CYBERSECURITY AND PRIVACY RISKS THAT CREATE ENFORCEMENT AND OTHER EXPOSURE

TIMOTHY NOONAN, ACTING DEPUTY DIRECTOR, HEALTH INFORMATION PRIVACY DIVISION DHIS OFFICE FOR CIVIL RIGHTS

JOAN PODLESKI, CHIEF PRIVACY OFFICER
CHILDREN'S HEALTH SYSTEM OF TEXAS
MARTI ARVIN, VP AUDIT STRATEGY

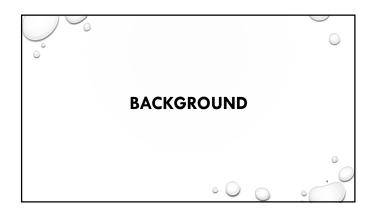
CYNERGISTEK, INC.

DISCLAIMER:

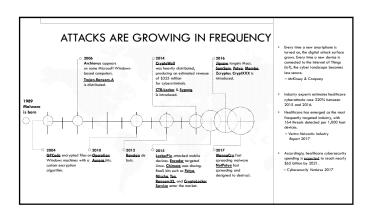
THE VIEWS EXPRESSED IN THIS PRESENTATION
BELONG TO THE SPEAKERS AND DO NOT
NECESSARILY REPRESENT THE VIEWS OF THEIR
ORGANIZATIONS OR OTHER ORGANIZATIONS.
NOTHING IN THIS PRESENTATION CONSTITUTES
LEGAL ADVICE.

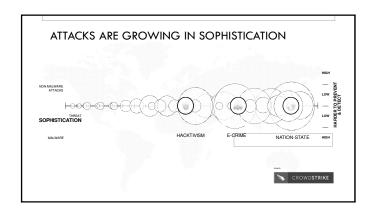
PRESENTATION OVERVIEW

- BACKGROUND ON THE EVOLUTION OF PRIVACY AND SECURITY RISKS IN HEALTHCARE
- PRIVACY AND INFORMATION SECURITY PROGRAM MATURITY IN HEALTHCARE
- RECENT SETTLEMENTS WHAT WENT WRONG?
- OCR PHASE II AUDITS- AN OVERVIEW OF THE FINDINGS

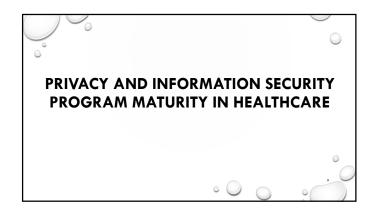








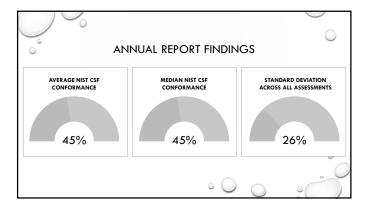
rom "Business Critical" to "Mis	sion Critical" to "Life Critical"	RITIES			
Confidentiality	Availability	Integrity			
PHI (HIPAA)	Clinical Systems	Critical Patient Data Prescriptions, Medications Dosages			
But also PII & PCI	- EHR & Specialty				
Account Information	- Ancillary (PACS, Lab, Pharma)				
Billing & Payment Data	- ePrescription / EPCS	- Allergies			
Intellectual Property	Medical Devices	- History			
- Clinical Trials	- Availability of clinical services and	- Diagnosis			
- Research	results	- Alarms			
- Design & Formularies	Business Systems	Critical Technical Data			
Legal & HR Documents	- Email	- Calibration			
Identities & Credentials	- Billing, Scheduling	- Safety Limits			
Patient Expe	rience: "Patient Trust Zone"				



ANNUAL REPORT OVERVIEW

- ANALYZED THE AGGREGATED MATURITY RATINGS OF ASSESSMENTS PERFORMED IN 2017 USING THE NIST CSF AS THE BENCHMARK STANDARD
- PROPRIETARY DATA BASED ON THIRD-PARTY ANALYSIS, NOT SELF REPORTING
- SAMPLE REPRESENTS THE ENTIRE CONTINUUM OF CARE, FROM CRITICAL ACCESS HOSPITALS
 TO LARGE AMCS TO BUSINESS ASSOCIATES
- DISSECTED FINDINGS BY MULTIPLE CRITERIA: SIZE, REVENUE, TYPE, ETC.

