



OCCUPATIONAL HEALTH

TIME FOR RADICAL ACTION

# **FRONTLINE WORKERS**

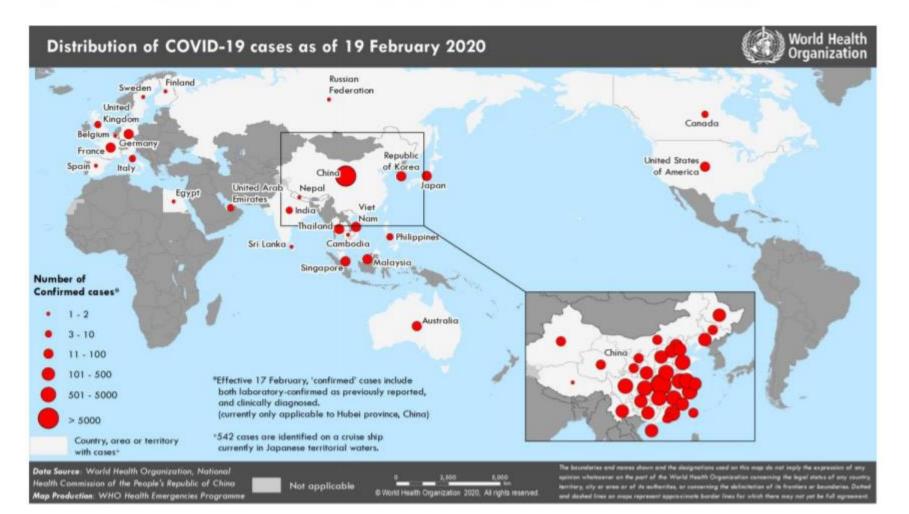
Directly interact with customers/clients and is contrasted with back offices workers who rarely meets a customer/client. Many are essential workers.

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Note: This content may only be reproduced in full, with nothing excluded. Where an abridged form of the content is required, prior written approval must be obtained from the NIOH. All data and statistics referred to were applicable on the date of publication. COVID-19 ONLINE TRAINING: 02/04/2020

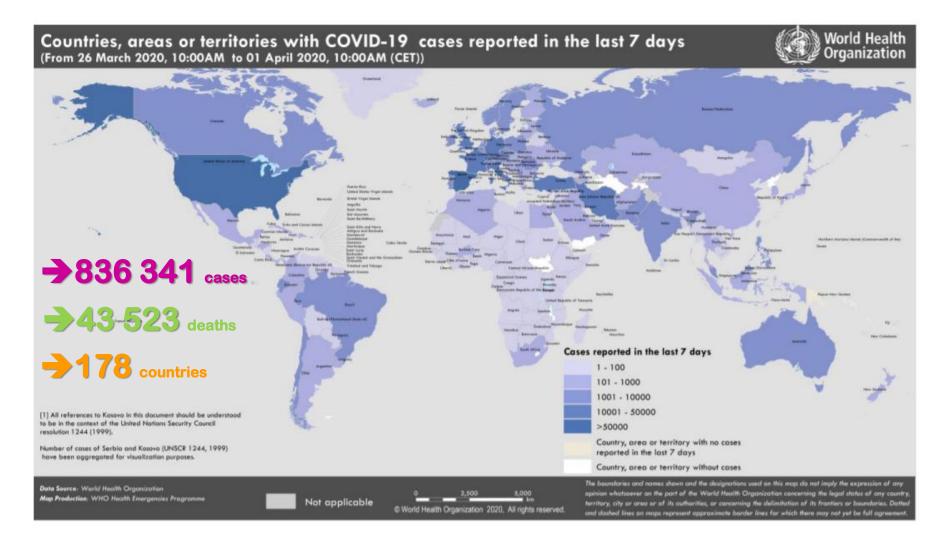
# Globally 75 204 cases & 2009 deaths 25 countries worldwide, AS AT 19/02/2020

Figure 1. Countries, territories or areas with reported confirmed cases of COVID-19, 19 February 2020



# Globally 911 545 cases & 45 532 deaths 203 countries worldwide, AS AT 01/04/2020

#### Figure 1. Countries, territories or areas with reported confirmed cases of COVID-19, 1 April 2020



#### Ranking Global Pandemic Preparedness

This COVID-19 report found that no country was truly prepared to manage a pandemic

