









# Preparing the Workplace for Coronavirus

### Shop Stewards 26/05/202

### Dr Mpume Ndaba Occupational Medicine Specialists NIOH

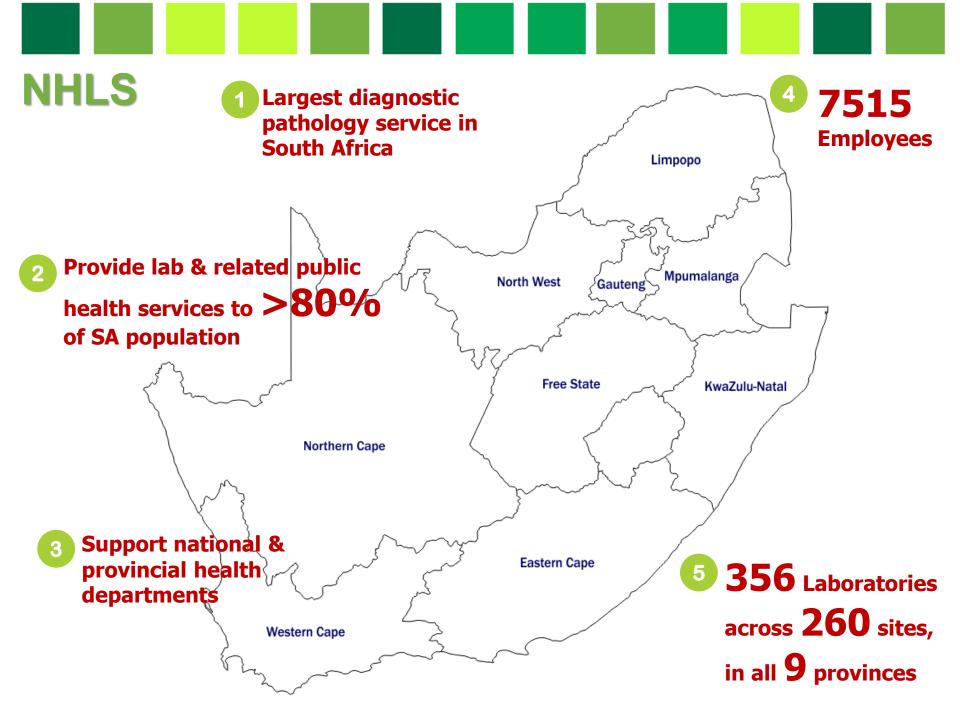
Practice No.: 5200296

Office: + 27 (0) 11 712 6400 Email: info@nioh.ac.za

To be better //www.nied.com

Website: http://www.nhls.ac.za; http://www.nioh.ac.za; http://www.nicd.ac.za

COVID TRAINING: 09 March 2020





### **Healthy, Safe and Sustainable Workplaces**

### PROMOTING DECENT WORK THROUGH CUTTING EDGE RESEARCH SERVICE DELIVERY AND TRAINING





Improve and promote workers' health and safety





Catalyst for a mind set change towards greater prevention







Public and private sectors of the economy





# 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

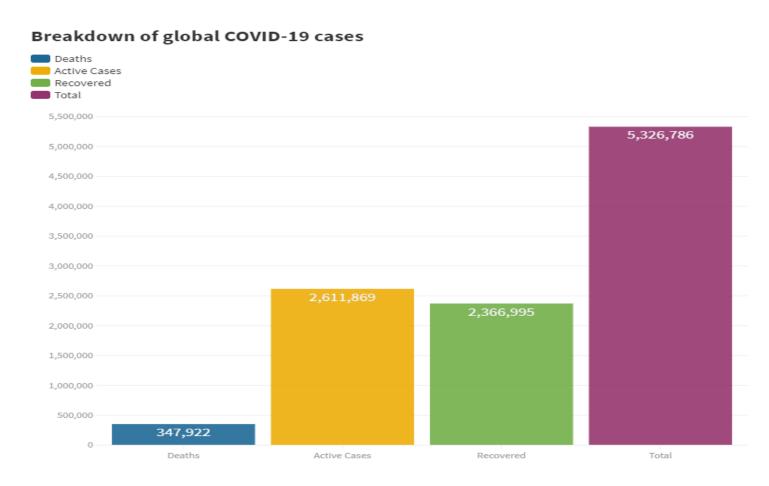
https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports

