











COVID-19 Occupational Health Surveillance System (OHSS)

for South African Workplaces

11 February 2021



Introduction

- There is a lack of adequate data on the impact of COVID-19 on the various business sectors in South Africa.
- The data collection and reporting process for employers was not co-ordinated or fully implemented.
- OHSS officially commenced on 1 October 2020.
- Legal framework for reporting of formal sector workers covered by Dept of Employment & Labour direction (28 September 2020).
 - Employers with > 50 employees need to submit the following to NIOH OHSS.
 - Symptomatic employee data weekly
 - Vulnerability status of employees (once off submission, updated as required)
 - Positive case data
 - Return to work/ health outcomes of positive cases



Thus the Occupational Health Surveillance System was created with the following objectives:

- Develop a framework for a COVID-19 surveillance model for monitoring workers in various economic sectors, both in the public and private sectors.
- Early identification of sectors/companies and occupational groups at high risk of infection so as to inform appropriate interventions (e.g. policy, programs, resources).
- Evaluate the impact of the COVID-19 interventions in the workplace.
- Determine the human resource and economic impact of COVID-19 on the various sectors.
- To provide regular updates on the trajectory of the pandemic in various economic sectors nationally.
- Identification of key scientific questions requiring further investigation.



The Occupational Health Surveillance System (OHSS)

Partners in this initiative include the National Institute of Occupational Health (NIOH), the National Institute for Communicable Diseases (NICD), Centre for Industrial Research (CSIR), Business for South Africa (B4SA) and occupational medicine specialists from several Universities, together with several major private sector corporations.

The data collected will be used to monitor trends in the disease, identify workplace risk factors and design effective intervention strategies.

Data will be stored in the OHSS data lake at the NIOH.













Private Sector

Private Sector



The delivery team is backed by a sound governance structure





Steering

Government (NDoH, NIOH and NICD)

Business (B4SA) and Labour Representatives)

Representatives from the **Scientific** Committee

Representatives from the **Data Management** and **Processing Technical** Committee.

Data Management Committee



NIOH

CSIR

Business Experts

Scientific Committee



Responsibility ensuring the scientific validity of the data being collected, the data quality, its routine reporting, and formulating research questions



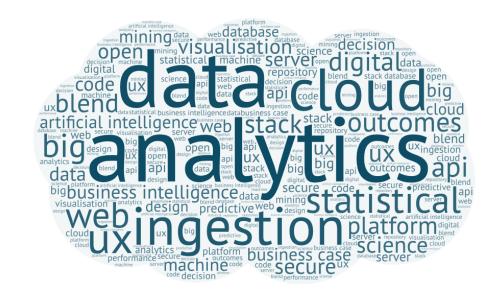
Sponsor & Owner



The OHS system will consolidate data from various sources and process this data to achieve the outcomes

Data Sources

- Private sector businesses
- Public sector
- NICD NMC and sentinel hospital admissions database (DATCOV)
- NHLS laboratory testing data
- Private laboratory testing data
- Compensation Fund
- National Department of Health
- Department of Employment and Labour
- Mining Sector





Confidentiality

 Data in the data lake will be anonymised and any identifying information removed after a period of 6 weeks.

 All OHSS data collected by NIOH will be securely stored and processed in the NIOH data centre.

 All systems used for data collection, storage, and processes will be assessed on regular basis (every month) for any security vulnerabilities.



OHSS Process

Business Registration

Business Name *Required		Industry * Required Select				
Address * Required			Select			
Address Required						
Province * Required			District	District		
Select						
Contact Name *Required			Contact Email * Required			
Contact Number *Required		Sector Affiliation * Requ	ired			
Contact (Valley)		Sector / timation tequ		Non [Disclosure Consent * Required	
# Total Employees * Required		# Female Employees * Required		# Male Employees * Required		
Please supply the number of employe	ees in the below Jo	ob Categories				
# Managers ③	# Profession	als (i)	# Technicians and Associ	ate Prof. 🛈	# Clerical Support Workers	
0	0		0		0	
# Service and Sales Workers (i)	# Skilled Trad	des 🛈	# Plant and Machine ③		# Elementary Occupations	
	0		0		0	
0					0	
0 Preferred data submission process *			0		0	
			U		U	
Preferred data submission process *			U		U	



