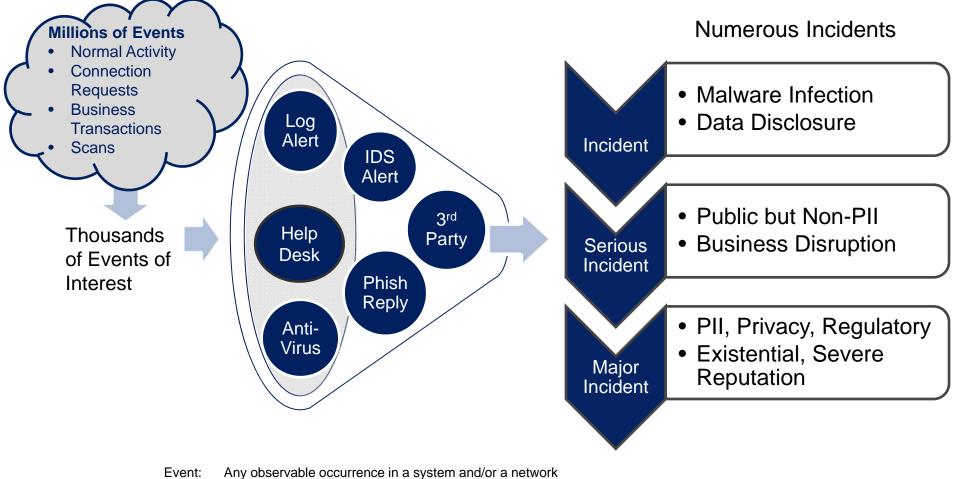
INCIDENT MANAGEMENT & RESPONSE INCIDENT HANDLING AND DATA BREACH COMMUNICATIONS

The material contained herein represents the personal opinions of the presenter and are offered for educational purposes only. In all cases of suspected or actual data breach the advise of competent legal counsel should be sought. All attempts have been made to cite original sources.



BIRTH OF A MAJOR INCIDENT



Incident: An <u>adverse</u> event in an system and/or network....or the threat of the occurrence of

such an event

HOLLAND&HART

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INCIDENT HANDLING LIFECYCLE



https://www.sans.org/score/incident-forms/

https://www.sans.org/media/score/checklists/APT-IncidentHandling-Checklist.pdf



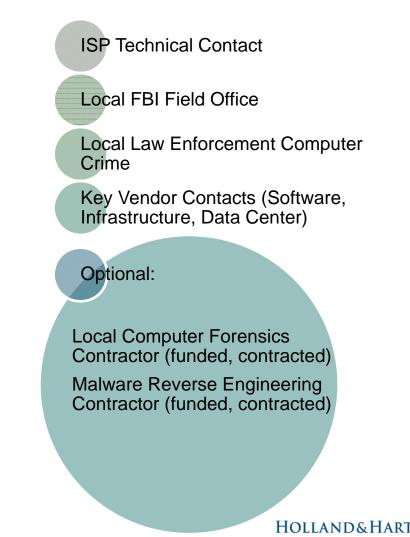
INCIDENT HANDLING LIFECYCLE





PREPARATION: KEY CONTACT LIST

Corporate Security Officer or CISO CIRT, CSIRT, Incident Handling Team (in house or contract) **Corporate Legal Officer Outside Data Security or Privacy Counsel Insurance** Agent **Privacy Officer** CIO or Systems Manager 5



PREPARATION: KEY CONTACT LIST (CONT.)



Bulk print and mail facility

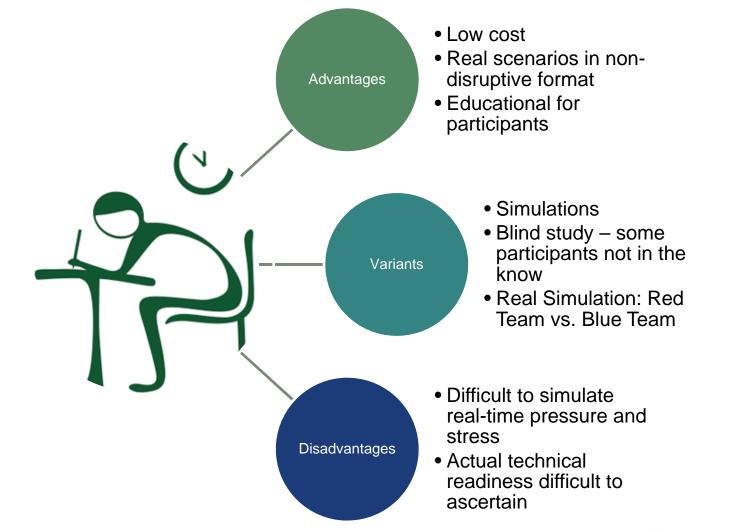
Crisis management firm, or public relations consultant

List of third-parties who must be notified of any breach due to contractual requirements

