

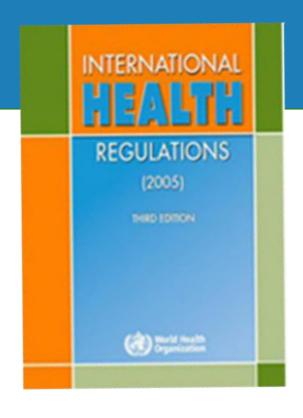
# **Progress on Public Health Emergencies in South Africa (including** IHR (2005), STAR & Contingency Planning) D. Moonasar



## **Presentation Outline**

- IHR
- JEE/ ESPAR
- NAPHS
- All Hazard Risk Assessment using the STAR (Strategic Tool for All Hazard Risk)
- NHEROP
- PHEOC
- Contingency Planning

# International Health Regulations (IHR 2005) and IHR Monitoring and Evaluation Framework for Enhancing Global Health Security







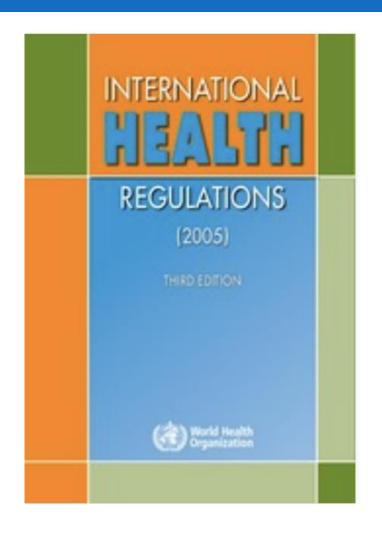
#### Introduction - 1

- The World is now a global village; an infected individual can travel from country to country and from continent to continent in a few hours
- COVID-19 pandemic and other multi-country infectious disease outbreaks e.g. Ebola, Zika, Dengue, etc. have raised global awareness of the importance of global health security and emergency preparedness
- Ensuring global health security is a priority for all. "When the world is collectively at risk, defense becomes a shared responsibility of all nations."
  - Dr Margaret Chan





### **International Health Regulations (IHR 2005)**



#### Came into force on 15 June 2007

The IHR (2005) has as purpose and scope "to prevent, protect against, control and provide a public health response to the international spread of disease in ways that are commensurate with and restricted to public health risks, and which avoid unnecessary interference with international traffic and trade"

All States Parties are required to have or to develop minimum core public health capacities to implement the IHR 2005 effectively.

(IHR, Art. 13)





## **IHR Core Public Health Capacities**

#### **Core capacities**

- Legislation and Policy
- Coordination
- Surveillance
- Response
- Preparedness
- Risk Communications
- Human Resources
- Laboratory

#### 3 levels

- National
- Intermediate
- Peripheral/Community

#### **Potential Hazards**

- Biological
  - Infectious
  - Zoonosis
  - Food safety
- Chemical
- Radio nuclear

