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EXAMINING THE ROLE OF THE DEPARTMENT OF  
HEALTH AND HUMAN SERVICES IN HEALTH CARE  
CYBERSECURITY  
THURSDAY, JUNE 8, 2017

House of Representatives  
Subcommittee on Oversight and Investigations  
Committee on Energy and Commerce  
Washington, D.C.

The subcommittee met, pursuant to call, at 10:15 a.m., in  
Room 2322 Rayburn House Office Building, Hon. Tim Murphy [chairman  
of the subcommittee] presiding.

Members present: Representatives Murphy, Griffith, Burgess,  
Brooks, Collins, Walberg, Walters, Costello, Carter, Walden (ex  
officio), DeGette, Castor, Tonko, Ruiz, Peters, and Pallone (ex  
officio).

Staff present: Jennifer Barblan, Chief Counsel, Oversight  
and Investigations; Elena Brennan, Legislative Clerk, Oversight

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26 and Investigations; Katie McKeough, Press Assistant; John Ohly,  
27 Professional Staff, Oversight & Investigations; Jennifer  
28 Sherman, Press Secretary; Hamlin Wade, Special Advisor, External  
29 Affairs; Jessica Wilkerson, Professional Staff, Oversight and  
30 Investigations; Julie Babayan, Minority Counsel; Chris Knauer,  
31 Minority Oversight Staff Director; Miles Lichtman, Minority  
32 Policy Analyst; Kevin McAloon, Minority Professional Staff  
33 Member; Dino Papanastasiou, Minority GAO Detailee; Andrew  
34 Souvall, Minority Director of Communications, Outreach and Member  
35 Services; and C.J. Young, Minority Press Secretary.

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36 Mr. Murphy. Good morning. Commencing a hearing here on the  
37 -- examine the role of the Department of Health and Human Services  
38 on health care cybersecurity. Welcome.

39 We are here today to continue our examination of  
40 cybersecurity in the health sector as we discussed at our hearing  
41 in April about the role of public-private partnerships.  
42 Cybersecurity in this sector ultimately comes down to patient  
43 safety.

44 We had a glimpse of that just weeks ago at what a large-scale  
45 cyber incident could do the health care sector including the  
46 impact upon patients during the WannaCry ransomware event.

47 Today, we turn to the role the Department of Health and Human  
48 Services, HHS, has in health care cybersecurity. Recognizing the  
49 critical importance of cybersecurity in this sector, two years  
50 ago in the Cybersecurity Act of 2015 Congress asked HHS to  
51 undertake two evaluations, one evaluating the department=s  
52 internal preparedness for managing cyberthreats and a second done  
53 alongside industry stakeholders examining the challenges with  
54 cybersecurity in the health care sector.

55 These evaluations are now complete and give not only the  
56 Congress but the entire health care sector an opportunity to  
57 better understand the agency=s approach to cybersecurity.

58 The reports also allow us to establish a baseline for  
59 evaluating HHS= progress, moving forward. HHS= internal  
60 preparedness report sets out the roles and responsibilities of

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61 various HHS offices in managing cyberthreats, among other  
62 information.

63 For example, the report identified a single -- HHS= official  
64 -- the cybersecurity designee assigning primary responsibility  
65 for cybersecurity efforts across agency. But what precisely does  
66 this mean and how does the cybersecurity designee work with the  
67 11 components identified by HHS as having cybersecurity  
68 responsibilities.

69 In addition, the committee has learned that many of the  
70 details may already be obsolete due to recent and ongoing changes  
71 in HHS= internal structure.

72 For example, HHS= creation of a Health Cybersecurity and  
73 Communications Center, or HCCIC, modeled on the National  
74 Cybersecurity and Communications Integration Center, or NCCIC,  
75 operated by the Department of Homeland Security could  
76 dramatically change how HHS handles cyberthreats internally.

77 It is our understanding that the HCCIC will serve as a focal  
78 point for cyberthreat information, collection and dissemination  
79 from HHS= internal networks as well as external sources.  
80 However, details about this new function remain limited.

81 Therefore, how HCCIC fits in the department=s internal  
82 structure and preparedness as well as its role with respect to  
83 private sector partners will be a focus of today=s discussion.

84 The second report released late last week focused broadly  
85 on the challenges of cybersecurity in the health care industry.

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This report reflects the findings and recommendations of the Health Care Industry Cybersecurity Task Force. The task force members were selected from a wide range of stakeholder including federal agencies, the health care sector and cybersecurity experts. And the report does not mince words, broadly concluding that health care cybersecurity is in critical condition.

The report identified six imperatives such as defining leadership and expectations for the industry, increasing the security of medical devices and health IT and improving information sharing within the industry.

It made 27 specific recommendations. Many of these recommendations call on HHS to provide more leadership and guidance for the sector as a whole.

It is clear from these reports that there is much HHS can and should do to help elevate cybersecurity across the sector. The importance of meeting this challenge head on was illuminated in recent weeks by the widely publicized WannaCry ransomware.

Frankly, we are lucky the United States was largely spared from this infection, which temporarily crippled the National Health Service in England.

Doctors and nurses were locked out of patient records there and hospitals diverted ambulances to nearby hospitals and cancelled nonemergency services after widespread infection of the ransomware.