Pre-selected credit monitoring service provider

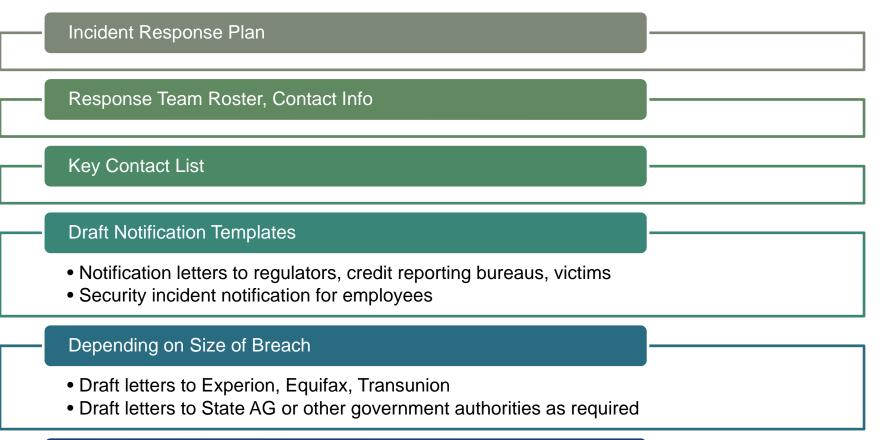


PREPARATION: TABLETOP TESTING





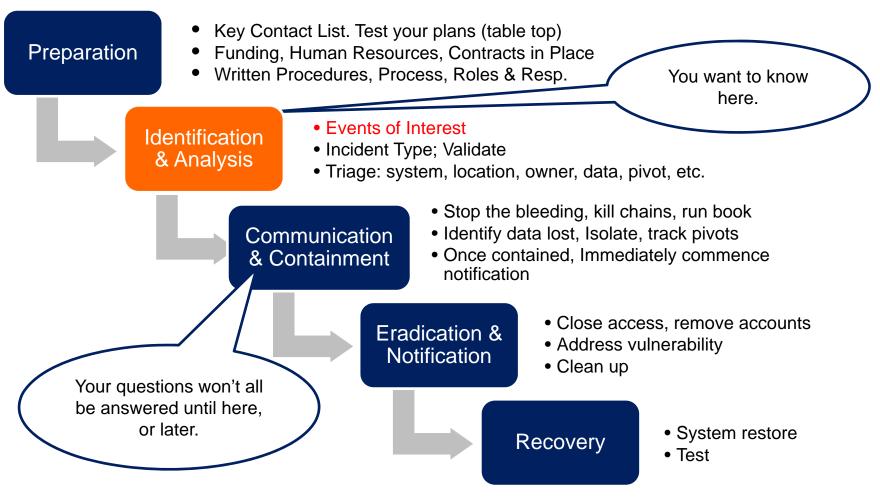
PREPARATION: DATA BREACH RESPONSE TOOLKIT



Review and update templates frequently as state laws are constantly changing



INCIDENT HANDLING LIFECYCLE





IDENTIFICATION: EVENTS OF INTEREST

Remote Access Trojan (RAT) or Command and Control (C+C), Hosts talking to known bad IPs

Public data dumps of credentials containing your organization's email addresses

Encrypted communications discovered

Email filtering, reported phishing attempts, social engineering reports

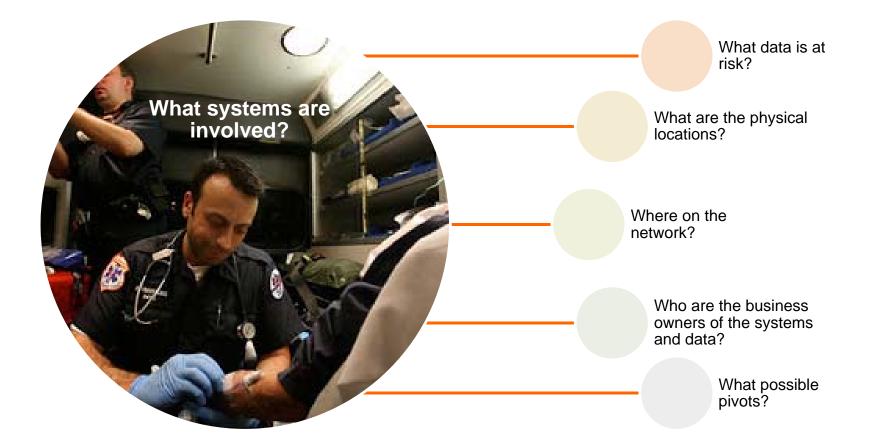
Host based IDS/ IPS alert of unexpected system call, data access, port open

Direct external notification (Law Enforcement, Business Partner)

Indirect external notification (Open Source Intelligence of behavior, search in your environment)