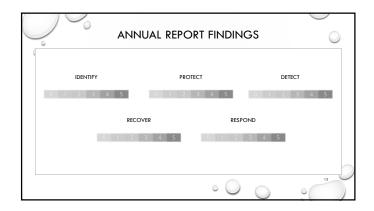
10



ANNUAL REPORT FINDINGS

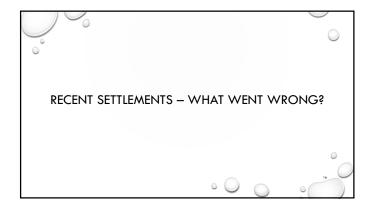
- RESULTS SHOW US THAT THERE IS STILL CONSIDERABLE ROOM FOR IMPROVEMENT IN CYBERSECURITY, DESPITE OVER TEN YEARS OF REGULATION
- WE AS AN INDUSTRY ARE NOT EQUIPPED OR PREPARED TO ADDRESS CYBER THREATS OR INCIDENTS WHEN THEY OCCUR, OR EVENT IDENTIFY WHERE RISKS MAY BE
- "A CHAIN IS ONLY AS STRONG AS ITS WEAKEST LINK."

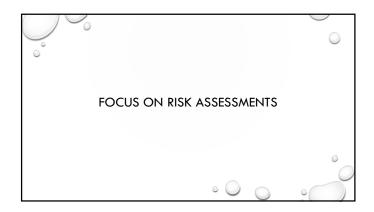
12



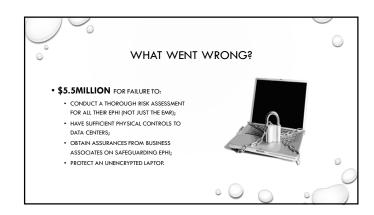
IDENTIFY, PROTECT & DETECT A COMPANY IS HIT WITH RANSOMWARE EVERY IDENTIFY 40 SECONDS SOMEWHERE IN AMERICA. 0 1 2 3 4 5 A SURVEY OF 1,300 PHYSICIANS CONDUCTED BY THE AMA AND ACCENTURE FOUND THAT PROTECT FOUR OUT OF FIVE HAD EXPERIENCED SOME FORM OF A CYBERATTACK 0 1 2 3 4 5 HEALTHCARE ORGANIZATIONS AND VENDORS HANDLING INFORMATION PROTECTED BY THE DETECT HIPAA RULES REPORTED 178 BREACHES IN 2017 WERE DUE TO A CYBERSECURITY INCIDENT. 0 1 2 3 4 5

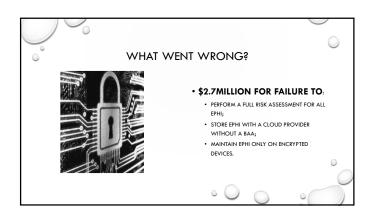
RESPOND & RECOVER BETWEEN LOST CHARGE CAPTURE, UNFORESEEN OVERTIME, AND PAYMENT DELAYS PROVIDERS CAN END UP AS MUCH AS \$10M - \$50M IN THE RED QUICKLY "IF YOU FAIL TO PLAN, YOU ARE PLANNING TO FAIL!" B. FRANKLIN

