

Keeping you safe!

QUICK REACTION GUIDE FOR EMERGENCY RESPONSE TO SARS-COV-2/COVID-19 INCIDENTS

This guide is based upon a level of risk determined by a responder's activity along with current community circumstances. This risk is then used to select the protective equipment necessary based upon the highest operational risk.

Public Health Situational Awareness	Asymptomatic (wearing mask)	Asymptomatic (not wearing mask)	Symptomatic (wearing mask)	Symptomatic (not wearing mask)
High Density Area with High Number of SARS-CoV-2 Infections ¹	LOW	MEDIUM	HIGH	HIGH
High Density Area with Low Number of SARS-CoV-2 Infections ²	LOW	LOW	MEDIUM	HIGH
Medium Density Area with High Number of SARS-CoV-2 Infections ³	LOW	MEDIUM	HIGH	HIGH
Medium Density Area with Low Number of SARS-CoV-2 Infections ³	NEGLIGIBLE	LOW	MEDIUM	HIGH
Low Density Area with High Number of SARS-CoV-2 Infections ³	LOW	MEDIUM	HIGH	HIGH
Low Density Area with Low Number of SARS-CoV-2 Infections ³	NEGLIGIBLE	LOW	MEDIUM	HIGH

STEP 1: Estimating Levels of Risk Using Public Health Guidance, Population Density, Symptomology, and Observables

Where Population Density is defined as:

¹High Density: $\geq 10,000$ people per square mile

²Medium Density: 1000 people per square mile \leq population density $< 10,000$ people per square mile

³Low Density: < 1000 people per square mile

Where the Density of SARS-CoV-2 infections is defined as:

⁴High: $\geq 1,000$ infections per 100,000 people

⁵Low: $< 1,000$ infections per 100,000 people

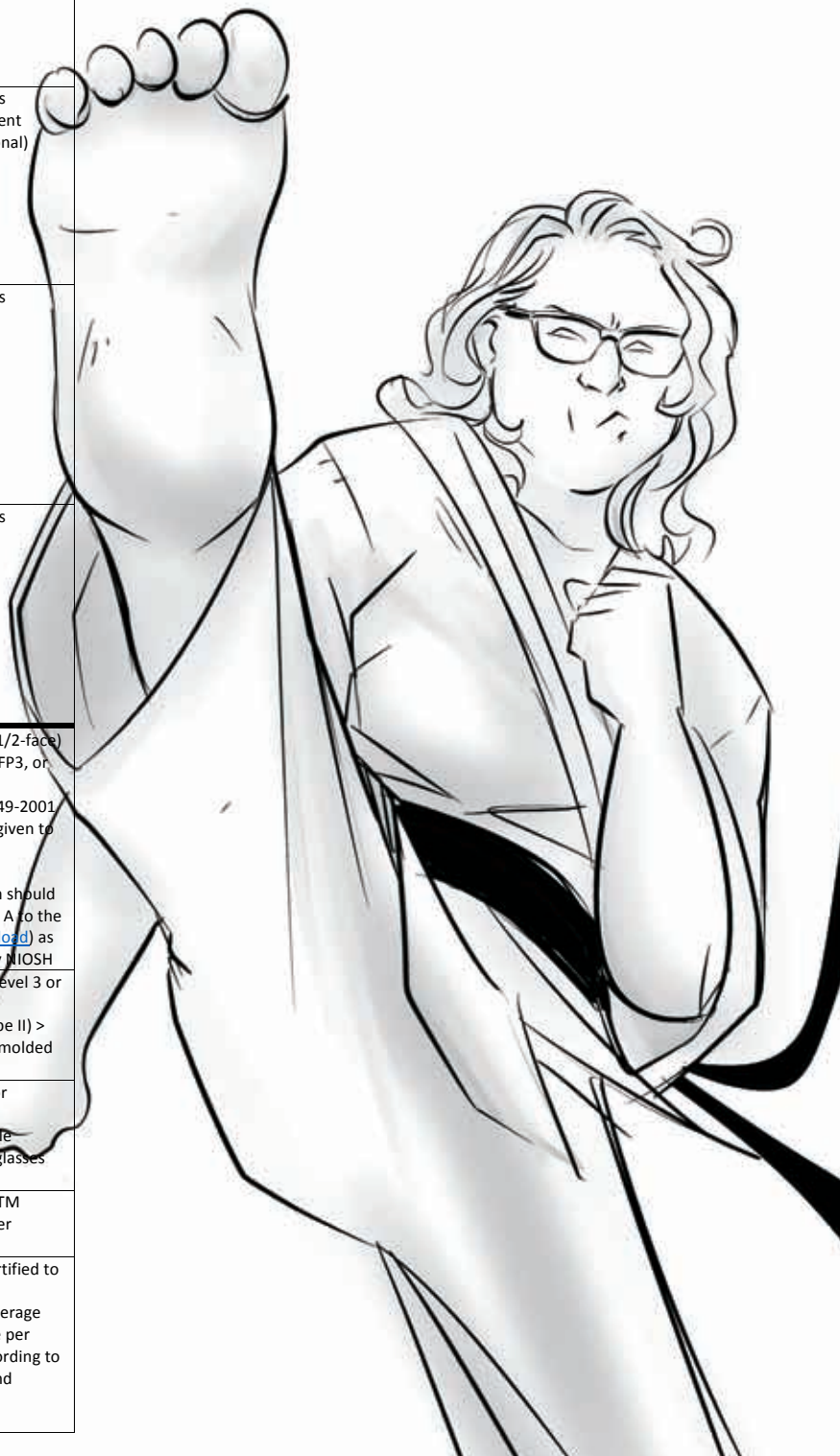


More information on our range of events via www.cbrneworld.com

Dr Christina Baxter, of Emergencyresponsetips.com, offers helpful advice for first responders. This issue is for Sars-Cov-2/Covid-19 incidents.

STEP 2: Determining the Minimum Acceptable Personal Protective Equipment

Level of Risk	Example Actions	Respiratory & Ocular Protection	Gloves & Garments
HIGH	<ul style="list-style-type: none"> - All interactions with COVID-19 positive subjects not wearing masks - All interactions with COVID-19 subjects wearing masks in high density/high infection areas 	Respirator Non-venting goggles	Gloves Garment
MEDIUM	<ul style="list-style-type: none"> - All interactions with COVID-19 positive, symptomatic subjects, even if wearing a mask in low infection rate areas - All interactions with COVID-19 positive, asymptomatic subjects not wearing masks in high infection rate areas. 	Respirator Safety glasses, goggles, or face shield	Gloves Garment (optional)
LOW	<ul style="list-style-type: none"> - All interactions with COVID-19 positive, asymptomatic subjects not wearing masks in low infection rate areas. - All interactions with COVID-19 positive, asymptomatic subjects wearing masks in high infection rate areas or high population density areas. 	Medical mask	Gloves
NEGLIGIBLE	<ul style="list-style-type: none"> - Interactions with COVID-19 positive, asymptomatic subjects wearing masks in low infection rate areas with low or medium population density. - Interactions with the general public and persons not determined to be COVID-19 positive. 	Barrier face covering	Gloves
Respirator	<ul style="list-style-type: none"> - Recommended: Disposable or Reusable (elastomeric 1/2-face) NIOSH-approved N,R,P-100 respirator, EN 149-2001 FFP3, or AS/NZS 1716:2012 P2 - Minimum: NIOSH-approved N,R,P-95 respirator, EN 149-2001 FFP2, or AS/NZS 1716:2012 P2; Consideration can be given to other international productions meeting the FDA EUA guidelines - NOTE: If considering a KN95 from china, consideration should first be given to those listed as approved on Appendix A to the FDA EUA (https://www.fda.gov/media/136663/download) as their performance has been independently verified by NIOSH 		
Masks	<ul style="list-style-type: none"> - Recommended: Medical mask meeting ASTM F2100 Level 3 or EN 14683:2019 Type IIR - Minimum: ASTM F2100 Level 2 (or EN 14683:2019 Type II) > ASTM 2100 Level 1 (EN 14683:2019 Type I) > Surgical molded utility mask > utility mask > barrier face covering 		
Ocular	<ul style="list-style-type: none"> - Recommended: ANSI Z87.1, N3 or N5 rated goggles (or EN.166F rated goggles), or full-face respirator - Minimum: ANSI Z87.1 compliant disposable or reusable faceshield, or safety glasses (or EN.166F rated safety glasses or goggles) 		
Gloves	<ul style="list-style-type: none"> - Examination gloves meeting ASTM D6319 (nitrile), ASTM D6977, NFPA 1999, or EN455; Double gloving may offer additional physical protection 		
Garments	<ul style="list-style-type: none"> - Recommended: Single use garments or ensembles certified to NFPA 1999 - Minimum: Any protective garments, including full-coverage uniforms, offering passing viral penetration resistance per ASTM F1671 (or Class 5 of EN 14126 when tested according to ISO 16604), tested for adequate integrity, strength, and durability for intended use; isolation gowns are not appropriate for emergency response use. 		



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