

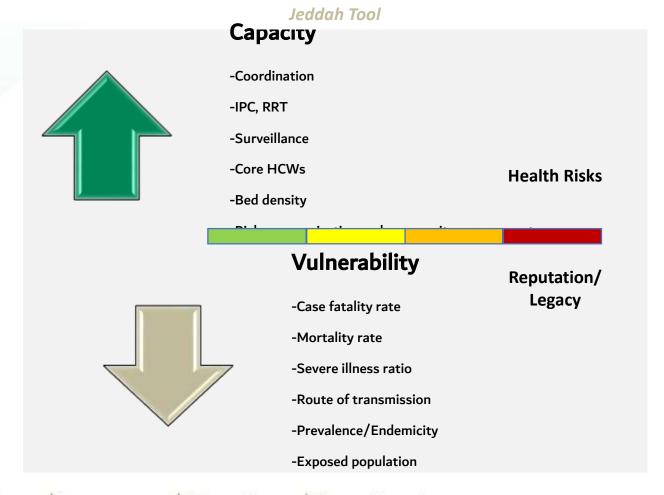
# Strategic Health Risk Assessment

1442H Religious Mass Gatherings



#### **Aim of Risk Assessment**

- Identify and prioritize the main hazards that are potential threats
- Explore the vulnerability of the population to hazards
- Assess the existing health system capacities
- Estimate the main health risks
- Estimate the health risks from COVID-19 during Hajj



Recommend appropriate preventive SaudiMOH MOHPOrtal SaudiMOH Saudi\_Moh



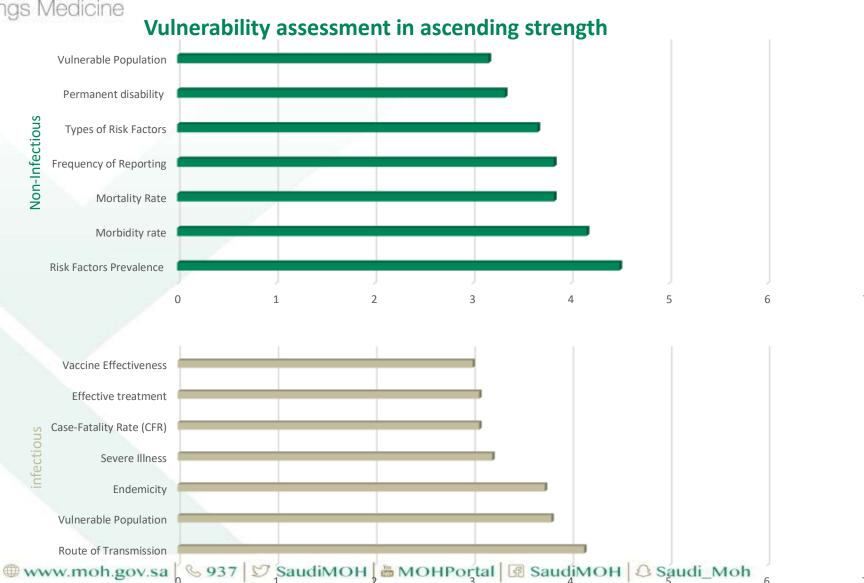
#### **Risk Estimate Assumptions:**

- Significant reduction in the population of pilgrims
- International pilgrims will not participate in Hajj
- Capacities are similar to last Hajj Season

