



Global average of all 195 countries

PREVENTION         49.6         49.7         28.4           Antimicrobial resistance (AMR)         83.3         83.3         45.3           Zoonotic disease         57.9         58.3         19.8           Biosacurity         48         48         18.7           Biosafety         25         25         20.9           Dual-use research and culture of responsible science         33.3         33.3         2.6           Immunization         50         50         63.3           DETECTION AND REPORTING         51.5         53.6         32.3           Laboratory systems strength and quality         75         75         44.9           Laboratory supply chains         50         50         15.9           Real-time surveillance and reporting         87.5         87.5         34.6           Surveillance data accessibility and transparency         46.7         46.7         34.7           Case-based investigation         0         12.5         16.9           Epidemiology workforce         50         46.5         37.6           RAPID RESPONSE         64.8         56.3         37.6           Emergency preparedness and response planning         25         21.1           Emergency r		<b>2019</b> SCORE	<b>2021</b> SCORE	<b>2021</b> GLOBAL
Antimicrobial resistance (AMR) 83.3 83.3 45.3  Zoonotic disease 57.9 58.3 19.8  Biosecurity 48 48 18.7  Biosafety 25 25 20.9  Dual-use research and culture of responsible science Immunization 50 50 63.3  DETECTION AND REPORTING 51.5 53.6 32.3  Laboratory systems strength and quality 75 75 44.9  Laboratory supply chains 50 50 15.9  Real-time surveillance and reporting 87.5 87.5 34.6  Surveillance data accessibility 46.7 46.7 34.7  and transparency 46.7 46.7 34.7  Epidemiology workforce 50 50 46.5  RAPID RESPONSE 64.8 56.3 37.6  Emergency preparedness and response planning Exercising response plans 0 25 21.1  Emergency response operation 33.3 33.3 27  Linking public health and security authorities	PREVENTION			7172101042
Zoonotic disease         57.9         58.3         19.8           Biosecurity         48         48         18.7           Biosafety         25         25         20.9           Dual-use research and culture of responsible science         33.3         33.3         2.6           Immunization         50         50         63.3           DETECTION AND REPORTING         51.5         53.6         32.3           Laboratory systems strength and quality         75         75         44.9           Laboratory supply chains         50         50         15.9           Real-time surveillance and reporting         87.5         87.5         34.6           Surveillance data accessibility and transparency         46.7         46.7         34.7           Case-based investigation         0         12.5         16.9           Epidemiology workforce         50         50         46.5           RAPID RESPONSE         64.8         56.3         37.6           Emergency preparedness and response planning         58.3         75         30.4           Exercising response plans         0         25         21.1           Emergency response operation         33.3         33.3         27 <t< td=""><td></td><td></td><td></td><td></td></t<>				
Biosecurity 48 48 18.7 Biosafety 25 25 20.9 Dual-use research and culture of responsible science Immunization 50 50 63.3  DETECTION AND REPORTING 51.5 53.6 32.3  Laboratory systems strength and quality Laboratory supply chains 50 50 15.9  Real-time surveillance and reporting 87.5 87.5 34.6  Surveillance data accessibility and transparency 46.7 46.7 34.7  and transparency Case-based investigation 0 12.5 16.9  Epidemiology workforce 50 50 46.5  RAPID RESPONSE 64.8 56.3 37.6  Emergency preparedness and response planning 58.3 75 30.4  Exercising response operation 33.3 33.3 27  Linking public health and security authorities	<u> </u>			45.3
Biosafety 25 25 20.9  Dual-use research and culture of responsible science  Immunization 50 50 63.3  DETECTION AND REPORTING 51.5 53.6 32.3  Laboratory systems strength and quality 75 75 44.9  Laboratory supply chains 50 50 15.9  Real-time surveillance and reporting 87.5 87.5 34.6  Surveillance data accessibility and transparency 46.7 46.7 34.7  Epidemiology workforce 50 50 46.5  RAPID RESPONSE 64.8 56.3 37.6  Emergency preparedness and response planning 50 25 21.1  Emergency response operation 33.3 33.3 27  Linking public health and security authorities	Zoonotic disease	57.9	58.3	19.8
Dual-use research and culture of responsible science  Immunization  DETECTION AND REPORTING  Laboratory systems strength and quality  Laboratory supply chains  Real-time surveillance and reporting  Surveillance data accessibility and transparency  Case-based investigation  Epidemiology workforce  Table 16.9  Emergency preparedness and response planning  Exercising response operation  DETECTION AND Solution Solutio	Biosecurity	48	48	18.7
Immunization 50 50 63.3  DETECTION AND REPORTING 51.5 53.6 32.3  Laboratory systems strength and quality 75 75 44.9  Laboratory supply chains 50 50 15.9  Real-time surveillance and reporting 87.5 87.5 34.6  Surveillance data accessibility and transparency 46.7 46.7 34.7  Case-based investigation 0 12.5 16.9  Epidemiology workforce 50 50 46.5  RAPID RESPONSE 64.8 56.3 37.6  Emergency preparedness and response planning 58.3 75 30.4  Exercising response plans 0 25 21.1  Emergency response operation 33.3 33.3 27  Linking public health and security authorities	Biosafety	25	25	20.9
DETECTION AND REPORTING51.553.632.3Laboratory systems strength and quality757544.9Laboratory supply chains505015.9Real-time surveillance and reporting87.587.534.6Surveillance data accessibility and transparency46.746.734.7Case-based investigation012.516.9Epidemiology workforce505046.5RAPID RESPONSE64.856.337.6Emergency preparedness and response planning58.37530.4Exercising response plans02521.1Emergency response operation33.333.327Linking public health and security authorities10010022.1		33.3	33.3	2.6
REPORTING51.553.632.3Laboratory systems strength and quality757544.9Laboratory supply chains505015.9Real-time surveillance and reporting87.587.534.6Surveillance data accessibility and transparency46.746.734.7Case-based investigation012.516.9Epidemiology workforce505046.5RAPID RESPONSE64.856.337.6Emergency preparedness and response planning58.37530.4Exercising response plans02521.1Emergency response operation33.333.327Linking public health and security authorities10010022.1	Immunization	50	50	63.3
and quality Laboratory supply chains  Real-time surveillance and reporting  Surveillance data accessibility and transparency  Case-based investigation  Epidemiology workforce  Table 18.3  Emergency preparedness and response planning  Exercising response operation  Additional security authorities  Additional security authorities  Table 19.0  End 44.9  Additional security authorities		51.5	53.6	32.3
Real-time surveillance and reporting  Surveillance data accessibility and transparency  Case-based investigation  Epidemiology workforce  50  50  46.5  RAPID RESPONSE  Emergency preparedness and response planning  Exercising response plans  0  25  21.1  Emergency response operation  Linking public health and security authorities		75	75	44.9
reporting  Surveillance data accessibility and transparency  Case-based investigation  Epidemiology workforce  FAPID RESPONSE  Emergency preparedness and response planning  Exercising response plans  Emergency response operation  To add the security authorities  Sala and the security authorities  Sala and the security authorities  Sala and the security authorities  Add the security authorities	Laboratory supply chains	50	50	15.9
and transparency  Case-based investigation 0 12.5 16.9  Epidemiology workforce 50 50 46.5  RAPID RESPONSE 64.8 56.3 37.6  Emergency preparedness and response planning 58.3 75 30.4  Exercising response plans 0 25 21.1  Emergency response operation 33.3 33.3 27  Linking public health and security authorities		87.5	87.5	34.6
Epidemiology workforce 50 50 46.5  RAPID RESPONSE 64.8 56.3 37.6  Emergency preparedness and response planning 58.3 75 30.4  Exercising response plans 0 25 21.1  Emergency response operation 33.3 33.3 27  Linking public health and security authorities 100 100 22.1	3	46.7	46.7	34.7
RAPID RESPONSE  Emergency preparedness and response planning  Exercising response plans  Emergency response operation  Linking public health and security authorities  64.8 56.3 37.6  58.3 75 30.4  25 21.1  21.1	Case-based investigation	0	12.5	16.9
Emergency preparedness and response planning  Exercising response plans  0 25 21.1  Emergency response operation  33.3 33.3 27  Linking public health and security authorities	Epidemiology workforce	50	50	46.5
response planning  Exercising response plans  0 25 21.1  Emergency response operation  33.3 33.3 27  Linking public health and security authorities	RAPID RESPONSE	64.8	56.3	37.6
Emergency response operation 33.3 33.3 27  Linking public health and security authorities 100 22.1		58.3	75	30.4
Linking public health and security authorities 100 22.1	Exercising response plans	0	25	21.1
security authorities	Emergency response operation	33.3	33.3	27
D: 1 077 F07 F70	9.	100	100	22.1
Risk communication 83.3 58.3 57.9	Risk communication	83.3	58.3	57.9
Access to communications 78.5 77.6 65.7 infrastructure		78.5	77.6	65.7
Trade and travel restrictions 100 25 39	Trade and travel restrictions	100	25	39