#### Advice and guidance

https://www.who.int/emergencies/diseases/novel-coronavirus-2019 https://www.ilo.org/beijing/information-resources/public-information/WCMS 736744/lang--en/index.htm

### Global infections: 5,326,786 Deaths: 347

### as of 25 May 2020





### COVID-19 STATISTICS IN RSA

Unknown: 0

Confirmed cases: 23 615

Tests conducted: 596 777

Deaths: 481

Recoveries: 11 917

| Province      | Deaths | Recoveries |
|---------------|--------|------------|
| Eastern Cape  | 61     | 1 335      |
| Free State    | 6      | 121        |
| Gauteng       | 30     | 1 899      |
| KwaZulu-Natal | 49     | 1 168      |
| Limpopo       | 3      | 55         |
| Mpumalanga    | 0      | 61         |
| North West    | 1      | 29         |
| Northern Cape | 1      | 28         |
| Western Cape  | 330    | 7 221      |

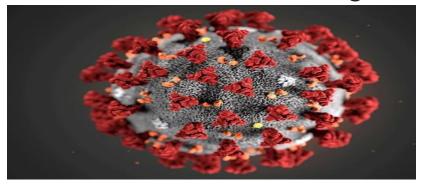




### South African COVID-19 issues

- Lock down March 20
- Lock down & Upliftment after 30 April 2020 (levels 5/4/3 etc.)
- Travel and community acquired spread
- Occupational cases (currently health workers)
- Workplaces: travel related, teachers, health workers, retail workers, correctional services mining, etc.



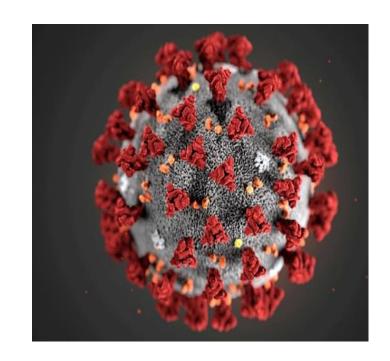




### Microbiology and epidemiology

 Coronaviruses are responsible for the common cold, and usually cause self-limited upper respiratory tract infections

 Novel- new/unknown .... No immunity



### **TRANSMISSION**



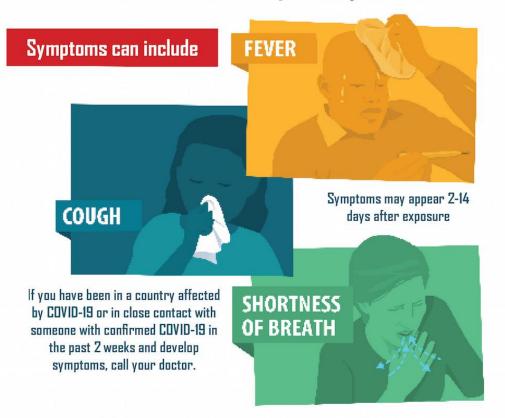
Direct contact: Touching an ill persons or a contaminated surface

**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
- More infectious when symptomatic

### 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





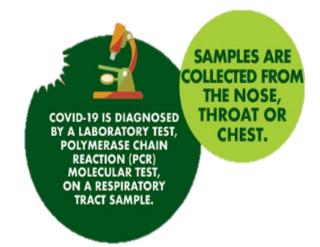




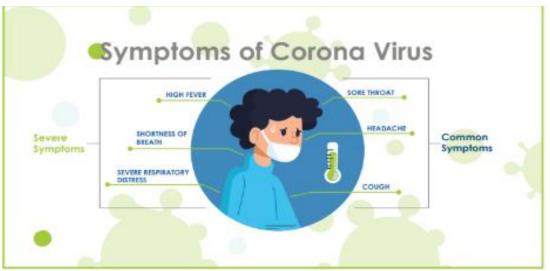
## Person under investigation

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)]



### Symptoms and clinical outcome



- 80% of persons have mild-moderate disease (common 'flu' or cold)
- 15% of cases require hospital admission
- 5 % of cases are become critically ill and require ICU of which 2% die
- Persons with underlying co-morbid illness esp. pulmonary disease, elderly, immunocompromised, etc.