#### **Risk Ranking for 1442 h − 2021.**

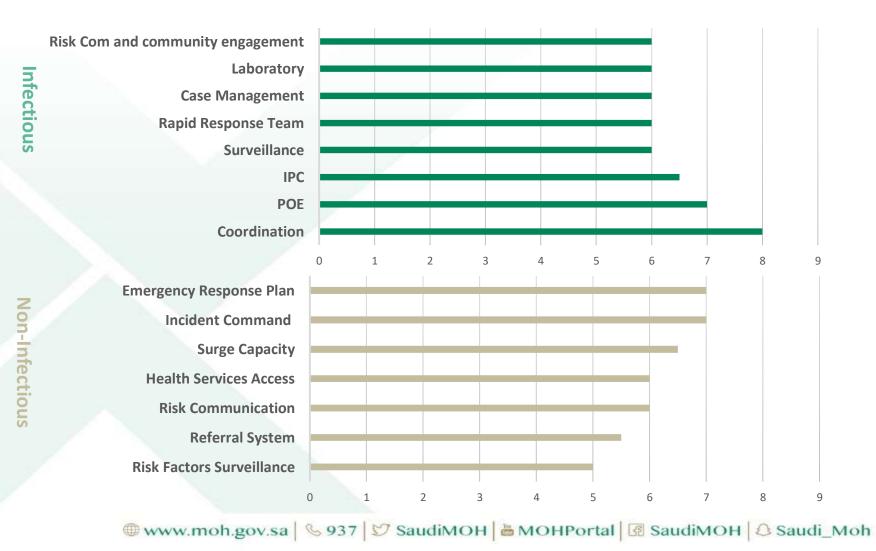
Risk Category	Infectious (Local)	Infectious (Imported)	Non-infectious	
Very High Risk	COVID-19	COVID-19	HRI, NCDs	
High Risk	MERS,	Measles, M. meningitis, Cholera, TB	Stampede, MVA	
Moderate Risk	Food poisoning, Influenza, Dengue	Ebola, Yellow fever, Poliomyelitis, Lassa fever	Fires, structural collapse	
Low Risk	Brucellosis	Malaria, Avian Flu	Intentional Injuries	







### **Capacity assessment in ascending strength**





#### Snapshot into COVID 19 global status (26 April 2021):

#	Country, Other	Total Cases	New Cases	Total Deaths	New Deaths	Total Recovered	Active Cases	Serious, Critical	Tot Cases/ 1M pop	Deaths / 1M pop	Population
	Globally	147,826,019	+45,194	3,123,608	+1,159	125,821,027	18,881,384	110,401	18,965	400.7	7,794,798,739

Total doses given so far 1.01 billion doses among 235 million individuals ( 3 % of global population)

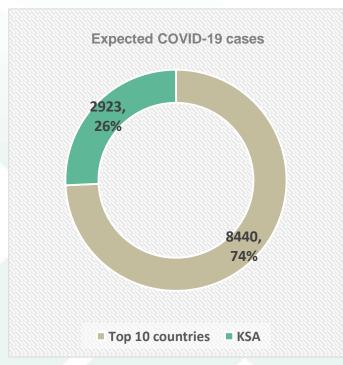


#### Risk of COVID-19 variants to spread during mass gatherings:

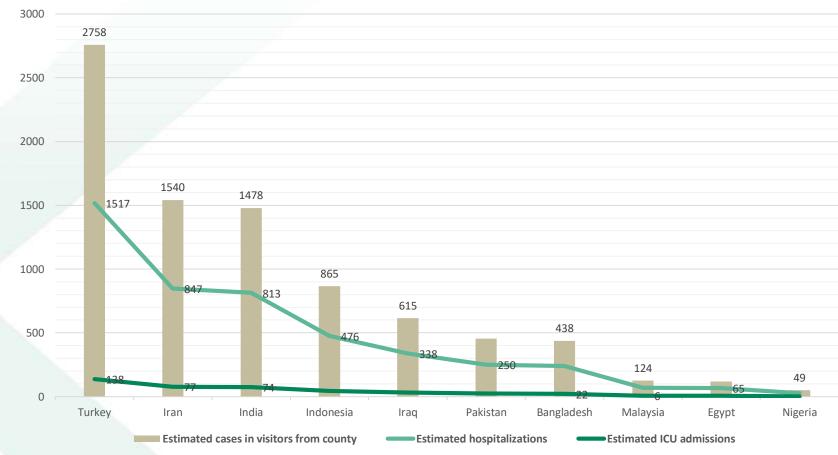
- Globally, three significant variants of concern (VOCs) have been identified, informally associated with the name of the country where they were first noted. They are referred to as:
  - 1. the "UK" (B.1.1.7)
  - 2. the "South Africa" (B.1.351)
  - 3. the "Brazil" (P1) variants
- Lately, a new variant was detected in India (B1.617), which has two important mutations L452R and E484Q.
- Variants raise the risk of:
  - 1. Increased transmissibility
  - 2. Increased severity and risk of hospitalization
  - 3. Decreased vaccine effectiveness



# Modelling expected number of imported cases/1,000,000 visitor population, based on country attack rate, and global disease severity index