DATA SUBMISSION GUIDELINES





Categories of data to be submitted

- Vulnerability assessments
- Symptom screening
- Positive case
- High exposure work contact
- Return to work

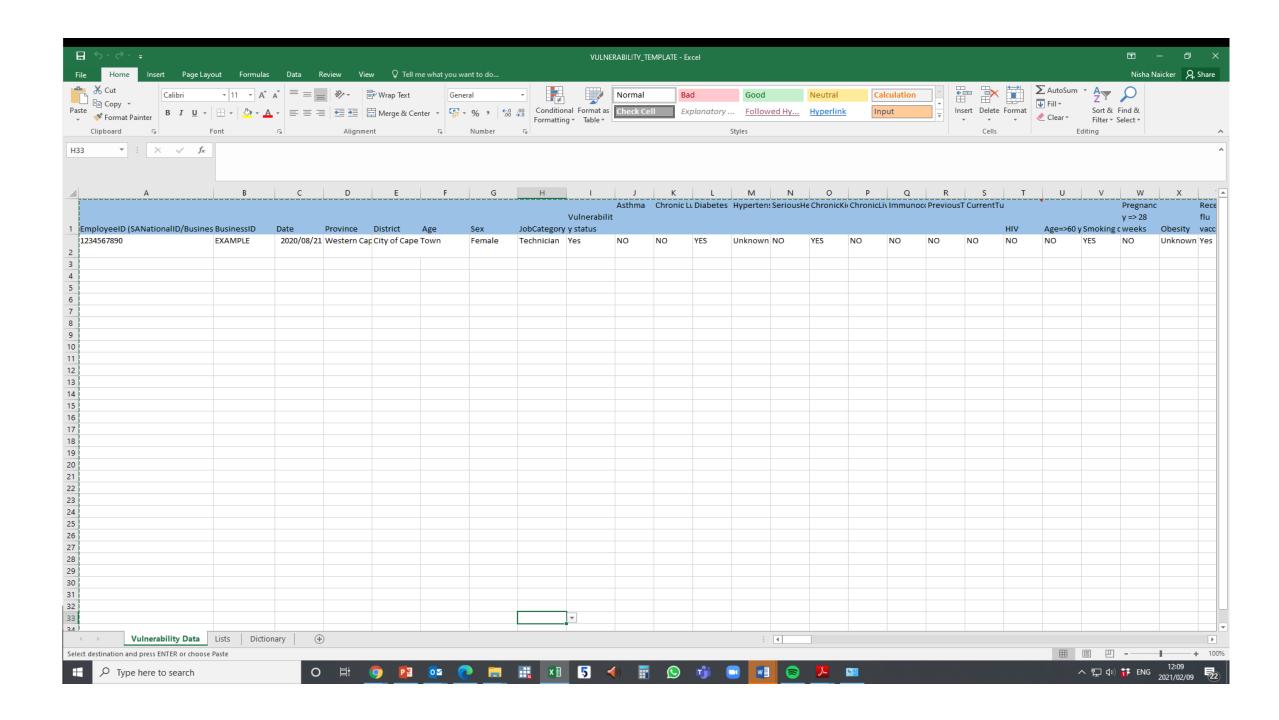




Vulnerability assessments

• Once off data submission

Vulnerability				
Title	Field status	Definitions		
Business ID	Compulsory	System Generated- Provided to business by NIOH		
Employee ID	Compulsory	Employer Generated unique employee number		
Date	Compulsory			
Province	Compulsory			
District	Compulsory			
Age	Compulsory	Years		
Sex	Compulsory	Female/ Male/ Other		
Job category	Compulsory	Managers Professionals Technicians and Associate Professionals Clerical Support Workers Services and Sales Workers Skilled Agricultural, Forestry, Fishery, Craft and Related Trades Workers Plant and Machine Operators and Assemblers Elementary Occupations		
Volnovskilite, procest	Compulsory	Yes/No		
Vulnerability present Age ≥60 years	Compulsory Optional	Yes/ No		
Pregnancy ≥28 weeks	Optional	Yes/No		
Smoking current	Optional	Yes/No/ Unknown		
Asthma	Optional	Yes/No/ Unknown		
Chronic Lung Disease	Optional	Yes/No/ Unknown		
Diabetes	Optional	Yes/No/ Unknown		
Hypertension	Optional	Yes/No/ Unknown		
Serious heart conditions	Optional	Yes/No/ Unknown		
Chronic Kidney Disease	Optional	Yes/No/ Unknown		
Chronic Liver Disease	Optional	Yes/No/ Unknown		
Immunocompromised	Optional	Yes/No/ Unknown		
Tuberculosis previous	Optional	Yes/No/ Unknown		
Tuberculosis current	Optional	Yes/No/ Unknown		
HIV	OPTIONAL	Yes/No/ Unknown		
Obesity (measured by obtaining Height and Weight of employee) or BMI >30	OPTIONAL	Yes/No/ Unknown		
Received flu vaccine	OPTIONAL	Yes/No/ Unknown		





Screening data

Collected daily from employees but submitted weekly to OHSS

Title	Field status	Definitions
Business ID	Compulsory	System Generated- Provided to business by NIOH
Consent obtained	Compulsory	Has the business informed employees that the information collected is being sen the NIOH/NDOH
Employee ID	Compulsory	Employer Generated unique employee number or SA National ID
Screening date	Compulsory	Date when screened
Employee Age	Compulsory	Years
Employee sex	Compulsory	Male/ Female / Other
Job Category*	Compulsory	Managers Professionals Technicians and Associate Professionals Clerical Support Workers Services and Sales Workers Skilled Agricultural, Forestry, Fishery, Craft and Related Trades Workers Plant and Machine Operators and Assemblers
