







## Preparing the Workplace for Coronavirus

# COVID 19 update: RTW medical screening

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### HOW TO STAY INFORMED: THIS SITUATION IS RAPIDLY EVOLVING Please check for updates on the NHLS, NIOH , NICD, and NDOH websites

www.nhls.ac.za | www.nioh.ac.za | www.nicd.ac.za | www.nicd.ac.za | www.nicd.ac.za |

Latest updated information on the spread of COVID-19 https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports

Advice and guidance

https://www.who.int/emergencies/diseases/novel-coronavirus-2019 https://www.ilo.org/beijing/information-resources/publicinformation/WCMS\_736744/lang--en/index.htm





COVID-19 CORONAVIRUS PANDEMIC

Last updated: May 05, 2020, 17:17 GMT

Graphs - Countries - Death Rate - Symptoms - Incubation - Transmission - News

### Coronavirus Cases:



view by country

Deaths: 255,176

Recovered:

1,221,082

## South African COVID-19 cases as at the 4 May 2020

PROVINCE	COVID-19 Confirmed Cases
Eastern Cape	838
Free State	128
Gauteng	1697
KwaZulu-Natal	1142
Limpopo	40
Mpumalanga	57
North West	35
Northern Cape	26
Western Cape	3609
Unknown	0
Total	7572

### Deaths: 148

### **Recoveries:2746**







Direct contact: Touching an ill persons or a contaminated surface

**Droplet transmission: inhaling droplets** 

- Coughing & sneezing generates droplets of different sizes
- Larger droplets fall to the ground within a 1-2m radius of the person within a few seconds

### Update on persistence of COVID-19



- COVID-19 virus has a fragile outer membrane - it is less stable in the environment and can be killed by simple disinfectants
- Survival time in the environment depends
  on
  - pH
  - Innoculum size
  - Dryness
  - Temperature
  - Exposure to disinfectants
  - Type of surface
- Common disinfectants such as 70% ethanol and bleach can kill the virus



## COVID-19

### Patients with COVID-19 have experienced mild to severe respiratory illness



#### health Department: Health RePUBLIC OF SOUTH AFRICA

#### NATIONAL HEALTH LABORATORY SERVICE

NATIONAL INSTITUTE FOR COMMUNICABLE DISEAS



Persons with acute respiratory illness with sudden onset of **at least one** of the following:

🗅 cough

- sore throat
- □ shortness of breath or
- ☐ fever [≥ 38°C (measured) or history of fever (subjective)]

Other symptoms can include:muscle aches, nausea, vomiting, diarrhoea, abdominal pain headache, runny nose, loss of taste and smell fatigue

COVID-19 IS DIAGNOSED BY A LABORATORY TEST, POLYMERASE CHAIN REACTION (PCR) MOLECULAR TEST, ON A RESPIRATORY TRACT SAMPLE. SAMPLES ARE

THE NOSE,

THROAT OR

CHEST.

### Food slide

Potential transmission of COVID-19 via food

- Contracting COVID-19 from food or food packaging : Highly unlikely
- COVID-19 is a respiratory illness and the primary transmission route is through person-to person contact and through direct contact with respiratory droplets generated when an infected person coughs or sneezes.
- There is no evidence to date of viruses that cause respiratory illnesses being transmitted via food or food packaging.
- Coronaviruses cannot multiply in food; they need an animal or human host to multiply.
- The most recent advice from the WHO3 is that current evidence indicates that COVID-19 virus is transmitted during close contact through respiratory droplets (formed on coughing or sneezing) and by fomites.

### Potential sources of SARS CoV2 exposure in the workplace



### Mitigation of risk in the workplace

### Primary prevention (prevent people getting the disease)

- Minimise risks of transmission in the workplace. HRA including controls (Engineering, Administrative and PPE)
- Business continuity and pandemic preparedness Policies
- Education and Training /HP (risk communication)

### Secondary Prevention (pick up early when there is disease)

- Identify persons at risk early and respond appropriately
- Medical Surveillance

### **Tertiary prevention (prevent complications from the disease)**

- Rehabilitation
- Respond appropriately to a case of COVID amongst staff- incident investigation and contact tracing
- Compensation/COIDA
- Leave

