □Yes □No |
| 126.SOP for disinfecting ambulance after transporting confirmed case/dead body? | ☐ Available ☐ In progress☐ Not started |
| 127. Written protocol available for disposing dead bodies of confirmed cases? | □ Available □ In progress□ Not started |
| 128.Is there enough availability of body bags? | □Yes □No |
| 129. Are the staff trained in handling dead bodies and wearing PPE? | □Yes □No |

Ministry of Health and Family Welfare Directorate General of Health Services [Emergency Medical Relief]

Coronavirus Disease 2019 (COVID-19): Standard Operating Procedure (SOP) for transporting a suspect/confirmed case of COVID-19

1. About this SOP

This SOP is applicable to current phase of COVID-19 pandemic in India (local transmission and limited community transmission), wherein as per plan of action, all suspect cases are admitted to isolation facilities. These procedures are meant to guide and be used for training ambulance drivers and technicians in transporting COVID-19 patients. These also aim to support programme officers in monitoring functionality and infection prevention protocols of the ambulances.

2. Introduction

Coronaviruses are a large family of viruses, some causing illness in people and others that circulate among animals, including camels, cats and bats. In humans, the transmission of COVID-19 can occur via respiratory droplets directly (through droplets from coughing or sneezing) or indirectly (through contaminated objects or surfaces). The people most at risk of COVID-19 infection are those who are in close contact with a suspect/confirmed COVID-19 patient and those who care for such patients.

3. Transportation of patients

Ideally, there should be ambulances identified specifically for transporting COVID suspect patients or those who have developed complications, to the health facilities. Currently, there are two types of ambulances – ALS (with ventilators) and BLS (without ventilators). States may empanel other ambulances having basic equipment like that of BLS and use it for COVID patients. However, this must be ensured that strict adherence to cleaning and decontamination protocols given here in the guidance note need to be followed. The fleet in - charge or person designated by CMO/CS, will supervise its adherence.

Call centres after receiving the call will try to triage the condition of the patient and accordingly dispatch either ALS, BLS or other registered ambulances. However, please ensure that 102 ambulances should not be used for corona patients and should only be used for transporting pregnant women and sick infants. Ambulance staff (technicians as well as drivers) should be trained and oriented about common signs and symptoms of COVID-19 (fever, cough and difficulty in breathing). A sample questionnaire to identify COVID-19 cases is placed at **Annexure I**. They should also be aware about common infection, prevention and control practices including use of Personal Protective Equipment (PPE). Both the EMT and driver of ambulance will wear PPE while handling, managing and transporting the COVID identified/ suspect patients. Similar use of PPE is to be ensured by the health personnel at receiving

(20

health facility. Patient and attendant should be provided with triple layer mask and gloves. Simple public health measures like hand hygiene, respiratory etiquettes, etc. need to be adhered by all.

Augmenting the capacity of ambulances in districts

Local authorities should prepare a line list of all private ambulance service providers in their respective areas. These ambulances should be linked with centralized call centre so as to ensure adequate number of ambulances based on population and time to care approach (Avg. response time of 20 minutes). Orientation on Infection Prevention Protocols and protocols for transporting COVID patients should also be ensured for staff of these ambulances. To ensure response time of 20 minutes, ambulances should be strategically located at hospitals, police stations.

Only identified and designated ambulances should be used for transportation. People, health functionaries, nursing homes, private clinics, hospitals should be made aware to use ambulance services for COVID patients being provided through toll free numbers. Otherwise it might increase the chances of transmission of infection. Every district should facilitate empaneling of ambulances other than those in the public health system even if the present situation may not require using them. To minimize the risk of transmission, it is strongly recommended that if other than empaneled ambulances are bringing COVID or suspect patients, such vehicles need to be quarantined for thorough cleaning and disinfection and should only be released after certification by district administration/ district health official.

