

# PANDEMIC ALERT

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Not **COVID**,  
then what??





## Cyber Crimes Getting out of Hand!

FITCH WIRE

### Cyber Theft of Customer Data a Growing Risk for US Health Insurers

Tue 29 Jun, 2021 - 12:29 PM ET



HOSPITALS TECH PAYER

Tech

### Relentless cyberattacks are putting financial pressure on hospitals: Fitch Ratings

by Heather Landi | Jul 26, 2021 9:00am

ZDNet



[Global Edition](#) [Privacy & Security](#)

### Cancer patient sues UCSD Health over 500K-record info breach

The complaint follows a phishing incident that may have allowed bad actors access to patient information for months.

[NEWSLETTERS](#) [ALL WRITERS](#)

### Cyber criminals targeting hospitals are 'playing with lives' and must be stopped, report warns

Cyberattacks against healthcare are putting patients at risk and having a psychological impact on staff. Governments must do more to help fight attacks, warns a report by the CyberPeace Institute.

### 'Nobody is safe from this': Cybercrime in health care

JUNE 8, 2021

### US hospital pays \$55,000 to hackers after ransomware attack

Hancock Health paid up despite having backups available.

es to expose your practice's essential data and nation to a costly cyberattack. The threat to health care is as is the sophistication of attacks, and your practice

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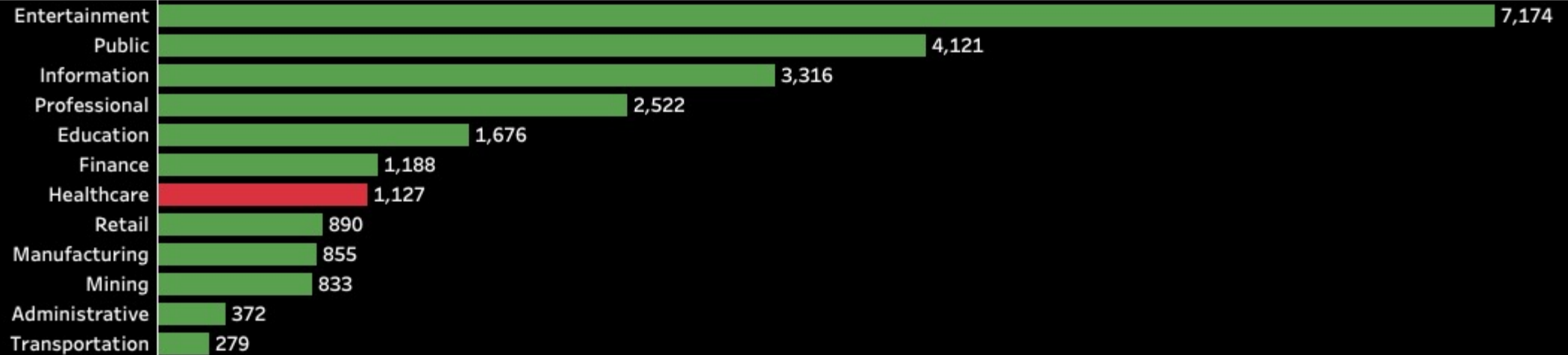
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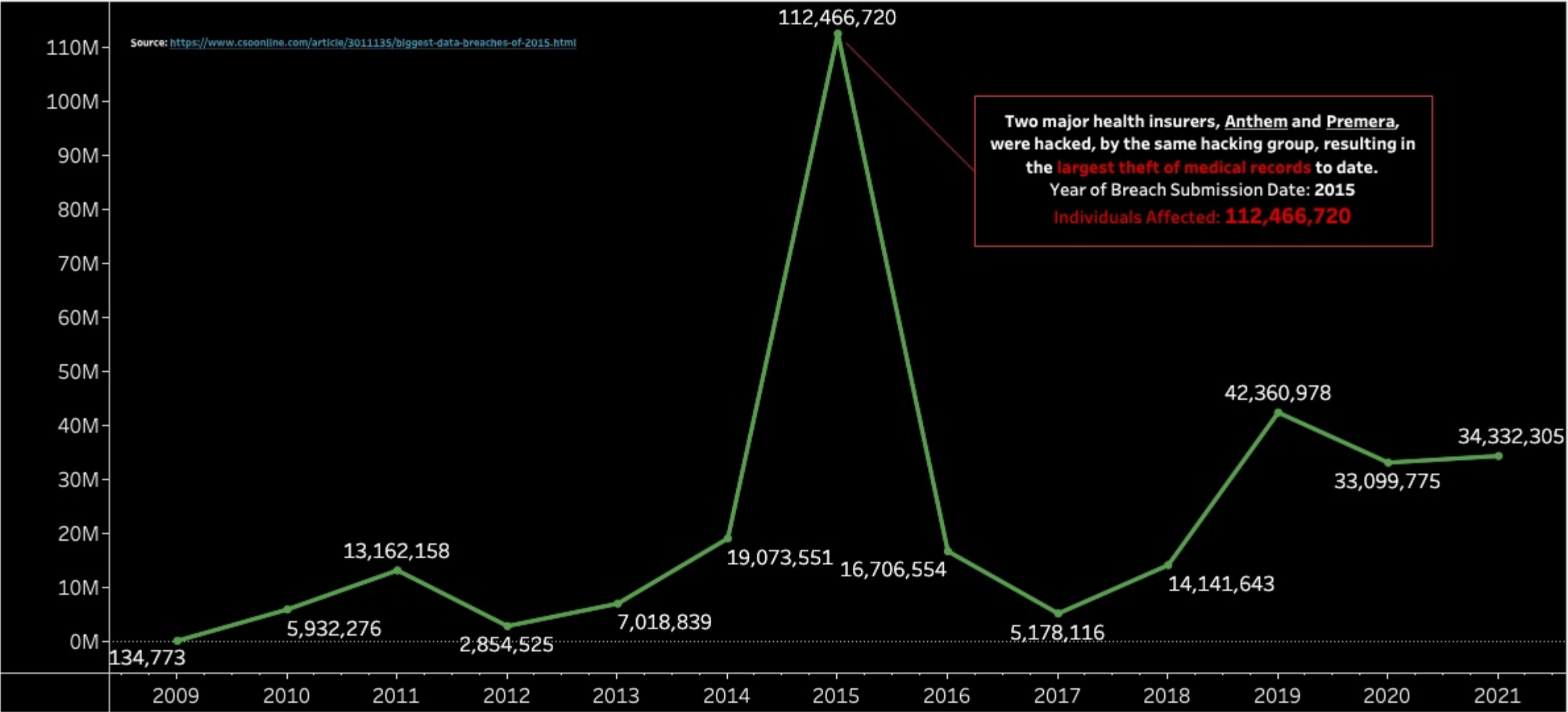
## Industry wise Data Breaches in 2021



## Comparison of Breaches on an Average



# Number of Individuals Affected over the years





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WHY  
HEALTHCARE?