### Workplace preparedness

Risk assessment (potential ↑risk of transmission)

-operations

- activities
- shared spaces (among employees & employees/public)

### **Administrative Controls**

A workplace plan of action for preparedness

- Clear infection prevention and control and standard precautic
- Controlled access to practices, avoid overcrowding high risk areas and laboratories
- Workplace facilities
- Access control- staff, visitors, dedicated streamlined/controlled access
- Adequate staff and more office space- working offsite- avoid overcrowding
- Limit the number of meetings, use teleconferencing and video conferencing, minimize travel, work from home
- Avoid mass gatherings and events
- Ensure **proper signage** and **risk communication** to staff and visitors to health facilities
- Review of cleaning and disinfection material and supplies procedures
- Established public health reporting procedures should be swiftly followed
- Guidelines, action plans and protocols for confirmed cases



# Medical surveillance in line COVID-19 risk

- Risk-based
- Determined at the guidance of the OMP
- Early detection of infected employees
  - Removal of infected individual and isolated
  - Early referral for appropriate treatment, care and timeous return to work of affected workers
- Prevent spread to other unaffected staff, consumers, visitors and clients
  - Prompt identification and isolation of potentially infectious individuals
  - Quarantining
  - Contact tracing
  - Effective return to work practices
  - Workplace restrictions





### **Medical monitoring strategies for COVID-19**

- Self-monitoring
  - Employees monitor themselves for fever by taking their temperature twice a day and symptoms of COVID-19 (e.g., cough, shortness of breath, sore throat, myalgia, malaise)
  - They should be provided with a plan for whom to contact if they develop fever or respiratory symptoms
- Active monitoring
  - Regular communication with potentially exposed employee to assess for the presence of fever or symptoms of COVID-19
  - For employees with high exposure in the workplace
  - Communication should occur at least once each day
  - Can be delegated by occupational health or infection control program
- Self-Monitoring with delegated supervision
  - employee perform self-monitoring with oversight by occupational health or infection control program
  - On days employees are scheduled to work, facilities could consider measuring temperature and assessing symptoms prior to starting work.

https://www.cdc.gov/coronavirus/2019-ncov/hcp/guidance-risk-assesment-hcp.html

### **Types of screening**

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- Symptom questionnaire
- Temperature screening
  - Fever is either measured temperature >38°C or subjective fever.
  - Fever may be intermittent or may not be present in some patients, such as those who are elderly, immunosuppressed, or taking certain medications (e.g., NSAIDs).
  - Clinical judgement should be used to guide testing of patients in such situations.
  - Medical evaluation may be recommended for lower temperatures (< 38° C) or other symptoms (e.g., muscle aches, nausea, vomiting, diarrhoea, abdominal pain headache, runny nose, loss of taste and smell fatigue) based on assessment by OMP.</li>



### **Example of a screening tool**

Surname			First Name			Date of Birth	
Contact Cell number			E-mail address		Category of Essential Worker (Select from addendum 1)		
Alternative contact number					Job Title	-	
Next of Kin or Alternative Conta	ict (Please provi	de name, relati	onship and con	tact details)			
Work address & details:							
Home address:							
Days post exposure	1	2	3	4	5	6	7
Date: DD/MM							
Document morning + evening	AM / PM	AM / PM	AM / PM	AM / PM	AM / PM	AM / PM	AM / PM
Temperature (no meds)	I	T	I	I	I	I	I
Respiratory rate	1	I	I	I	I	1	I
Pulse rate	1	I	I	I	1	1	I
Symptoms (Circle Y or N)	Daily	Daily	Daily	Daily	Daily	Daily	Daily
Fever/Chills	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N
Cough	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N
Sore throat	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N
Shortness of breath	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N
Body aches	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N
Redness of the eyes	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N
Loss of smell OR loss of taste	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N
Nausea/vomiting/diarrhoea	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N
Fatigue/ weakness	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N
At Home or work?	H / W	H / W	H / W	H / W	H / W	н/ W	H / W
Clinical and Progress Notes and	Exposure Histor	ry:					

