



Cyber Security Issues

Why is it Important?

Required
by Law

Good
Business
Strategy

Right
Thing to
Do

Why is it Important?

According to Bitglass' 2017 Healthcare Breach Report, 328 U.S. healthcare firms reported data breaches in 2016, up from 268 in 2015.

"Unauthorized disclosures continue to tick up and are now the leading cause of breaches as data moves to cloud and mobile and as external sharing becomes easier. Unauthorized disclosures includes all non-privileged access to PII or PHI," the report states. "Hacking and IT-related incidents doubled year-over-year, an indication that malicious actors are not letting up and are increasingly aware of PHI's high long-term value."

According to the 2016 Ponemon [Cost of Data Breach Study](#), the average breach cost U.S. companies \$221 per lost record last year, up from \$217 per record in 2015 -- though the cost per leaked record for healthcare firms topped \$402 in 2016.

Reasonable and
appropriate

Scalable to the
size of the
organization

To ensure the
confidentiality
integrity and
availability of all
PHI a covered
entity or business
associate KHIE
receives,
maintains, or
transmits

Manage the Privacy Rule by use of Policies and Procedures

KHIE and CHFS policies

KHIE

<http://www.chfs.ky.gov/os/oats/policies.htm>

OATS

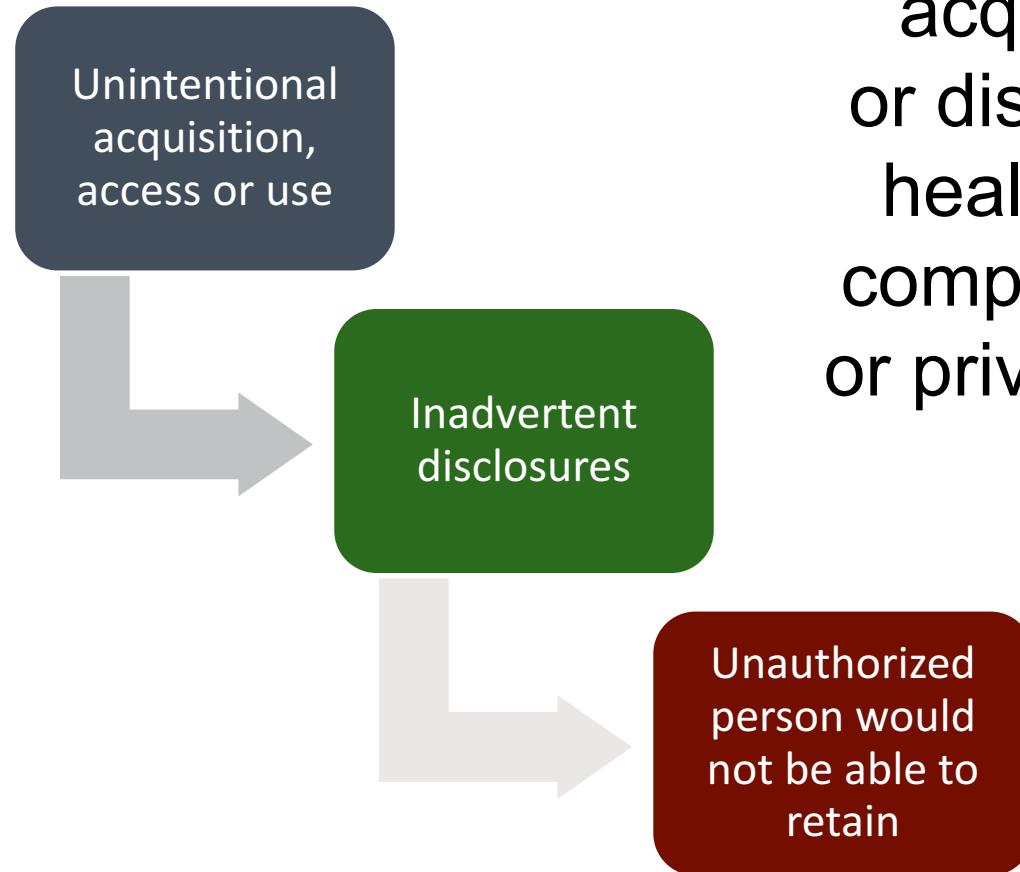
<http://technology.ky.gov/governance/Pages/policies.aspx>

COT

When using or disclosing PHI, KHIE must make reasonable efforts to limit PHI to the minimum necessary to accomplish the intended purpose of the use, disclosure, or request.



Three Exclusions



Breach means the acquisition, access, use or disclosure of protected health information which compromises the security or privacy of the protected health information.

“Risk Assessment” must include:

- The nature and extent of the PHI involved;
- The unauthorized person who received/used the PHI;
- Whether the PHI was actually acquired or viewed; and
- The extent to which the risk to the PHI has been mitigated.

“Security Breach” means:

Unauthorized acquisition, distribution, disclosure, destruction, manipulation or release of unencrypted or unredacted records or data that compromises or the agency reasonably believes may compromise the security, confidentiality, or integrity of personal information and result in the likelihood of harm to one or more individuals

Data Breach Mop Up



Average cost per record of a data breach is \$355.00 per record in 2016 (Ponemon Institute, June 2016 for healthcare organizations)

Notification

**Credit
Monitoring**

Office of Civil Rights



Part of the U.S. Department of Health and Human Services

Enforces civil rights from health care providers receiving federal financial assistance from HHS, one of the most active federal regulators

- Where does your data reside?
- Who has access to PHI?
- How do you restrict access to PHI?
- How does your agency train your employees annually?

Humans are still the weakest Link

- Phishing, Hacking, malware account for 43% of incidents
- Up 12% from 2016
- 25% of those were human error
- 23% was ransomware
- 18% due to lost or stolen devices
- 3% internal theft

Humans are still the weakest Link

- Innocent employees who inadvertently download malicious content or reveal sensitive data.
- Careless, negligent, or employees who lack technical knowledge.
- Disgruntled employees who intentionally leak data.

What is it?

Insider Threat is a current or former employee, contractor or business partner who:

- ✓ Has or had authorized access to an organization's network, system, or data
- ✓ Has intentionally exceeded or intentionally used that access in a manner that negatively affected the confidentiality, integrity, or availability (CIA) of the organization's information or information systems

Most common insider crimes

Unauthorized access

Unintentional exposure of
private or sensitive data

Viruses, worms or other
malicious code

Theft of intellectual
property

Workforce actions to prevent insider threats

Avoid printing PHI, PII,
other confidential
information

Guard confidentiality of
passwords and
credentials

**For additional information
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