## Baby dies because of a ransomware attack on hospital, suit says

**NBC NEWS** Kevin Coller



## FEW MORE HEADLINES YOU MIGHT HAVE MISSED

- Major hospital system hit with cyber attack, potentially largest in the US history

**NBC NEWS**

Kevin Coller

Surgeries canceled, ambulances diverted, IT system down at Ohio health system after ransomware attack

**BECKER'S HEALTH IT**

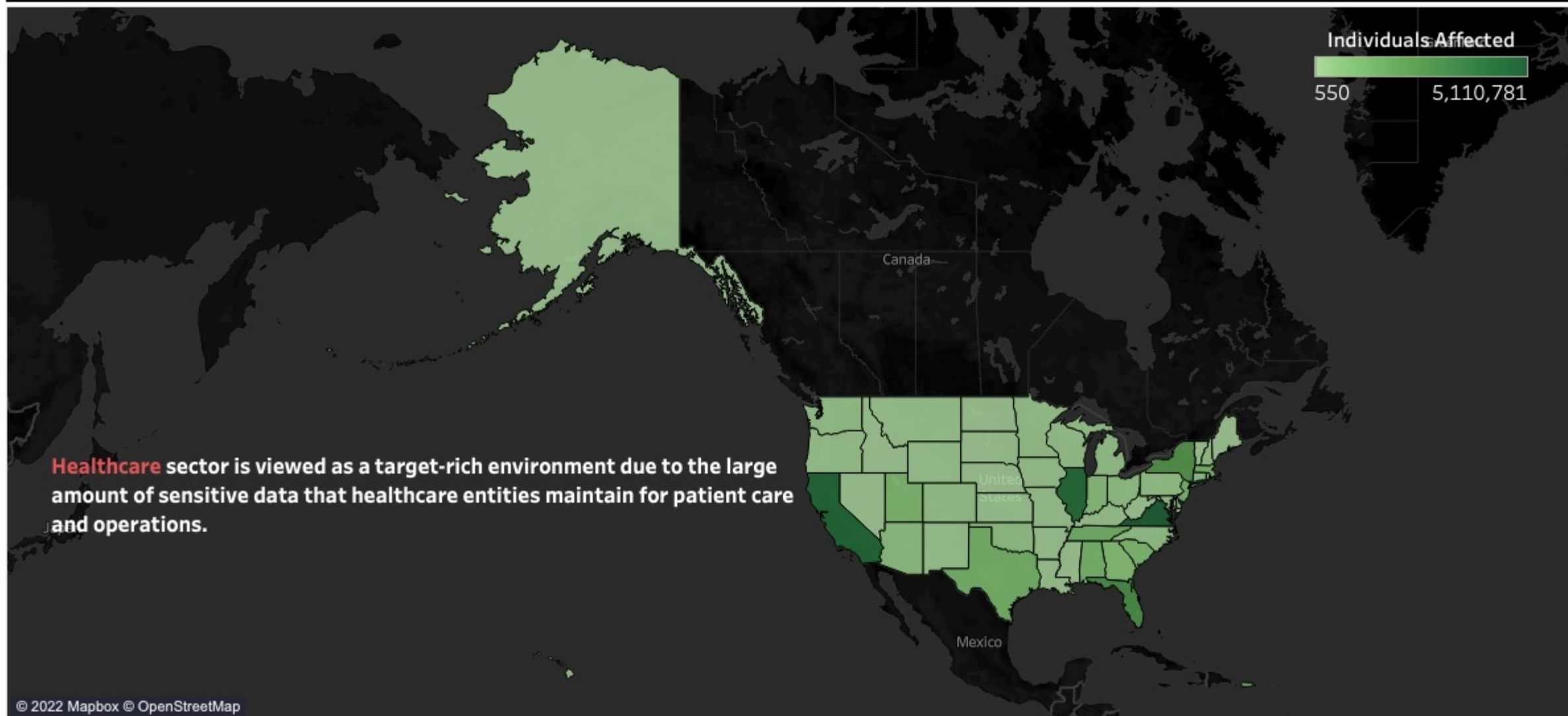
Hannah Mitchel

-Ransomware: Attacks could be about to get even more dangerous and disruptive

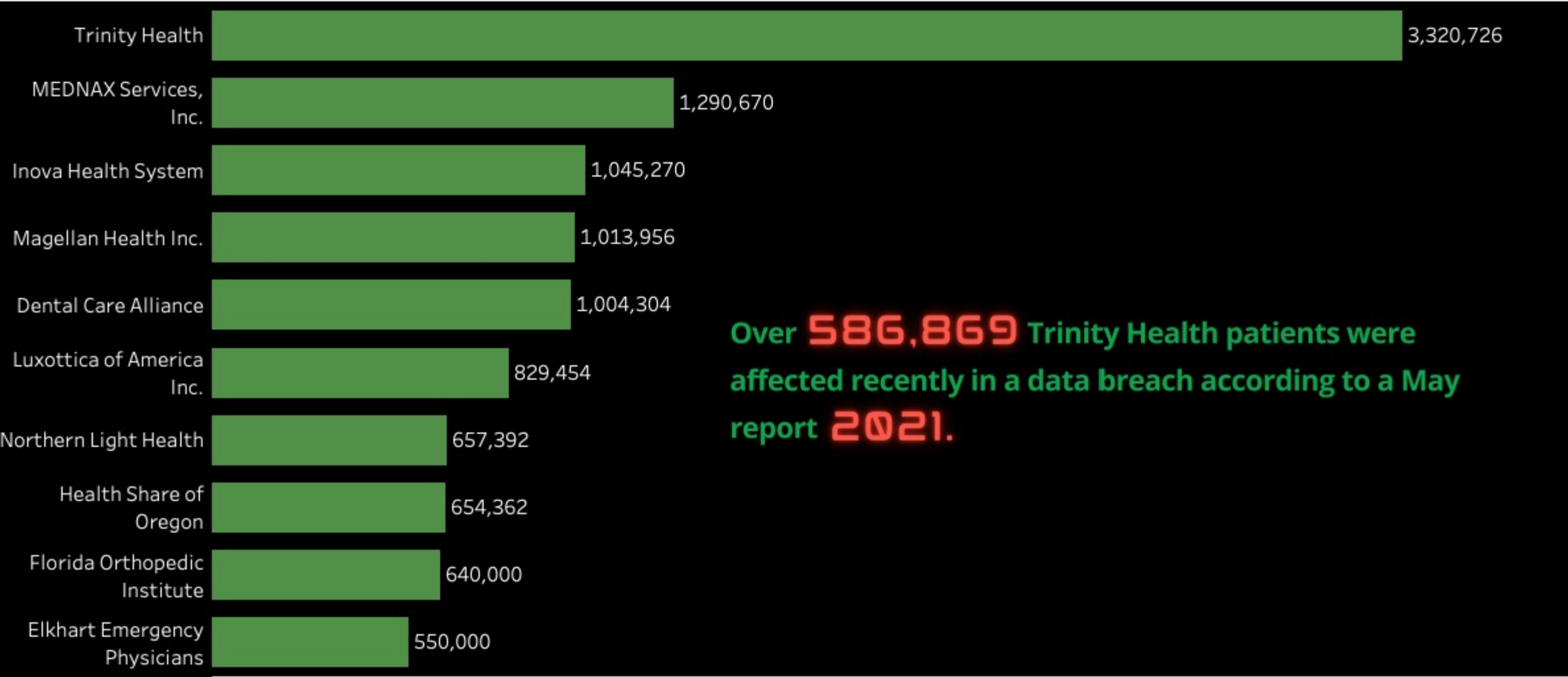
**ZD NET**

Danny Palmer

## Sum of Individuals Affected in Healthcare Cyber Crimes

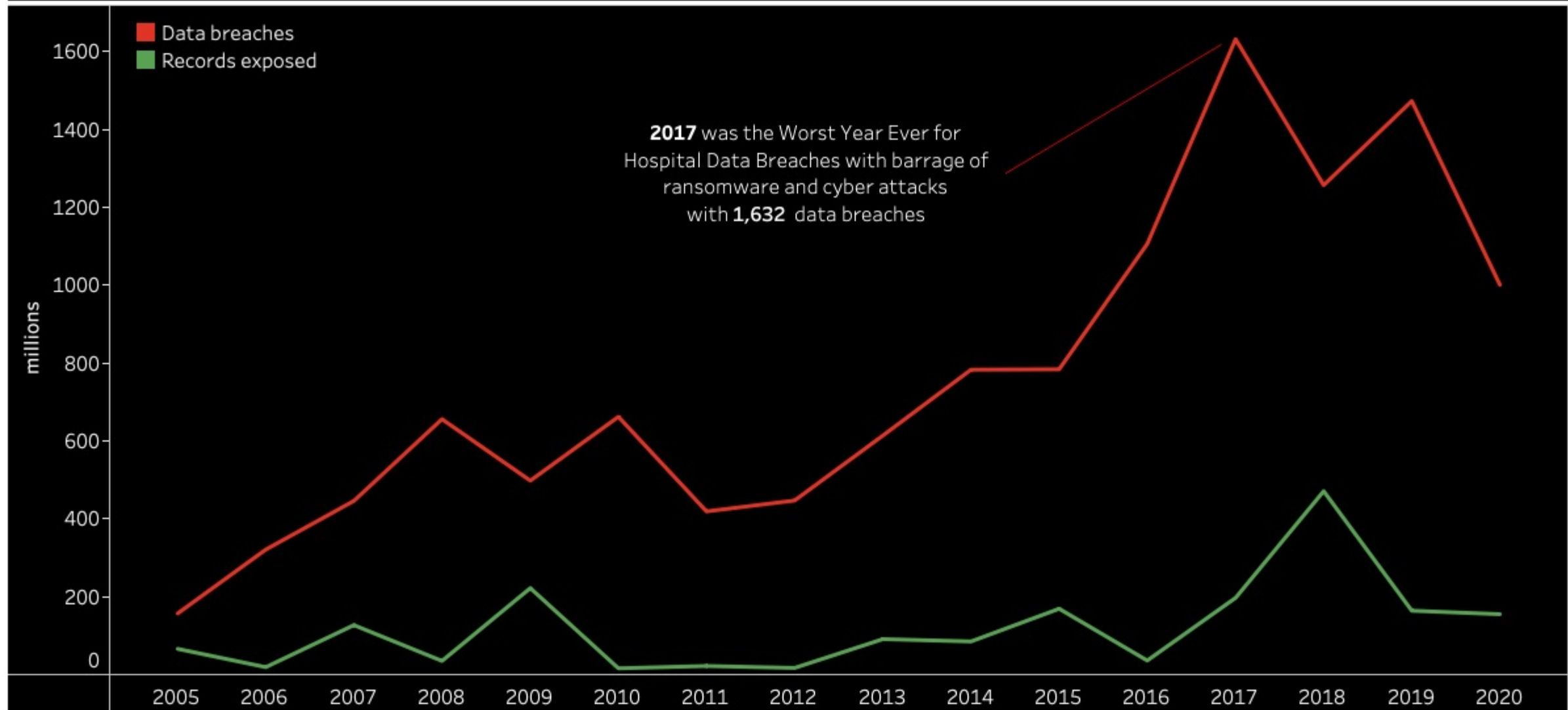


