

GREATER NEW YORK HOSPITAL ASSOCIATION

Over 100 years of helping hospitals deliver the finest patient care in the most cost-effective way.

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Goal: Managing consequences from a cyber disruption and continuing operations and patient care throughout downtime





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Agenda

- □ GNYHA Overview
- □ Cybersecurity Background
- □ Exercise Overview
- □ Results
- □ Conclusions



- **Greater New York Hospital Association**
- □ Trade association based in New York City
- □ Hospitals
 - Nearly 160 member hospitals and health systems
 - Members are located in metropolitan New York, throughout New York State, and in New Jersey, Connecticut, and Rhode Island
- $\ \ \square$ Provide advocacy for members



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Greater New York Hospital Association

Continuing Care

- Not-for-profit and public organizations
 Located in NYC, Long Island and Westchester County
- Members provide short- and long-term skilled nursing, rehabilitation services, home health care, palliative care, adult day care, senior housing, independent living, assisted living, dialysis services















7	Emergency Preparedness and Response at GNYHA				
	CNYHA B CONTRACTOR TRANSPORT	3 emergency preparedness staff Hospital & Long Term Care members Facilities 167 NYC nursing homes / 78 ACFs Supported by 2 additional LTC trade associations 21 members outside of NYC Programming Webnizar & workshop Sit Start / EMResource for situational awareness Sit Start / EMResource for situational awareness			
* HP	P funding for NYC facilities	Seat at NYCEM EOC Liaison between facilities & agencies Federal, state, county, local			

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Cybersecurity Background

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⁹ Cybersecurity Statistics

Through mid-2023

- 327 data breaches had been reported to HHS's Office for Civil Rights
- Up more than 104% from 160 breaches as of mid-2022
- Costs: average of \$10 million per breach

Affected data: 40 to 89 million individual patients

- 60% increase year-over-year for the first six months.
- 2022: single breach involved 2 million records
- First half of 2023: 5 breaches of at least 3 million records each

Why Healthcare



- $\hfill \Box$ Access to data through third party vendors
- □ Lack of network security
- □ Physical theft
- □ Use of legacy systems
- □ Sensitive and valuable data

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Why Is the Data Valuable

- Personal and medical information is sold

 - Health records are permanent Exposes private medical and personal information
- Passwords can be used to commit fraud and identity theft

 Submit claims for false medical treatments
- Data can be held for ransom payments Threatens patient health

 - Threatens business operations
 Even without paying ransom, it costs the organization



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2019 Ransomware Attack: Wisconsin



- onsin nursing home provider Cloud data hosting 110 nursing homes affected Cost: \$14 million

2022 Ransomware Attack: Consulate Health Care

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2024: Our Fragile Healthcare System

- Ransomware attack
 Potentially impacting 1/3 of US healthcare patients
- Not an attack on a facility: an attack on healthcare transactions
- □ Affected hospitals and pharmacies

Impact: widespread repercussions across the *industry*

- Ransomware attack
 Affecting 140 hospitals in multiple states
- Ambulance diversions

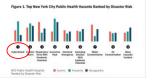
 Long term care facilities
- Pharmacies
 Facilities resorting to pen and paper downtime procedures

Impact: direct disruption of ability to provide patient

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2018 New York City Public Health Jurisdictional Risk Assessment







17 Exercise Scope



Virtual



2 vignettes



10 breakouts

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Examine the plans and abilities of NYC long-term care facilities to respond to a significant cyber incident.

Examine the plans and abilities of NYC long-term care facilities to respond to a significant cyber incident.

Evaluate the ability for the NYC long-term care facilities to gather and disseminate essential elements of information during a significant cyber incident.

Explore PYC long-term care facilities' processes for internal and external messaging during a cyber incident.

¹⁹ Exercise Summary: Scenario

- □ Vignette 1: A distributed denial of service attack and data exfiltration incident impacting patient health information and personally identifiable information.
- □ Vignette 2: A compromise to participants' EMR vendor(s) that resulted in data manipulation and ransomware on their facility's systems and devices.



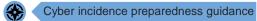
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20	Exercise Participation		
	Facilities	Agencies	Organizations
	68 nursing homes	Local NYC DOHMH NYCEM NYCEM NYPD NYC Cyber Command	Associations - GNYHA - GNYHEFA - SNYA
	4 adult care facilities	State NYS Dept of Health Federal CISA	Other - Healthix - IMS - Centers Health Care

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²² Observations







Medical record access if EMRs are offline



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Results: Areas of Strength

- <u>Teamwork & partnership across the</u> <u>sector/network</u>
- · "Right team members in the room"
- Identified needs (e.g., cyber training, incident response plans, backups, etc.)
- Recognized priorities for the organization during an incident
- · Preparation for EMR disruptions
- Policies
- Practicing / drills / exercises





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²⁴ Results: Areas of Improvement

- · Talk with leadership
- Cyber training and education
- Understand, identify, and address vulnerabilities
- Build relationships with external partners before an incident
- More backup/downtime plans and processes
- Improve communications capabilities (e.g., pre-written messages and contact info)
- Develop or improve incident response plan or documentation for a cyber incident





Improper Patient / Resident Care

Costs Include

- Forensic analysis and data recovery
- Consumer notification and credit monitoring
- Logal shallines
- Regulatory fines and penalties
- Crisis management and public relations

HIPAA
Violations with
Fines

Neglected
Documentation
Needed for
Reimbursement

V

State Data Privacy Violations

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Long Term Care Vulnerabilities

Long term care slower than hospitals to implement cyber security Lag

Scams Directed Elderly often have At Elderly excellent credit and savings so are frequent targets

Families unlikely to immediately check and close accounts

Deceased Patients' Data

Use of Unsecured Devices within the facility can expose networks to issues



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Thank you!



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