This incident was an important test of HHS= response to a

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111 potentially serious event and thus far the feedback has been  
112 positive. Reports suggested HHS took a central role in  
113 coordinating resources, disseminating information and serving as  
114 a nurse in the public-private response efforts.

115 But this was just one incident and HHS must remain vigilant.  
116 The WannaCry infection was not the first widespread cyber incident  
117 nor will it be the last.

118 Therefore, a commitment to raising the bar for all  
119 participants in the sector no matter how large or small needs to  
120 be embraced. This is a collective responsibility and HHS has an  
121 opportunity to show leadership and to set the tone.

122 Because this is no longer just about protecting personal  
123 information or patient data. This is about patient safety.

124 So I want to thank our witnesses for appearing today and look  
125 forward to learning more about HHS= efforts on this important  
126 topic.

127 I want to also say we recognize that this is a very, very  
128 serious threat and we will be asking more details about that later.  
129 But one that has had that impact upon the National Health Service  
130 in England, I shudder to think what happens here.

131 If we are talking about threats to patients= medical records,  
132 prescribing records, medical equipment, et cetera, none of this  
133 should be taken lightly. This is a very serious problem.

134 So I now want to recognize the ranking member, Ms. DeGette  
135 of Colorado, for her opening statement.

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Ms. DeGette. Thank you, Mr. Chairman.

The country's vital infrastructure is under attack by actors with malicious intent. We are constantly seeing new headlines about vulnerabilities and cyberattacks against our systems and these attacks are becoming more frequent and more sophisticated.

In the health care sector, cyberattacks are particularly devastating, obviously because they can harm patients. Just last month, as the chairman mentioned, WannaCry ransomware crippled information systems around the world.

Hackers infected an estimated 200,000 computers in more than 150 countries. For the systems affected in the health care sector, the WannaCry attack meant that patients could not get their prescriptions at pharmacies and doctors even could not conduct surgery in their hospitals.

Cyberattacks in this sector are unfortunately not a new problem. For example, in 2015 more than 113 million medical records were reportedly compromised by a cyber intrusion.

In one widely publicized case involving a health insurance company, the personal information of nearly 79 million people was compromised.

Cyberthreats have become a new reality that we must all face. Information systems connected to the internet are vital to the operation of our economy and our government. While this interconnectedness is essential, it brings vulnerabilities and unique challenges.

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161 Just this last week, an HHS task force released a major report  
162 on how to address cyber vulnerabilities within the department and  
163 the health care sector.

164 This report identified many cybersecurity problems  
165 confronting the industry, the department and its multitude of  
166 health-related agencies.

167 These problems include a lack of cybersecurity expertise in  
168 the workforce, a reliance on outdated legacy equipment and a  
169 failure of certain organizations to address vulnerabilities that  
170 can harm patients.

171 Our witnesses from HHS today will speak about their ongoing  
172 efforts to address these threats both within the department and  
173 within the larger health care sector. I am also aware that HHS  
174 is working on a health care cyber center which I expect we will  
175 also address today.

176 As with our previous hearing on information-sharing analysis  
177 centers, I think it's so important that we look for solutions.  
178 But toward that end I also want to make sure that our solutions  
179 are measurable, efficient and effective in protecting our  
180 nation's networks and systems. Defending our nation's health  
181 care sector against a wide range of cyber threats requires a  
182 coordinated effort involving many players and approaches.

183 Because this is such an important area, we must continue to  
184 find ways to strengthen our cybersecurity systems, particularly  
185 relating to health care, including the problem of ransomware and

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186 the threat of insurance and medical records theft.

187 Mr. Chairman, I am looking forward to continuing to work  
188 closely on these issues with you as we do our work in this vital  
189 area, and I yield back.

190 Mr. Murphy. Thank you.

191 I now want to recognize the chairman of the full committee,  
192 Mr. Walden.

193 Mr. Walden. I thank the gentleman for having this very  
194 important hearing. This is -- this is really critical work we  
195 are all engaged in together.

196 Our lives continue to become more interconnected every day.  
197 This explosion of digital connectivity and information technology  
198 provides us with previously unimaginable convenience, engagement  
199 and capabilities and opportunities for innovation.

200 But for all its benefits, the digitization of our daily lives  
201 also comes with risk. The internet information technologies are  
202 inherently insecure. With time, motivation and resources,  
203 someone halfway around the world can find a way into almost any  
204 product and system. As the opportunities for attackers  
205 proliferate, the potential consequences of their actions are  
206 becoming more and more costly and severe. As more product,  
207 services and industries become connected to the digital world,  
208 we must acknowledge that the threat is no longer just data and  
209 information.

210 It is literally public health and safety. For the health

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211 care sector, these factors present a very, very real threat and  
212 equally daunting challenge.

213 As we witnessed with the recent WannaCry ransomware  
214 outbreak, portions of the National Health System in the U.K. had  
215 to turn away patients except for emergency care after vulnerable  
216 systems fell victim to the exploit.

217 WannaCry did not appear to be a targeted attack on health  
218 care but the potential consequence of the exploit on health care  
219 including patient safety was far more severe.