# 10 Largest Healthcare Data Breaches in the U.S. by Affected Individuals in 2020





## Data Breaches and Records exposed by Year





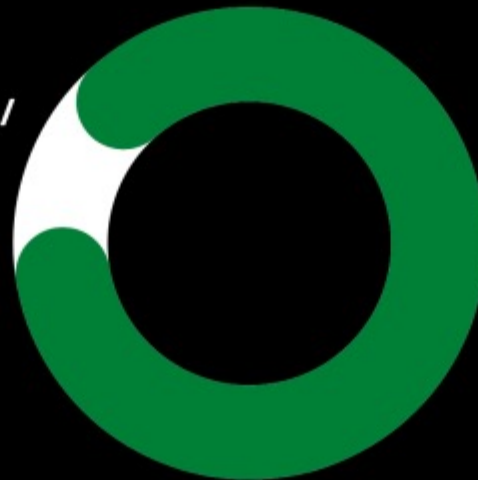
# HEALTHCARE

1. Private patient information is worth a lot of money
2. Medical devices are an easy entry point
3. Staff need to access data remotely, opening-up opportunities
4. Healthcare staff aren't educated in online risks

**Your health record is worth more to hackers than your credit card!**

## BLACKMARKET COMPARISON

**\$1 worth of SSN/  
Credit Card  
Number**



**\$50 worth of 1  
Electronic Health  
Record**



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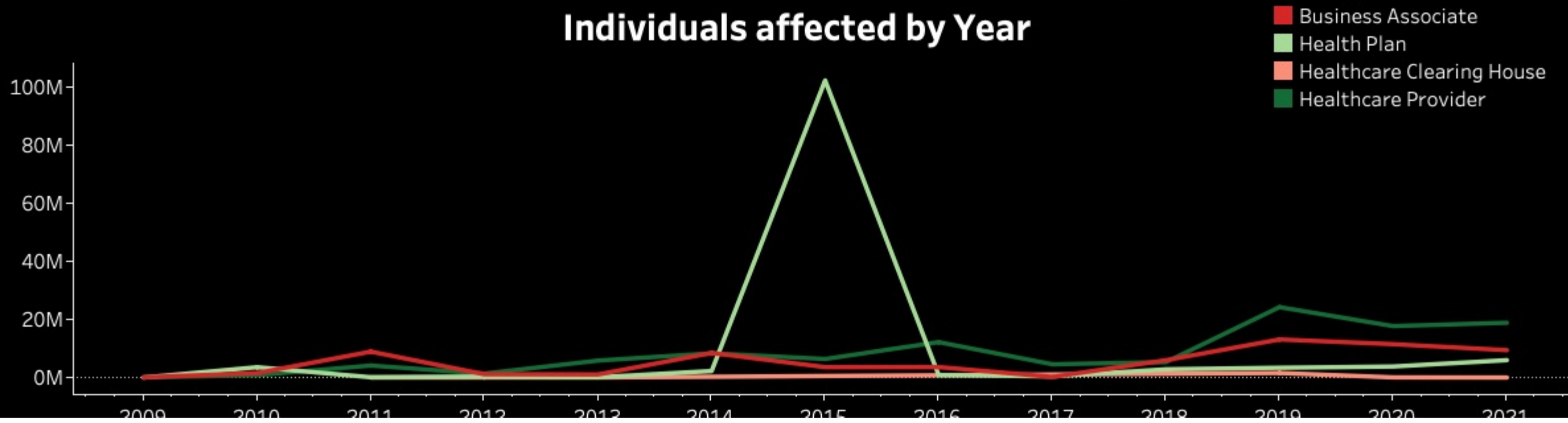
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## Common breach Entry Points