**Events at Points of Entry Linking PH with security** 

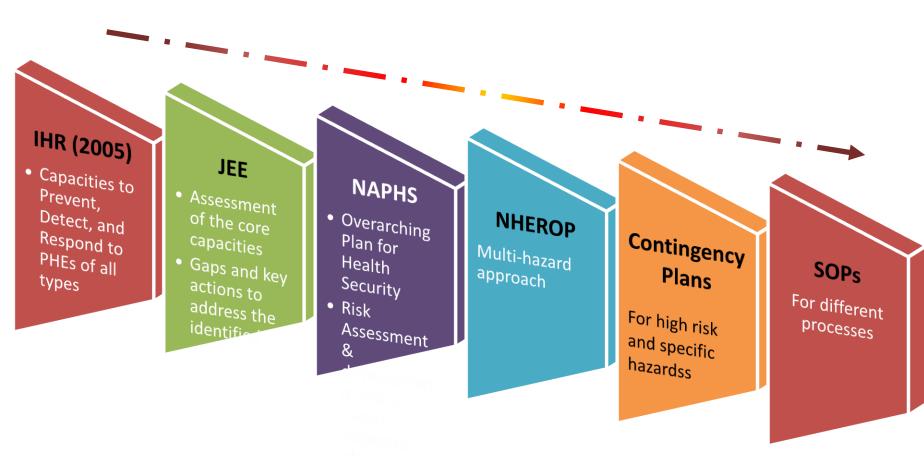






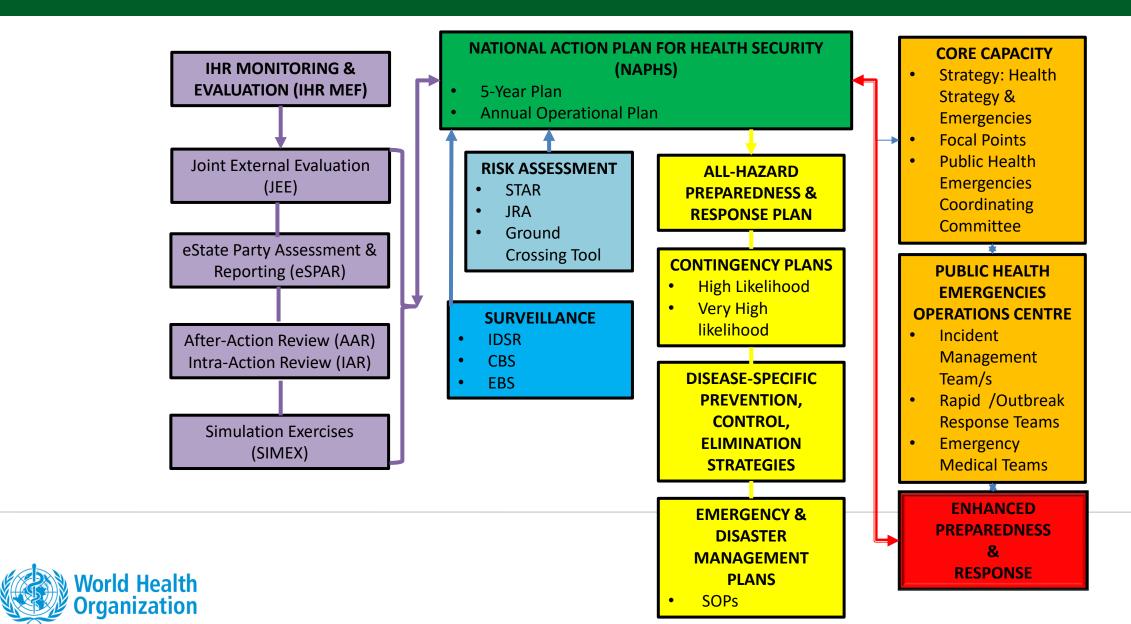
# IHR KEY PROCESSES/ACTIVITIES

South Africa is bound by the IHR Act 28 of 1974 which came into force on 15 June 2007.





# EMERGENCY PREPAREDNESS & RESPONSE APPROACH



#### Joint external evaluation 3.0

#### **PREVENT**

- 1. Legal Instruments
- 2. Financing
- 3. IHR Coordination, National IHR Focal Point Functions and Advocacy
- 4. Antimicrobial Resistance
- 5. Zoonotic Disease
- 6. Food Safety
- 7. Biosafety and Biosecurity
- 8. Immunization

#### **DETECT**

- 9. National Laboratory System
- 10. Surveillance
- 11. Human Resources

#### **RESPOND**

- 12. Health Emergency Management
- 13. Linking Public Health and Security Authorities
- 14. Health Services Provision
- 15. Infection Prevention and Control
- 16. Risk Communication and Community Engagement

# IHR RELATED HAZARDS & POINTS OF ENTRY & BORDER HEALTH

- 17. Points of Entry and Border Health
- 18. Chemical Events
- 19. Radiation Emergencies



#### Useful contacts and further information National Focal Point

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WHO Country Office

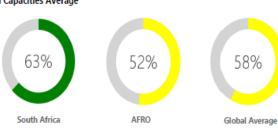
afwcozawn@who.int



e-SPAR: https://extranet.who.int/e-spar | ihrmonitoring@who.int

In accordance with Article 54 of The International Health Regulations (2005) and WHA resolution 61.2, all IHR States Parties and WHO are required to report to the WHA on a yearly basis on their implementation of the Regulations. This country profile provides an overview of the progress achieved as reported by this State Party in achieving selected elements of the core public health capacities required in the context of the International Health Regulations (2005), especially under Annex 1 of these Regulations.