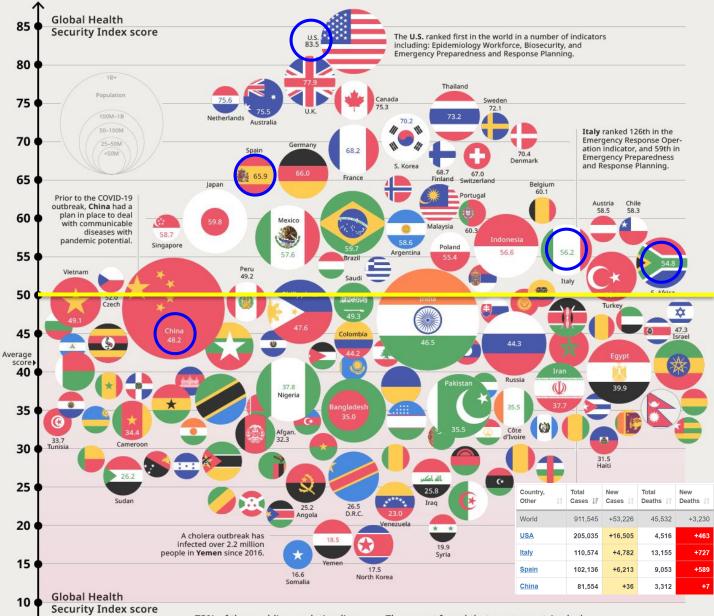
The Global Health Security Index measures the state of health security around the world. The index is composed of **6** categories:



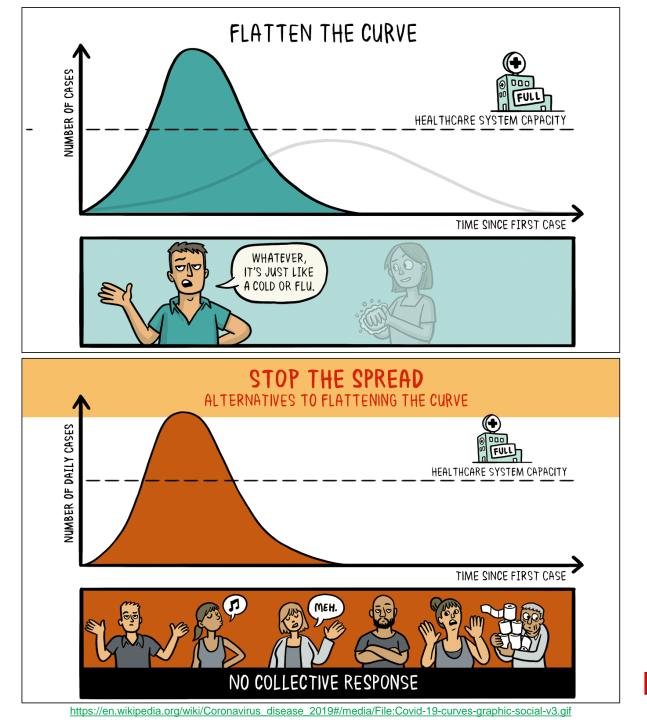
#### Here's how countries scored in terms of health security:

Countries with a population of over 5 million

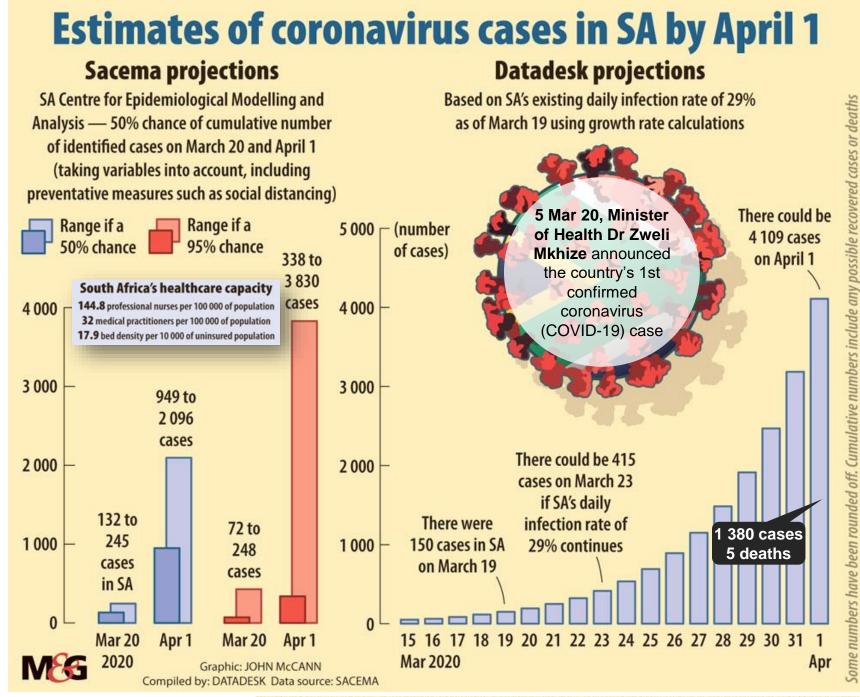
https://www.visualcapitalist.com/global-pandemic-preparedness-ranked/