		Elementary Occupations
Province	Compulsory	
District	Compulsory	
Symptoms Present (yes/ no)	Compulsory	Yes/No
Fever >38°c	Optional	Yes/No/ Unknown
Chills	Optional	Yes/No/ Unknown
Dry cough	Optional	Yes/No/ Unknown
Sore throat	Optional	Yes/No/ Unknown
Shortness of breath	Optional	Yes/No/ Unknown
Tiredness	Optional	Yes/No/ Unknown
Lack of smell or taste	Optional	Yes/No/ Unknown
Conjunctivitis	Optional	Yes/No/ Unknown
Diarrhoea	Optional	Yes/No/ Unknown
Muscle pains	Optional	Yes/No/ Unknown
Nausea or vomiting	Optional	Yes/No/ Unknown
Dizziness	Optional	Yes/No/ Unknown
Headache Screening Outcome No action required Referred for self-isolation Referred for testing Referred to the doctor	Optional Optional	Yes/No/ Unknown Yes/No



Positive test case data

Submitted when there is a positive case

Positive test				
Title	Field status	Definitions		
Business ID	Compulsory	System Generated- Provided to business by NIOH		
Employee Business Generated ID	Compulsory	Employer Generated unique employee number if used in the		
Employee basiliess deficiated ib	Compaisory	other templates		
Employee SA National ID	Compulsory	SA National ID		
Province	Compulsory	3A National ID		
District	Compulsory			
Sex	Compulsory	Female/ Male/ Other		
Age	Compulsory	Years		
Job category	Compulsory	Managers		
Job category	Compaisory	Professionals		
		Technicians and Associate Professionals		
		Clerical Support Workers		
		Services and Sales Workers		
		Skilled Agricultural, Forestry, Fishery, Craft and Related Trades		
		Workers		
		Plant and Machine Operators and Assemblers		
		Elementary Occupations		
Test Date	Compulsory	Date		
Test type	Compulsory	Unknown/PCR/Antigen/Antibody		
Symptoms Present	Compulsory	Yes/ No		
Number of high-risk workplace contacts	Compulsory	Number		
Vulnerability Present	Compulsory	Yes/ No		
Post-test result action	Compulsory	Sick Leave		
	Compansor y	Self-Isolation at home		
		Self-Isolation at quarantine site		
		Hospitalization		
Exposure Contact type	Compulsory	Work contacts		
p	, , , ,	Community contacts		
		Family contacts		
		Large events contacts		
		Travel history from a designated hotspot		
		Public transport		
		Unknown		
Reporting Action	Optional	Reported to Department of Employment and Labour		
		Reported to COIDA		
		Reported to DMRE		