## Individuals affected by Year



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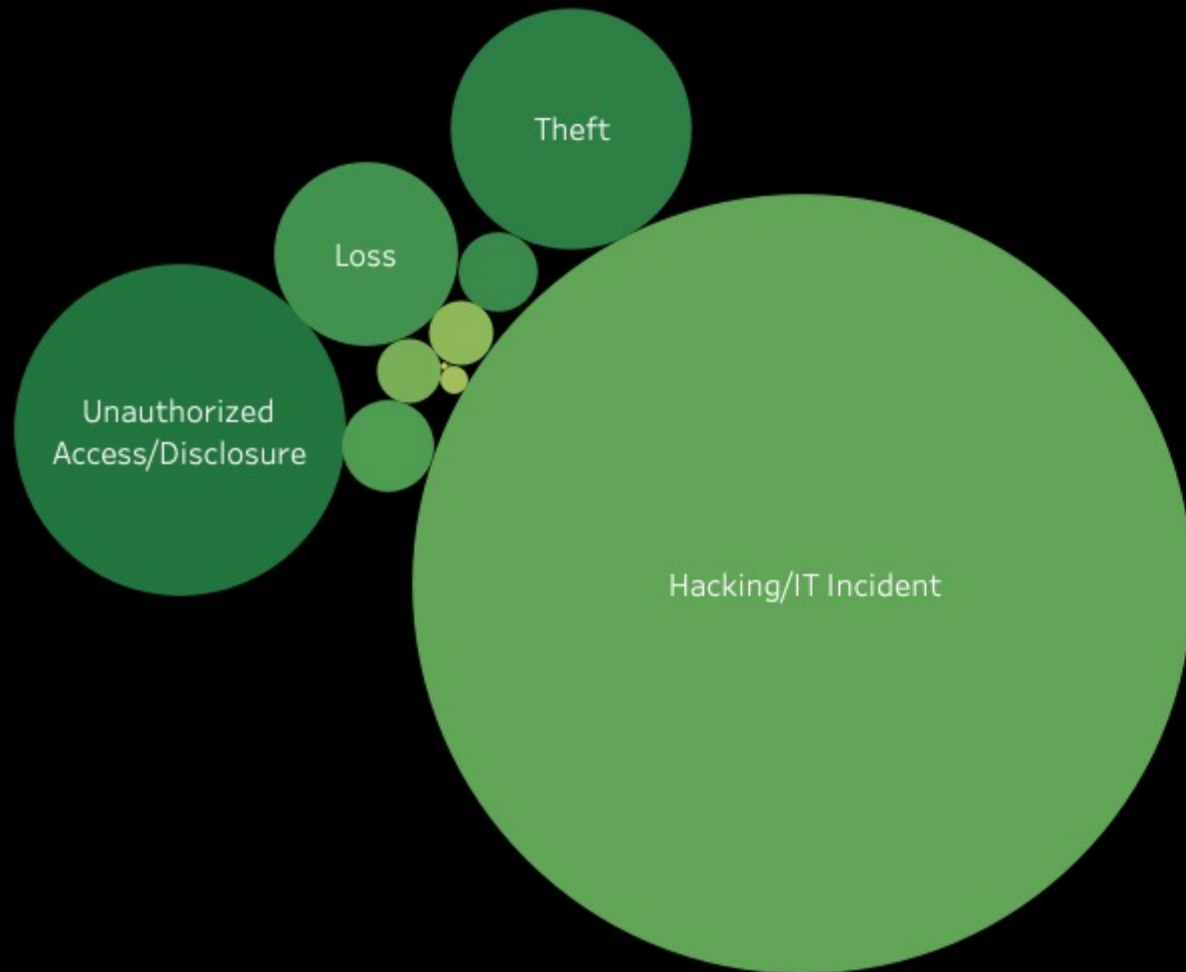
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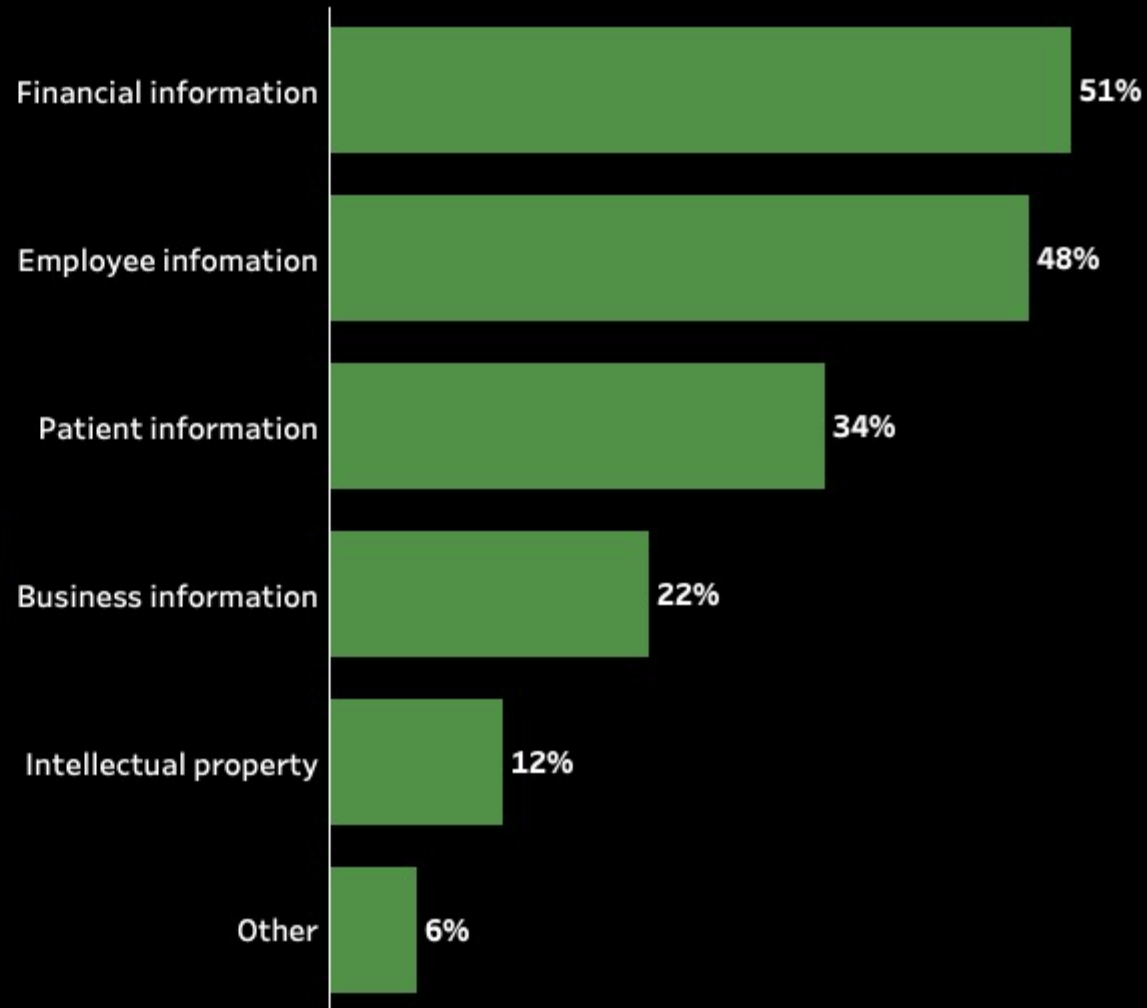
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## Top 4 types of Breaches

