FINAL PROJECT

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CYSE250
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1

Current Status

- Cybersecurity of Healthcare industry is at risks
- Hospital or other health provider gets pwned
- "In 2019, health organizations continued to get hit with data breaches and ransomware attacks, costing the sector an estimated four billion dollars. Five US healthcare organizations reported ransomware attacks in a single week last June" (Grauer, 2020).
- Due to the cyber-attack, a Mechigan medical practice closed after they refused to pay ransomware to attackers.

2

HIPAA Compliance

By keeping protected health information private, HIPAA was established which help to create confidentiality systems within and beyond any facilities (Edemekong & Haydel, 2020). In addition, HIPAA also ensure that doctors and other medical practices protect their data from unauthorized person or criminals (Deo, 2018).

3

The Medical Group Management Association (MGMA) is a national professional association of health care administrators and practice leaders, which produces the compensation survey that used widely among in-house physician recruiters (Hammond, 2017).

This project will analyze the SWOT of MGMA but also determine whether MGMA complies with HIPAA; therefore, there are the short-and long-term recommendations for further improvements about compliance.

HIPAA Compliance & MGMA

4

1

Complied- Accountability measures

• Description:

Each of the staff members of MGMA keep difference roles and understand what they need to do. They know that they need to be careful when doing research and other stuff. I, with permission, could track down the specific interaction that occurred through the records on what they doing and searching for.

• Method:

By asking staff members, they allow me to check their records. I can see exactly the date and when they access those webs (for specific interactions), whether offline or online.

5

Complied- Integrity controls

• Description:

Seeking to protect Medicare beneficiaries and benefits of the patients and facilitates care coordination, they are working very serious on the prevention of innovative payment (due to the safety) and limitation of the accessing by patient to care. On the patient health information, they checking and finding inaccurate info. Patients also had told to check information to make sure it's correct or to update info.

• Method:

Participate on how MGMA staff members working, I can see that they are busy to make phone call and check mails multiple times to their patients or with other group medical practices on research. They keep track on all the works and share to the main server of the MGMA through their private cloud website.

6

Complied- Sanction policies

• Description:

To the member community of MGMA, there are policies that they must follow to not sanctioned by MGMA. If there are someone violated, there will penalty or other methods to those who violate their policies.

• Method:

 By asking around MGMA workplace, I learn more about their policies and their member community code of conduct. There are guideline and remind notes, which available on their website, to remind their member community.

7

MEDICAL GROUP

SWOT ANALYSIS

8

2

Not complied- Receive & Transmit Patient Data

• Description:

In recent years, the healthcare industry has a high risk due to the vulnerability of network system, included MGMA. Many loss or paper record through different devices has beans stolen, which included PHI. MGMA staffs and its patients faced hacking attacks by variety types.

• Method:

Based on interview MGMA staffs and checking their devices, there is problem when trying to access network through Local Area Network switch but also received called from patients on the issues of their devices get hacked. Accessing to Network is take more longer because there were issues (some is blocked or not able to access).
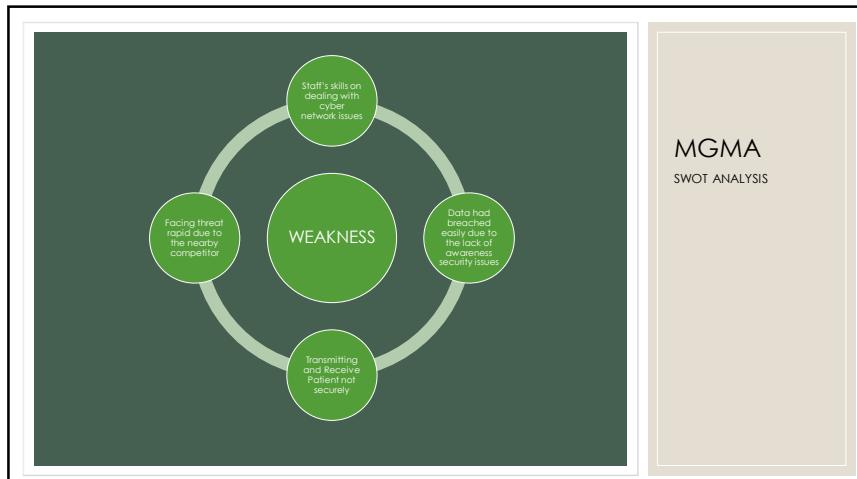
9

Not Complied: Network security

• Description:

Due to the cyber attack, the network security of MGMA at their workplace is not secure properly. There were unknown IP addresses recognized on trying to detect on the workplace devices.

• Method:

By using Wireshark to checking packet analyzer, most of the packet, which sent through by unknown IP addresses, are not allow to access to the network.

10

MGMA

SWOT ANALYSIS

Staff's skills on dealing with cyber network issues

Data had breached easily due to the lack of awareness security issues

WEAKNESS

Facing threat rapid due to the nearby competitor

Transmitting and Receive Patient not securely

11

RECOMMENDATIONS

SHORT-TERMS

• Remember to updates and fixing devices
• Replace old devices or hardware if needed
• Update the physical system and restoring access to the patient information and other important info.
• Always make a backup plans for any unexpected incidents
• Upgrade the protection to Next-Generation of Firewall
• Find specialist IT to fixing the accessibility issues as soon as possible (whether it's not a serious issues)

LONG-TERMS

• Be aware of cyber attack by training staffs for basis skill of cybersecurity
• Be more concerning for abnormal occurs and report incidents to the facility specialist IP take in action
• Make sure all MGMA staffs be aware of the new guidelines and guide them on how to apply new systems have been installed due to network secure
• Make sure all devices in facility have been check up daily and fix if there any issues
• Install new software and update all information systems after recover
• Encryption services also counted for this recommendations to protect network and transmit info.

12

3

CONCLUSION

Although MGMA is an organization where most national professional of healthcare administrators and practice leaders, this organization just also like other healthcare organizations and medical practices. There are people who successful in a field of medical, and other who is expert of another field. When dealing a problem on the opposed field, they are just the beginners or amateurs to cybersecurity system and network. The healthcare industry having a hard time due to the cyber attack and high risks in recent years. These problems must be taking care right away in order to protect health information private and other transmit info. Therefore, with the HIPAA compliance, MGMA can right back their track and be more secure. While practicing and improving on the cybersecurity information, MGMA will soon apply recommendations better understanding and skills to equipping themselves.

13

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14