### Isolation and quarantine

### Quarantine

 Separation of asymptomatic persons for a period longer than the incubation period of the disease

### Isolation

 Separation of a symptomatic (ill) person to ensure that the disease is not transmitted

### **Treatment**



- Currently no vaccines for COVID-19
- No specific treatment for disease caused by SARS-CoV-2 infection
- Early supportive therapy and monitoring



# Update on persistence of COVID-19



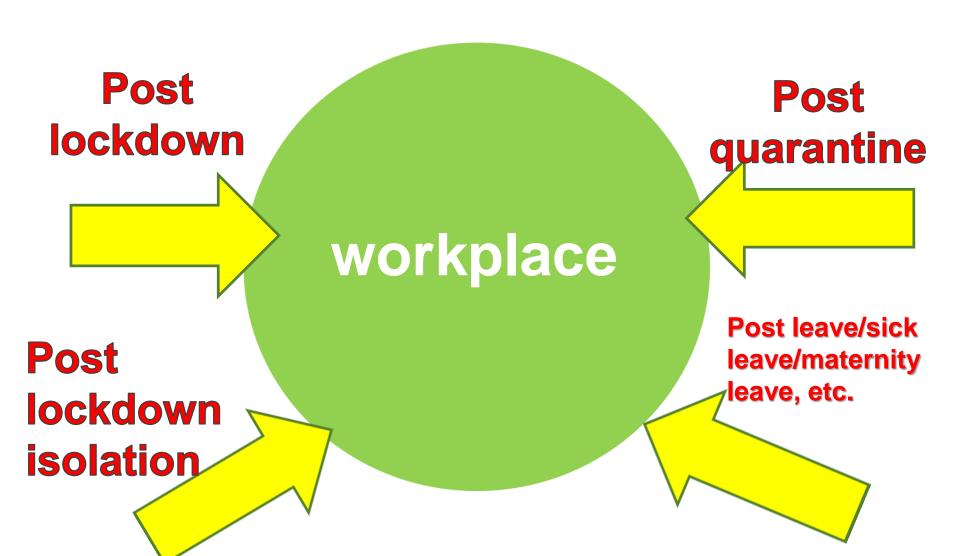
- COVID-19 virus has a fragile outer membrane - it is less stable in the environment and can be killed by simple disinfectants
- Survival time in the environment depends on
  - pH
  - Innoculum size
  - Dryness
  - Temperature
  - Exposure to disinfectants
  - Type of surface
- Common disinfectants such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



### POTENTIAL SOURCES OF EXPOSURE IN THE WORKPLACE



### **RETURN TO WORK**



### Risk & Consequence: Employees

| RISK                        | CONSEQUENCE                                  |
|-----------------------------|----------------------------------------------|
| Risk of exposure            | Infection (acquired & transmit)              |
| Financial risk              | e.g. Medical aid, sick leave (exhausted)     |
| No medical aid cover        | Use of already overburdened public services  |
| Asymptomatic workers        | Transmissions to others                      |
| Mental health               | Psychological and psychiatric disorders      |
| Return to work / disability | Rehabilitation and accommodation of employee |

### Workers at risk of infection

- Every person may be at risk of exposure to COVID-19, however..
- The risk is higher for workers interacting with persons that may be potentially infected
- Immunocompromised workers are at higher risk of infection e.g. pre-existing conditions such as
  - asthma
  - diabetes
  - heart disease
  - cancer
  - kidney failure