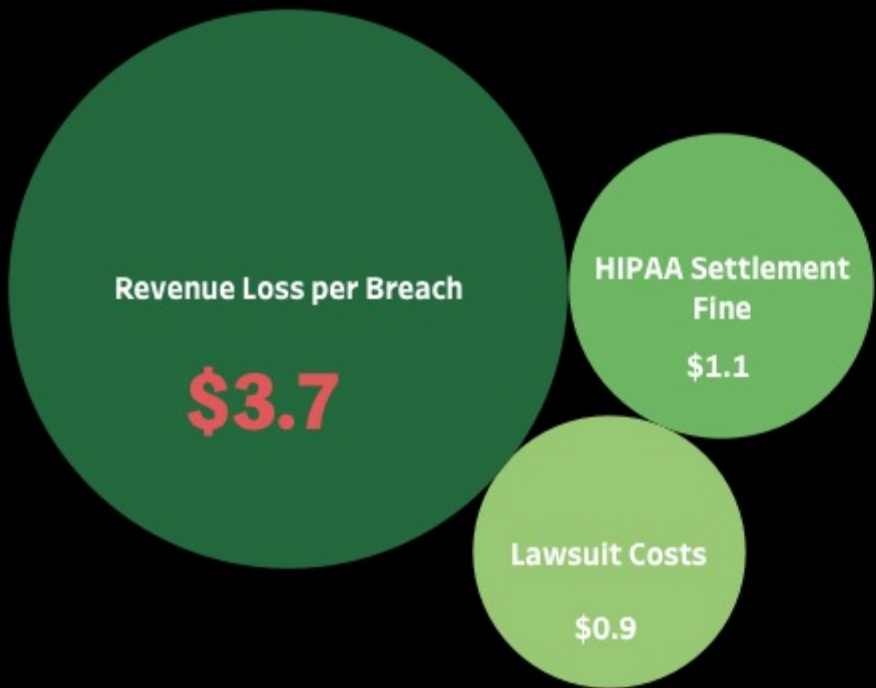


## What are the Highest Targets after the Breach?



Total Annual Costs due to Healthcare Breaches in the US as of 2017:  
**\$6,200** million dollars

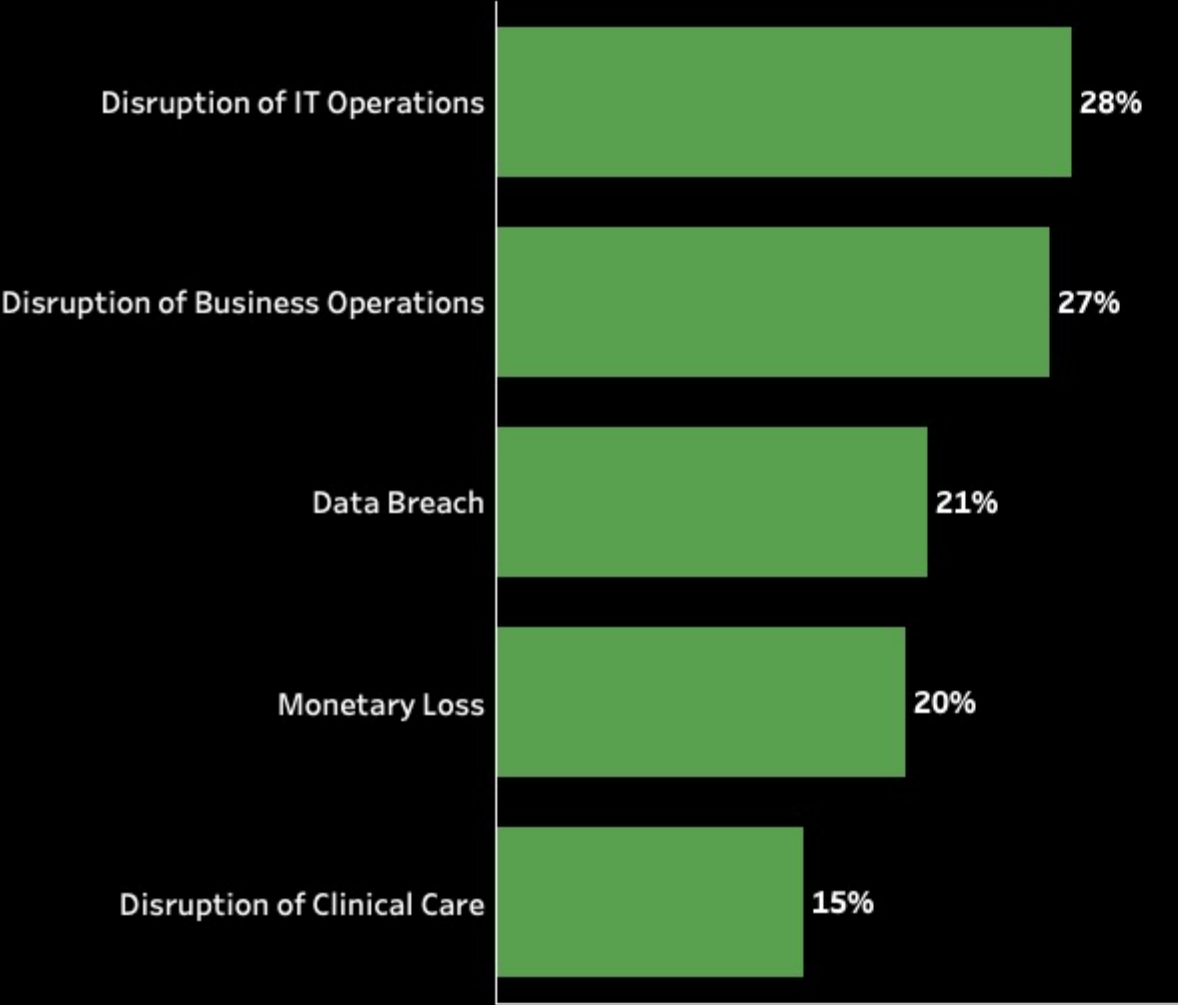
Top 3 Key Figures on Costs (in millions)





