



राज्य स्वास्थ्य समिति, बिहार



मनोज कुमार, भा०प्र०से०

कार्यपालक निदेशक

पत्रांक:SHSB/GA/IDSP/1495/15-Part-2/.....9700

सेवा में,

सभी प्राचार्य एवं अधीक्षक, चिकित्सा महाविद्यालय एवं अस्पताल

सभी सिविल सर्जन

सभी अपर मुख्य चिकित्सा पदाधिकारी

सभी जिला कार्यक्रम प्रबंधक/सभी जिला इपिडेमोलॉजिस्ट

पटना, दिनांक 28/03/2020

विषय: COVID-19 के संदिग्ध मरीजों/व्यक्तियों का जिला स्तर पर गठित Rapid Response Team/ जिला में उपलब्ध लैब टेकनिशियन द्वारा नमूना (Sample) संग्रहण करने के संबंध में।

महाशय/महाशया,

उपरोक्त विषय के संबंध में सूचित करना है कि COVID-19 के संदिग्ध मरीजों/व्यक्तियों के चिकित्सकीय जाँच हेतु भारत सरकार के मार्गदर्शिका में निहित नियमों के अनुसरण में Sample संग्रहित करने की व्यवस्था वर्तमान में राज्य के सभी चिकित्सा महाविद्यालयों में किया गया है। राज्य में कोरोना वायरस (COVID-19) के संदिग्ध मरीजों/व्यक्तियों की संख्या में लगातार बढ़ोतरी होने से जाँच हेतु नमूना (Sample) संग्रहित करने के कार्य को विकेंद्रीकृत करते हुये जिला स्तर पर गठित Rapid Response Team/ जिला में उपलब्ध लैब टेकनिशियन के माध्यम से भी जाँच हेतु नमूना (Sample) संग्रहित करने का निर्णय लिया गया है।

2. विदित हो कि जिला स्तर पर गठित Rapid Response Team का राज्यस्तरीय अनिवार्य प्रशिक्षण दिनांक 07.03.2020 को WHO के सहयोग से संपन्न हो चुका है और इस प्रकार Rapid Response Team के लैब टेकनिशियन इन कार्यों हेतु प्रशिक्षित/दक्ष है। Rapid Response Team में लैब टेकनिशियन को प्रशिक्षित किया गया है। इसके अतिरिक्त सिविल सर्जन जिला में उपलब्ध दक्ष लैब टेकनिशियन से नमूना संग्रहण का कार्य ले सकेंगे।

3. उक्त के परिप्रेक्ष्य में जिला स्तर पर गठित Rapid Response Team के लैब टेकनिशियन एवं जिला में उपलब्ध दक्ष लैब टेकनिशियन द्वारा भी कोरोना वायरस (COVID-19) के संदिग्ध मरीजों/व्यक्तियों के चिकित्सकीय जाँच हेतु नमूना का संग्रहण जिला स्तर पर करेगा। RRT/ Lab Technician द्वारा नमूना संग्रहण हेतु भारत सरकार की मार्गदर्शिका (Specimen Collection and Transport- Annexure 1 एवं Advisory for sample collection- Annexure 2) में निहित निदेश का पालन करते हुये किया जायेगा। जिला अस्पताल एवं अनुमंडलीय अस्पताल के Isolation Ward में चिकित्सकीय जाँच हेतु भर्ती व्यक्तियों/मरीजों का लैब टेकनिशियन द्वारा नमूना का संग्रहण किया जायेगा। जिला स्तर पर संग्रहित नमूना पर समुचित रूप से लेवलिंग करते हुये अनुसंशित तापमान (शीत श्रृंखला) पर एतद हेतु राज्य में विनिर्दिष्ट तीन जाँच प्रयोगशाला यथा- RMRI, Patna, IGIMS, Patna एवं DMCH, Darbhanga में नियमानुसार भेजा जायेगा। जिलों से संबद्ध जाँच केंद्रों की सूची (Allocation of Lab- Annexure 3) पत्र के साथ संलग्न है। नमूना संग्रहण हेतु Viral Transport Medium (VTM) एवं Personal Protective Equipment (PPE) Kit राज्य स्तर पर BMSICL द्वारा उपलब्ध कराया जायेगा। इस हेतु राज्य स्वास्थ्य समिति के प्रोक्योरमेंट कोषांग एवं BMSICL से आवश्यक समन्वय कर VTM एवं Personal Protective Equipment (PPE) Kit प्राप्त किया जाये।