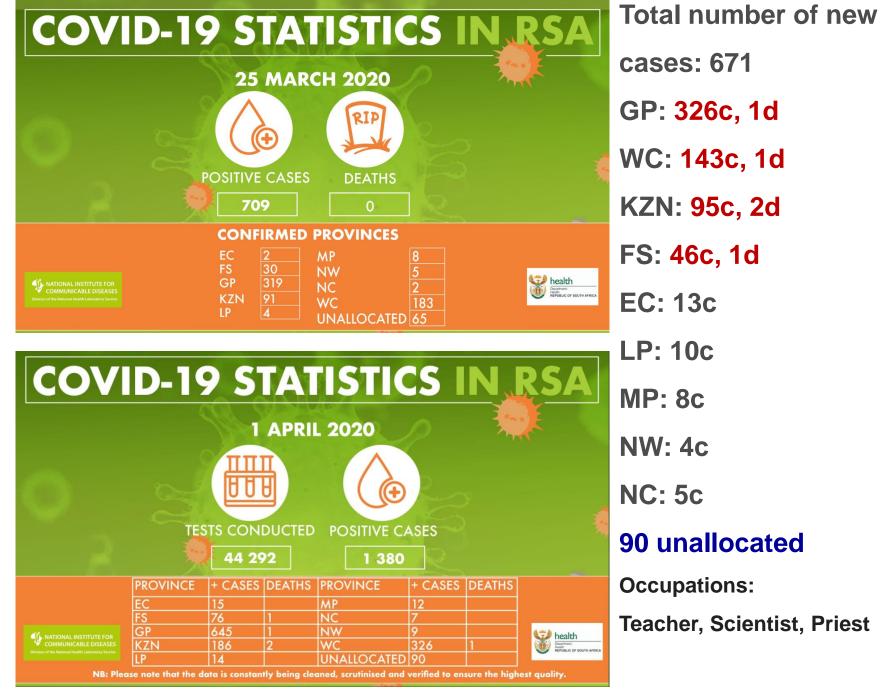
**73%** of the world's population lives in countries that scored below 50 in the Health Security Index. The report found that most countries lack foundational health systems capacities vital for epidemic and pandemic response.



National State of Disaster 21 Day lockdown

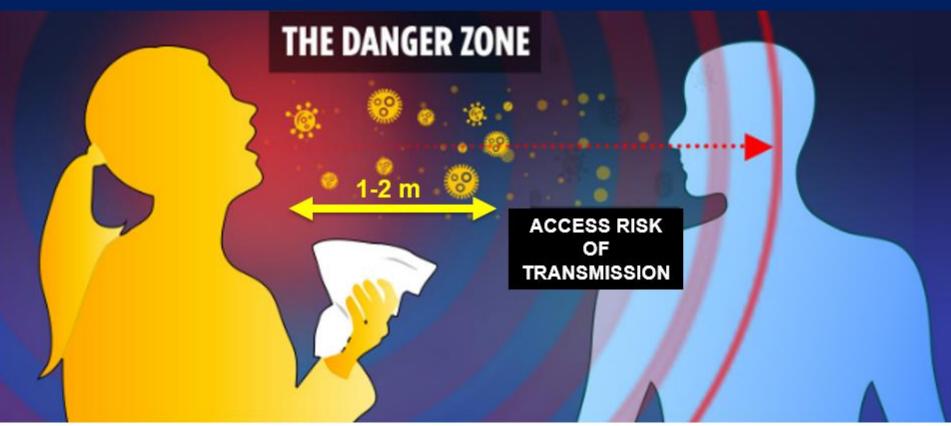


Graphic: JOHN McCANN Compiled by: M&G DATADESK Data sources: DATADESK, SA HEALTH REVIEW, WORLOMETERS, WHO, HEALTH SYSTEMS TRUST