### Workers at risk of exposure

#### High risk :occupational

- Airline operations (e.g. airline cabin crew, aircraft cleaners, mechanics)
- Boarder control (e.g. security officials, and other boarder officials)
- Health care (e.g. EMS workers, nurses, doctors, other medical staff)
- Laboratories (e.g. medical technologists, scientists, laboratory aids and researchers)
- Pathology and funeral services (e.g. mortuary attendants, autopsy technicians and funeral directors)
- Solid waste and wastewater management (e.g. waste pickers, water treatment plant workers)
  - **Carers and teachers**

#### Other categories that might be exposed

- Persons interacting with people
- Teaching staff
- Cleaners
- Security worker
- Transport people
- Canteen & Tuck shop workers
- Maintenance staff

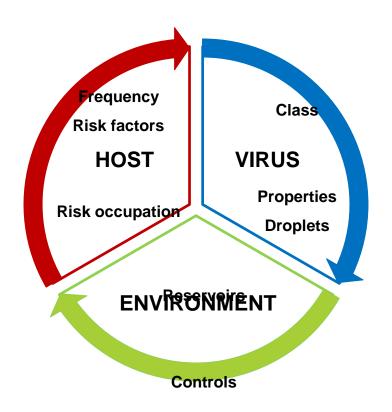


Visitors

# Back to basics.... Hazard identification & Risk assessment

A workplace specific Risk Assessment

- To determine the RISK of EXPOSURE to COVID-19 & communicate to all in the workplace (workers and visitors)
   workers
- To include all other hazards
  - Biological, Physical, Chemical, Ergonomic
  - Psychosocial exposure to long working hours, psychological distress, fatigue, occupational burnout, stigma, physical and psychological violence



Different workers have different risk exposures: based on job specific risk assessments

### Mitigation of risk in the workplace considerations

### **Primary prevention**

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

Secondary Prevention (identify people at risk & respond early)

**Tertiary Prevention** 



### Workplace Changes for consideration

- Engineering controls (reviewed or improved ventilation, natural, mechanical)
- Administrative controls
- Substitution
- PPE

#### <u>Admin</u>

Social distancing

More office space- working offsite

Workplace facilities

Access control- staff, visitors, dedicated streamlined/controlled access

### **Educate and inform (risk communication)**

- Communication platforms... accessible to all workers
- Relevant and credible information around COVID-19
  - Facts about how the disease is transmitted
  - An updated list of affected countries.
  - Latest policies regarding sick leave.
  - Don't punish people for staying away for 'flu'
  - Make it possible to work from home
- Understand travel risks and make informed decisions re
  - risk-benefit of travelling
- Public Hotline number 0800 029 999



### **Training & Awareness**

- Sensitise skeleton staff
- Communicate with staff @home
- Key operational ppl (HR/access control personnel)
- Procedures to be followed
- Procedure review
- Confidentiality vs Public health outbreak
- Health Promotion



### **Prevention practices**







Practice good hand and respiratory hygiene.



Avoid close contact with people who are coughing.



Stay at home if you are ill.



Wipe down all surfaces with disinfectant.

### Minimise risks of transmission in the workplace

- Screening and identification of potentially affected employees, limit contact and movement
- 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

### Workplace preparedness

- Anticipated number of staff
- Opening up services (employee-public shared spaces)
- Risk assessment (potential ↑risk of transmission)
  - operations
  - activities
  - shared spaces (among employees& employees/public)

### Workplace practices to review

- Mass gathering (water/coffee stations, common areas)
- Waiting areas-clinic, medicals etc.
- Meetings (forums, etc.)
- Specific procedures: spirometry (consider method &assess risk), breathalysers (safety risk), etc.
- Access control methods (biometrics, signing-in with common material)
- Public spaces... workers

### **ACKNOWLEDGEMENTS**

- NHLS Management
- NIOH Outbreak Response Team
- NICD

Questions info@nioh.ac.za

NIOH 24hr- hotline 0800 212 175