परिवार कल्याण भवन, शेखपुरा, पटना- 800 014,

दूरभाष: 0612-2290328, फ़ैक्स: 0612-2290322, वेबसाइट: www.statehealthsocietybihar.org

Dr. Manoj Kumar





राज्य स्वास्थ्य समिति, बिहार



4. यह अंकनीय है कि संदिग्ध मरीजों/व्यक्तियों के जाँच नमूनों को ICMR द्वारा High Risk Category की श्रेणी में रखा गया है। अतएव जिलास्तर पर नमूना संग्रहण के दौरान भारत सरकार द्वारा निर्गत मार्गदर्शिका में निहित निदेश एवं सावधानियों का शत-प्रतिशत अनुपालन सुनिश्चित किया जाए। नमूना संग्रहण के दौरान स्वास्थ्य कर्मियों में संक्रमण से बचाव हेतु Personal Protective Equipment (PPE) का उपयोग किया जाए।
5. जिलास्तर पर Viral Transport Medium (VTM) में संग्रहित नमूनों को समुचित शीत-श्रृंखला (4°C) में विनिर्दिष्ट जाँच केन्द्रों पर मार्गदर्शिका में उल्लेखित व्यवस्थाओं के तहत भेजा जाए। नमूना के परिवहन पर होने वाले व्यय का वहन बजट शीर्ष 6.4.5 (Diagnostics included sample) में जिलावार उपलब्ध बजट के अधीन किया जायेगा।
6. नमूना संग्रहण एवं जाँच प्रतिवेदनों से संबंधित दैनिक प्रतिवेदन विहित प्रपत्र में ssobihar@gmail.com पर प्रतिदिन भेजा जाए। नमूना संग्रहण के संदर्भ में परामर्श आदि हेतु राज्य सर्वेक्षण पदाधिकारी, राज्य स्वास्थ्य समिति से मो० 9471007301 पर संपर्क किया जा सकता है।
7. संदिग्ध व्यक्तियों का नमूना संग्रहण के उपरांत जाँच प्रतिवेदन प्राप्त होने तक उन्हें अस्पताल के Isolation में रखा जाये। जाँच प्रतिवेदन में COVID-19 True Positive पाये जाने पर मरीज को जिला अस्पताल अथवा अनुमंडल अस्ताल के COVID-19 True Positive हेतु चिन्हित Isolation Ward में भर्ती कर पूर्व में निर्गत दिशा-निदेश/Treatment Protocol के अनुरूप चिकित्सकीय उपचार किया जाये। यदि जाँच प्रतिवेदन में व्यक्ति का नमूना True Negative पाया जाता है तो संबंधित व्यक्ति को अस्पताल के Isolation Ward से नियमानुसार मुक्त कर दिया जाना है।
8. COVID-19 True Positive के मामले में मरीज के निवास स्थल को केन्द्र मानते हुये उस क्षेत्र को Containment Zone के रूप में चिन्हित करते हुये Containment Plan संबंधी मार्गदर्शिका (SHSB का पत्रांक 9690 दिनांक 27.03.2020) में निहित अनुदेश के आलोक में Contact Tracing एवं सघन निगरानी (Active Surveillance) किया जाये। Cluster Containment क्षेत्र में भेजे जाने वाले Rapid Response Team/स्वास्थ्य कर्मियों को संभावित संक्रमण से बचाव हेतु 3-Ply Mask एवं Non Sterile Gloves उपलब्ध कराया जाये।
9. अतः उपर्युक्त विधि का दृढ़ता से पालन करते हुये COVID-19 के संदिग्ध व्यक्तियों का नमूना संग्रहित कर जाँच हेतु विनिर्दिष्ट जाँच केन्द्रों पर भेजना सुनिश्चित किया जाये। इस कार्य में WHO के कर्मियों से आवश्यक सहयोग भी प्राप्त किया जाये।

