











Construction Work 04/06/2020



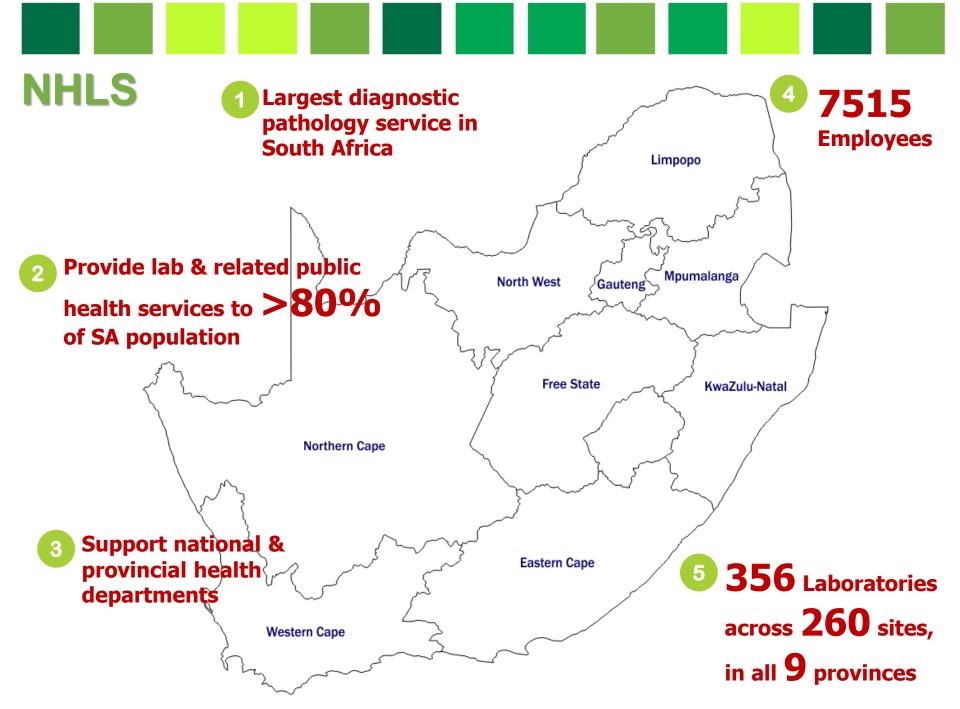
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COVID TRAINING: 09 March 2020





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



Inform regulation,



Public and private sectors of the economy



Formal and 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

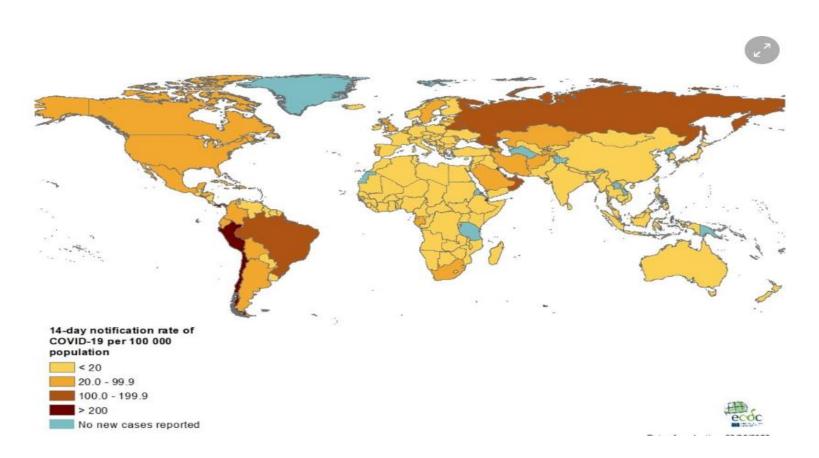
Advice and guidance

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

Global infections: 6,586,010

Deaths: 388,250

as of 04 June 2020





COVID-19 STATISTICS IN RSA

Unknown: 5

Confirmed cases: 37 525

Tests conducted: 785 979

Deaths: 792

Recoveries: 19 682

Province	Deaths	Recoveries
Eastern Cape	95	2 123
Free State	8	123
Gauteng	33	2 169
KwaZulu-Natal	54	1 248
Limpopo	3	145
Mpumalanga	0	86
North West	1	59
Northern Cape	1	33
Western Cape	597	13 696





South African COVID-19 issues

- Lock down March 20
- Lock down & Upliftment after 30 April 2020 (levels 5/4/3)
- Travel and community acquired spread
- Occupational cases (currently health workers)
- Workplaces: travel related, teachers, health workers, retail workers, correctional services mining, etc.
- Level 4: 60% construction work resumed
- Level 3: 100% of construction work expected to resume
- Construction work interfaces with all other industries/workplaces



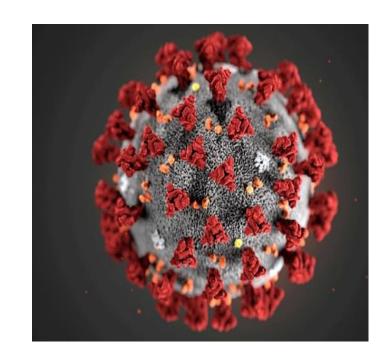




Microbiology and epidemiology

 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

Prevention practices







Practice good hand and respiratory hygiene.



Avoid close contact with people who are coughing.



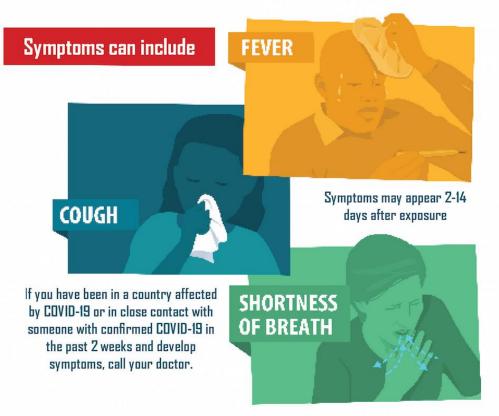
Stay at home if you are ill.