Return to work data Submitted when employee returns to work

	Return to work: Clinical Mana	gement and Outcomes
Title	Field status	Definitions
EmployeeID	Compulsory	System Generated- Provided to business by NIOH
BusinessID	Compulsory	Employer Generated unique employee number
Date	Compulsory	Date
Province	Compulsory	
District	Compulsory	
Job category	Compulsory	Managers
		Professionals
		Technicians and Associate Professionals
		Clerical Support Workers
		Services and Sales Workers
		Skilled Agricultural, Forestry, Fishery, Craft and Related Trades
		Workers
		Plant and Machine Operators and Assemblers
		Elementary Occupations
Hospitalized	Compulsory	Yes/ No/ Unknown
Hospital Type (Private/Public)	Compulsory	Private/ Public/ Unknown
If Hospitalised:	Compulsory	
Date of admission		Date
Outcome (Discharge or Death)	Compulsory	Discharged or death
Outcome date	Compulsory	Date
Return to work date	Compulsory	Date
Return to work fitness level	Compulsory	Fit for Job Description
		Fit with Accommodation
		Fit with restrictions
		Temporarily unfit for Job Description
		Unfit for review
		Permanently Unfit
Compensation claim	Compulsory	Yes/ No
Percentage disablement	Optional	000000(IF UNKNOWN)
COID Claim reference number	Optional	0000000 (IF UNKNOWN)



OHSS Process

- 1. Confirm that your business has 50 or more employees per site.
 - The Department of Employment and Labour Directive 28th September 2020- applies to your business.
- 2. Read the NDoH guidelines on the submission of COVID-19 related health data. 1 October 2020
- 3. Register on the OHSS business registration portal: https://ohss.nioh.ac.za/
- 4. An email confirming registration will be sent to you.
- 5. An email with your business ID, Username and password with the link to the submission portal will be sent to the email contact.
- 6. Submissions can commence.



Profiles of businesses registered on OHSS as at 3 February 2021

Total businesses registered on OHSS: 2910

(3/02/2021)

• % of all businesses in South Africa: 0.1%

(December 2020 CIPC registered companies total: 2 317 429, however note that some maybe dormant businesses)

Total Employees: 1 688 674 registered on OHSS

% of all formally employed in SA: 17%

(14,1 million employees -LABOUR FORCE SURVEY Sept 2020- approximately 10 million formally employed)

85% of total registrations have >50 employees



Concerns & Recommendations

- <1% of business registered covering 17% of workers (formal sector).
- Challenge- data on the number of businesses registered per sector is required- to determine representativity in sectors.
- Not all sectors are registered and reporting Data quality

Continue to increase awareness.



Acknowledgements:

Academia, NICD, CSIR, Private sector (FNB, BUSA, B4SA, Accenture, Webber Wentzel)

Email: OHSworkplace@nioh.ac.za ohssupport@nioh.ac.za

OHSS Hotline: 0723215503/ 0713981169

For 45 of 1 in 2 Special color of 2 Special color o

Registration Portal: https://ohss.nioh.ac.za

Information about OHSS:

https://www.nioh.ac.za/covid-19/occupational-health-surveillance-system-ohss-business-portal/



Division of the National Health Laboratory Service























Healthy, Safe, Happy & Sustainable Workplaces
WWW.NIOH.AC.ZA | TWITTER: @NIOH_SA | INFO@NIOH.NHLS.AC.ZA