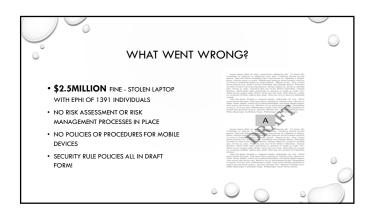








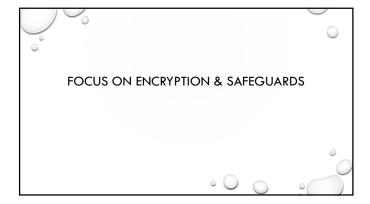


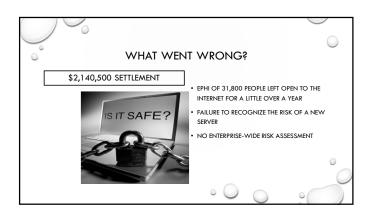


WHAT WENT WRONG

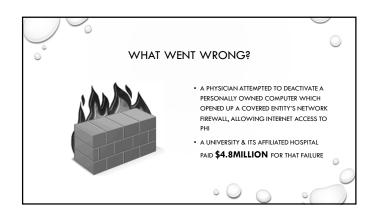
ANTHEM, INC. - \$16,000,000

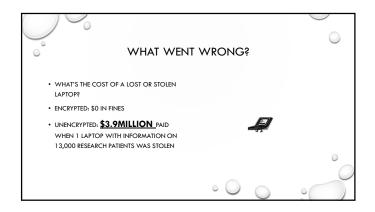
- 78.8M INDIVIDUALS AFFECTED
- LARGEST HEALTH DATA BREACH IN U.S.
- + GAINED ACCESS THROUGH SPEAR FISHING IN FEB. 2014
- DATA EXTRACTED FROM DEC. 2014 TO JAN. 2015
 INCLUDED NAMES, ADDRESSES, DATES OF BIRTH, EMAIL ADDRESSES, SSNS, MEDICAL ID NUMBERS AND EMPLOYMENT INFORMATION
- $\bullet \ \mathsf{ISSUES} \ \mathsf{WITH} \ \mathsf{RISK} \ \mathsf{ANALYSIS}, \mathsf{INFORMATION} \ \mathsf{SYSTEM} \ \mathsf{ACTIVITY} \ \mathsf{REVIEW}, \mathsf{SECURITY} \ \mathsf{INCIDENT} \ \mathsf{RESPONSE}$ AND REPORTING, AND ACCESS CONTROLS
- 2 OTHER SETTLEMENTS -
 - NATIONAL ASSOCIATION OF INSURANCE COMMISSIONERS (DECEMBER 2016)
 CLASS ACTION (AUGUST 2018)

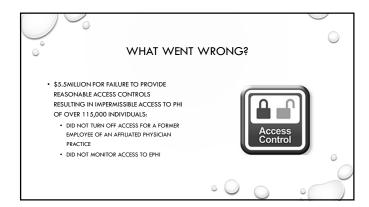










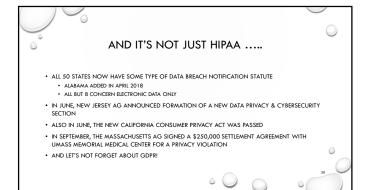


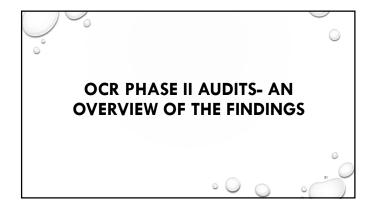
WHAT WENT WRONG

ABC Cases \$999,000

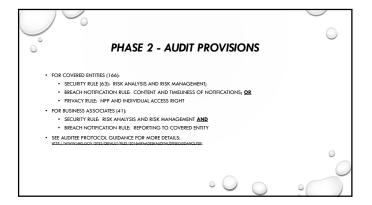
- BOSTON MEDICAL CENTER \$100,000
- BRIGHAM AND WOMEN'S HOSPITAL \$384,000
- MASSACHUSETTS GENERAL HOSPITAL \$515,00
 - BWH AND MGH ARE MEMBERS OF PARTNERS HEALTHCARE AN INTEGRATED HEALTH CARE DELIVERY SYSTEM THAT INCLUDES COMMUNITY HOSPITALS, PRIMARY CARE AND SPECIALTY PHYSICIANS, SPECIALTY FACILITIES, COMMUNITY HEALTH CENTERS AND OTHER HEALTH-RELATED ENTITIES
- ALL THREE INVOLVED FILMING FOR "SAVE MY LIFE: BOSTON TRAUMA"
- SIMILAR TO ANOTHER ABC TV SHOW "NY MED"
 - "NY MED" RESULTED IN A 2016 SETTLEMENT WITH NY PRESBYTERIAN FOR \$2.2M
- OCR FILMING GUIDANCE <u>HTTPS://WWW.HHS.GOV/HIPAA/FOR-PROFESSIONALS/FAQ/2023/FILM-AND-MEDIA/INDEX.HTML</u>

38









CE DESK AUDIT RATINGS

		Rating					
Element #	Provision	1	2	3	4	5	N/A
P55	Notice	2	34	40	11	16	0
P58	eNotice	59	16	4	6	15	3
P65	Access	1	10	27	54	11	0
BNR 12	Timeliness	67	6	2	9	12	7
BNR13	Content	14	15	24	38	7	5
S2	Risk Analysis	0	9	20	21	13	0
S3	Risk Management	2	2	15	28	16	0

BA DESK AUDIT RATINGS

		Rating						
Element #	Provision	1	2	3	4	5	N/A	
BNR17	Notice to CEs	0	2	4	3	0	32	
S2	Risk Analysis	3	4	16	12	6	0	
S3	Risk Management	0	5	8	21	7	0	

Department of Health and Human Services, Office for Civil Rights

March 2018 | pag

INITIAL TAKE-AWAYS

Providing required NPP on website

Providing required NPP content

OCR will examine entity practices for lessons learned that can be shared in technical assistance

Most Room for Improveme

Risk Management
Risk Analysis
Enabling Individual Access

Review OCR guidance and technical assistance