Wipe down all surfaces with disinfectant.

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





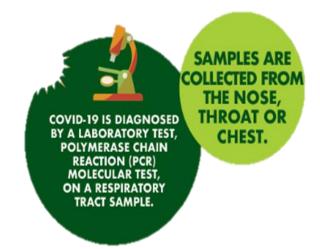




Person under investigation

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



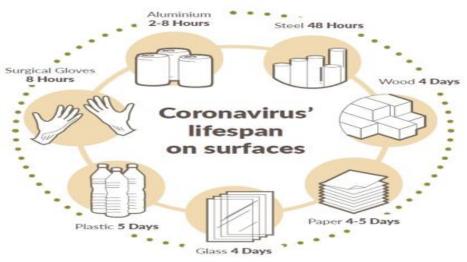
- Currently no vaccines for COVID-19
- No specific treatment for disease caused by SARS-CoV-2 infection
- Early supportive therapy and monitoring



Update on persistence of COVID-19



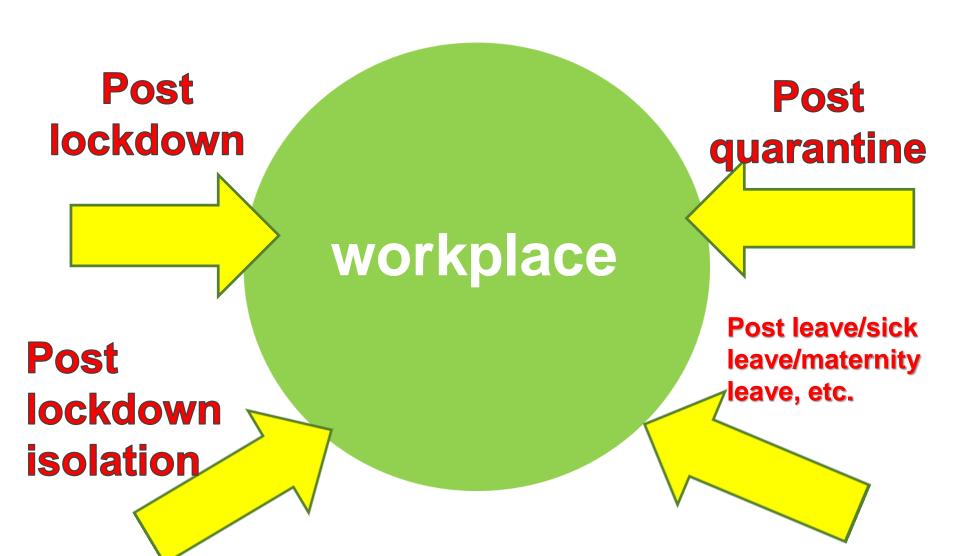
- COVID-19 virus has a fragile outer membrane - it is less stable in the environment and can be killed by simple disinfectants
- Survival time in the environment depends on
 - pH
 - Innoculum size
 - Dryness
 - Temperature
 - Exposure to disinfectants
 - Type of surface
- Common disinfectants such as 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	
	Travelling and no access to health care	
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
 - Other immunocompromising conditions as advised by attending health care provider

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



Construction workers in various settings

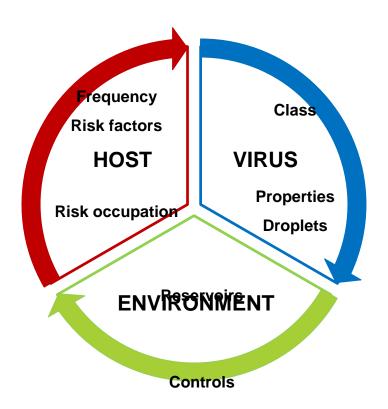
Back to basics.... Hazard identification & Risk assessment

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)
 - Psychosocial exposure to long working hours, psychological distress, fatigue, occupational burnout, stigma, physical and psychological violence

Away from home. Unknown environment.

Access to health facilities. Fear of job loss and employment uncertainty



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

Office based workers: More office space or working offsite

Workplace facilities (ablution facilities, rest rooms, dining facilities and lodging areas...domestic travel)

Time and attendance. Workers in different sites.....contact tracing

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 provinces- planning ahead
 - 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 within and between
 - provinces=hotspots)
- Public Hotline number 0800 029 999



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
- Respiratory hygiene
- Avoid touching your face, especially while working
- Encourage / insist that symptomatic persons stay away / self isolate

Workplace preparedness

- Anticipated number of staff: Plan ahead
- Opening up services (construction in public spaces, workplace with no physical boundaries)
- Risk assessment (potential ↑risk of transmission)
 - operations
 - activities

Construction COVID19 exposure control plan

- Designate a site-specific COVID-19 officer at every job site
- Plan for office staff to have the ability to work from home
- Training
- High touch areas- tools, screws, crew vehicles etc
- Screening: Ask workers to self-identify
- Screen all workers
- Ensure there is aplan for affected workers affected workers
- Social distancing: Implement social distancing procedures
- A plan for working in high risk areas- health care facilities, retail centres

Workplace practices to review

- Transportation
- Mass gathering- (dining together, rest facilities, common areas)
- Waiting areas- clinic- medicals (Construction regulationsmedical assessments etc.)
- Meetings (forums, etc.)
- Health and safety risks and systems review spirometry (consider method &assess risk), breathalysers (safety risk), etc.
- Time and attendance (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