अनुलग्नक: Annexure- 1, 2 एवं 3

विश्वसभाजन

(मनोज कुमार)

ज्ञापांक: 9700

पटना, दिनांक: 28/03/2020

प्रतिलिपि:

- प्रधान सचिव, स्वास्थ्य विभाग, बिहार, पटना को कृपया सूचनार्थ प्रेषित।
- सचिव, स्वास्थ्य विभाग, बिहार, पटना को कृपया सूचनार्थ प्रेषित।
- प्रबंध निदेशक, BMSICL, पटना को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।
- श्री राजीव कुमार, अपर सचिव, स्वास्थ्य विभाग-सह-प्रभारी पदाधिकारी, Functionality of Lab - COVID-19 को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।
- सभी जिला पदाधिकारी को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।
- राज्य प्रतिनिधि: डब्ल्यू०एच०ओ०, यूनिसेफ, केयर को आवश्यक सहयोग हेतु प्रेषित।

कार्यपालक निदेशक

परिवार कल्याण भवन, शेखपुरा, पटना- 800 014,

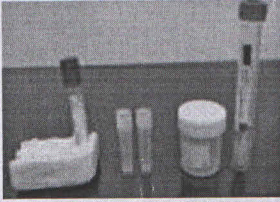
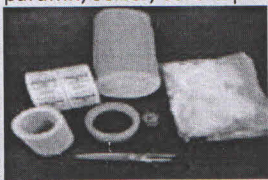
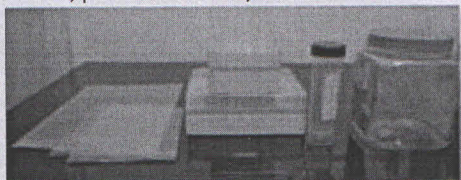
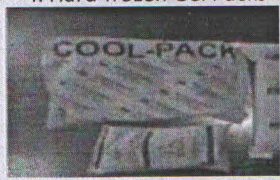



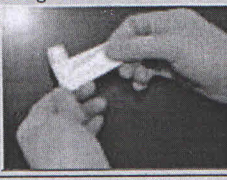
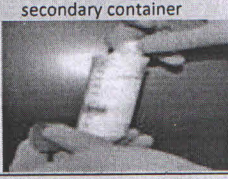




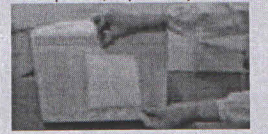


दूरभाष: 0612-2290328, फ़ैक्स: 0612-2290322, वेबसाइट: www.statehealthsocietybihar.org



Specimen Collection, Packaging and Transport Guidelines for 2019 novel Coronavirus (2019-nCoV)