220 If this had been a more sophisticated exploit or a target  
221 attack on the health care sector, the consequences, as we all know,  
222 would have been far worse.

223 The health care sector is starting to grasp this new reality  
224 but as noted in the recent task force report, which we will discuss  
225 today, health care cybersecurity is in critical condition and  
226 requires immediate and aggressive attention, which brings us to  
227 today=s hearing.

228 Clearly, the sector needs leadership. HHS is uniquely  
229 situated to fill this void. Historically, the department has  
230 struggled to effectively embrace this responsibility but that  
231 trend cannot continue.

232 More recently, HHS has started to demonstrate a commitment  
233 and focus to addressing the rampant challenges in health care  
234 cyber security.

235 For example, the department=s actions in response to

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236 WannaCry ransomware coordinated through the newly established  
237 HCCIC have generally received praise from the sector.

238         This and other recent actions are positive signs that the  
239 department is heading in the right direction. But HHS has a long  
240 way to go to demonstrate the leadership necessary to inspire  
241 change across the sector.

242         It needs to be open and transparent about who is in charge  
243 and provide clarity about the roles and responsibilities not only  
244 internally but across the sector. The need to make sure that a  
245 small rural hospital not only knows exactly who to call but also  
246 has access to the resources and information to keep their patients  
247 safe.

248         This hearing provides an opportunity for HHS to provide some  
249 much-needed clarity about your internal structure as well as  
250 outline plans to elevate cybersecurity across the sector.

251         The sector is operating on borrowed time. Cyberthreat is  
252 spreading and left unchecked it will pose an increasingly greater  
253 threat to public health. So we appreciate your guidance, your  
254 testimony and your leadership on this.

255         We look forward to continuing the partnership to make sure  
256 that Americans are safe and secure wherever they are as it relates  
257 to the internet.

258         With that, I would yield time to the chairman of the Health  
259 Subcommittee, Dr. Burgess.

260         Mr. Burgess. Thank you, Mr. Chairman. I appreciate you

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261 yielding. Chairman Murphy, thank you for holding the hearing.  
262 It=s a timely topic and, of course, it has real physical  
263 consequences.

264 I am glad to see the recently published Health Care Industry  
265 Cybersecurity Task Force Report, which we have now had available.  
266 It=s produced by the Health Care Industry Cybersecurity Task Force  
267 and it=s a step in the right direction in improving our ability  
268 to prevent and respond to cybersecurity events.

269 It identifies the challenges posed by the health care and  
270 public health sector in maintaining security across unique  
271 platforms and devices that must work in concert to enable accurate  
272 and timely deliverance of patient care.

273 It=s even more important when we are considering that health  
274 care information or health information isn=t something that can  
275 be easily changed like a credit card number or a phone number.

276 The health information that is there is there for life and  
277 the integrity of the data is paramount to protecting patient  
278 safety.

279 I can only imagine the consequences of changing a person=s  
280 blood type, their allergy list or their disease diagnosis in a  
281 system that is relying upon that information to treat patients.

282 Overall, the health care and public health sector has  
283 improved its ability to manage cybersecurity events including the  
284 HHS= management of the WannaCry malware.

285 But the balance between security important data and

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286 protecting patient privacy needs continuous evaluation and  
287 adjustment. It is indeed a delicate balancing act.

288 Is there a point where information sharing creates more  
289 vulnerability in identifying entities as targets of attack? What  
290 happens when a health care organization limits the reporting of  
291 breaches of a sharing of information for fear of losing customer  
292 confidence or becoming a target.

293 How do we increase the availability of cybersecurity  
294 professionals in the health sector?

295 So I thank our witnesses for being here. I look forward to  
296 these discussions and it should be an eventful morning.

297 I yield back, Mr. Chairman.

298 Mr. Murphy. Thank you.

299 I now recognize Mr. Pallone for an opening statement of five  
300 minutes.

301 Mr. Pallone. Thank you, Mr. Chairman.

302 This committee has a long history of examining  
303 cybersecurity. The federal government continues to make  
304 progress towards addressing vulnerabilities in the health care  
305 sector. But it's clear that we still have a lot of work to do.

306 For example, the 2015 Anthem attack highlighted the need for  
307 all industry members to come together and find solutions to  
308 cyberthreats. More recently, the WannaCry ransomware attack  
309 demonstrated that cyberattacks are real-world consequences that  
310 can place patients at risk. And now with the interconnection of

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health records and a network of connected medical devices, the threat of cyberattacks on critical parts of our health care infrastructure is ever present.

While there is no single solution, it appears the Department of Health and Human Services is making some traction in assisting its own agencies and private stakeholders in confronting cyberthreats.

We must make sure that HHS has the resources it needs to develop and implement a robust cybersecurity strategy, something I hope we can explore today.

Just this past week, an HHS task force released a long-awaited report that describes challenges and makes recommendations to address cyberthreats facing the health care sector.

The task force determined that the health care sector must pay immediate and aggressive attention to cybersecurity. It also made a host of important recommendations to the health care industry and HHS to consider.

There are no easy solutions for the issues highlighted in this report. I look forward to hearing how the administration intends to address them and, importantly, how this committee intends to hold HHS accountable for progress or lack of progress on this issue.