#### All Capacities Average



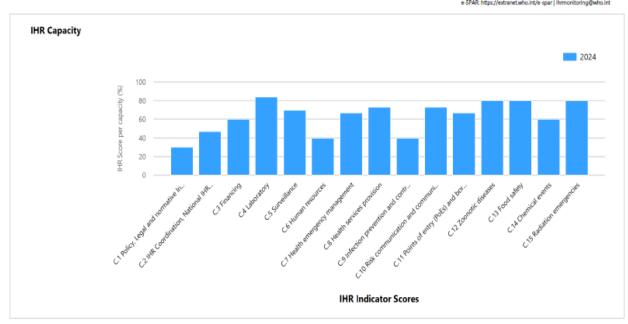
Designated Points of Entry

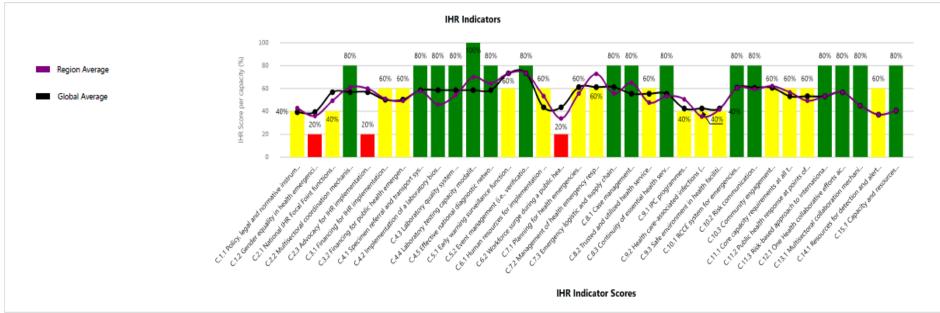
10 Airports

Ground Crossings

Authorized ports to issue ship sanitation certificates:

Yes





#### Poor performing indicators-(scoring 20%):

- P1.2 Gender equity and equality in health emergencies
- D3.4 Workforce surge during a public health event
- P3.1 IHR coordination, national IHR focal point functions and Advocacy

# Linkages between IHR, JEE & NAPHS

- . The IHR provides the overarching legal framework and obligations for countries to develop core capacities.
- . The JEE serves as a diagnostic tool to evaluate these capacities and identify areas needing improvement.
- The NAPHS translates the findings from the JEE into actionable plans, ensuring that countries can systematically address gaps and strengthen their health security infrastructure.



# STRATEGIC TOOL FOR ASSESSING RISKS (STAR)

Photo: WHO/Syri







# What is STAR

#### What is the STAR?

 The Strategic Tool for Assessing Risk (STAR) is a set of tools, used to assess public health risks and determine those risks to be prioritized using a combination of hazards identification, analysis of their level of risk, and ranking of priority hazards by level of risk.

#### Purpose of the STAR

• To help countries to identify, assess and prioritize health risks, to inform public health emergency planning to strengthen country capacity to prevent, mitigate, early detect, rapidly respond to, and recover from public health emergencies (all-hazards).





# **Objectives of the STAR**

- Provide a systematic, transparent and evidence-based approach to identify risk, analyse and evaluate the risk level
- Identify relevant hazards and their health consequences, analyse population exposure and vulnerability and identify existing coping capacities and challenges
- Inform the development or updating of plans based on risk assessment (National Emergency Response Plan (NERP) and hazard-specific contingency plans)
- Prioritisation of limited resources for the implementation of risk mitigation, operational readiness and preparedness activities toward imminent public health risks





#### Hazard Risk Matrix – 2022 – NATIONAL

Critical					
Severe	Influenza A - emergence of novel strain; Nuclear agents		Civil unrest	Flood; Storm	
Moderate	Zika virus; Ebola virus disease, Marburg, Lassa fever, Lujo; Yellow fever	Plague; Chemical agents	Typhoid fever; Cyber attack	Fires; Cholera	COVID-19 - emergence of new VOC; Transportation accidents
Minor		Listeriosis; Rift Valley fever	Heat wave; Cold wave/Severe winter	Infrastructure Disruption (power outages, water supply)	Violence
Negligible	Anthrax - (intentional i.e., biological warfare)		Mudflow; Drought; Rabies; Monkeypox		
	Very unlikely	Unlikely	Probable	Very likely	Almost sure