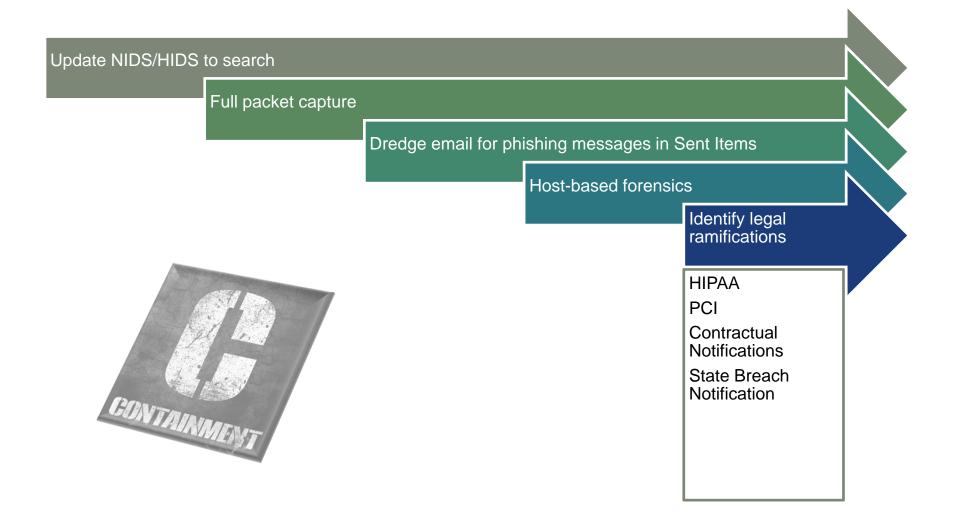


IDENTIFICATION: INCIDENT TRIAGE



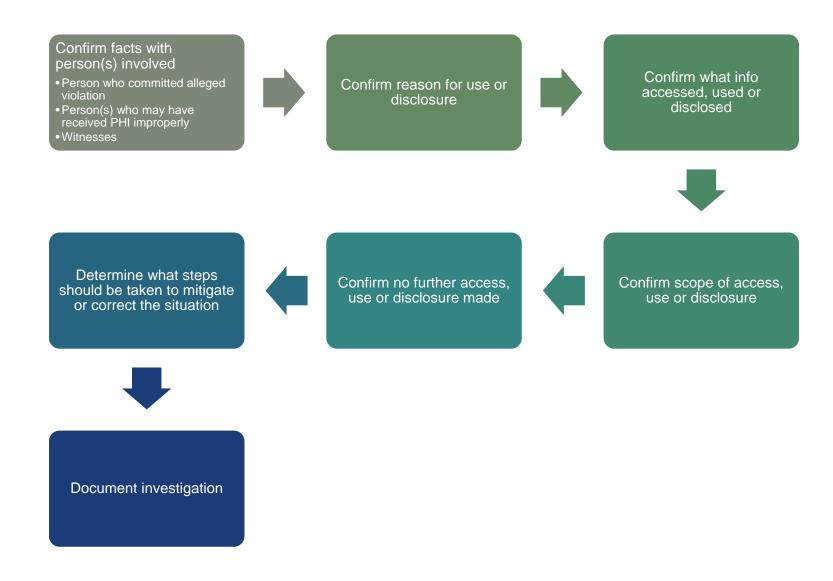


TRIAGE: IDENTIFY WHAT HAS BEEN LOST





IDENTIFICATION: INVESTIGATE PROMPTLY





IDENTIFICATION: IMMEDIATELY REPORT TO PRIVACY OFFICER.

All covered entities must have a privacy officer and security officer designated in writing

Train staff to immediately report suspected PHI breaches to the privacy officer

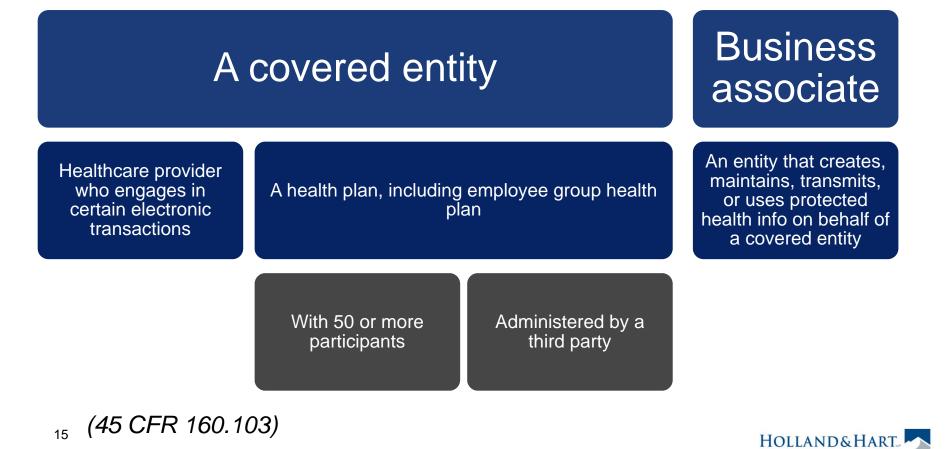
- Immediate response may help avoid breach reporting obligation and/or penalties
- May avoid penalties if correct violation within 30 days of when knew or should know of violation
- Must report breach within 60 days of when knew or should know of violation
- Business associate agreement may impose shorter deadlines

Privacy officer should investigate



ANALYSIS: CONFIRM WHETHER HIPAA APPLIES.