I am also interested in learning about how HHS plans to develop its newly proposed Health Cybersecurity and Communication

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336 Integration Center and what challenges it faces in establishing  
337 and operating it.

338 And finally, Mr. Chairman, I am interested in understanding  
339 whether HHS has the budgetary resource it needs to appropriately  
340 address its cybersecurity responsibilities. This includes  
341 efforts to prevent cyberattacks.

342 It also includes the HHS= responsibilities to hold regulated  
343 entities accountable, especially when those entities fail to  
344 protect the sensitive health care information that we trust them  
345 to safeguard.

346 And in conclusion, Mr. Chairman, we need to up our game if  
347 we intend to defend against a growing number of cyberattacks  
348 facing the health care sector.

349 I am pleased to welcome our witnesses from HHS and I look  
350 forward to hearing from them about how HHS can enhance our health  
351 care cybersecurity.

352 But that being said, I believe we still have a long way to  
353 go to improve our preparedness in this area and I look forward  
354 to hearing how this committee intends to hold HHS accountable  
355 moving forward.

356 And I yield back. Thank you, Mr. Chairman.

357 Mr. Murphy. Thank you.

358 And so now I ask unanimous consent that the members= written  
359 opening statements be introduced into the record and without  
360 objection the documents will be entered into the record.

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361 [The information follows:]

362

363 \*\*\*\*\*INSERT 1\*\*\*\*\*



364 Now I=d like to introduce our panel of esteemed federal  
365 witnesses for today=s hearing. Mr. Steve Curren, director of the  
366 Division of Resilience Office of the Emergency Management Office  
367 of the assistant secretary for preparedness in response. Welcome  
368 here.

369 Mr. Leo Scanlon, deputy chief information security officer  
370 and designee for cybersecurity for HHS under the Cybersecurity  
371 Act of 2015, welcome.

372 And Mr. Emery Csulak -- did I say that right? Okay. Chief  
373 information security officer and senior privacy official, Centers  
374 for Medicare and Medicaid Services and co-chair of the Health Care  
375 Industry Cybersecurity Task Force.

376 Thank you all for being here today and providing testimony.  
377 We look forward to a very productive discussion on this.

378 Now, I understand, Mr. Curren, you=ll be the one presenting  
379 the initial testimony? But since you all may be asked to comment  
380 we will ask you all to be sworn in.

381 You=re all aware that since this committee is holding an  
382 investigative hearing when so doing it has the practice of taking  
383 testimony under oath. Do any of you have objections to taking  
384 testimony under oath?

385 Seeing none, the chair then advises you that under the rules  
386 of the House and rules of the committee you are entitled to be  
387 advised by counsel.

388 Do any of you desire to be advised by counsel during testimony

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389 today? And seeing none there, too. In that case, will you all  
390 please rise and raise your right hand. I'll swear you in.

391 [Witnesses sworn.]

392 Thank you very much. Seeing that all have answered in the  
393 affirmative you're now under oath and subject to the penalties  
394 set forth in Title 18 Section 1001 of the United States Code.

395 So members are aware, I mentioned that the department has  
396 submitted one written testimony on behalf of all three witnesses.  
397 Each plays a distinct cybersecurity role within the department.

398 They will each -- they will give a brief opening statement  
399 describing their roles and responsibilities. Mr. Curren will  
400 begin before turning to his colleagues. Each witness= testimony  
401 -- excuse me, opening statement is reflected in the department=s  
402 written testimony.

403 Mr. Curren, you are recognized for an opening statement.

STATEMENTS OF STEVE CURREN, DIRECTOR, DIVISION OF RESILIENCE,  
OFFICE OF EMERGENCY MANAGEMENT, OFFICE OF THE ASSISTANT SECRETARY  
FOR PREPAREDNESS AND RESPONSE, U.S. DEPARTMENT OF HEALTH AND HUMAN  
SERVICES; LEO SCANLON, DEPUTY CHIEF INFORMATION SECURITY OFFICER,  
U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES; EMERY CSULAK, CHIEF  
INFORMATION SECURITY OFFICER AND SENIOR PRIVACY OFFICIAL, CENTERS  
FOR MEDICARE AND MEDICAID SERVICES, CO-CHAIR, HEALTH CARE  
INDUSTRY CYBERSECURITY TASK FORCE

STATEMENT OF MR. CURREN

Mr. Curren. Good morning, Chairman Murphy, Ranking Member  
DeGette and distinguished members of the House Energy and Commerce  
Subcommittee on Oversight and Investigations.

I am Steve Curren, director of the Division of Resilience  
within the Office of Emergency Management in the Office of the  
Assistant Secretary for Preparedness and Response, or ASPR.

Today I will be discussing ASPR's functions and  
cybersecurity mission within the Department of Health and Human  
Services.

ASPR was authorized by the 2006 Pandemic and All-Hazards  
Preparedness Act and works within HHS with federal, state, tribal,  
territorial and local partners to protect the public from the  
health and medical impacts of emergencies and disasters.

ASPR's responsibilities are broad and include overseeing  
advanced research development and procurement of medical

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countermeasures leveraging -- leading federal public health and medical response efforts under the national response framework. Serving as the federal lead agency for the health care and public health sector under the National Infrastructure Protection Plan and providing integrated policy and strategic direction under the national health security strategy.