### **Recommended procedure**

- Determine the risk of COVID -19 to your employees
- At start of every shift, screen workers for symptoms associated with COVID-19, namely fever, cough, sore throat, redness of eyes or shortness of breath (or difficulty in breathing)
- Should an employee report any of the symptoms
  - If at home they should not report for work
- If at work they should immediately be immediately isolated, provided with a surgical mask and transported for further medical intervention
- Assess the risk of transmission, disinfect the area where the worker made contact
- On receiving their results the employee and/or health professional should notify their workplace so that the employee is managed accordingly.
- Notify to the NICD

2

3

4

5

· Contact tracing in the workplace

# Workplace protocols that need to be in place

- In the event of a symptomatic person to be referred to testing and treatment- isolation, contact tracing
- In the event of a positive employee in the organization
- Return to work protocol of infected employee
- Restriction of infected employees in the workplace following return to work

### Worker with a positive COVID-19 result

Worker with a positive COVID-19 result

Sick leave and the worker to self isolate at home Disinfect the workers area

Ensure that the disease is notified to the NICD and COIDA if applicable

**Incident investigation** 

Contact tracing in the workplace

Return to work

### **Return to work- exclude from work until:**

- Test-based strategy.
  - Resolution of fever without the use of fever-reducing medications, and
  - Improvement in respiratory symptoms (e.g., cough, shortness of breath), and
  - Negative results of COVID-19 testing from at least two consecutive swab specimens collected ≥24 hours apart
- Non-test-based strategy.
  - At least 3 days (72 hours) have passed since recovery defined as resolution of fever without the use of fever-reducing medications and improvement in respiratory symptoms (e.g., cough, shortness of breath); and,
  - At least 10 days have passed since symptoms first appeared

### **Return to work**

- All employees on returning to work after isolation or quarantine period, should follow general work restrictions that include:
  - undergo medical evaluation to confirm that they are fit to work
  - wearing of surgical masks at all times while at work for a period of 21 days from the initial test
  - implement social distancing measures as appropriate
  - adherence to hand hygiene, respiratory hygiene, and cough etiquette
  - continued self-monitoring for symptoms
  - seek medical re-evaluation if respiratory symptoms recur or worse

### **Contact Tracing**

### Any person who has had **close contact with a confirmed case** while the confirmed case was **ill**.

 people working closely in the same environment



### Close contacts under monitoring should be advised to:

- Close contacts MUST self-quarantine at home for 14 days after exposure to the confirmed COVID-2019 and take their temperature daily
- Remain at home
- Avoid unnecessary social contact or travel
- Remain reachable for monitoring

#### OUTBREAK RESPONSE, DIVISION OF PUBLIC HEALTH SURVEILLANCE AND RESPONSE 9.3 Appendix 3 – flow diagram for contact tracing, screening and monitoring

CENTRE FOR RESPIRATORY DISEASES AND MENINGITIS



https://www.nicd.ac.za/wp-content/uploads/2020/03/NICD\_DoH\_COVID-19\_Guidelines\_8\_March\_2020\_final.pdf

### **Consider vulnerable workers**

- Age greater than 60
- Cardiovascular disease
- Diabetes mellitus
- Cancer
- Chronic respiratory disease
- Chronic renal disease
- Pregnant workers
- Employees on immunosuppressive therapy i.e. systemic corticosteroids
- HIV diagnosed workers who are virally unsuppressed

## Minimise risks of transmission in the workplace – MUST BE SAID AGAIN!



- Screening and identification of potentially affected employees, limit contact and movement
- Review the HRA and the hierarchy of controls
- Social distancing
- Promote regular and thorough handwashing by employees, contractors and customers
- Respiratory hygiene
- Avoid touching your face, especially while working.
- Advise workers on self-assessment, symptom reporting and sick leave policies
- Encourage / insist that symptomatic persons stay away / self isolate

## If you suspect you have been exposed to COVID-19

Alert your supervisor and occupational health clinic immediately

If you are experiencing symptoms, inform your health care provider about any contacts and recent travel to areas affected by COVID-19

Workplace queries:



info@nioh.ac.za

0800 212 175

For more information contact NICD: 080 002 9999

www.nicd.ac.za or www.nioh.ac.za

### ACKNOWLEDGEMENTS

- NHLS Management
- NIOH Outbreak Response Team
- NICD