Did the event happen to an entity acting in its capacity as either:



ANALYSIS: CONFIRM WHETHER HIPAA APPLIES

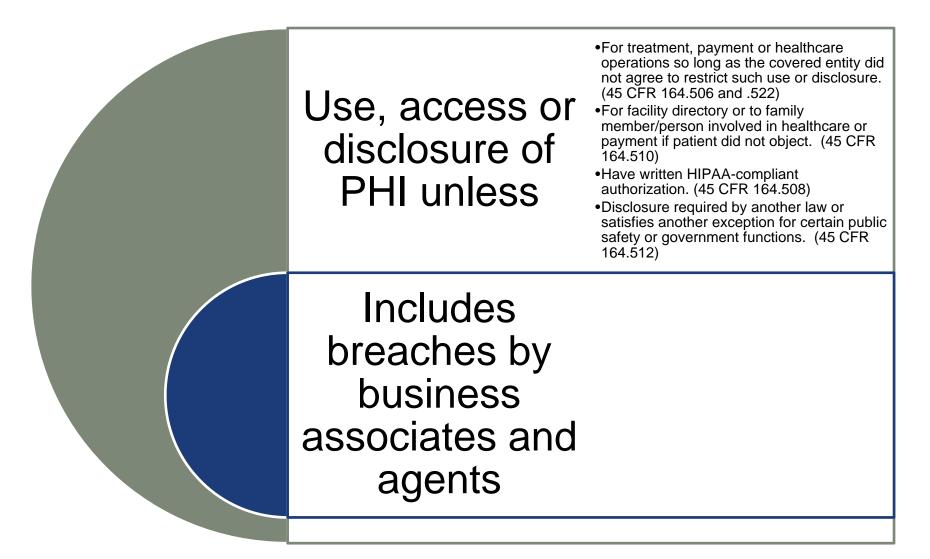
Is the info "protected health info"

- Created or received by a healthcare provider or health plan
- Relates to the past, present or future health, healthcare or payment for healthcare; and either
 - Identifies the individual
 - There is reasonable basis to believe the info can be used to identify the individual

Not de-identified info

16 (45 CFR 160.103, 164.514)





17 (45 CFR 164.502)



Use, disclosure, or request for more PHI than the minimum necessary to accomplish the intent of a permitted use, disclosure or request The "minimum necessary" standard does not apply to

- Disclosures to or requests by another healthcare provider
- Uses or disclosures made per an authorization.
- Uses or disclosures required by law

18 (45 CFR 164.502(b))



Incidental disclosures do not violate HIPAA and are not reportable.

Incidental disclosure =

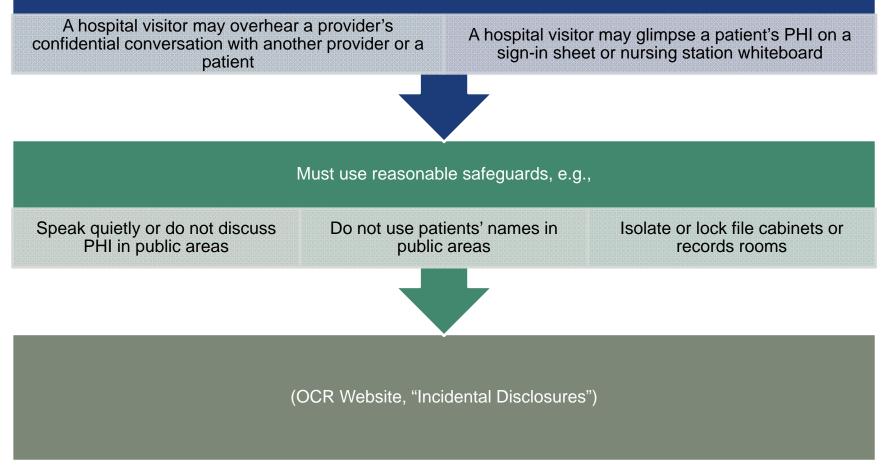
Incident to a use or disclosure that is otherwise permitted or required

The covered entity otherwise complied with

The "minimum necessary" standard Implemented reasonable safeguards to protect against improper disclosures

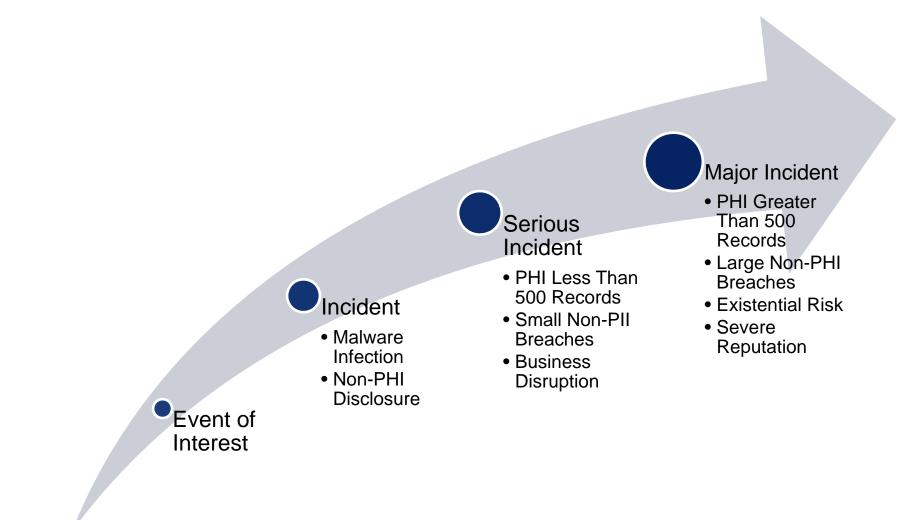


"An incidental use or disclosure is a secondary use or disclosure that cannot reasonably be prevented, is limited in nature, and that occurs as a result of another use or disclosure that is permitted by the Rule", e.g.,





