

CRRO Privacy and Data Security

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Learning Objectives

Important Points to Discuss

- Privacy Basics
- Security Basics
- How to Report a Security
 Incident or Breach

Data Use or Transfer Agreements

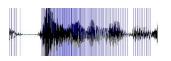
- When is a Data Transfer Agreement ("DTA") required?
 - When receiving or transferring data with a third party (including between BU and BMC)
- When is a Data Use Agreement ("DUA") required?
 - When sharing or receiving a limited data set, as defined by HIPAA
 - This is a <u>regulatory requirement</u> under HIPAA in certain instances

Data Transfers - HIPAA Identifiers

There are 18 HIPAA identifiers.

Having **just ONE of** the 18 data variables can render a data set fully identifiable or a limited data set

- Name
- Address (all geographic subdivisions smaller than state, including street address, city county, and zip code)
- All elements (except years) of dates related to an individual (including birthdate, admission date, discharge date, date of death, and exact age if over 89)
- Telephone numbers
- Fax number
- Email address.
- Social Security Number
- Medical record number
- Health plan beneficiary number
- Account number
- Certificate or license number
- Vehicle identifiers and serial numbers, including license plate numbers
- Device identifiers and serial numbers
- Web URL
- Internet Protocol (IP) Address
- Finger or voice print



- Photographic image Photographic images are not limited to images of the face.
- Any other characteristic that could uniquely identify the individual



Data Transfers

Classify the data set under HIPAA

Fully Identified

- Certain identifiers
 (e.g., name)
 - May be shared
 pursuant to (1)
 HIPAA
 authorization or
 (2) IRB waiver,
 and data transfer

agreement / DTA

Limited Data Set

- Does not contain 16 of the identifiers, but CAN include:
- Dates such as admission, discharge, service, DOB, DOD; and
- City, state, zip code.
 - May be shared pursuant to a data <u>use</u> agreement / DUA

Fully DE-identified:

- NONE of the 18
 identifiers
 - May be shared pursuant to
 data transfer
 agreement /
 DTA



Data Transfer of PHI - Three Pathways to Success

- HIPAA has certain requirements for data transfers
- In the research context, the main three ways to properly transfer protected health information are:
 - Via a HIPAA authorization (typically as part of a consent form) contemplating such disclosure
 - Via an IRB-approved waiver of HIPAA authorization
 - Via a data use agreement for a limited data set



Data Transfer Agreement Requests

- Request an Agreement
 - BU Office of Sponsored Programs
 - BMC Grants & Contracts Office
 - Links to forms at end of training



Personal Cell Phone Use

- Personal cell phone use
 - BMC (AirWatch)
- Searching subject address and contact information?
 - Google search is acceptable
 - But deeper search tools, like Spokeo, are discouraged because they can provide additional data
- Phone call best practices
 - Setting or location
 - Don't leave detailed messages



Texting

- Texting needs to be approved by the IRB
 - Anything with subject data
 - Must mention security risk of texting in Informed
 Consent
- BMC Medumo
- BU REDCap and Twilio



Zoom Best Practices

- At BU there are two types of Accounts
 - Regular Zoom
 - Zoom meetings for HIPAA (BMC)
- Best Practices
- Get verbal consent for
 - group meetings to ensure they are aware they are a part of group treatment
 - Any recordings



Data Retention

- Sponsored research records need to be kept for 7 years minimum (research sponsor could require longer)
- Secure BMC or BU storage
- Going to another institution?
 - Data Transfer Agreement

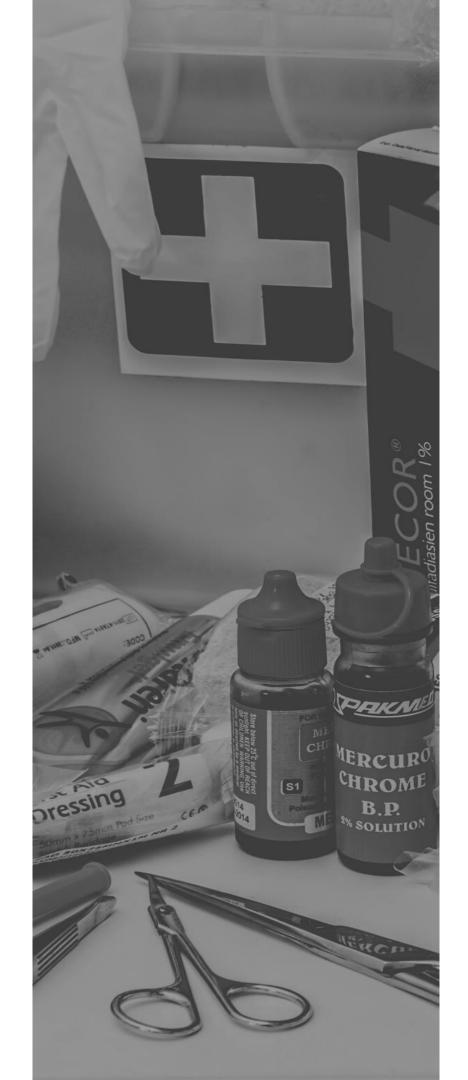


What's The Big Deal?

