

Knobbe Martens

Respect and Protect: Intersection of Med Devices, AI, and Data Privacy

February 10, 2020

Curtis Huffmire

6th Annual International Symposium on Technology in Medical Data and Devices

3:15 PM

INTELLECTUAL PROPERTY + TECHNOLOGY LAW | knobbe.com



Trends in Med Device AI and Data Privacy

- Med Devices are sensing and collecting more data
- Med Devices are connected and transmitting more data
- Med Devices are provided access to more data
- Med Devices are learning and improving outcomes using data
- Data is becoming increasingly valuable
- Companies and Governments are respecting and protecting data

Trends in Med Device AI and Data Privacy

- Respecting Data
 - Patients have a right to privacy and control of their data
- Protecting Data
 - Companies and Governments have responsibilities to secure data
- Data Privacy and Data Security are essential aspects of a Med Device company's success
 - Strong Data Privacy and Security Policies lead to increased value
 - Weak Data Privacy and Security Policies lead to increased losses

Cost of Data Breach

Average total cost of a data breach:

\$3.86 million

Average total one-year cost increase:

6.4%

Average cost per lost or stolen record:

\$148

One-year increase in per capita cost:

4.8%

Likelihood of reoccurring material breach over the next 2 years:

27.9%

Average cost savings with an Incident Response team:

\$14 per record

What your personal data is worth to a

hacker (per record)

- \$10 Name, Address & Email
- \$50 Drivers license
- \$50 Credit/Debit Card
- \$3 Netflix password
- \$100 Bank password
- \$1000 Bank password (balance >\$15k)
- \$1000 Complete medical record
- \$300 Average medical record

The incentives for hackers are great

The personal data of a US resident is worth about

\$2000 — \$3000 per year

Ponemon Institute; 2018 Cost of a Data Breach Study: Global Overview



How should my Med Device Co respect and protect data?

- Companies should fully embrace data privacy and security
 - Take responsibility to respect the customer/patient re use of data
 - Take responsibility to secure the valuable customer/patient data
 - Comprehensive privacy and security plans will pay off long term
- Jurisdictions have new and developing laws
 - Understand the laws
 - Comply with the laws

Hypothetical Med Device Co makes standard pacemakers

- What kinds of data are involved?
 - Basic customer info?
 - Name, Address, Phone, Age, Birthdate?
 - Web IP address, shopping preferences?
 - Patient related data?
 - Health history? Mobile data? Heart rate?



What are basic requirements for Data Privacy and Security?

Data Privacy 101

- > Broad term that encompasses many areas of law and issues
 - > Common law rights to privacy
 - > False light, intrusion, appropriation, and public disclosure of private facts
 - ➤ **Statutes** related to certain industries/sectors (e.g., Telephone Consumer Protection Act, Fair Credit Reporting Act, Controlling the Assault of Non-Solicited Pornography And Marketing Act of 2003, Health Insurance Portability and Accountability Act of 1996, etc.)
 - > Data breach notification laws (all 50 states)
 - Comprehensive Data Rights Statutes
 - General Data Protection Regulation (GDPR)
 - ➤ California Consumer Privacy Protection Act (CCPA)
 - No U.S. federal comprehensive data privacy law
 - Closest is Section 5(a) of the Federal Trade Commission Act, which prohibits "unfair or deceptive acts or practices"





- · Requires consent from the individual
- Wide definition of personal information including browser history, purchase behaviour, site/app interactions
- · Allows for opt-out of collection/use
- Fines potentially in the millions of dollars
- · Private right of action, class suits
- · Extraterritorial effect on business



- Has a legitimate interest component
- Defines PII and sensitive information
- Default to opt-in for collection/use
- Fines potentially in the millions of dollars
- Public complaints to an enforcement body to address
- Extraterritorial effect on business

Personal Rights under the GDPR

- Right to Access Personal Data
- Right to Rectification
- Right to Erasure
- Right to Restrict Data Processing
- Right to Be Notified
- Right to Data Portability
- Right to Object
- Right to Reject Automated Individual Decision Making

CCPA – California Consumer Protection Act – Summary

Who?

Any for-profit businesses conducting business in California that collects or processes personal consumer data of California residents **AND** also meets one of:

- Revenue \$25MM+ OR
- Data of 50,000 Californian consumers, OR
- Derive 50%+ of revenue selling consumer data

More than 1,000,000 businesses will be affected by the CCPA

What?

CCPA expressly focuses on: Preventing 'misuse' of Californians' consumer data through increased transparency.

New Consumer Data Rights:

- To Request knowledge (visibility) of their data used by the business
- 2. To **Delete** their data used by the business
- 3. To Opt-out of the sale of their data

Penalties

Enforcement will levy fines (up \$7,500/event) injunctive, or class action relief/rights

Expansive Definition of Personal Information (PI)

"Information that identifies, relates to, describes, is capable of being associated with, or could reasonably be linked, directly or indirectly, with a particular consumer or household."