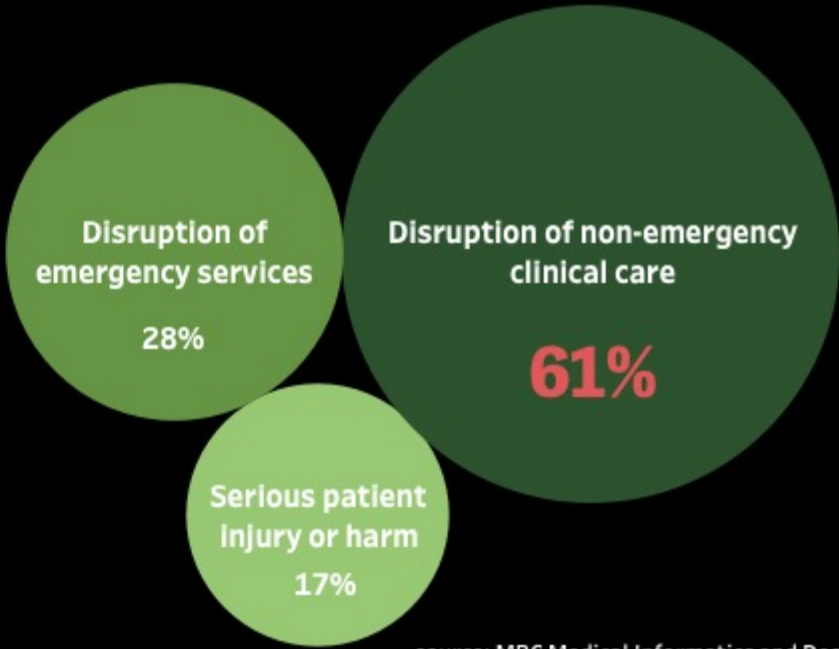
# Impacts and Issues (2020)

## Impacts of Significant Cyber Security Incidents

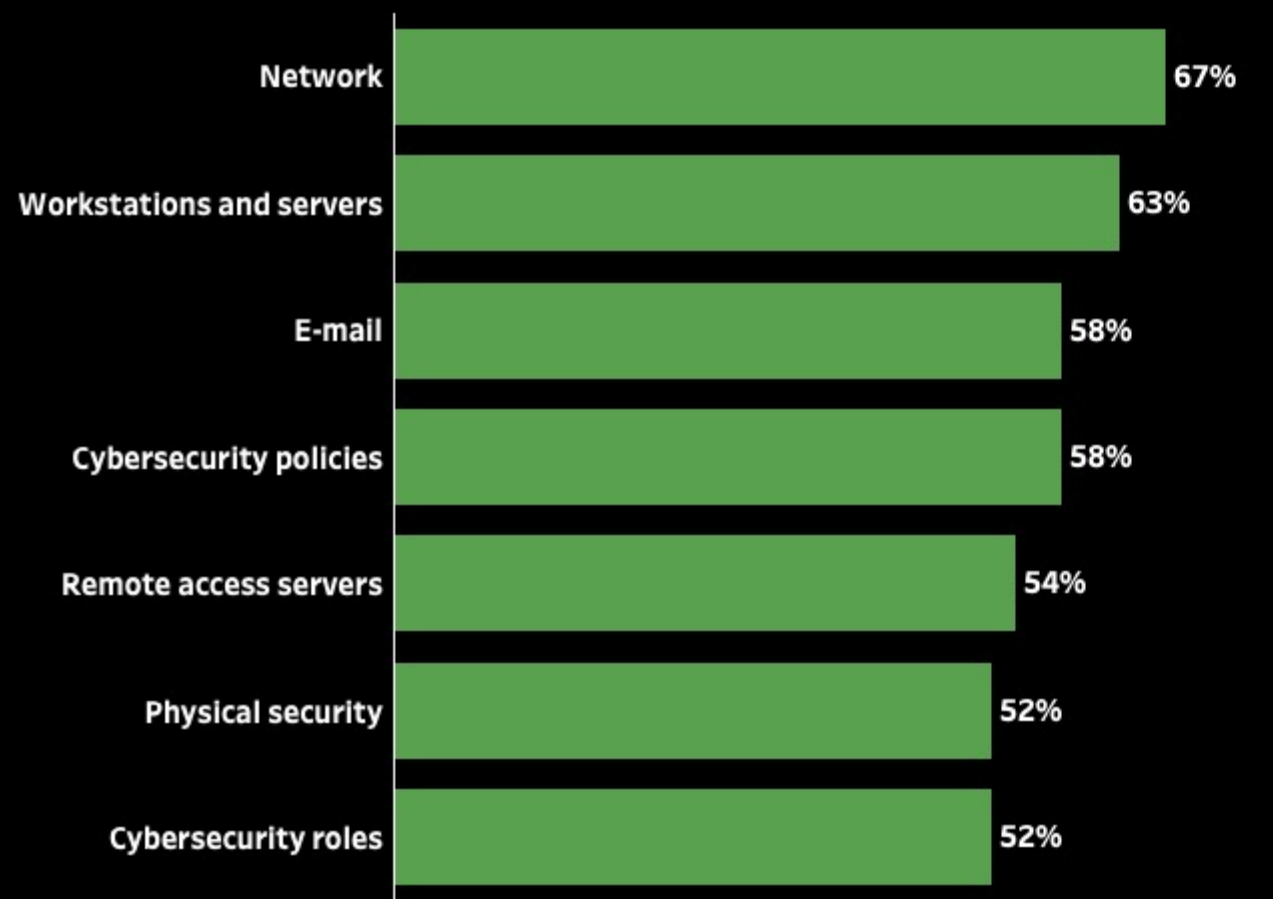


Cyber attacks impede hospital operations and place the health and well-being of patients at risks!