- 3.1 Call Centre: On receiving the call, the call centre needs to enquire following details:
 - a) Demographic details of the patient i.e. name, age, gender etc.
 - b) To ascertain whether the patient is suspect case of COVID-19
 - i. Symptoms of patient: Ask whether the patient is suffering from fever, cough and difficulty in breathing
 - ii. Whether patient has recently returned from a foreign country
 - iii. Whether the patient was under home quarantine as directed by local health administration
 - c) Clinical condition of patient to be transported: whether stable or critical
- 3.2 In case of an inter-facility transfer, the casualty medical officer of the referring hospital has to ensure that bed is available in referral hospital with supporting equipment and needs to convey the same while making the call.
- 3.3 Assign the job to nearest ambulance with dedicated facility at strategic locations as mentioned in the box above.
 - 3.3.1 Check for state of preparedness of ambulance: Annexure II
 - 3.3.2 Ensure PPE for ambulance staff: Annexure III

- 3.4 Both call centre and ambulances should always keep the updated list of available hospitals and beds.
- 3.5 On receiving the call, from the call centre and prior to shifting the patient, EMT will perform following:
 - 3.5.1 the EMT will seek the above mentioned details again to ensure whether the patient is a suspect case of COVID-19.
 - 3.5.2 The EMT will wear the appropriate PPE.
 - 3.5.3 The EMT shall assess the condition of the patient
 - 3.5.4 If the patient is ambulatory and stable, he/she may be asked to board the ambulance otherwise the EMT (while using the prescribed PPE) may assist loading of patient.
 - 3.5.5 Only one caregiver should be allowed to accompany the patient (while using the prescribed PPE).
 - 3.5.6 EMT should also ensure availability and provision of adequate triple layered mask and gloves for patient and/or attendant.
 - 3.5.7 The patient and the care giver will be provided with a triple layer medical mask.
 - 3.5.8 EMT will contact the identified health facility for facility preparedness and readiness.

3.6 Management on board

- 3.6.1 Measure vitals of patient and ensure patient is stable.
- 3.6.2 If required, give supplementary O_2 therapy at 5 L/min and titrate flow rates to reach target $SpO_2 \ge 90\%$.
- 3.6.3 If patient is being transported on ventilator to a higher center, follow ventilator management protocols, provided the EMT is either trained or assisted by a doctor well versed in ventilator management.

3.7 Handing over the patient

- 3.7.1 On reaching the receiving hospital, the EMT will hand over the patient and details of medical interventions if any during transport. After handing over the patient, the PPEs will be taken off as per protocol followed by hand washing. Use Alcohol based rub /soap water for hand hygiene.
- 3.7.2 The biomedical waste generated (including PPE) to be disposed off in a bio-hazard bag (yellow bag). Inside would be sprayed with Sodium Hypochlorite (1%) and after tying the exterior will also be sprayed with the same. It would be disposed off at their destination hospital. This shall again be followed by hand washing.

3.8 Disinfection of ambulance

- 3.8.1 All surfaces that may have come in contact with the patient or materials contaminated during patient care (e.g., stretcher, rails, control panels, floors, walls and work surfaces) should be thoroughly cleaned and disinfected using 1% Sodium Hypochlorite solution. (see Annexure IV for preparation of 1% Sodium hypochlorite solution)
- 3.8.2 Clean and disinfect reusable patient-care equipment before use on another patient with alcohol based rub.

3.8.3 Cleaning of all surfaces and equipment should be done morning, evening and after every use with soap/detergent and water.

3.9 Capacity building

District Authorities to ensure capacity building of EMT and driver on following areas:

- 3.9.1 Donning and doffing of PPE
- 3.9.2 Infection prevention protocols given in this guideline (Annexure V)
- 3.9.3 Triaging and identifying COVID-19 suspects based on their signs and symptoms.
- 3.9.4 Similarly, emergency staff of health facility should also be trained in segregation, isolation and management of COVID-19 patients. They should not be mixed with other patients.