Feinstein Institute for Medical Research

An unencrypted laptop was stolen from a car, containing data of about 50 research studies and approximately 13,000 individuals

- **Big money payment**: settled alleged HIPAA violations for \$3.9 million
- Ongoing government scrutiny: three year corrective action plan
- Loss of confidence and reputation



SECURE YOUR DEVICES

Every device (e.g., desktop, laptop, tablet) used to access, process, or store patient or research data must have:



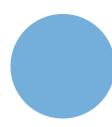
Operating system that is supported and updated



Auto screen lock (15 min max)



Anti-malware (Crowdstrike free)



Disk encryption

Phones are made secure by:



Requiring a pin/code or biometric automatically turns on encryption



Disabling cloud sync for any HIPAA data

BU Data Protection Standards, Classification Policy

Restricted Use (BMC Confidential)

Loss or misuse may require notification to individuals or state/federal government, includes:

- HIPAA, individually identifiable health information used in research
- SSN, driver license #, debit/credit card #, checking account # (billing records)

Confidential

Loss or misuse may adversely affect individuals or BU business, includes:

- FERPA
- Anonymized data or HIPAA Limited Data Set: dates, city, zip code

Internal

Potentially sensitive, requires protection from disclosure

Public

Does not require protection from disclosure

Collecting, Storing, & Processing

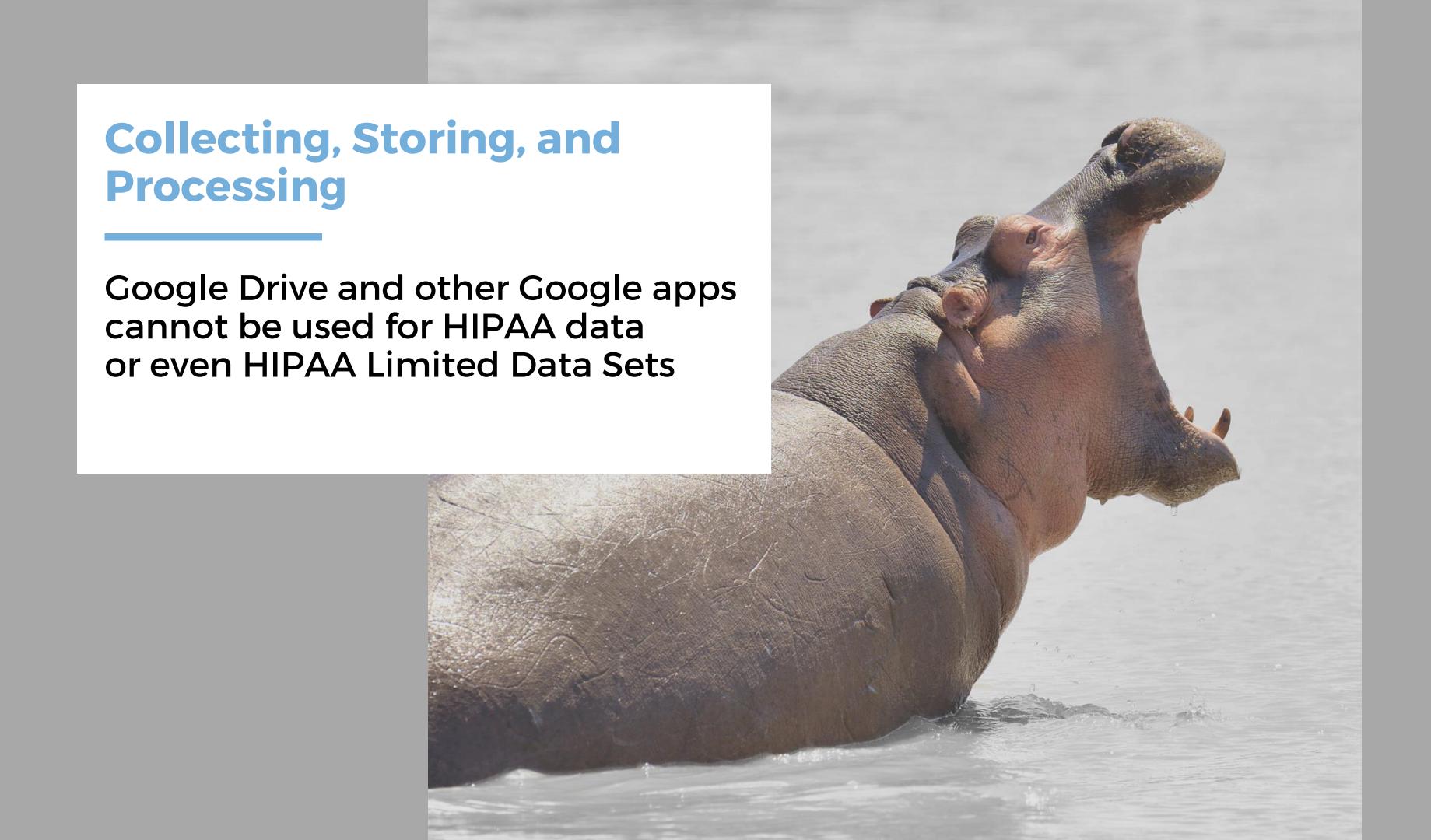