## Major Patient Safety Issues caused by Significant Cyber Security Incidents



## Top 7 Components of Cyber Security Risk Assessment 2020



67% of the respondents reported **Network** as one of the components of Cyber Security risk assessments

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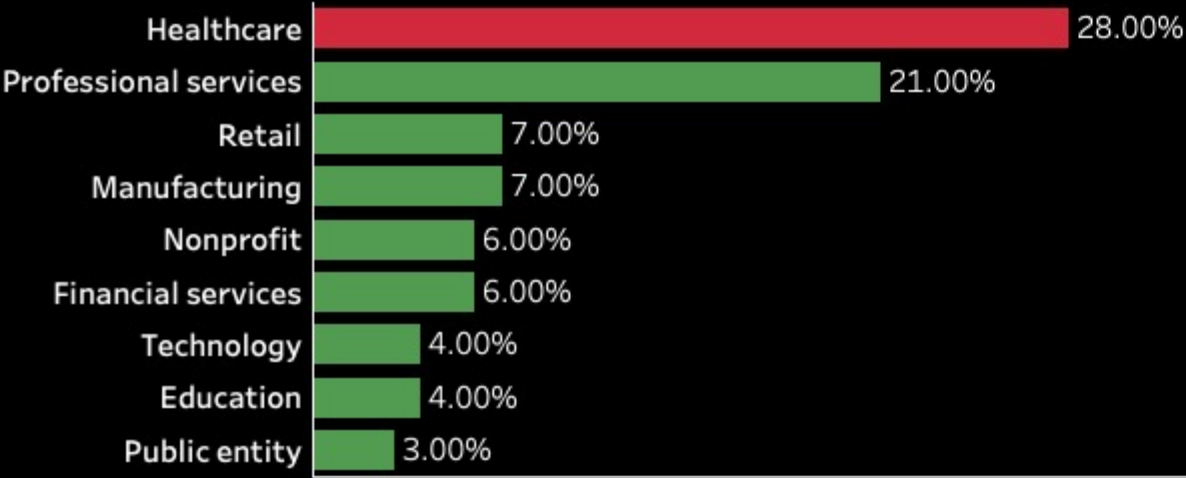


**More than 33% Healthcare Organizations  
Chose to Pay the Ransom**



# Is Healthcare Industry not Prioritizing Cyber Insurance?

Share of Cyber Insurance Claims Made, by Industry



70%  
HEALTHCARE ORGANIZATIONS  
DON'T EVEN HAVE CYBER  
INSURANCE

THE SPIKE EXPECTED IN  
INSURANCE COSTS

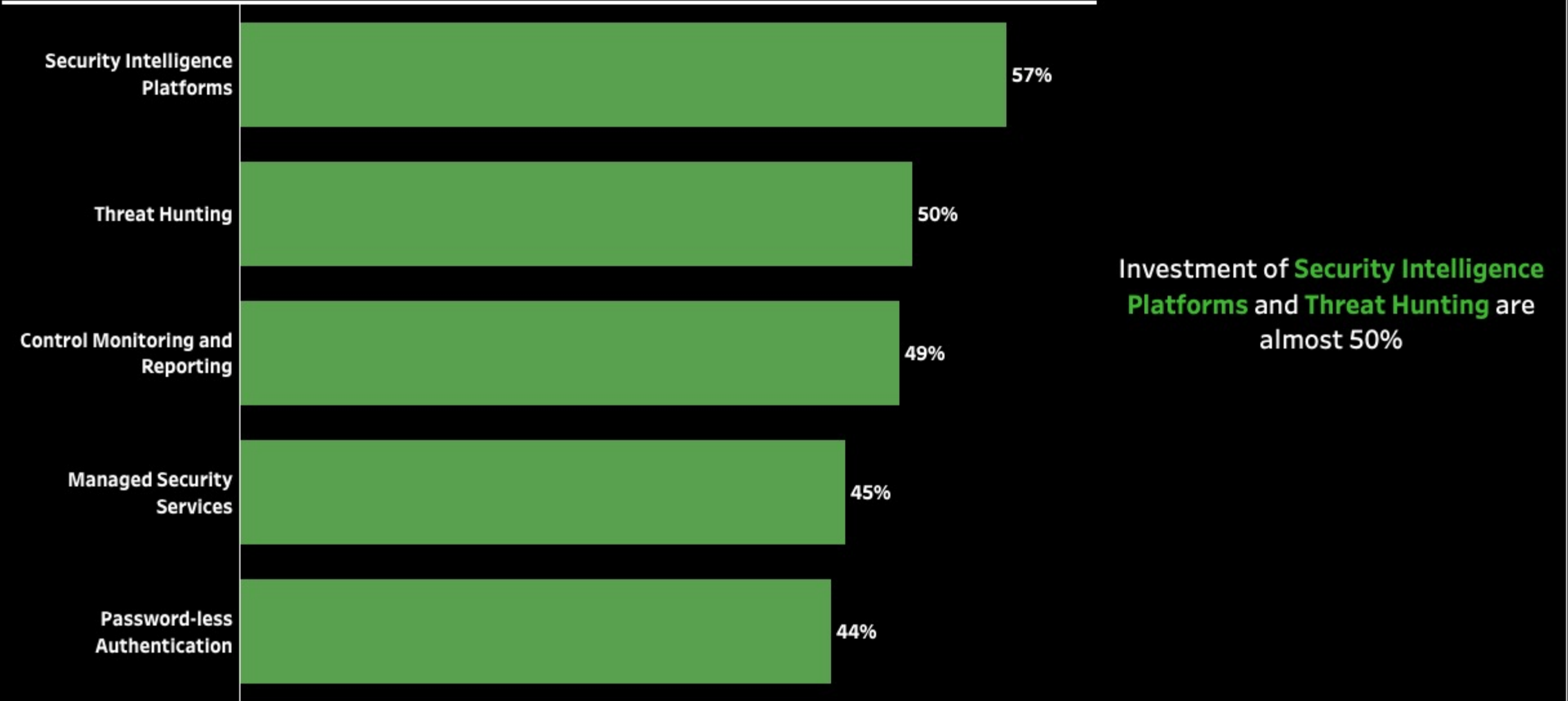
30%

% Change in Cyber Insurance Premiums



- Traditionally healthcare industry had other bigger priorities and hence did not invest in cyber insurance
- Growing number of cyber crimes has led insurance providers to reduce the coverage and increase prices

# % of Emerging Technologies - 2018



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## Key cyberthreats in 2020 related to COVID-19