3.10 Monitoring

A checklist for weekly monitoring by District Surgeon/ Anesthetist is at Annexure VI

Annexure I

| Question | Response |
|---|----------|
| Has someone in your close family returned from a foreign country | Yes/No |
| Is the patient under home quarantine as advised by local health authority? | Yes/No |
| Have you or someone in your family come in close contact with a confirmed COVID-19 patient in the last 14 days? | Yes/No |
| Do you have fever? | Yes/No |
| Do you have cough? | Yes/No |
| Do you have sore throat? | Yes/No |
| Do you feel shortness of breath? | Yes/No |

Annexure II

Checklist for list of consumables, equipment

| S. No. | Item | Available (Yes/No) | If yes, whether functional | Remarks: quantity, expiry, last inspection date etc. |
|--------|---|-----------------------|----------------------------------|---|
| 1 | Stretcher trolley (foldable) | | | |
| 2 | Vital sign monitor | | | , |
| 2.1 | ✓ NIBP | | | |
| 2.2 | ✓ SPO ₂ | | 1000000 | |
| 2.3 | ✓ ECG | | The | |
| 3 | Ventilator with O ₂ Source | | | |
| 4 | Defibrillator with battery | HI. | | |
| 5 | Syringe infusion pump | | | - |
| 6 | Ventimask with O ₂ flowmeter | | 114 | |
| 7 | Ambu bag with face mask | 1 1 | | |
| 8 | Laryngoscope with batteries | | 1.11 | |
| 9 | ETT with oro-pharyngeal airway | | | |
| 10 | Suction apparatus with suction and catheter | | | |
| 11 | Emergency drug tray | | | - |
| 12 | IV Fluids | | _ | |
| 13 | Nebulizer | | | |
| 14 | Any other items: | | | |
| 14.1 | ✓ Foleys catheter | | | |
| 14.2 | ✓ ECG Electrode | | | |
| 14.3 | ✓ IV Cannula | | | |

Annexure III

Rational use of PPE by ambulance staff*

| Activity | Risk | Recommended PPE | Remarks |
|---|------------------|--|--|
| Transporting patients not on any assisted ventilation | Moderate risk | N-95 mask Gloves | |
| Management of SARI patient while transporting | High risk | Full complement of PPE | When aerosol generating procedures are anticipated |
| Driving the ambulance | Low risk | Triple layer medical mask Gloves | |

^{*} The training of EMTs on COVID-19 will strictly adhere to the above mentioned rational use of PPE (the above recommendation is by an expert group (including WHO) and recommended by Joint Monitoring Group under DGHS available at www.mohfw.gov.in)

Annexure IV

Guidelines for Preparation of 1% sodium hypochlorite solution

| Product | Available chlorine | 1 percent | |
|---|------------------------------------|----------------------------------|--|
| Sodium hypochlorite – liquid bleach | 3.5% | 1 part bleach to 2.5 parts water | |
| Sodium hypochlorite – liquid | 5% | 1 part bleach to 4 parts water | |
| NaDCC (sodium dichloro- isocyanurate) powder | 60% | 17 grams to 1 litre water | |
| NaDCC (1.5 g/ tablet) – tablets | 60% | 11 tablets to 1 litre water | |
| Chloramine – powder | 25% | 80 g to 1 litre water | |
| Bleaching powder | 70% | 7g g to 1 litre water | |
| Any other | As per manufacturer's Instructions | | |

Infection Prevention for Pre-hospital Care

1.1. General

Ambulance or emergency health care workers are exposed to many infectious agents during their work. Transmission of infectious disease can occur while providing emergency care, rescue and body recovery/removal. Effective infection prevention and control is central to providing high quality health care for patients and a safe working environment for those that work in healthcare settings. Implementation of good infection control practices help to minimize the risk of spread of infection to patients and staff.

Pre-hospital care need to have an infection prevention program to monitor for HAIs* (Healthcare Associated Infections) and prevent the spread of diseases/infection.