**GP: 326c, 1d** WC: 143c, 1d **KZN: 95c, 2d** FS: 46c, 1d EC: 13c LP: 10c **NW: 4c** 90 unallocated **Occupations: Teacher, Scientist, Priest** 

# TRANSMISSION

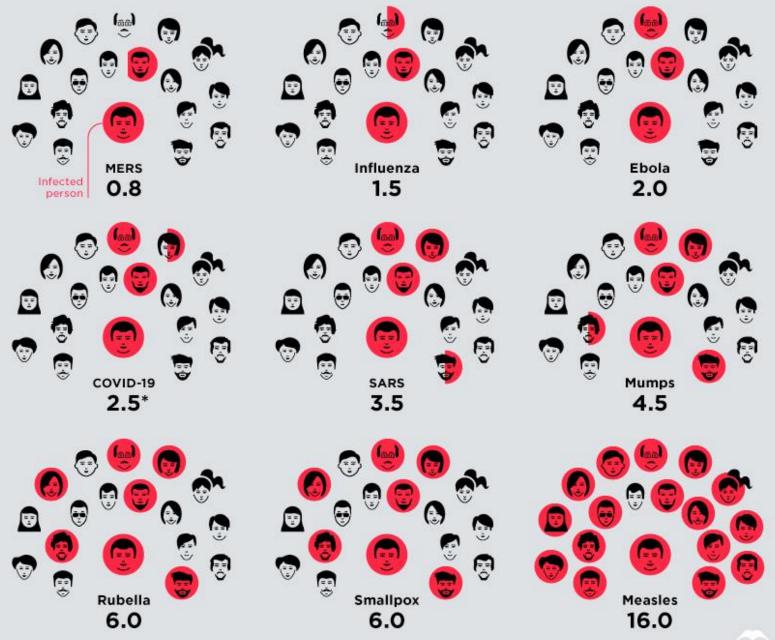


Direct contact: Touching an ill person or a contaminated surface Droplet transmission: inhaling droplets

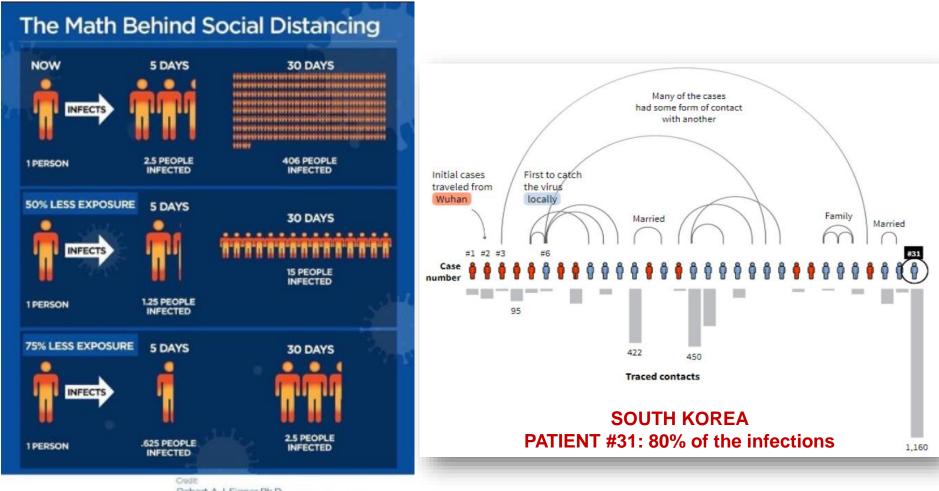
- Coughing & sneezing generates droplets of different sizes
- Average incubation period = 5.2 days (range 4.1 7.0) can be 27 days
- Generally not infectious during the incubation period
- More infectious when symptoms show (e.g. coughing & sneezing)

#### RO (basic reproduction number) of diseases

A measure of how many people each sick person will infect on average



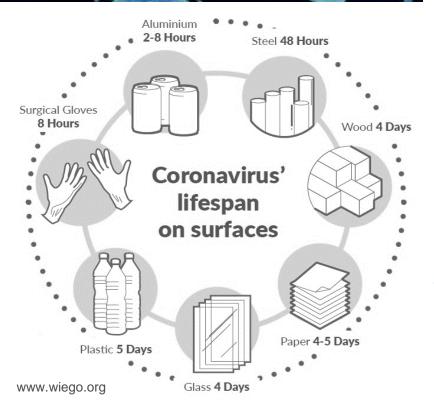
\*This number may change as we learn more about this new disease