Fake news

Malicious domains

Malware/ransomware

Phishing/Scam/Fraud

14

22

36

59

in %

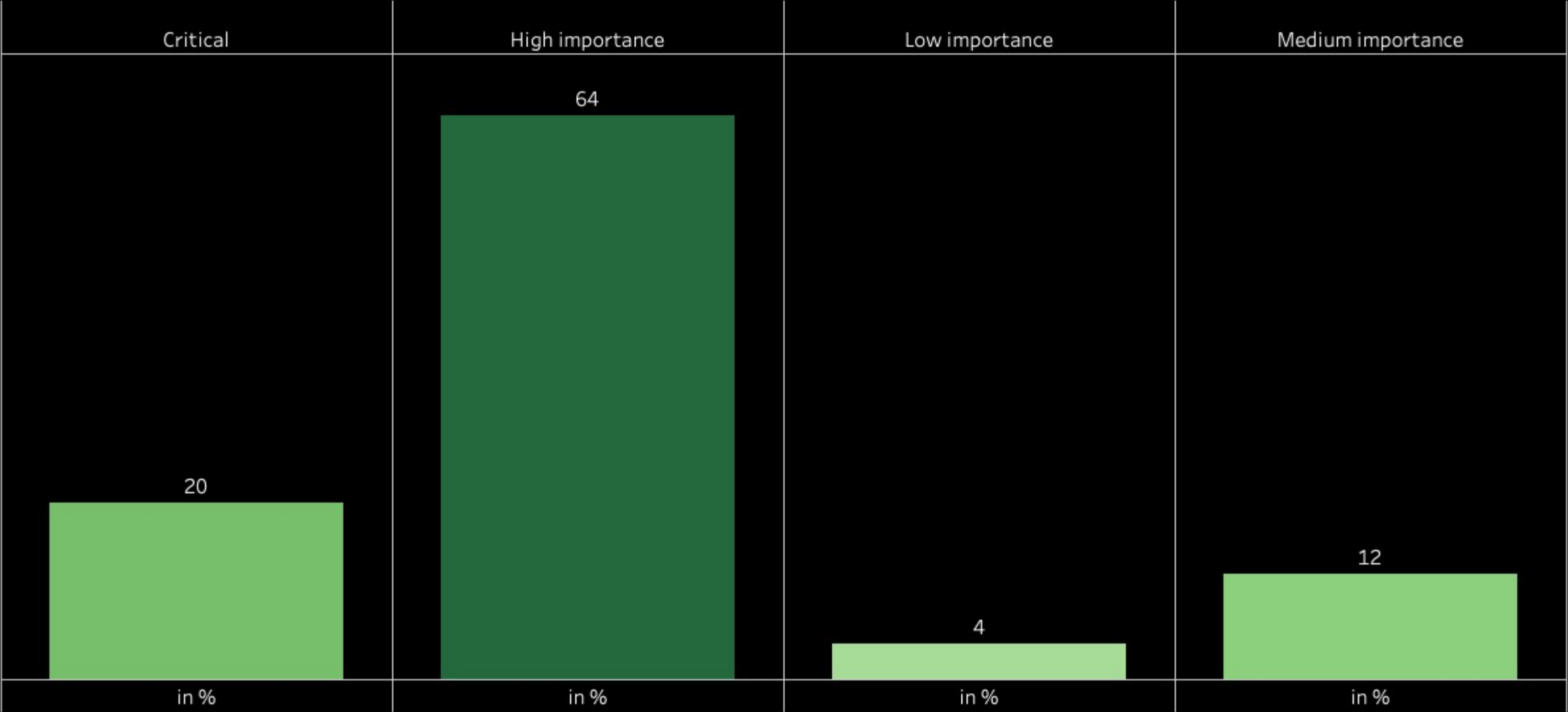
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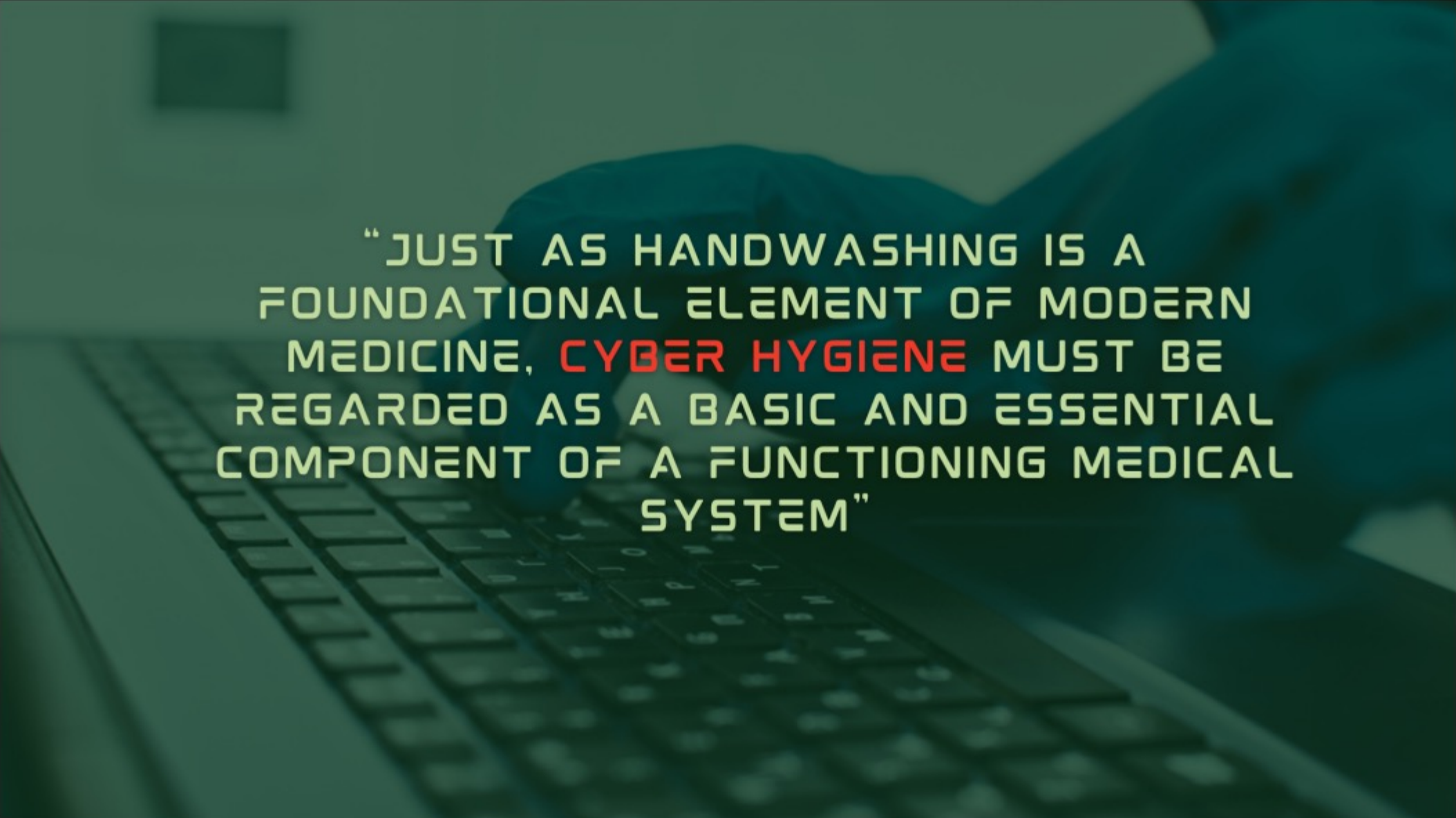
in %

in %



When enabling remote work, how important it is to protect yourself from Cyber Attacks?





“JUST AS HANDWASHING IS A  
FOUNDATIONAL ELEMENT OF MODERN  
MEDICINE, **CYBER HYGIENE** MUST BE  
REGARDED AS A BASIC AND ESSENTIAL  
COMPONENT OF A FUNCTIONING MEDICAL  
SYSTEM”

## Sources

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THANK YOU

QUESTIONS?