Discovery Mode / Data Mapping

- First step in privacy compliance
- Identify collection, flow and retention of PI
- Identify purpose of PI
- User friendly worksheet available to assist
- Third party vendors offer software solutions
- Recommend naming DPO or lead
- Review and update vendor agreements

II. SOURCES TO CONSIDER

When reviewing the questionnaire, please consider all possible sources in your operations. These sources may include your company, subsidiaries, sub-contractors, parent companies, service providers (e.g., hosting services, billing services, and analytic services), third-party vendors, employees, or customers. Each department of your company may implicate data privacy including human resources, finance, marketing, development, testing, and procurement.

III. QUESTIONS

Section 1 – Identifying Personal Information Under The CCPA This section helps identify the collection of data that triggers obligations under the CCPA.	
1. What data do you collect from or about consumers? a. Please list each type of data from or about consumers that you collect, with reference to the broad definition of "collects," "collected," and "collection" above (see page 2). [Note: While the CCPA is limited to protecting personal information, please provide an exhaustive list of all data about consumers (which includes employees under the current statute) that you collect so that we may evaluate whether any particular data is or is not covered by the CCPA.] b. For each answer to Question 1(a), please state the purposes (including commercial purpose or business purpose) for which the category of collected data is to be used.	
2. Are there any types of data (listed in response to Question 1(a)) that include information that is <u>publicly available</u> at the time of or before <u>collection</u> ?	
3. If you answered "YES" to Question 2, please explain the circumstances of the <u>public availability</u> and your <u>collection</u> of the data.	

Consumer Rights in CCPA

CA consumers can make a <u>verifiable</u> request regarding:

- Right to know/access what PI is being collected and sold
- 2. Right to deletion
- 3. Right to opt-out

Businesses have 45 days to respond



How to comply:

- Set up a toll-free telephone # for requests
- Train employees to manage toll-free # or retain outside vendor to manage
- Train existing customer relations team about where to direct CCPA inquiries
- Create web page where consumers can submit requests
- Prepare template responses / ensure capabilities to provide data in portable form
- Compliance tracking

Compliance Road Map

- Create internal data privacy team, including point person, with relevant stakeholders
- Obtain cyber insurance
- Retain outside counsel
- Consider retaining a company to assist with operations/IT
- Conduct inventory of data collection and use
- Prepare and update privacy policies and procedures
- Prepare and update vendor agreements
- Set up compliance mechanism for consumer access requests
- Train personnel
- Ensure PI is protected with adequate and reasonable security measures
 - Regular audits of privacy and security programs

Hypothetical Med Device Co makes AI-based pacemakers

- What kinds of data are involved?
 - Updates of algorithms?
 - Data of 1000s of other patients?
 - Raw patient data?
 - Al engine onboard?
- How does AI change the analysis?



What are basic requirements for Data Privacy and Security?

How should my Med Device Co respect and protect AI related data?

- Promoting AI and capturing its benefits for the health care systems depends on access to sensitive patient data.
- Ensuring that privacy protections are in place is essential.
- Assuring the right to privacy of citizens while facilitating access to personal data for research is a major challenge that is still being considered by many jurisdictions to benefit from many opportunities of AI technologies in health care.

Personal Rights under the GDPR

- Right to Access Personal Data
- Right to Rectification
- Right to Erasure
- Right to Restrict Data Processing
- Right to Be Notified
- Right to Data Portability
- Right to Object
- Right to Reject Automated Individual Decision Making

How should my Med Device Co respect and protect AI related data?

- Can data be de-identifed and/or made anonymous?
- For GDPR, what legal basis is relied on? Dealing with special category data? If so, what Article 9 condition applies?
- Dealing with any data collected pre-GDPR?
- Need to rely on consent? If so, is language sufficiently clear and specific?
- Adequate privacy notice?
- What are the particular rights at stake and how is the obligations to protect these rights going to be met?

Knobbe Martens © 2019 Knobbe Martens 20

_

Privacy By Design

- Proactive Not Reactive; Preventative Not Remedial
- Privacy As Default Setting
- Embedded Privacy in Design
- Full Functionality Positive-Sum Instead of Zero Sum
- Transparency and Visibility Make it Open
- End-to-End Security Full Lifespan Protection
- Respect for the Privacy of the User Make it User-Centric

Privacy By Design – AI Considerations

- Educate Engineers about Privacy
- Control Access to Data
- Minimum Data for Collection and Processing
- Strong De-Identification Anonymous Data
- Beware of Quasi-Identifiers
- Ability to Handle Erasure and Rectification Access
- Explain the Logic White Box vs. Black Box



Knobbe Martens

Thank you!

Curtis Huffmire

Curtis.Huffmire@knobbe.com