1.2. Standard Precautions

Standard precautions are based on the principle that all blood, body fluids, secretions, excretions (except sweat), non-intact skin, and mucous membranes may contain transmissible infectious agents. These set of measures are intended to be applied to the care of all patients in all healthcare settings, regardless of the suspected or confirmed presence of an infectious agent. Standard precautions include:

- Hand hygiene
- Use of barrier precautions or personal protective equipment
- Safe injection practices

1.2.1. Hand Hygiene

Hand hygiene is the single most important practice to reduce the transmission of infectious agents in healthcare settings. The term "hand hygiene" includes both hand washing with either soap and water, and use of alcohol-based products (gels, rinses, foams) that do not require the use of water. It is important to ensure the availability of hand rub products at all times in the ambulance to ensure hand hygiene compliance.



1.2.2. Use of barrier precautions or Personal Protective Equipment (PPE)

COVID-19 is primarily a droplet transmitted infection, with indirect transmission through fomites/contaminated surfaces/objects. The standard precautions on use of personal protective equipment, as per the risk profile are given in annexure III.

The Healthcare worker must possess knowledge and skill regarding use and removal of the PPE after its use.

1.3. Equipment disinfection:

Equipment and surfaces are contaminated if they have come in contact with patient's skin, blood or body fluids. These can spread infection. Therefore, it is mandatory that these are cleaned and disinfected using 1% sodium hypochlorite or alcohol based disinfectants at least once daily and after every patient contact. Patient care items and surfaces that can contribute to the spread of infection include:

- Stethoscopes
- · Blood pressure cuffs

- Monitors
- · Stretchers, backboards, and immobilization devices
- Laryngoscope blades
- · Radios/mobiles
- Shelves
- Door handles
- · Other items and surfaces in ambulance or transport vehicle

1.4. Decontamination of ambulance:

- Decontamination of ambulance needs to be performed every time a suspect/confirmed case is transported in the ambulance. The following procedure must be followed while decontaminating the ambulance:
- Gloves and N-95 masks are recommended for sanitation staff cleaning the ambulance.
- Disinfect (damp wipe) all horizontal, vertical and contact surfaces with a
 cotton cloth saturated (or microfiber) with a 1% sodium hypochlorite
 solution. These surfaces include, but are not limited to: stretcher, Bed
 rails, Infusion pumps, IV poles/Hanging IV poles, Monitor cables,
 telephone, Countertops, sharps container. Spot clean walls (when visually
 soiled) with disinfectant-detergent and windows with glass cleaner. Allow
 contact time of 30 minutes and allow air dry.
- Damp mop floor with 1% sodium hypochlorite disinfectant.
- Discard disposable items and Infectious waste in a Bio/Hazard bag. The
 interior is sprayed with 1% sodium hypochlorite. The bag is tied and
 exterior is also decontaminated with 1% sodium hypochlorite and should
 be given to the hospitals to dispose of according to their policy.
- Change cotton mop water containing disinfectant after each cleaning cycle.
- Do not place cleaning cloth back into the disinfectant solution after using it to wipe a surface.
- Remove gloves and wash hands.

Annexure VI

Checklist for Monitoring

Weekly monitoring by District Surgeon/ Anesthetist to be ensured. Following parameters to be monitored:

- 1. Daily stock-check & functionality test of critical equipment (Oxygen, Suction, etc.)
- Decontamination & Disinfection Protocols before and after transporting COVID patients
- 3. Waste Management Segregation, General Waste, BMW, Liquid Waste, etc.
- 4. Spill Management
- 5. Linen Management
- 6. Patients' property
- 7. 'End of Life' care
- 8. Fire Safety
- 9. Outcome -
 - 1. Deaths while transporting
 - 2. Death after reaching the facility
 - 3. No. of successful resuscitation (return to spontaneous circulation after cardiac arrest)
 - IV Fluid Usage Rate Number of Units (1 unit = 500 ml) transfused/ Patients transported
 - Percentage of cases, reporting more than 95% Oxygen Saturation level on arrival
 - 6. Incidence of Aspiration Pneumonia
 - Service Experience (Feed-back Score on Likert scale 1-5)

