Peer Review File Article information: https://dx.doi.org/10.21037/jlpm-23-84

Reviewer Comments

Comment 1: The article is very valuable from the point of view of the topic of cybersecurity. I would like to ask you to make the following changes to the manuscript: I will ask you to prepare a more extensive Figure 1.

Reply 1: We are thankful for these valuable comments on our work. We will do our best to improve the manuscript according to the suggestions. Thanks for this comment. Figure 1 explains exactly what has been done in the lab after the cyberattack. Nothing else needs to be added to our side. Therefore, figure 1 is left unchanged.

Comment 2: How can we defend laboratory systems against cyberattacks?

Reply 2: Thanks for this comment, very useful. We have included a new table (Table 2) that lists most of the measures that should be taken to protect medical laboratories from cyber-attacks, as follows:

Table 3. Measures that should be taken to protect medical laboratories from
cyber-attacks
• Install valid antivirus software and reliable firewalls in the hospital and
laboratory information systems to prevent outside intrusion
• Educate laboratory staff about cyberattacks
Perform regular meetings and training sessions to inform the staff about the
modalities used by cyber-terrorist to attack public and private facilities
Pay close attention to unsolicited messages
Be wary of emails, instant messages or phone calls from people you do not
know. Be especially cautious and do not respond to requests for login credentials,
requests requiring an urgent response, unpaid bill notices and appeals for
donations.
Recognize suspicious emails and text messages
Always check the reliability of the sender of emails, text or chat messages.
If you have any suspicions, do not reply, do not click on links or open attachments
and contact the Information Systems service immediately so that immediate
countermeasures can be taken.
Learn to recognize suspicious sites
Malicious websites can be very similar to the original ones, both in name
and content. Before clicking on a link, check the actual destination and make sure
you are visiting protected sites where there is a padlock symbol and the address
always starts with https://.
Do not pass on your access data to third parties
Do not pass on your access data to anyone, either inside or outside the
company.

• Never leave electronic devices assigned to you by the company to perform your duties unattended

If you are not at your workplace, make sure that your PC or other device is locked and cannot be accessed by third parties.

• Only use tools or software approved by the company

Do not use and download tools or software that have not been approved by the company and have not been checked beforehand by the Information Systems Service.

• Only use IT tools approved by the company

Do not use personal IT devices (e.g. laptops, tablets, etc.) to perform work tasks and to use them in connection with company IT tools.

Comment 3: How and how should the laboratory develop a procedure for dealing with

a cyber attack?

Reply 3: See new table 3.

Comment 4: Can a cyber attack be prevented by introducing security measures in the

HIS and LIS systems?

Reply 4: See new table 3.

Comment 5: How can a patient verify whether his sensitive data has been disclosed?

Reply 5: In most cases, sensitive patient data is published on the dark web and is therefore inaccessible to the vast majority of internet users. This information is usually identified by the police or by certain companies operating in this field and passed on to the company, which then has a duty to inform all patients whose data has been breached. This information has been included in the text of the article.