Number of cases: 11364
Ward Admissions: 6250
ICU admissions: 568





## Projected COVID-19 bed capacity for different population size with current control measures

Bed needs,	1											
population	2.5N	lillion	<b>1 M</b> i	illion	500,	000	100,	000	50,0	000	10,0	00
Pattern	Ward	ICU	Ward	ICU	Ward	ICU	Ward	ICU	Ward	ICU	Ward	ICU
(National and International population)	46053	25329	18421	10132	9211	5066	1842	1013	921	507	184	101
(National population only)	28795	15837	11518	6335	5759	3167	1152	633	576	317	115	63



General Measures	
Planning/Disease surveillance/Training	<ul> <li>Provide unified electronic health record for pilgrim and visitors</li> <li>Complete the health early warning system (HEWS)</li> </ul>
	Provide refresher courses for all core HCWs, focusing on diseases surveillance, case management and IPC
COVID-19	
Coordination/Planning	Clear ICS and SOP for suspending or restructuring Umrah and Hajj
	Limit the number of attendees and include only those who are vaccinated if possible
	• Exclude pilgrims aged ≥ 65 years, pregnant women, those with comorbidity and children aged ≤15 years
	Pilgrims should be accommodated in known fixed accommodation
	The length of stay in the Kingdom/Hajj area should not exceed 10 days
	Mobilize adequate number of trained healthcare personnel without jeopardizing staff capacity in other
	areas



#### COVID-19

#### Screening/IPC

- All individuals should be screened and quarantined for 2 weeks before arrival
- Vaccinated attendees could resume domestic travel and refrain from testing before or after travel or selfquarantine after travel
- All pilgrims should be accommodated, transported and mobilized for performance of rituals as a cohort
- Vaccinated attendees could stay indoors with vaccinated individuals without wearing masks or physical distancing.
- A cohort should consist of at most 50 people, alongside service providers assigned exclusively to individual cohort
- An isolation area should be designated in each housing and ritual site
- Maintain a distance of 2 meters between pilgrims at all times during public gatherings.
- Facemask use during outdoor and group activities should be mandatory
- Ensure adequate supply of PPE and monitor IPC measures in health facilities

#### · · · · Active surveillance should be undertaken in housing and ritual areas with linkage to HEWS **Surveillance**



COVID-19	
Risk Communication/	• A Hajj risk communication plan should be developed and shared with foreign ministries and Hajj organizers
Community Engagement	
Case Management	<ul> <li>A contingency plan for health services delivery, including pathway for care seeking and referral policy should be shared ahead of Hajj</li> </ul>
Infectious Diseases (Contd	
Hemorrhagic Fevers	Strengthen the contingency plan for response to hemorrhagic fever outbreak
(Ebola, Lassa fever)	Conduct entry screening for visitors arriving from Congo (DRC)
	• Monitor closely the Lassa fever situation in Nigeria and coordinate with the Nigerian health authorities for exchange of surveillance data.
Vector-borne diseases	Develop a sustainable plan for vector surveillance in vulnerable areas
(Dengue, Yellow fever)	Coordinate with the municipality regarding vector control for dengue in urban areas
Meningococcal Meningitis	Consider recommending the conjugate meningococcal vaccine as mandatory requirement.
Measles	Strengthen measles surveillance
	• wwRecommend the vaccination of all vulnerable host population OH O Saudi_Moh



Foodborne diseases	Discourage street hawking in the Hajj areas
	Monitor the food supply of accredited vendors
	Strengthen the capacity of foodborne diseases investigation teams, including diagnostics and logistics
<b>Non-Infectious Condition</b>	IS Control of the con
NCDs	Routinely collect and analyze NCDs data through the unified health records for planning
	Screen for NCDs risk factors pre-arrival
	Establish an international post-Hajj referral protocol for continuity of care
HRI	Strengthen risk communication capacity for HRI
	<ul> <li>Ensure the implementation of the national HRI management guidelines</li> </ul>
Stampede/crush	Ensure adequate crowd management and remove traffic bottlenecks
MVA/injuries	Provide speedbumps and traffic cameras in appropriate areas
	Monitor the use of seat belts and other safety measures by both passengers and drivers



Unspecific	Provide emergency service health posts in designated
	Strengthen the coordination between national agencies, and
	Conduct joint drills involving incident managers across relevant agencies
Unspecific	Provide emergency service health posts in designated
	Strengthen the coordination between national agencies, and
	<ul> <li>Conduct joint drills involving incident managers across relevant agencies</li> </ul>
	<ul> <li>International coordination and active participation and consultation with all stakeholders: OIC, Islamic boards, WHO, CDCs, IATA, Hotel chains and Media</li> </ul>
	Link surveillance data with all concerned countries