| Mention the total no. of Beds in Isolation ward : | o. of Beds in Isola | ition ward | | | | | ÷ |
|---|---------------------|------------|------|----------|-----------------|------------|------------|
| Si. No. Type of Facility | Name of Facility | Case no. | Name | Age (Yr) | Age (Yr) Gender | Occupation | Mobile no. |
| Martisol Collage | | | | | | | |
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| Seat no | | | | | | | | | | | | | |
| /Train ne & no. | | | | | | | | * | | | | | |
| Flight no., no./Bus nan | | * | | | | | | | | | | | |
| Mode of Travel | | | | | | | | | | | | | |
| Date of Arrival in Bihar (dd- mm-year) | | | | | | | | | | | | | |
| Date of admission to Isolation ward (dd-mm-year) | | | | | | | | | | | | | |
| Address | | | | | | | | | | | | | |
| Block | | | | | | | | | | | | | |
| District | | | The second second second | | | | | | | | V. | | |
| | Block Address Isolation ward (dd-mm-year) | Block Address Isolation ward Bihar (dd- Travel no./Bus name & no. (dd-mm-year) | Block Address admission to Arrival in Mode of Flight no./Train (dd-mm-year) mm-year) | Block Address Isolation ward Bihar (dd-Travel no./Bus name & no. (dd-mm-year) mm-year) | Block Address lsolation ward Bihar (dd- Travel no./Bus name & no. (dd-mm-year) mm-year) | Block Address admission to Arrival in Mode of Flight no./Train (dd-mm-year) mm-year) | Block Address admission to Arrival in Mode of Flight no./Train (dd-mm-year) mm-year) mm-year) | Block Address Isolation ward Bihar (dd-mm-year) mm-year) mm-year) mm-year) ho./Bus name & no. | Block Address Isolation ward Bihar (dd- Travel no./Bus name & no. (dd-mm-year) mm-year) | Block Address admission to Arrival in Mode of Flight no./Train Isolation ward Bihar (dd-mm-year) mm-year) (dd-mm-year) | Block Address admission to Arrival in Mode of Flight no./Train (dd-mm-year) mm-year) mm-year) . | Block Address admission to Arrival in Mode of Flight no./Bus name & no. (dd-mm-year) mm-year) mm-year) | Block Address admission to Arrival in Mode of Flight no./Train (dd-mm-year) mm-year) mm-year) . |

| | | Symp | Symptoms | | W. | |
|--|--|-------------|-------------|----------------------------|------------------------|---|
| Travelling from which Country/State (Name) | Travelling from Date of Onset of which Country/State symptoms (dd-mm-kame) | Fever (Y/N) | Cough (Y/N) | Breathlessness (Y/N) (Y/N) | Sample collected (Y/N) | Date of Sample collection (dd- mm-year) |
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| Sample collection sample (dd-mm- year) Centre name year) Sample (dd-mm- year) Year) Asthma Date of Sample (positive/negative/s ample rejected) Asthma | | Sample | | | | | Medical |
|--|----------------------------------|--------|----------------|--|-----------------------------|---------|---|
| Asthma * Ast | Sample collection centre name | | Type of Sample | Results (positive/negative/s ample rejected) | SECRETAL SECTION CONTRACTOR | Outcome | Date of Discharged/Deatl Referral (dd-mm year) |
| | | | | | Asthma | | |
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| | Co-traveller | | | | | | | | |
|-----------------|--|---|--|--|--|--|---|--|--|
| | No. of contacts in Health Care | * | | | | | | | |
| Contact details | No. of contacts in Community | | | | | | | | |
| | No. of contacts in Workplace | | | | | | | | |
| | No. of contacts in household | | | | | | 2 | | |
| | H/O contact with COVID case (if yes then mention case no.) | | | | | | 2 | | |
| | Is patient member of cluster COVID 19 | | | | | | | | |

| Remarks | | | | | | |
|----------------|--|--|--|--|--|--|
| Other Contacts | | | | | | |