Title: Specimen Collection, Packaging and Transport Guidelines for 2019 Novel Coronavirus (2019-nCoV)	SOP number: ICMR-NIV/2019-nCoV/Specimens_01 Prepared by: Dr. Y.K. Gurav Date: 19/01/2020 Reviewed by: Dr. V. Potdar Date: 20/01/2020 Approved by: Dr. P. Abraham Date: 20/01/2020																																			
Scope: To be used by the Government health authorities/ hospitals/ clinicians/ laboratories planning to collect appropriate clinical samples as indicated for diagnosis of 2019-nCoV.																																				
Purpose: This document describes the information for collection, packaging and transport of clinical specimens to Influenza group at ICMR-National Institute of Virology (NIV), Pune, Maharashtra for diagnosis of 2019 Novel Coronavirus (2019-nCoV)																																				
Responsibilities: <ul style="list-style-type: none"> The clinician should decide necessity for collection of clinical specimens for laboratory testing of 2019-nCoV only after following the case definition as given by the health authorities, Government of India. Appropriate clinical sample need to be collected by laboratory personnel/ health care worker trained in specimen collection in presence of a clinician. By following all biosafety precautions and using personal protective equipment (PPEs), clinical samples need to be sent to the designated laboratory (ICMR-NIV, Pune) by following standard triple packaging. 																																				
Selection of patient: Any person who presents with Severe Acute Respiratory Illness (SARI) AND any one of the following i.e. a history of travel from Wuhan, China in 14 days prior to symptoms onset; disease in healthcare worker working in an environment of SARI patients; unusual or unexpected clinical course, especially sudden deterioration despite appropriate treatment; should be urgently investigated. Updated case definition need to be followed as per MOHFW, Govt of India which is available on the website www.mohfw.gov.in																																				
Specimen collection details: (Adapted from the WHO guidelines on 2019-nCoV):																																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Specimen type</th> <th style="width: 20%;">Collection materials</th> <th style="width: 10%;">Transport to laboratory</th> <th style="width: 20%;">Storage till testing</th> <th style="width: 30%;">Comment</th> </tr> </thead> <tbody> <tr> <td>Nasopharyngeal and oropharyngeal swab</td> <td>Dacron or polyester flocked swabs*</td> <td>4 °C</td> <td>≤5 days: 4 °C >5 days: -70 °C</td> <td>The nasopharyngeal and oropharyngeal swabs should be placed in the same tube to increase the viral load.</td> </tr> <tr> <td>Bronchoalveolar lavage</td> <td>sterile container*</td> <td>4 °C</td> <td>≤48 hours: 4 °C >48 hours: -70 °C</td> <td>There may be some dilution of pathogen, but still a worthwhile specimen</td> </tr> <tr> <td>Tracheal aspirate, nasopharyngeal aspirate or nasal wash</td> <td>sterile container*</td> <td>4 °C</td> <td>≤48 hours: 4 °C >48 hours: -70 °C</td> <td>Not applicable</td> </tr> <tr> <td>Sputum</td> <td>sterile container</td> <td>4 °C</td> <td>≤48 hours: 4 °C >48 hours: -70 °C</td> <td>Ensure the material is from the lower respiratory tract</td> </tr> <tr> <td>Tissue from biopsy or autopsy including from lung</td> <td>sterile container with saline</td> <td>4 °C</td> <td>≤24 hours: 4 °C >24 hours: -70 °C</td> <td>Autopsy sample collection preferably to be avoided</td> </tr> <tr> <td>Serum (2 samples – acute and convalescent)</td> <td>Serum separator tubes (adults: collect 3-5 ml whole blood)</td> <td>4 °C</td> <td>≤5 days: 4 °C >5 days: -70 °C</td> <td>Collect paired samples: • acute – first week of illness • convalescent – 2 to 3 weeks later</td> </tr> </tbody> </table>		Specimen type	Collection materials	Transport to laboratory	Storage till testing	Comment	Nasopharyngeal and oropharyngeal swab	Dacron or polyester flocked swabs*	4 °C	≤5 days: 4 °C >5 days: -70 °C	The nasopharyngeal and oropharyngeal swabs should be placed in the same tube to increase the viral load.	Bronchoalveolar lavage	sterile container*	4 °C	≤48 hours: 4 °C >48 hours: -70 °C	There may be some dilution of pathogen, but still a worthwhile specimen	Tracheal aspirate, nasopharyngeal aspirate or nasal wash	sterile container*	4 °C	≤48 hours: 4 °C >48 hours: -70 °C	Not applicable	Sputum	sterile container	4 °C	≤48 hours: 4 °C >48 hours: -70 °C	Ensure the material is from the lower respiratory tract	Tissue from biopsy or autopsy including from lung	sterile container with saline	4 °C	≤24 hours: 4 °C >24 hours: -70 °C	Autopsy sample collection preferably to be avoided	Serum (2 samples – acute and convalescent)	Serum separator tubes (adults: collect 3-5 ml whole blood)	4 °C	≤5 days: 4 °C >5 days: -70 °C	Collect paired samples: • acute – first week of illness • convalescent – 2 to 3 weeks later
Specimen type	Collection materials	Transport to laboratory	Storage till testing	Comment																																
Nasopharyngeal and oropharyngeal swab	Dacron or polyester flocked swabs*	4 °C	≤5 days: 4 °C >5 days: -70 °C	The nasopharyngeal and oropharyngeal swabs should be placed in the same tube to increase the viral load.																																
Bronchoalveolar lavage	sterile container*	4 °C	≤48 hours: 4 °C >48 hours: -70 °C	There may be some dilution of pathogen, but still a worthwhile specimen																																
Tracheal aspirate, nasopharyngeal aspirate or nasal wash	sterile container*	4 °C	≤48 hours: 4 °C >48 hours: -70 °C	Not applicable																																
Sputum	sterile container	4 °C	≤48 hours: 4 °C >48 hours: -70 °C	Ensure the material is from the lower respiratory tract																																
Tissue from biopsy or autopsy including from lung	sterile container with saline	4 °C	≤24 hours: 4 °C >24 hours: -70 °C	Autopsy sample collection preferably to be avoided																																
Serum (2 samples – acute and convalescent)	Serum separator tubes (adults: collect 3-5 ml whole blood)	4 °C	≤5 days: 4 °C >5 days: -70 °C	Collect paired samples: • acute – first week of illness • convalescent – 2 to 3 weeks later																																
<i>*For transport of samples for viral detection, use VTM (viral transport medium) containing antifungal and antibiotic supplements. Avoid repeated freezing and thawing of specimens.</i>																																				
Specimen labelling and processing: <ul style="list-style-type: none"> Personal protective equipment (apron, hand gloves, face shield, N95 Masks etc.) need to be used and all biosafety precautions should be followed so as to protect individuals and the environment. Proper labelling (name/age/gender/specimen ID) need to be done on specimen container and other details of sender (name/address/phone number) on the outer container by mentioning "To be tested for 2019-nCoV" For any queries, the nodal officer from ICMR-NIV Pune (Dr Yogesh K. Gurav, Scientist E) may be contacted (Phone 020-26006290/ 26006390; Email: gurav.yk@gmail.com/gurav.yk@gov.in) and need to be informed in advance before sending specimens to ICMR-NIV, Pune. 																																				