©Global News

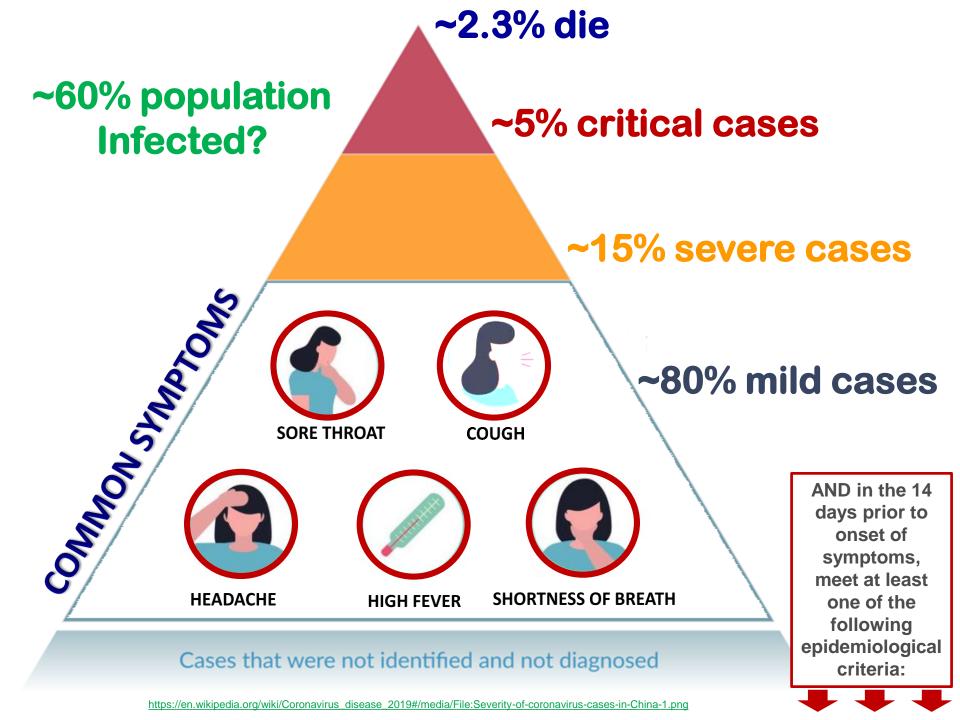
Robert A.J. Signer Ph.D., Assistant professor of Medicine at the University of California, San Diego Gary Washaw, Art Director

# CORONAVIRUS SURVIVAL ENVIRONMENT



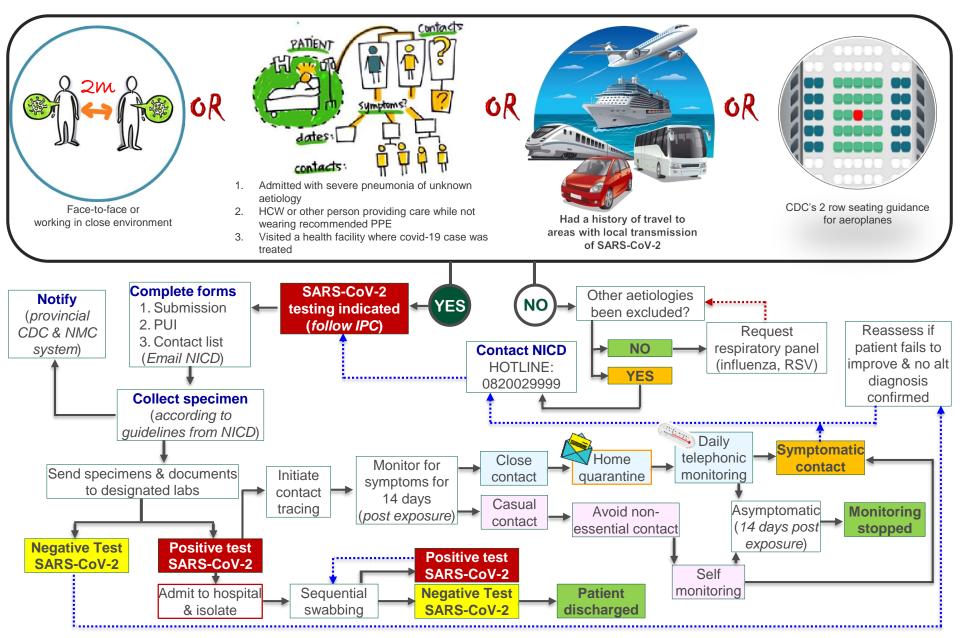
- Fragile outer membrane
- Less stable in the environment
- Studies have shown survival on inanimate surface – 12 hrs - 9 days
- Survival time in the environment depends on
  - pH
  - Inoculum size
  - Dryness (humidity)
  - Temperature
  - Type of surface
  - Exposure to disinfectants
- Killed by common disinfectants:

70% ethanol, bleach, QAC, gluteraldehyde (EPA website)



## I think I may have COVID-19 – what now??

STAY CALM AND ANSWER THE FOLLOWING QUESTIONS & ALERT YOUR SUPERVISOR



# **HOW IS COVID-19 DIAGNOSED**

### Who should be tested?

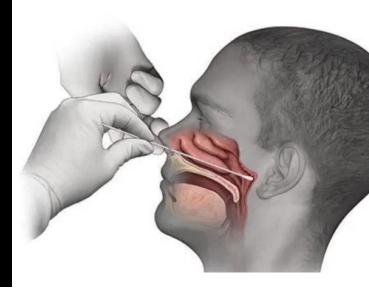
- Currently, only persons who are Person Under Investigation (PUI).
- All cases to be discussed with NICD doctor on call before collecting samples
- Costs free of charge for patients meeting the case definitions
- For specific guidance on sample collection and transportation:
- http://www.nicd.ac.za
- TOLL-FREE NUMBER 0800 029 999

The test will only be positive if a person has active disease (which may vary from very mild to severe)

• Test does not identify persons who are incubating the infection

• A TAT of 48 – 72 hours after reaching the lab.

Asymptomatic persons are not tested Testing is not done to determine exposure or give the 'all clear'



# **COVID-19 AND THE WORKPLACE**



–Medical transport workers

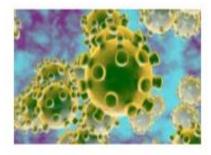
Cancer, Diabetes
HIV +ve with low CD4 count

# Legislation pertaining OHS in the workplace

Legislation	Provision
Occupational Health and Safety Act (OHSA) 85 of 1993	Health and safety of persons at work, and protection of persons other than persons at work against hazards arising out of or in connection with activities of persons at work
Regulations for Hazardous Biological Agents	Ensure that risk to HBA exposure in the workplace is controlled and/reduced
Mine Health and Safety Act (MHSA)	Ensures healthy and safe environment in mines and quarries
Compensation for Occupational Injuries and Diseases Act (COIDA), as amended	Notice on compensation for occupationally- acquired novel corona virus disease (COVID-19)
Occupational Diseases in Mines and Works Act, 1973 (ODMWA)	Occupational lung disease (cardiorespiratory) in mines and quarries



#### STANDARD OPERATING PROCEDURES FOR PREPAREDNESS, DETECTION AND RESPONSE TO A CORONAVIRUS (2019-NCOV) OUTBREAK IN SOUTH AFRICA



National Department of Health Directorate: Communicable Diseases 30 January 2020 GOVERNMENT NOTICE

DEPARTMENT OF EMPLOYMENT AND LABOUR

No. R.

2020

COMPENSATION FOR OCCUPATIONAL INJURIES AND DISEASES ACT, 1993 (ACT NO 130 OF 1993)

NOTICE ON COMPENSATION FOR OCCUPATIONALLY-ACQUIRED NOVEL CORONA VIRUS DISEASE (COVID-19) UNDER COMPENSATION FOR OCCUPATIONAL INJURIES AND DISEASES ACT, 130 of 1993 AS AMENDED

 I, Vuyo Mafata, Compensation Commissioner, after consultation with the Compensation Executive Committee, hereby make the following notice in terms of Section 6A of the Compensation for Occupational Injuries and Diseases Act, 1993 (Act No 130 of 1993) as amended. The proposed notice is attached as Schedule A.