ASPR=s Office of Emergency Management is responsible for many of ASPR=s core preparedness, response and disaster recovery capabilities.

OEM provides communities with the resources necessary to support disaster planning efforts and ensures that the health care system can respond to a wide variety of emergencies.

Within OEM, I am responsible for ASPR=s continuity of operations program which works to ensure the resilience of HHS= systems and programs in the faces of emergencies and disruptions.

I am also responsible for the critical infrastructure protection program which focuses on the security and resilience of private sector health care partners.

ASPR works with all levels of government and the private sector to mitigate risk from all hazards including physical and cyberthreats. Over the past five years, few infrastructure issues have challenged the health sector more than the proliferation of cyberattacks.

Within our modern system of health care, nearly everything is connected through a system of systems including dialysis

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454 machines and electronic health records.

455           Cyber is both a direct and a secondary threat. It could  
456 impact everyday patients in health care delivery by locking down  
457 access to important medical information and lifesaving equipment.

458           It can also exacerbate an existing emergency where hospitals  
459 and emergency first responders are already working a frantic pace  
460 to save lives. It cannot afford to lose access to communications  
461 or risk further delays in their response.

462           Since 2014, the sector has been hit with a wave of large  
463 health care information breaches, compromising the personal  
464 information of hundreds of millions of individuals. In 2016, we  
465 started to see the rise of health care ransomware attacks. In  
466 these attacks, computer malware is used to lock up the files of  
467 health care organizations while criminals demand payment in  
468 exchange for restored access.

469           These attacks shifted the threat landscape considerably as  
470 they no longer threaten just personal information but the ability  
471 of health care organizations and thus communities to provide  
472 patient care.

473           When the massive WannaCry ransomware attack hit dozens of  
474 hospitals in the United Kingdom just a few weeks ago, ASPR took  
475 immediate action to engage broader U.S. health sector and ensure  
476 that IT security specialists had the necessary information to  
477 protect against, respond to and report intrusions.

478           This effort included calls with up to 3,100 participants

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each, daily messages with answers for frequently asked questions, resources from other federal departments and agencies and guidance on how to report attacks.

Beyond specific threats, ASPR and our partners have decided to organize a joint public and private sector working group for cybersecurity to implement national policies such as the National Institute for Standards in Technology in the cybersecurity framework and the National Cyber Incident Response Plan.

We have also benefited from the Cybersecurity Act of 2015 which provided the sector with a structure to drive its continued engagement in cybersecurity.

ASPR led HHS= efforts to establish and support the Health Care Industry Cybersecurity Task Force, which has completed its term and recently delivered its report to Congress.

In closing, HHS= cybersecurity mission is a national response requiring broad collaboration. The department is committed to safe, secure and resilient cyber environment that promotes cybersecurity knowledge, innovation, confidentiality and privacy in collaboration with government, private sector and international partners.

While the cyber realm is ever evolving and presenting new challenges, please be assured that HHS and our partners are moving in the right direction.

[The prepared statement of Mr. Curren follows:]

504

\*\*\*\*\*COMMITTEE INSERT \*\*\*\*\*

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505 Mr. Murphy. All right. Thank you very much.

506 I will now recognize myself for some opening questions for  
507 five minutes. Oh, we are going to hear from the other ones? All  
508 right. I am sorry. I didn=t realize how much this was going to  
509 go.

510 Mr. Scanlon.



511 STATEMENT OF MR. SCANLON

512

513 Mr. Scanlon. Thank you.

514 Good morning, Chairman Murphy, Ranking Member DeGette and  
515 members of the subcommittee. I am Leo Scanlon, deputy chief  
516 information security officer and the designated senior advisor  
517 for health care, public health sector cybersecurity at the  
518 Department of Human Services -- Health and Human Services.

519 I am also the designated senior advisor of health -- public  
520 health. I already said that. I will be discussing the agency's  
521 response to CISA, in particular the designation of senior advisor  
522 and the establishment of the Health Care cybersecurity  
523 Communications Integration Center -- you can say that three times,  
524 too -- otherwise known as the HCCIC.

525 Both of these actions will support enhanced public-private  
526 partnerships through regular engagement and outreach to the  
527 sector. These actions are consistent with Executive Order 13800  
528 and are a direct response to the Cybersecurity Act of 2015.

529 These critically important steps will leverage HHS  
530 capabilities and outreach to help the HPH sector improve its  
531 preparedness for and response to security incidents now and into  
532 the future.

533 The senior advisor of cybersecurity will align and  
534 coordinate the internal stakeholders to collaborate with the  
535 private sector, the U.S. Department of Commerce's National

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Institute of Standards and Technology, NIST, and the U.S. Department of Homeland Security, DHS, to develop voluntary guidelines to support adoption of the NIST cybersecurity framework and to support the HPH sector risk reduction and resilience.

DSA is the chair of the HHS Cybersecurity Working Group, which is the principal forum for coordinating cybersecurity support and response across all HHS operating divisions and staff divisions.