Specimen Collection, Packaging and Transport Guidelines for 2019 novel Coronavirus (2019-nCoV)

Requirements for Clinical Samples Collection, Packaging and Transport			
1. Sample vials and Virus Transport Medium (VTM) 	2. Adsorbent material (cotton, tissue paper), paraffin, seizer, cello tape 	3. A leak-proof secondary container (e.g., ziplock pouch, cryobox, 50 ml centrifuge tube, plastic container) 	
4. Hard-frozen Gel Packs 	5. A suitable outer container (e.g., thermocol box, ice-box, hard-board box) (minimum dimensions: 10 x 10 x 10 cm) 		
Procedure for Specimen Packaging and Transport			
1. Use PPE while handling specimen 	2. Seal the neck of the sample vials using parafilm 	3. Cover the sample vials using absorbent material 	4. Arrange primary container (vial) in secondary container 
5. Placing the centrifuge tube inside a zip-lock pouch 	6. Placing the zip-lock pouch inside a sturdy plastic container and seal the neck of the container 	Note: Sample vials can also be placed inside a zip-lock pouch, covered in absorbent material and secured by heat-sealing or rubber bands. Then, the zip-lock pouch should be placed inside another plastic pouch and secured	7. Using a thermocol box as an outer container and placing the secondary container within it, surrounded by hard-frozen gel packs 
7. Using a hard card-board box as an outer container and placing the secondary container and the gel packs 	8. Placing the completed Specimen Referral Form (available on www.niv.co.in) and request letter inside a leak-proof, zip-lock pouch 	9. Securing the zip-lock pouch with the Specimen Referral Form on the outer container 	10. Attaching the labels: <ul style="list-style-type: none"> • Senders' address, contact number; Consignee's address/contact number; • Biological substance-Category B; • 'UN 3373'; Orientation label, Handle with care 
Documents to accompany: 1) Packaging list/proforma Invoice 2) Air way bill (for air transport) (to be prepared by sender or shipper) 3) Value equivalence document (for road/rail/sea transport) [Note: 1. A vaccine-carrier/ice-box can also be used as an outer container 2. The minimum dimensions of the outer container should be 10 x 10 x 10 cm (length x width x height)]			
Routing of samples: <ul style="list-style-type: none"> • Clinical specimens, official documents and Specimen request forms for testing of 2019-nCoV need to be sent to the ICMR-NIV address (The Director, ICMR-National Institute of Virology, 20-A, Dr Ambedkar Road, Pune, Maharashtra, Pin: 4110001). • For shipment-related queries/information, kindly contact Dr Sumit Bharadwaj (Scientist B, Influenza Group) on email: sumitduttbhardwaj@gmail.com, phone 020-26006290/26006390 			

Annexure: 2

Advisory for sample collection for suspected cases of Covid 19

In view of anticipated increase in number of suspected cases of Covid 19, the collection of samples for testing for SARS-CoV2 will be expanded up to the level of District hospitals & Sub-divisional hospitals.