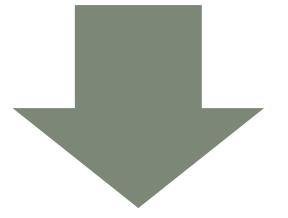
ANALYSIS: CLASSIFY THE INCIDENT





SAFE HARBOR: BREACH OF PHI

Currently, only two methods to secure PHI With Guidance updated annually

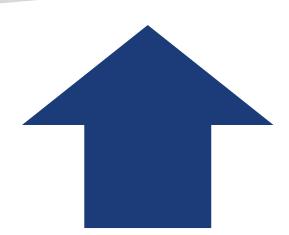


Encryption of electronic PHI

- Transform data into a form in which there is a low probability of assigning meaning without use of a confidential process or key.
- Notice provides processes tested and approved by Nat'l Institute of Standards and Technology (NIST)

Destruction of PHI

- Paper, film, or hard copy media is shredded or destroyed such that PHI cannot be read or reconstructed
- Electronic media is cleared, purged or destroyed consistent with NIST standards







Acquisition, access, use or disclosure of PHI in violation of privacy rules is presumed to be a breach unless the covered entity or business associate demonstrates that there is a low probability that the info has been compromised based on a risk assessment of the following factors

nature and extent of PHI involved

unauthorized person who used or received the PHI

whether PHI was actually acquired or viewed

extent to which the risk to the PHI has been mitigated

unless an exception applies





"Breach" defined to exclude the following

- Unintentional acquisition, access or use by workforce member if made in good faith, within scope of authority, and PHI not further disclosed in violation of HIPAA privacy rule
- Inadvertent disclosure by authorized person to another authorized person at same covered entity, business associate, or organized health care arrangement, and PHI not further used or disclosed in violation of privacy rule
- Disclosure of PHI where covered entity or business associate have good faith belief that unauthorized person receiving info would not reasonably be able to retain info



WHEN IS PHI "COMPROMISED"?





"BREACH": RISK ASSESSMENT

Determine the probability that the data has been "compromised" by assessing

- Nature and extent of PHI involved, including types of identifiers and the likelihood of re-identification
- Unauthorized person who used PHI or to whom disclosure was made
- Whether PHI was actually acquired or viewed
- Extent to which the risk to the PHI has been mitigated
- Other factors as appropriate under the circumstances

Breach Risk assessment is unnecessary if you make a report





"BREACH": RISK ASSESSMENT

Based on commentary, following situations likely involve lower probability that PHI would be compromised

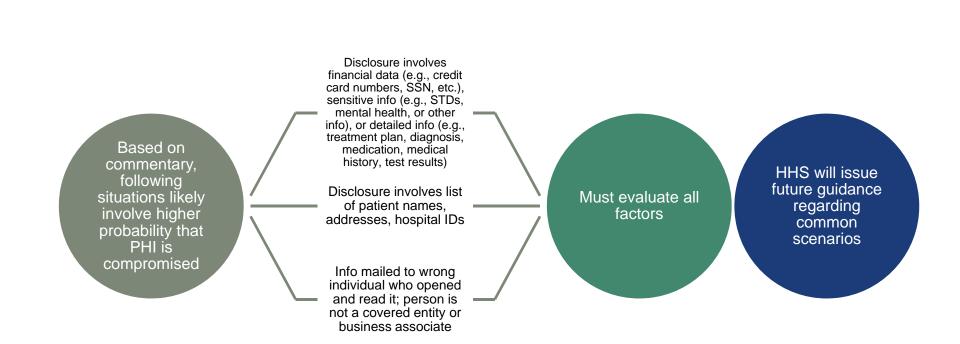
- Fax sent to wrong physician, but physician reports fax and confirms he has destroyed it
- Disclosure to or use by persons who are required by HIPAA to maintain confidentiality
- Disclosure without identifiers or to entity that lacks ability to reidentify the PHI
- Stolen laptop recovered and analysis shows that PHI was not accessed

But must evaluate all factors

27 (78 FR 5642-43)



"BREACH": RISK ASSESSMENT



HOLLAND&HART.

28 (78 FR 5642-43)

No breach notification required if

- No privacy rule violation
 - "Incidental disclosures" do not violate the privacy rule
- PHI is "secured", i.e., encrypted per HHS standards
- Exception applies, i.e.
 - Unintentional acquisition of PHI by workforce member acting in good faith and no further use or redisclosure
 - Inadvertent disclosure by authorized person to another person authorized to access the PHI
 - Unauthorized recipient of PHI is unable to retain PHI
- Low probability that data has been compromised

Covered entity has burden of proof



Until we receive further clarification, safer to err on the side of reporting all but clearly "inconsequential" breaches

Covered entity has burden of proving "low probability that PHI has been compromised."

Failure to report may be viewed as willful neglect resulting in mandatory penalties



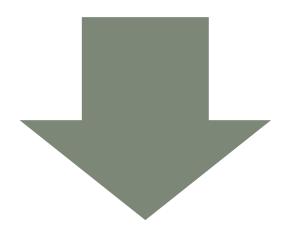
According to HHS, the following constitutes "willful neglect", requiring mandatory penalties

> "A covered entity's employee lost an unencrypted laptop that contained unsecured PHI.... [T]he covered entity feared its reputation would be harmed if info about the incident became public and, therefore, decided not to provide notification as required by 164.400 et seq."