BU Restricted Use - BMC Confidential

- BU REDCap / MyCap
- BU Qualtrics
- BU Zoom or Teams for communication
- BU O365 SharePoint, OneDrive, PowerBI, Stream
- BU RU-GPNAS (BUMC Network Y Drive)
- BMC network drive or BMC Box.com
- Full list of reviewed services is on the BUMC IT website

Confidential

Above plus MGHPCC Shared Computing Cluster (SCC4)





Medical Device Best Practices

IRB Application

- Include in IRB application
- Mention any security concerns in Informed Consent form

Best Practices

- HIPAA research cannot use Apple Cloud
- USB transfer presents lower risk
- If wireless transfer, consider anonymization (subject ID)



Email

BMC Email

- Type "secure" in the subject line
 - User will receive a receipt with a link to access the secure mail

BU Email options

Outlook and Gmail cannot be used - no encryption

- Use Data Motion to send a secure email or
- Encrypt the document or spreadsheet before attaching it.
 - Don't identify patients in the body or subject of the email
 - Don't send passwords for attached encrypted files by email

File Sharing alternatives

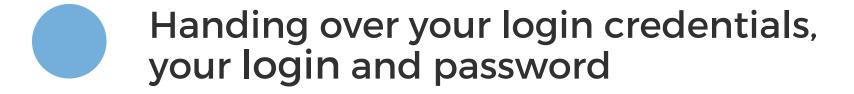
- BMC Box.com
- BU Office365 SharePoint or OneDrive
 - Share site, folder, or file



PHISHING

Phishing is one of the easiest forms of cyber-attack for a criminal to carry out and one of the most widespread. By responding to or clicking on a phishing email you risk:





Think before you Click! Look for the following warning signs with any email you receive to avoid being phished:

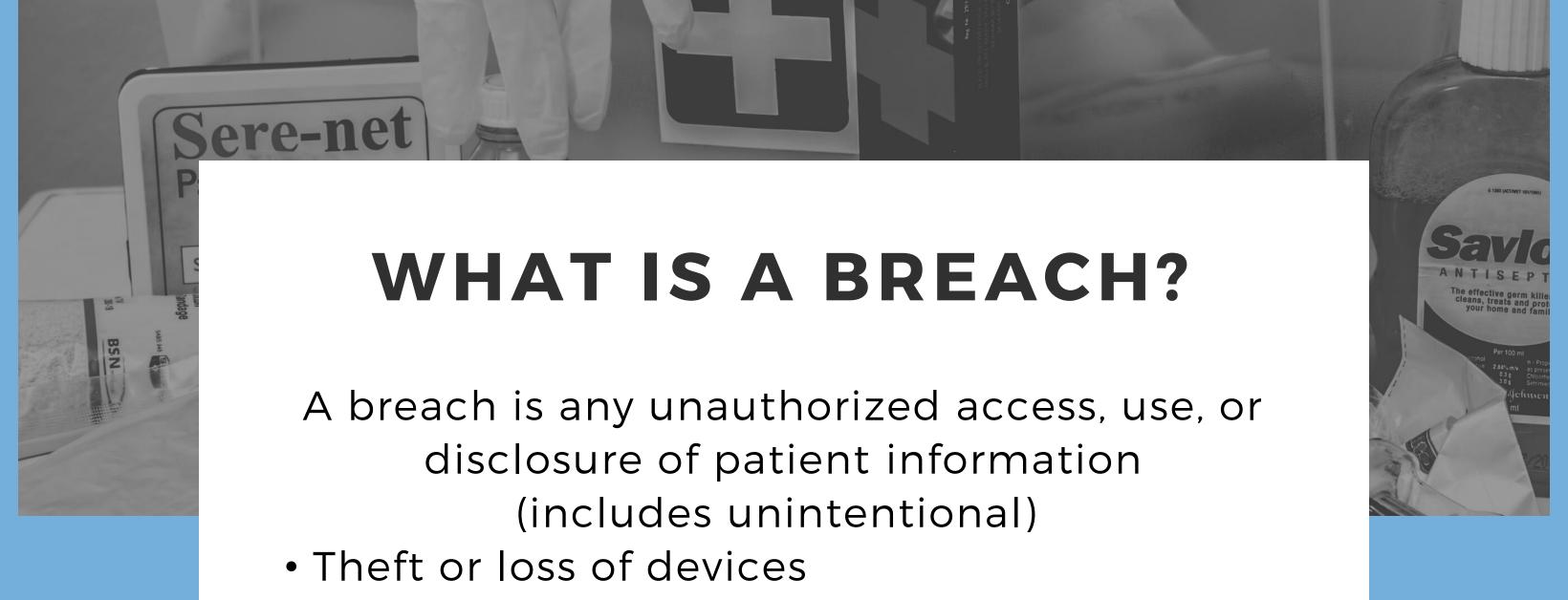
Requests for Personal Info: (BMC/BU will never ask you for your password)

- Poor Grammar: Odd wording, misspellings and errors
- Urgency: Calls to take immediate action or threats of consequence

Sender: Check the sender's email username.bu.edu@outlook.com username.bu.edu@gmail.com username.bu.edu@my.com

Links & Attachments: Stop!
Verify a file before downloading and hover over links

Suspicious email? Forward to abuse@bu.edu or spam@bmc.org



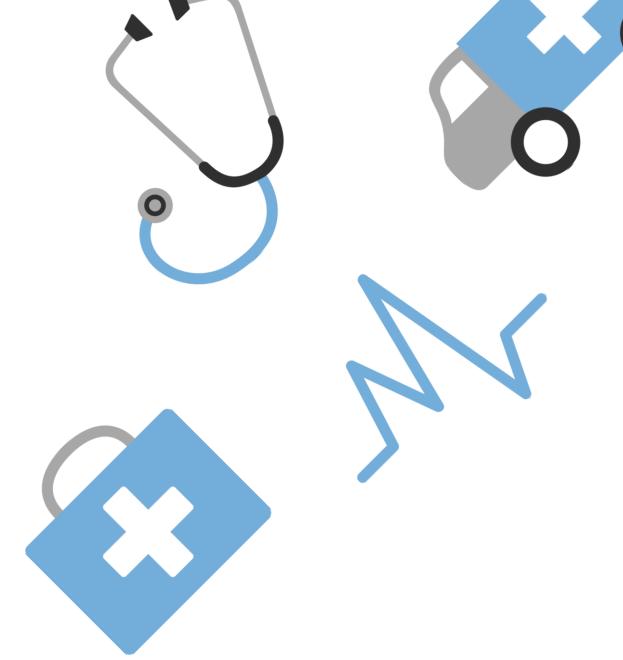
- Unauthorized viewing/accessing, including snooping
- Handing or sending data to wrong person
- Hacking / Cyberattack

Reporting a Security Incident or Breach

- BU Incident Response Team (<u>irt@bu.edu</u>)
- BMC Privacy Officer (<u>privacyofficer@bmc.org</u>)
- IRB Reportable Events and New Information (RENI)
- BMC or BU will determine what steps are required, such as reporting
- Any reporting to NIH or Sponsor will come after internal reporting

We'll assess the situation, determine whether any notifications need to be made, and help you analyze how similar events can be prevented





Resources

BMC Grants and Contracts Office

https://www.bmc.org/research-operations/forms

BU Office of Sponsored Programs

https://www.bu.edu/researchsupport/

Securing Devices: https://www.bumc.bu.edu/it/infosec/

Approved apps: https://www.bumc.bu.edu/it/infosec/researchcompliance

BMC Privacy

BUMC Information Security

BMC Hospital Information Security

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Questions