- The STAR Risk matrix ranks risk visually on a 5 X 5 table, describing the likelihood and impact of each hazard assessed within the STAR workshop
- 27 hazards were identified during the STAR workshop
- Of these, 7 hazards are prioritised as high risk (amber) and 4 hazards are prioritised as moderate risk (yellow)
- The high & moderate risks (11) will be prioritized for the development of contingency plans

Likelihood

#### Risk calendar for seasonal hazards – National 2022

- The risk calendar provides the mapping of the seasonality of hazards to support planning, prioritization and implementation of timely and appropriate actions to mitigate risk, scale-up readiness capabilities, and be ready to respond.
- 11 hazards were identified to be seasonal (the remaining 16 are non-seasonal)
- The calendar is based on the consensus of the STAR participants
- Red indicates the point in time when the hazard is most likely to occur, and green when the hazard is least likely to occur

Hazard	Risk level	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Flood	High												
Storm	High												
Fires	High												
COVID-19 new	High												
variant of concern													
Cholera	High												
Transport accidents	High												
Typhoid fever	Moderate												
Heat wave	Low												
Cold wave	Low												
Influenza A – novel	1												
strain emergence	Low												
Rift Valley fever	Low												
								-		Lowest	Moderate	High	Peak



PHEOC operationalization in SA (insights, knowledge sharing, Lessons learned, and recommendations to SA/ NDoH)





Source: PHEOC Training Material WHO AFRO

#### BACKGROUND TO THE PHEOC ESTABLISHMENT IN SA

- ➤ IHR internationally binding legal instrument which requires countries to build the capabilities to detect, assess, report, and respond to public health events. One such capacity is Health Emergency Management a vital feature of which is a PHEOC
- South Africa has been facing multiple and concurrent emergencies in recent years. These include floods, ongoing drought, water shortages, load shedding, communicable disease outbreaks including COVID19, cholera and others that keep impacting on the lives and livelihood of the population with severe health consequences and disrupted health service delivery.
- The establishment of a network of PHEOC in the country will allow for the integration of traditional public health services into an emergency management model for prompt response to public health threats and emergencies.
- ➤ This initiative has been **endorsed by the National Department of Health** and is being supported by WHO-AFRO

## WHAT IS A PUBLIC HEALTH EMERGENCY OPERATION CENTRE

PHEOC is an emergency operations centre that specializes in the command, control, and coordination to emergencies that involve health consequences and Public Health

threats

 Strives to achieve a goaloriented response to
 Public Health Emergencies and unifies effort among response agencies



WHO Regional
Office for Africa
SHOC room,

#### PURPOSE OF A PUBLIC HEALTH EMERGENCY OPERATION CENTRE

Timely, event-specific <u>operational decision-making</u> using the best available information, policy, technical advise and plan

Communication, Collaboration & Coordination with response stakeholders from a centralized location

Collection Collation Analysis & presentation of event <a href="Data & information">Data & information</a> to support Response Planning & Documentation

Acquisition & Deployment of response Resources including surge capacity & services & material support to the EOC itself & to all response Personnel

Monitoring financial commitment and providing <u>administrative</u> services for the EOC functions

