

## Threat and Hazards Assessment Table: New York City

Natural	Technological	Human-caused
Resulting from acts of nature	Involves accidents or the failures of systems and structures	Caused by the intentional actions of an adversary
<p><b>Severe Weather-</b> Torrential downpours, storms, which often affect the Northeast, result in extreme cold, severe winds, compromised transit system, blocked highways, washed out roads, and bridges<sup>2</sup>.</p> <p><b>Seasonal Influenza or other communicable diseases:</b> Center for renowned academic, healthcare and financial institutions - easily vulnerable to communicable diseases such as the Covid-19 virus due to primary source exposure and international community.</p> <p><b>Hurricanes:</b> Due to extreme weather. The east coast has become vulnerable to hurricanes causing massive infrastructure damage<sup>2</sup>. power outages and floods.</p> <p><b>Pandemics-</b> New York is the epicenter of the current pandemic- the coronavirus, also known as Covid-19. This current pandemic is due to population density and people arriving all over the globe from international airports<sup>3</sup>.</p> <p><b>Floods</b> – New York City has had a significant number of historical flood events, most recent was back-to-back severe weather events tropical depressions Henri &amp; Ida <sup>[1]</sup>. Frequent water main breaks also severely impacted the transit system, as well as residential and commercial property damage.</p> <p><b>Fire:</b> Increasing temperatures and lack of or improperly set up smoke detectors, fires can destroy Universities, business, homes and contribute to premature deaths while also affecting the economy<sup>9</sup>.</p>	<p><b>Train/subway interruption/derailment:</b> Many NYC residents depend on the MTA transit, and Metro-North services to commute to school, work, and transporting tourists to and from their destinations. An interruption or derailment can result in fatal mass casualties and disruption of service. Thus, these services can be affected by extreme weather conditions and system failures<sup>4</sup>.</p> <p><b>Information Technology and IT disruption, and interruption–</b> We live in a digital environment, any disruption would impair our quality of life and would affect numerous financial, health, and academic institutions.</p> <p><b>Cyberattacks and data breaches–</b> 90% of Cyber-attacks and data breaches occur in New York City and California<sup>6</sup>. Both workplace and in our homes is at high risk of cyberattacks given the increasing use of technology used in the group practice, patient records, classrooms, and dental equipment.</p> <p><b>Power outage:</b> Due to climate change, severe weather events, and other factors; power outages disrupts every facet of people’s quality of life from heat to the city’s transit system<sup>5</sup>.</p>	<p><b>Terrorism-</b> NYC is a prime target given its large population density and its reputation of being a central hub for tourism<sup>7</sup>.</p> <p><b>Workplace Violence<sup>8</sup></b> – The staff may face risks of violence from combative clients/patients. This can jeopardize the safety of the staff and clients/patients. This often leads to lock down and interrupt the essential services to the community, jeopardizing clients/patients safety.</p> <p><b>Active Shooter:</b> Given the prevalence of active shooter incidents in recent years, people have become very familiar with the impact it has on communities and the mental health of survivors and their families.</p> <p><b>Demonstrations/Protests:</b> Demonstrating free speech is our constitutional right; when it’s a large gathering it can interfere with public safety, interrupt traffic and mass transit. However; if it becomes violent, it jeopardizes people’s lives and destruction of commercial and private property.</p> <p><b>Radiation Chemical biohazards:</b> Digital imaging and chemical biohazards are common elements in a dental office. Continuous exposure to ionizing radiation and biohazards pose a threat to the health of the dentists and staff.</p> <p><b>Shelter in place and or evacuations:</b> From natural or man-made threats both external and internal the dental office pose a threat to everyone in the vicinity.</p>

References:

1. 2021 Hurricane Ida: Facts, FAQs, and how to help  
Retrieved from: <https://www.worldvision.org/disaster-relief-news-stories/2021-hurricane-ida-facts>
2. NWS New York NY Severe Weather Page, Weather.gov  
Retrieved from: <https://www.weather.gov/okx/severewxpage>
3. Coronavirus and disease, 2019 (Covid-19), nyc.gov  
Retrieved from: <https://www1.nyc.gov/site/doh/covid/covid-19-main.page>
4. TIMELINE: A History of Recent NYC Train Derailments  
DNAinfo, Katie Honan, June 28, 2017  
Retrieved from: <https://www.dnainfo.com/new-york/20170628/midtown/new-york-city-mta-lirr-nj-transit-derailments/>
5. How to prepare for a power outage in New York City  
Amy Plitt, July 15, 2019  
Retrieved from: <https://ny.curbed.com/2019/7/15/20693846/nyc-blackout-how-to-prepare-emergency>
6. 90% of data breaches in US occur in New York and California, TechRepublic  
Retrieved from: <https://www.techrepublic.com/article/report-new-york-california-hotbeds-for-data-breaches/>
7. Terrorism, nyc.gov.  
Retrieved from: <https://www1.nyc.gov/site/em/ready/terrorism.page>
8. Workplace Violence Prevention Requirements For New York State Public Employers  
New York State Department of Labor Division of Safety and Health  
Retrieved from:  
<https://www.labor.ny.gov/workerprotection/safetyhealth/PDFs/Workplace%20Violence%20FlyerNov3.pdf>
9. Fire, nyc.gov  
Retrieved from: <https://www1.nyc.gov/site/fdny/index.page>