Scores are normalized	(0–100, where 10t	) = most favorable)
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	<b>2019</b> SCORE	<b>2021</b> SCORE	<b>2021</b> GLOBAL AVERAGE
HEALTH SYSTEM	50.3	50.3	31.5
Health capacity in clinics, hospitals, and community care centers	48.5	48.4	30
Supply chain for health system and healthcare workers	44.4	44.4	28.5
Medical countermeasures and personnel deployment	0	0	10.3
Healthcare access	59.2	59.1	55.2
Communications with health- care workers during a public health emergency	0	0	10.8
Infection control practices	100	100	40.5
Capacity to test and approve new medical countermeasures	100	100	45.1
COMPLIANCE WITH INTERNATIONAL NORMS	37	41.7	47.8
IHR reporting compliance and disaster risk reduction	50	50	58.5
Cross-border agreements on public and health emergency response	0	50	50
International commitments	46.9	50	56.1
JEE and PVS	25	0	18.7
Financing	33.3	33.3	35.2
Commitment to sharing of genetic and biological data and specimens	66.7	66.7	68.4
RISK ENVIRONMENT	52.8	55.9	55.8
Political and security risk	63	65.4	58.1
Socio-economic resilience	57	57.4	60.9
Infrastructure adequacy	33.3	41.7	50.2
Environmental risks	54.4	58.2	54.7
Public health vulnerabilities	56.3	56.6	55.3