DSA and the CSWG are tasked with the job of establishing a one stop point of access to HHS cybersecurity capabilitiesB a cyber 311 that will allow access to HHS for the entire sector, especially the small and rural provider entities who rarely interact with the federal government and who need sector-specific mitigation strategies, guidance and follow-on assistance in response to cyberattacks.

The HCCIC is designed to be the central location for HPH information sharing and will allow HHS to extend internal threat sharing and analytic capability to our federal partners, law enforcement and intelligence partners, the National Cybersecurity and Communications Integration Center, the NCCIC, and our private sector partners at the NHISAC and other ISALs.

The most important outputs of the HCCIC, though, are products and guidance that are human consumable by entities that do not have the sophisticated technology that supports machine speed

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reaction to threat indicators.

Smaller entities need information that they can use no matter what their capabilities are. This includes basic cybersecurity guidance, how-to instructions as well as assistance in contacting specialists within HHS and assistance in accessing federal capabilities such as those that are available through the DHS and the NCCIC.

In the recent WannaCry mobilization, HCCIC analysts provided early warning of the potential impact of the attack and HHS responded by putting the secretary's operation center, the SOC, on alert. This was the first time that a cyberattack was the focus of such a mobilization and HCCIC was able to support ASPR's interactions with the sector by providing real-time cyber situation awareness, best practices guidance and coordination with US-CERT and the IRT teams at the NCCIC.

Sector calls generated by ASPR reached thousands of health care organizations and providers. One call had more than 3,000 lines open and continued for more than two hours of questions and discussion.

The experiences provided a rich set of lessons learned and has highlighted the disturbing reality that the true state of cybersecurity risk in the sector is under reported by orders of magnitude and the vast majority of the HPH sector is in dire need of cybersecurity assistance.

The SA, the HCCIC and the CSWG have the long-term task of

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586 assisting the sector to shift from a compliance-oriented security  
587 posture to a dynamic risk management approach.

588         This means different things at different levels of the sector  
589 but one thing is clear. The regulatory mechanisms that served  
590 to call attention to the need to protect PHI and PII are  
591 fundamentally challenged by the technical capabilities of threat  
592 actor who operate at scale and machine speed and who have brought  
593 the specter of life-threatening impact from a cyberattack into  
594 the operating rooms and ambulances of our providers and first  
595 responders.

596         HHS is prepared to play a leading role in addressing that  
597 challenge.

598         [The prepared statement of Mr. Scanlon follows:]

599

600 \*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

STATEMENT OF MR. CSULAK

Mr. Csulak. Thank you.

Chairman Murphy, Ranking Member DeGette and members of the subcommittee, thank you for the opportunity to discuss the work of the department=s Health Care Industry Cybersecurity Task Force.

In addition to my role as the chief information security officer and senior official for privacy at the Centers for Medicare and Medicaid Services, for the last year I served as the government co-chair of the task force.

The Cybersecurity Act of 2015 required the Department of Health and Human Services to convene top subject matter experts from across industry and government to address the growing challenges of cybersecurity attacks targeting health care.

The task force spent a year receiving and reviewing input from experts from inside and outside the health care industry and the general public in order to develop recommendations and action items for a congressional report that was released earlier this month.

I want to thank the 21 task force members including 17 from private sector organizations whose contributions made this report possible based on their passion to improve the sector.

The task force worked diligently to balance the industry and government perspectives. The task force worked diligently to

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626 balance the industry and government perspectives.

627       The task force discussions resulted in the development of  
628 six imperatives along with cascading recommendations and action  
629 items.

630       All of these reflect the need for a unified effort among  
631 public and private sector organizations of all sizes and across  
632 all subsectors to work together to meet an urgent challenge.

633       They also reflect shared understanding that for the health  
634 care industry cybersecurity issues are, at the heart, patient  
635 safety issues.

636       I want to take this opportunity to provide a brief overview  
637 of some of the report=s most important recommendations.

638       These are the steps that can be taken within the industry  
639 as well as by the federal government including recommendations  
640 for HHS to consider in addressing the cybersecurity challenges  
641 facing the sector.

642       A few key themes emerged from these recommendations. First,  
643 the task force identified the need for cybersecurity leadership.

644       The report outlines the importance of leadership to drive  
645 organizational change and ensure adequate visibility across  
646 organizations. For HHS cybersecurity leadership focuses on  
647 aligning programs to ensure a consistent message and standards  
648 across HHS with engagement of industry.

649       The task force also addresses the need to reduce burden for  
650 small and rural providers who may have additional challenges in

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651 meeting HHS regulations.

652 For industry, leadership focuses on communication with  
653 executives, driving change and taking a comprehensive look at the  
654 threats facing an organization.

655 Industry need cybersecurity governance models that work for  
656 organizations of all sizes and provider types.

657 Second, the task force report highlights the importance of  
658 protecting medical devices and other health IT. Medical devices  
659 and electronic health records expand the attack service which can  
660 directly impact patient safety.

661 Some issues raised in the report including taking a total  
662 life cycle approach to recommending a mix of regulation,  
663 accreditation, information sharing and voluntary development and  
664 adoption of standards to promote system security from product  
665 design and development through product end of life.

