







Preparing the Workplace for Coronavirus

COVID 19 update and workplace preparedness for environmental health practitioners Dr Odette Volmink

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Division of the National Heralth Laboratory Service

Healthy, Safe and Sustainable Workplaces

PROMOTING DECENT WORK THROUGH CUTTING EDGE RESEARCH SERVICE DELIVERY AND TRAINING

Improve and **TEACHING** promote workers' health and safety & TRAINING **SPECIALISED SERVICES** Catalyst for a mind set change towards greater prevention **KNOWLEDGE** GENERATION Inform regulation, OCCUPATIONAL policy and **HEALTH** standards Public and private OUTBREAK sectors of the RESPONSE economy **ADVISORY** Formal and **SERVICES** informal economies

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

Global cases: 2 588 068 Deaths:182 808 as of 23 April 2020

Geographic distribution of COVID-19 cases worldwide, as of 23 April 2020



oundaries and names shown on this map do not imply official endorsement or acceptance by the European Union.



SA confirmed cases: 3 953

South African COVID-19 cases

- Travel
- Community acquired spread
- Occupationally acquired -health workers









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



Call the COVID-19 Hotline: 0800 029 999 Send 'hi' on Whatsapp to COVID-19 Connect: 060 012 3456 Visit the website www.sacoronavirus.co.za



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Person under investigation

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)]

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

SAMPLES ARE COLLECTED FROM THE NOSE, THROAT OR CHEST.

Potential sources of SARS CoV2 exposure in the workplace



Workers at increased risk for workplace/occupationally acquired COVID-19

- Healthcare workers
- Emergency response and public safety workers
- Post mortem care
- Laboratory workers
- Environmental health workers
- Airline operators
- Retail workers
- Correctional facility workers
- Solid waste and wastewater management workers
- Travel to high risk places



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

Back to basics....

Hazard identification & Risk assessment

A workplace specific Risk Assessment

- Determine the RISK of EXPOSURE to COVID-19
- Communicate to all in the workplace (workers and visitors) workers
- Risk assessment (potential risk of transmission)
 - operations
 - activities
 - shared spaces (among employees & employees/public)



Hierarchy of controls



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



Educate and inform employees (risk communication)



- Give people facts about how the disease is transmitted
- Infection prevention and control including hand and respiratory hygiene practices
- Correct donning and doffing and disposal of PPE
- Advise workers on self-assessment, symptom reporting and sick leave policies if exposed
- Influenza vaccinations to prevent possible co infection with influenza
- Understand travel risks and make informed decisions re risk-benefit of travelling
- Public Hotline number 0800 029 999

Training & Awareness

- Sensitise skeleton staff
- Communicate staff @home
- Key operational ppl (HR/access control personnel)
- Procedures to be followed
- Procedure review

Personal Protective Equipment (PPE)

- An effective measure within a complete package of mitigation and control strategies
- Ensure adequate and appropriate PPE is available.
- Consider the PPE based **on a risk assessment**:
- Used PPE should be considered contaminated and discarded in accordance with safe practice
- Surgical masks should be available for people with respiratory symptoms that are being cared for in the community

Elimination



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



Types of screening



- 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.

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
 - in the case of health workers avoiding contact with severely immunocompromised patients
 - Report where appropriate for compensation

Medical management

- Medical fitness issues and RTW
- Mental health issues
- Impairment assessment/Compensation
- Work restrictions

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.
- 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

Enquiries : info@nioh.ac.za NIOH Helpline for workplace advice: 0800 212 175

For more information contact NICD: 080 002 9999

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

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