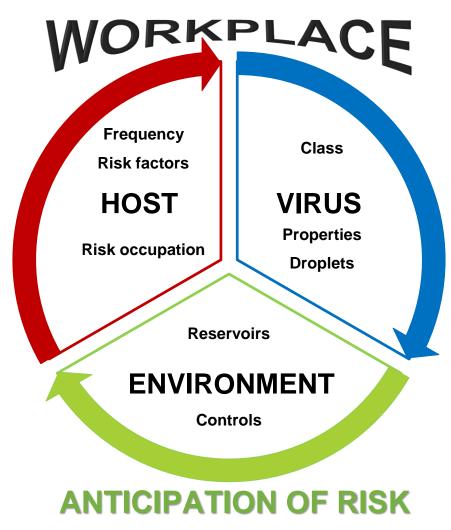
#### SCHEDULE

- The notice for compensation of occupationally-acquired novel Corona virus disease (Covid-19) comes into effect on the date of publication hereof and shall be implemented with immediate effect thereon.
- All employers and Medical Service Providers must follow the stipulated prescripts when submitting claims and supporting medical reports for Covid-19.
- When submitting reports online through the CompEasy system or Mutual Association Claims systems, Medical Service Providers must use the emergency Covid-19 ICD-10 code: U07.1 as proposed by the World Health Organization (WHO).

VUYO MAFATA) COMPENSATION COMMISSIONER DATE: 2020 03 20

### MINIMUM EXPECTATIONS OF THE EMPLOYER

- Top Management commitment
- Comply with legislation
- Provide a safe and healthy workplace
  - Occupational health & safety policy
  - Risk management
  - Incident management programme
  - Risk communication plan
- Finance
- HR support
- Business continuity plan



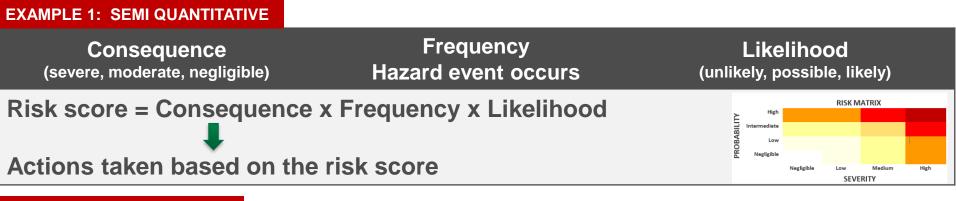
- Step 1: Relax
- Step 2: Rewind
- **Step 3: Review**
- Step 4: Reinforce



Different risk exposure profilesb ased on specific job function.

- Job specific Risk assessment
- All other hazards
  - Biological, Physical, Chemical, Ergonomic
  - Psychosocial long working hours, fatigues, psychological stress new ways of working, occupational burnout, stigma, physical violence

# **RISK ASSESSMENT & EVALUATION**



#### **EXAMPLE 2: QUALITATIVE**

		Likelihood of exposure/release							
		Unlikel	у		Possible			Likely	
Consequence of	Severe	Medium		High			Very high		
exposure/release	posure/release Moderate Low Negligible Very low			Medium			High		
			N	Low			Medium		
Laboratory activity/procedure		Initial risk (very low, low, medium, high, very high)		Is the initial risk above the tolerance level? (yes/no)			Priority (high/medium/low)		
Select the overall <b>initial</b> risk.		□ Very low	□ Low	□ Medium		Н	□ ligh	□ Very high	
Should work proceed without addit control measures?	□Yes □No								
								urgency	

When **assigning priority**, **other factors** may need to be considered, for example, **urgency**, **feasibility/sustainability of risk control measures**, **delivery** and **installation time** and **training** availability

# Mitigation of risk in the workplace

### Primary prevention

- Business continuity & pandemic preparedness policies, plans & procedures
- Minimise risks of transmission implementing hierarchy of controls
- Education and training / health promotion
- Risk communication

### **Secondary Prevention**

- Identify persons at risk early and responding appropriately
- Medical Surveillance & employee monitoring

### **Tertiary prevention**

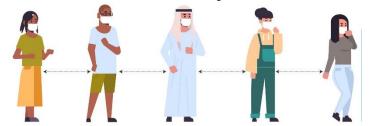
- Respond appropriately to a case of COVID amongst staff incident investigation and contact tracing
- Compensation / COIDA new notice occupationally acquired COVID-19
- Leave
- Rehabilitation