Beware missing PHI or devices containing PHI

₃₁ (75 FR 40879)



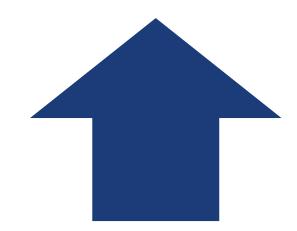


Reporting may reduce risk of significant penalties

- Willful neglect and mandatory penalties
- Excessive penalties

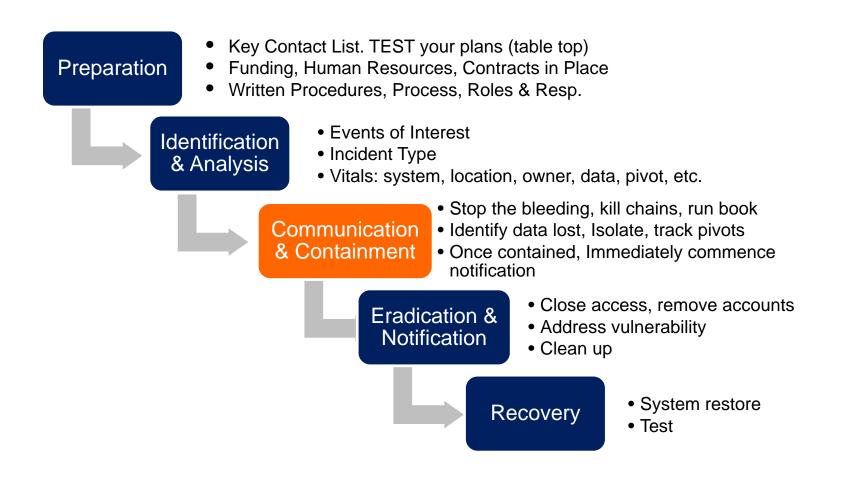
Reporting will increase risk of

- OCR investigation, which may uncover other problems
- Patient complaints or suits.
- AG suits
- Costs of reporting

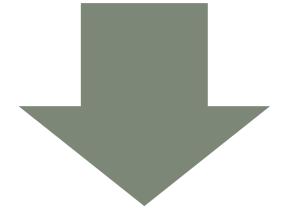




INCIDENT HANDLING LIFECYCLE



COMMUNICATE: INTERNAL COMMUNICATIONS

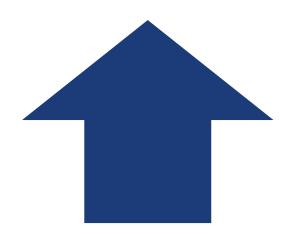


Upon Identification:

- •CIRT Lead
- •Validate suspected incident first!
- Incident classification determines stakeholders
- •Don't raise false alarms
- •Categorize Severity & Impact (per policy)
- •Minor
- Serious
- Major

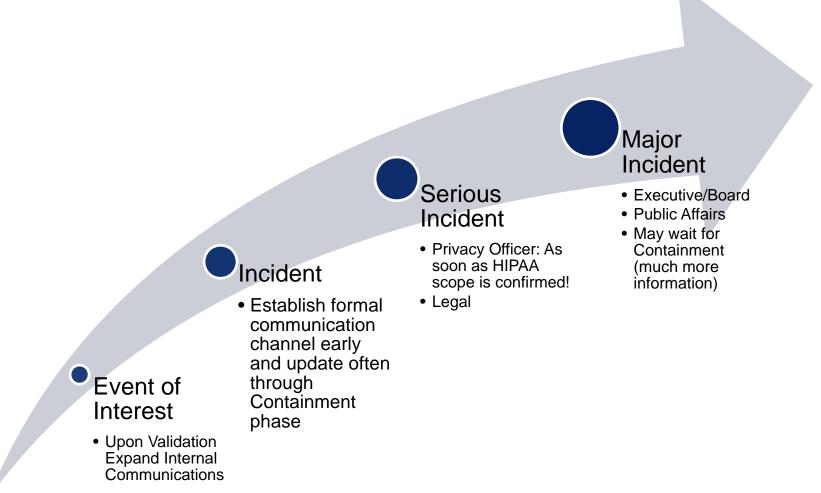
Upon Validation

- Privacy Officer
- •Security Officer, IT Director
- •System Owner
- •Affected Business Line





INTERNAL COMMUNICATIONS (CONT.)





COMMUNICATE: CHECK ON INSURANCE

Many companies carry cyberliability or other potentially applicable insurance

Check with broker

When in doubt, report

Delay in reporting may give insurer excuse to deny coverage
Insurer may accept coverage despite terms in policy
Insurer may provide resources to help you respond

Document communications with insurer.