Adequate quantities of sample collection kits and PPE kits will be supplied to these hospitals where sample collection will be performed.

Who will be tested:

Testing will be carried out on:

- persons fitting in the definition of 'suspected case for testing' as identified by physician.
- persons fitting in the definition of 'suspected case for testing' as identified by RRT during contact tracing of positive cases OR during community surveillance.
- All family members of lab confirmed positive cases irrespective of symptoms.

Where will the sample collection be carried out:

Sample collection should ideally be done in a designated room in the identified health facility with all the safety protocols as per Annexure-2.

During implementation of cluster containment plan, sample collection from contacts may be done at home by RRT team member.

District RRT will guide the laboratory technician/personnel involved in sample collection.

What precautions will be taken during sample collection:

Minimum personnel should be there during sample collection. The person collecting the sample should wear full PPE as per Annexure-2.

Where will the sample be transported:

Three zones will be created for the three testing laboratories namely RMRI -Patna, IGIMS - Patna & DMCH – Darbhanga. The list of districts allocated to each zone along with details of nodal person in each lab is enclosed at Annexure-1.

How will the transportation be done:

The patients suspected by physician in health facility should be escorted to collection centre and a mask will be provided to it.

Patients suspected through contact tracing or community surveillance will be transported to designated health facility in an ambulance/vehicle provided by DHS.

Arrangement of transport of sample to designated lab should be done prior to collection of samples.

All the samples should be transported to the designated lab on the day of collection itself. However, multiple trips to be avoided, and a scheduled time may be set at which the samples will be sent to the lab.

Where will the suspected cases be placed while awaiting results:

All suspected cases should be placed in isolation ward while awaiting the results.

Family members of lab confirmed cases should also be placed in isolation ward.

All precautions should be undertaken for infection prevention & control, positive cases and suspected cases should be placed separately.

Reporting of test results:

Test results by the designated laboratories will be shared with IDSP cell at state level.

- State IDSP cell will intimate the findings of result with Superintendent/MO I/c of health facility from which sample was sent and district IDSP cell.
- Superintendent/MO I/c of health facility will share the result with patient. In case of availability of phone number of positive cases, IDSP cell will inform the result to patient.
- District IDSP cell will share requisite information with stakeholders involved in containment plan.


What should be done after the result of Covid 19 testing:

If negative, the person will be placed in 'designated quarantine facilities' for a period of 14 days since the last day of suspected exposure. Surveillance at 'home quarantine' to be continued for another 14 days thereby completing 28 days after suspected exposure even if the test is negative.

If test result is positive, then the patient should be immediately put in isolation ward in the health facility.

Allocation of districts to three laboratories for Covid 19 testing

S. No.	Laboratory	District
1	DMCH	Araria
2		Darbhanga
3		Katihar
4		Kishanganj
5		Madhepura
6		Madhubani
7		Muzaffarpur
8		Purnia
9		Saharsa
10		Samastipur
11		Sheohar
12		Sitamarhi
13		Supaul
14	IGIMS	Arwal
15		Aurangabad
16		Bhojpur
17		Buxar
18		East Champaran
19		Gopalganj
20		Jehanabad
21		Kaimur
22		Rohtas
23		Saran
24		Siwan
25		West Champaran
26	RMRI	Banka
27		Begusarai
28		Bhagalpur
29		Gaya
30		Jamui
31		Khagaria
32		Lakhisarai
33		Munger
34		Nalanda
35		Nawada
36		Patna
37		Sheikhpura
38		Vaishali


 28/3/20
 SSO (B&F)