666 Third, the task force found that HHS needs to make the  
667 discussion, oversight and engagement around cybersecurity  
668 clearly and consistently messaged. This includes completing  
669 work on a voluntary cybersecurity framework established in the  
670 Cybersecurity Act of 2015 and harmonizing regulations and  
671 guidance as part of HHS= sector engagement.

672 By speaking the same language, barriers to education and  
673 improvement of the sector will be lowered. It is clear to members  
674 of the task force that we must consider the unique needs of small  
675 and rural organizations as well as new entrants and innovators.

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676           These organizations can have different and sometimes more  
677 acute needs than large organizations who have already invested  
678 in cybersecurity and infrastructure. Harmonizing regulations  
679 can help to reduce burden on these organizations in particular  
680 and thus increase patient safety.

681           Finally, the task force calls for continuing to strengthen  
682 public-private partnerships. In particular, the task force  
683 calls for the establishment of an ongoing public-private forum  
684 similar to the task force to further the discussions of health  
685 care industry cybersecurity as the industry evolves.

686           Task force members found this engagement with federal  
687 partners beneficial to understand our common cybersecurity  
688 challenges and concerns.

689           These efforts will also enable an ongoing conversation and  
690 develop strategies to identify resources and incentives that  
691 would help to overcome the barriers faced by small and rural  
692 organizations.

693           While much of what we recommend will require hard work,  
694 difficult decisions and commitment of resources, we will be  
695 encouraging and unified by our shared values as health care  
696 industry professionals in our commitment to providing safe  
697 high-quality care.

698           Thank you for the opportunity to share the task force work  
699 and I am happy to answer any of your questions.

700           [The prepared statement of Mr. Csulak follows:]

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\*\*\*\*\*COMMITTEE INSERT\*\*\*\*\*

703

Mr. Murphy. I thank all of our panel for your statements.

I want to read the opening sentence here from the task force -- the Health Care Industry Cybersecurity Task Force -- where it says the health care system cannot deliver effective and safe care without deeper digital connectivity.

If the health care system is connected but insecure, this connectivity could betray patient safety, subjecting them to unnecessary risk and forcing them to pay unaffordable personal costs.

So that end, Mr. Curren, want to highlight why this is important? In your opinion, what is at stake when health care information is compromised by a cyber threat? How bad does this get?

Mr. Curren. Thank you very much for the question.

It is an issue that's very important to us and that we take very seriously because the risk of attacks to the health care infrastructure from cyberattacks really is confidence in the health care system in general and we think that patients should have confidence in the system to provide care, also to provide protection to their information.

You asked about the need to balance two very important concerns. One concern is the use of electronic medical records and other health technologies to advance care, to link information, to provide medical devices that provide excellent care to individuals as well as provide the security to keep those

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729 systems and those devices safe and that is the commitment I think  
730 that the task force made as we were involved in their discussions  
731 was to advance those issues together because really we can=t do  
732 one without the other. We need to rely on these technologies.  
733 We also need to focus on keeping them safe.

734 Mr. Murphy. But along these lines is it -- in terms of what  
735 could happen here, whether it is like what happened in the United  
736 Kingdom -- blocking a system from working entirely so voluntary  
737 surgery and others and emergency care was all diverted. But it  
738 could also affect things like information about what is in a  
739 medical records, medications a person may take and it could also  
740 interfere with the functions of a wide range of medical devices.  
741 Am I clear on that?

742 Mr. Curren. There are potential -- there=s always potential  
743 for patient safety issues related to cybersecurity incidents and  
744 we like to put that into context.

745 We don=t think the patient should be -- should outweigh the  
746 concern of cybersecurity risk when they go seek care. We do  
747 believe the benefits of care, the benefits of these devices and  
748 these systems greatly outweigh the risks that are there.

749 However, we do need to take the risks seriously. What I can  
750 say is that HHSBwe are set up to respond to both the cyber impacts  
751 of these attacks as well as the potential physical impacts,  
752 impacts on health care. Through our program ASPR, just to give  
753 the WannaCry example as one example, we worked very closely with

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Leo=s organization and the HCCIC. They were active in getting the latest information on the threat, analysing it, understanding what the issues were and communicating that to our partners in the health care sector.

Meanwhile, we were working out of the secretary=s operation center and prepared for any type of health care impact that there might have been to provide resources that ASPR has to assist in those responses.

Mr. Murphy. And I appreciate it. I will get to that in a minute and you did play a vital role here. But I=m concerned about that information about the various roles and capability of HHS.

Has it been adequately conveyed to industry yet? And this has got to be partnership -- a public-private partnership. So we are aware you created the HCCIC and to serve as the nexus for cybersecurity efforts.

But to date there has been little public information about this new center to start. So why did HHS decide to establish the HCCIC? Did someone recommend this and is there a reason for this recommendation?

Mr. Curren. Let me start out, then I will hand it to my colleague, Leo Scanlon. We have had a partnership with the private sector for many years in critical infrastructure protection since Homeland Security Presidential Directive 7 in 2003 started these infrastructure partnerships across 16 critical infrastructure sectors.

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779           What has changed in the past several years is the importance  
780 of the cyberthreat and HHS is evolving to meet that threat.

781           So we work very closely with our partners both internal to  
782 HHS as well as externally. So, Leo, maybe expand on the HCCIC.