## WHY DOES SOUTH AFRICA NEED A PHEOC?

**COUNTRY EVALUATION TOOL** 

- 1	PREVEN	NT7
	P1.	LEGAL INSTRUMENTS
	P2.	FINANCING
JEE, 3 <sup>rd</sup> Ed.	P3.	IHR COORDINATION, NATIONAL IHR FOCAL POINT
		FUNCTIONS AND ADVOCACY
	P4.	ANTIMICROBIAL RESISTANCE
	P5.	ZOONOTIC DISEASE
	P6.	FOOD SAFETY
	P7.	BIOSAFETY AND BIOSECURITY
	P8.	IMMUNIZATION51
	DETECT	55
	10000	NATIONAL LABORATORY SYSTEM
	D1.	
	D2.	SURVEILLANCE
	D3.	HUMAN RESOURCES
	RESPO	ND
PHEOC	→ R1.	HEALTH EMERGENCY MANAGEMENT74
	R2.	LINKING PUBLIC HEALTH AND SECURITY AUTHORITIES85
	R3.	HEALTH SERVICES PROVISION88
	R4.	INFECTION PREVENTION AND CONTROL92
	R5.	RISK COMMUNICATION AND COMMUNITY ENGAGEMENT 97
		ATED HAZARDS AND POINTS OF ENTRY AND BORDER HEALTH 104
	PoE:	POINTS OF ENTRY AND BORDER HEALTH104
	CE. (	CHEMICAL EVENTS110
	DE E	DADIATION EMERGENCIES 115

#### **Corresponding JEE indicators**

R1.1 **Emergency risk assessment & readiness** Public health emergency operations centre (PHEOC) R1.2 R1.3 Management of health emergency response Activation & coord. Of health personnel & teams in a PHE R1.4 R1.5 **Emergency logistic & supply chain management** Research development & innovation R1.6

## ESSENTIAL STEPS IN ESTABLISHING A PHEOC

#### ☐ KEY STEPS INCLUDES

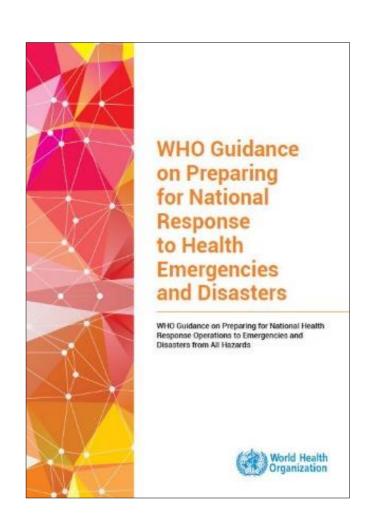
- > Establishing legal authority and planning guidance
- > Forming an effective steering committee
- ➤ Establishing main objectives
- ➤ Establish a policy group
- ➤ Defining the PHEOC's essential functions
- ➤ Develop PHEOC core components

# **NHEROP**



#### (NHEROP) for all hazards

- NHEROP National Health Emergency Response Operations Plan. It is a strategic and operational framework to guide countries in preparing for and responding to health emergencies and disasters across all hazards.
- All hazards, multi sectoral, whole-of-society, community centered approach
- Uses existing capacities of sectors, systems and communities
- links the national response actions to subnational and local response actions, including those of communities as the first responders
- Establishes and strengthens national coordination mechanisms for health emergency response
- Is aligned to and coordinated with any other sectoral emergency response plans
- Defines the overall roles, responsibilities, systems and mechanisms for initiating and managing emergency response
- Guidance describes the process, timeline, template



# **Contingency Planning**



### **Contingency planning**

#### Introduction

 Contingency planning is part of a cycle in which the identification and regular monitoring of risks, vulnerabilities and capacities informs the planning and implementation of measures to mitigate the risks and prepare to respond

#### **Contingency planning goal**

 To address and prepare for each hazard with imminent or high risks for the health of people (as identified by the strategic risk analysis)



#### **Contingency planning results**

- List and organise all risk mitigation and preparedness measures needed to address the given risks
- Clearly define roles and responsibilities for the implementation of each planned action



#### **Risk mitigation actions**

 Include all actions to <u>reduce the</u> <u>severity of, probability of occurrence</u> <u>of, or exposure to</u> a given hazard and therefore lessen its impact

- Preemptive vaccination
- Vector control
- Improved water, hygiene, and sanitation measures
- Infection control including personal protection
- Risk communication

#### **Preparedness actions**

 Include all actions to <u>increase</u> knowledge and capacity to anticipate, respond to and recover from the impact of one or more events

- Ensure an early warning system is in place
- Position drugs, vaccines, medical supplies and other logistic items
- Identify potential treatment centers (isolation rooms), train staff and ensure case management protocols are in place
- Organize training and simulation exercise of the potential response



# Thank You