CONTAINMENT: MITIGATE HARM

A covered entity must mitigate, to the extent practicable, any harmful effect that is known to the covered entity of a use or disclosure by the covered entity or its business associate of PHI in violation of its policies or the privacy rule

If a covered entity or business associate knows of a pattern or practice or a business associate or subcontractor that violates HIPAA, they must either

Take steps to cure the breach or end the violation

Terminate the BAA

₃₇ (45 CFR 164.530(f)) and (45 CFR 164.504(e))



ERADICATION: CORRECT THE VIOLATION

Mitigate the harm

Sanction employees

Revise policies and procedures

Implement new or different safeguards

Train personnel

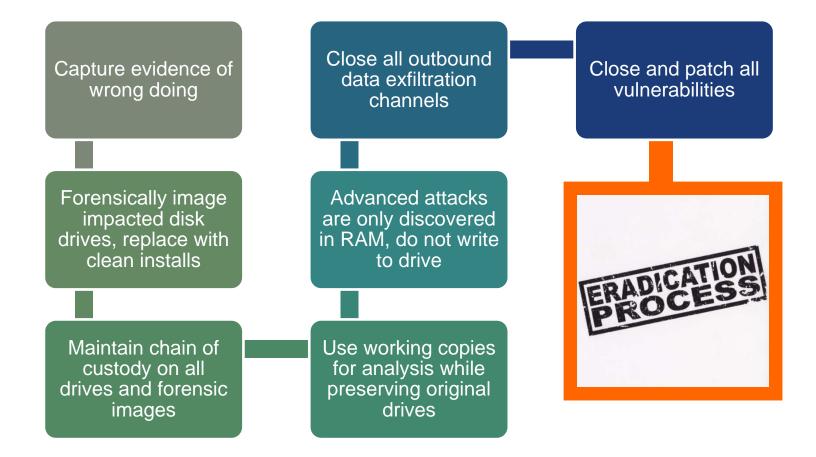
Enforce the policies and rules

- Maybe notify affected individuals
- Take other appropriate steps

Document actions



ERADICATION





A covered entity must have policies and apply appropriate sanctions against members of its workforce who fail to comply with HIPAA rules or privacy policies

Document the sanctions

Ensure the punishment fits the crime





CONTAINMENT: SANCTION EMPLOYEES





CONTAINMENT: CORRECT THE VIOLATION

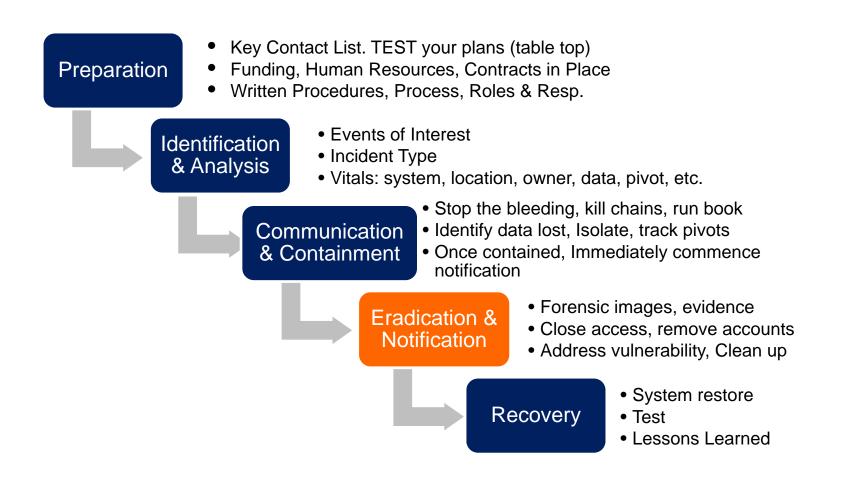
THIS IS REALLY IMPORTANT!

It is an affirmative defense to HIPAA penalties if the covered entity or business associate

- Did not act with willful neglect, and
- Corrected the violation within 30 days



INCIDENT HANDLING LIFECYCLE





BREACH NOTIFICATION

If there is "breach" of "unsecured PHI"

Covered entity must notify

Each individual whose unsecured PHI has been or reasonably believed to have been accessed, acquired, used, or disclosed

HHS

Local media, if breach involves > 500 persons in a state

Business associate must notify covered entity

₄₄ (45 CFR 164.400 et seq.)









Know reasonably well before going public:

- Incident is not ongoing
- Type of incident
- Size of breach
- Medium of data: hard copy, electronic or both?
- · Location, jurisdictions and controlling law
- Timing of incident:
 - First discovered
- Internal communications
- Data affected, elements compromised



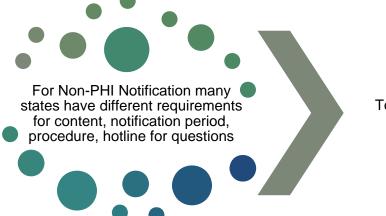








VICTIM NOTIFICATION LETTERS

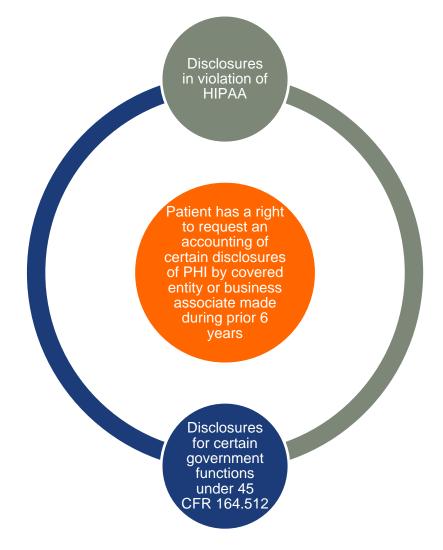


Tone of letter: conciliatory, respectful, focused

Include contact information, special twitter feed, or website for continuous updates