HAZARD (COVID-19) AND RISK IDENTIFICATION Elimination More effectiv Substitution Eliminate the hazard Practical for intentional use **ELIMINATION** -Impractical for unknown exposure Early identification and isolation where necessary Administrative Controls If not practical then Replace infectious agent with less infectious strain **SUBSTITUTION** Replace high exposure activity with less exposure Limit exposed workers effective If not practical then **ENGINEERING &** Re-design the work process. Reduce exposure without relying on worker behaviour – may be cost effective solution. **ENVIRONMENTAL** Devices Environment Building If not comprehensive then -Negative pressure Disinfection devices (e.g. Environmental monitoring UVGI) -Isolation rooms Air, surface Sterilisation devices decontamination -Ventilation Safety instruments (e.g. -HEPA filtration Waste management BSC) Access control Physical barriers Signage ADMINISTRATION Implement policies & procedures, health protection, enhance training **Policies & Procedures Health protection** Training If not sufficient then Employee Assistance Prog OHS -HBA regulation complement with -Vaccination -HR -Hazards & risks Medical surveillance SHE: incident management -Control measures Mental health -PPE -Hand & resp hygiene Waste & laundry mgnt -Incidents -Advocate good hygiene **BEHAVIOUR** The right attitude is the best tool to control transmission Correct type, fit, usage, maintenance & disposal. PPE may include gloves, goggles, PPE respirators, face shield, surgical mask, coats, gowns, aprons, coveralls, hair covers

PPE

# **Occupational Health practices to review**

- Limit mass gathering (<100) evaluate the risk: rely on technology where possible</li>
- Maintain social distancing (1 -2 m)



- Reduce waiting time in areas: clinics, labour centres, communal areas, etc.
- Specific procedures: access control methods (biometrics, breathalysers), aerosol generating procedures (consider method & assess risk), contactless points, etc
- Insist that symptomatic persons stay away / self-isolate

# **Personal Protective Equipment (PPE)**

- PPE is an effective measure within a complete package of mitigation and control strategies
- Usage should be informed by the risk assessment
- Ensure adequate and appropriate PPE is available. Used PPE should be considered contaminated and discarded in accordance with safe practice
- <u>Not recommended</u> asymptomatic individuals to wear a mask of any type



### **GENERAL PRECAUTIONS TO BE OBSERVED**



Wash your hands often with soap and water. If you don't have soap and water, use a hand sanitizer that is at least 60% alcohol based.





Stay home when you're sick, and keep your children home when they're sick. Cover your mouth and nose with a tissue when you cough or sneeze. If you don't have a tissue, cough or sneeze into your upper sleeve or elbow, not your hands.



Don't touch or shake hands with people who are sick.



Ensure your general health is maintained. Chronic disease are well controlled.



Currently no vaccines for COVID-19 however its advisable to take the flu vaccine to prevent influenza and unnecessary testing for COVID-19

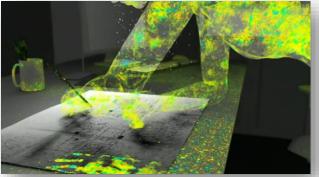


Travel prohibited in line with governments pronouncements. All non-essential local travel must be limited. Maintain a risk register of travel.

# TAKE HOME MESSAGE

- 1. People carry the virus & people can stop the virus
- 2. Duty to adhere to President's pronouncements
- 3. Do the right thing, lead by example & keep the economy going
- 4. Develop and comply with workplace policies & procedures
- 5. Disruption leads to innovation: think creatively, simple and cost effective
- 6. All risk is not the same and hence

controls cannot be a one size fits all



7. CONDUCT A JOB FUNCTION RISK ASSESSMENT

# ACKNOWLEDGEMENTS

- NHLS Management
- NIOH Outbreak Response Team
- Zamani Miya (security officer)



- Lindo Khumalo (cleaning personnel)
- NICD

# **AWARENESS IS POWER & POWER SAVES LIVES**

### **DO THE RIGHT THING!!**

Note: The COVID-19 outbreak is evolving rapidly and information we know today may change tomorrow. It is therefore important that you keep abreast with the latest information. The material is prepared under emergency conditions, and has not been subject to its usual peer review processes and thus will contain errors and omissions. While care was taken in preparing the content using available resources and partners, and adapting it to the South African context we request that the material only be used as a guideline which does not replace official policies. We endeavour to update new information as soon as we're aware of it. 02/04/2020