LOG THE IMPROPER DISCLOSURE



₅₀ (45 CFR 164.528) and (45 CFR 160.103)



LOG THE IMPROPER DISCLOSURE

Must include the following info in accounting

Date of the disclosure

Name and address of the entity who received the PHI

Brief description of the PHI disclosed

Brief statement of the purpose of the disclosure or copy of written request for disclosure

As a practical matter, this will require covered entities and business associates to maintain a log of disclosures





BA REPORT TO COVERED ENTITY

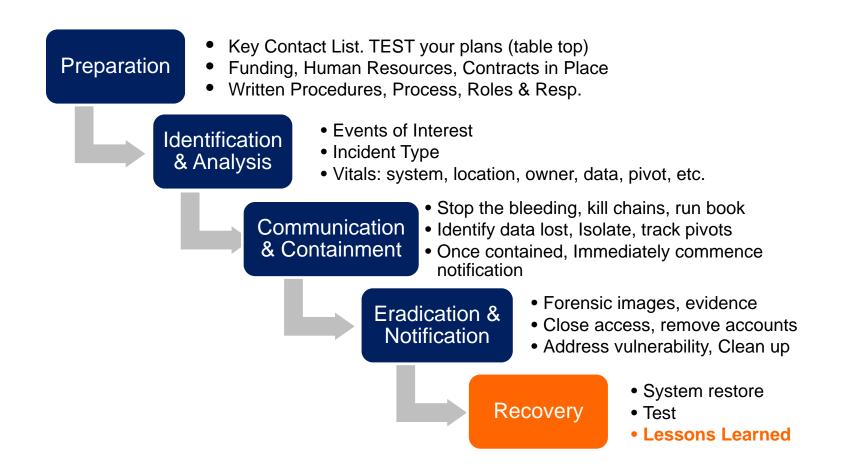
Business associate must report the following to the covered entity

- Any use or disclosure of PHI not provided for by the BAA of which it becomes aware
- Any security incident of which it becomes aware, i.e., "attempted or successful unauthorized access, use, disclosure, modification, or destruction of PHI or interference with system operations in an info system."
- Breaches of unsecured PHI per the Breach Notification Rule
- Business associate agreements often contain additional requirements

₅₂ 45 CFR 164.314(a), .410, and .504(a)(2))



INCIDENT HANDLING LIFECYCLE





RECOVERY: POST-MORTEM

Executive

- Is this a cost of doing business?
- Is this a case for meaningful change?
- Avoid blame, use incident to improve capability
- Explain details by analogy

Technical

- Learn from tactics used against you
- Address vulnerabilities with 20 Critical Controls
- Make a solid business case for information security investment
- Translate security goals into business goals



SUMMARY: IF YOU THINK YOU HAVE A BREACH

Act immediate action to minimize breach

Notify privacy officer

Confirm whether HIPAA applies

Confirm whether HIPAA was violated

Check on insurance

Investigate promptly

Mitigate any harm

Sanction workforce members

Correct any process that resulted in improper disclosures

Log the improper disclosure

Report if required

Document the foregoing

Remember: prompt action may allow you to

Satisfy your duty to mitigate

Avoid disclosure and breach reporting obligation Defend against HIPAA penalties



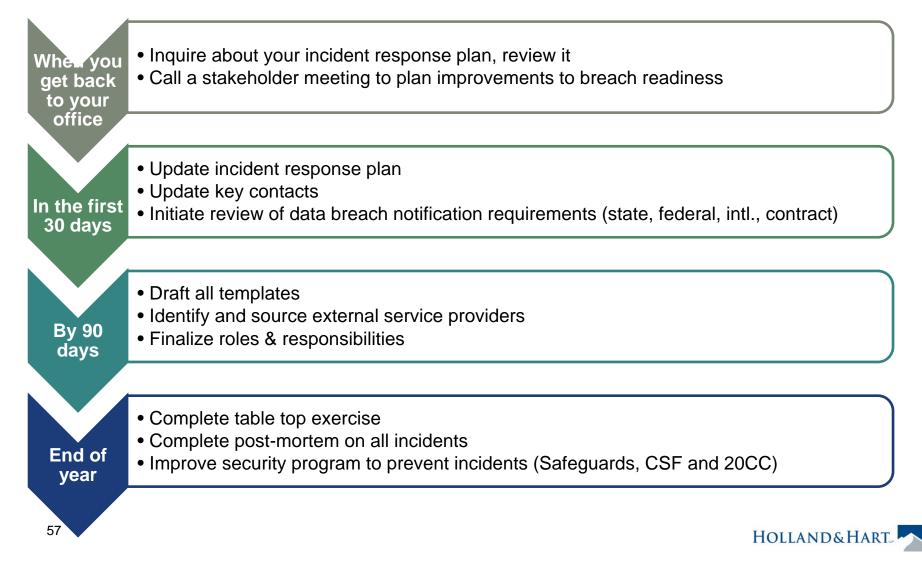
SUMMARY: PREPARE

Principle: Know Before You Go

- Create a Model Process (Stakeholders, Communications)
- Contract now with service providers
- Stay on top of changes in Data Breach Notification Laws
- Know your regulator; OCR Enforcement Actions
- Draft all templates now
- Tabletop test your plan



ACTION PLAN



THANK YOU QUESTIONS?

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