783           Mr. Scanlon. Yes, sir.

784           The impulse to establish the HCCIC, continuing on what Steve  
785 just pointed out, is really based on the evolution of the way  
786 defense against these threats is carried out.

787           We've learned over the past few years that the machine  
788 generated information that we now have from our log files and our  
789 firewalls and other defensive devices is an enormous firehose of  
790 information and ultimately has to be analysed by people -- by  
791 analysts who are specialists who can interpret, understand and  
792 put context to this information and that's best carried out in  
793 a collective environment where people sit together and can  
794 communicate in real time and be in touch with their external  
795 organizations and other partners and this is what the NCCIC floor,  
796 for example, is all about.

797           That's what it does at a national level. It allows different  
798 sectors and organizations and intelligence organizations to be  
799 present, communicate and share information.

800           The HCCIC is designed to do that both across the HHS operating  
801 divisions to knit together the very formidable capabilities that  
802 exist in each of our operation divisions of CMS, CDC, NIH and put  
803 them together in real time and then provide real-time links to

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804 our partners externally and that=s the fundamental purpose of it.

805 Mr. Murphy. Who recommended this?

806 Mr. Scanlon. Recommended, we -- it was our internal  
807 decision to take the existing capabilities that we have that were  
808 set up in a disparate fashion, unite them in a common place and  
809 take this model of threat sharing which has now become an industry  
810 standard and apply it to the challenge that we face.

811 So it was an immediate response in that sense to the CISA  
812 Act requirement that we develop the capacity to share threats in  
813 real time with the sector.

814 So that=s the capability that the HCCIC provided and that  
815 was the form that we determined was the most efficient and  
816 effective way to do that.

817 Mr. Murphy. Okay. Thank you.

818 Ms. DeGette, five minutes.

819 Ms. DeGette. Thank you.

820 As I mentioned in my opening statement, the WannaCry  
821 cyberattack was really a wake-up call. So I want to talk for a  
822 minute about what we are doing to prevent and to respond to these  
823 types of attacks in the health care sector.

824 As we heard, HHS is launching the HCCIC, or the Cyber Center,  
825 and in your testimony you said that HCCIC was an integral part  
826 of ASPR=s coordinated response to the WannaCry incident.

827 So I just wanted to ask you, Mr. Curren, as you stated and  
828 also I noted in my opening the Cyber Center was established to

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829 address gaps in cybersecurity and also to help prevent attacks  
830 like this WannaCry attack. Is that right?

831 Mr. Curren. And this would be the HCCIC.

832 Ms. DeGette. Yes.

833 Mr. Curren. Yes, and Leo could talk more to that. Within  
834 ASPR we coordinate for the WannaCry incident response. Whether  
835 it=s a -- it=s a hurricane, tornado or cyber event, we coordinate  
836 for the department. But the HCCIC was one capability within that  
837 for this cyberattack to coordinate the sharing of cyber  
838 information and response.

839 Ms. DeGette. So how do you think that this will happen? How  
840 do you think the Cyber Center can be effective in protecting HHS=  
841 health networks and systems? Go ahead, Mr. Scanlon.

842 Mr. Scanlon. Thank you. Yes. So the value of the HCCIC  
843 is evidenced in the way we were able to work in the WannaCry  
844 incident.

845 There=s a broad and very deep communications capability that  
846 ASPR has to the sector. We were able to get another component  
847 of information gathered through cybersecurity specialists to  
848 provide situational awareness, which is the most important thing  
849 in a dynamic event.

850 Fact are very hard to grab when an attack like this is going  
851 on. Attribution, who is doing it, what their intentions are and  
852 exactly what=s going to happen next all disappears on a fog of  
853 activity.

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854 We were attempting at all times to bring the best knowledge  
855 that was available across the sector from US-CERT, from the NCCIC,  
856 from our sector partners and communicate that out.

857 That=s a capability that did not exist in a formalized way  
858 until we created the HCCIC and the intention of the HCCIC was to  
859 support the ASPR capability. They have all-hazards response.  
860 So this is a cybersecurity function that we wanted to bring into  
861 the all-hazards response capability.

862 Ms. DeGette. Uh-huh. Now, can you talk -- can you talk  
863 about FDA=s information technology systems? Is that something  
864 you can talk about?

865 Mr. Scanlon. I can tell you about what we did to communicate  
866 FDA=s and the most important concerns that were raised in the --

867 Ms. DeGette. Okay. Yes. Well, you know, there was this  
868 GAO report last August that said there were major weaknesses in  
869 the FDA=s information technology.

870 So what I was wondering is, number one, why were the FDA=s  
871 IT systems allowed to be so plagued with the security issues and,  
872 number two, what=s the agency doing about it?

873 Mr. Scanlon. I think that it would be more appropriate for  
874 us to take that back and get back to you with specific. None of  
875 us are from the FDA.

876 Ms. DeGette. Right.

877 Mr. Scanlon. So it would be not very --

878 Ms. DeGette. Okay. So you don=t know -- you don=t know the

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879 answers to that?

880 Mr. Scanlon. I couldn't give you an authoritative answer.

881 Ms. DeGette. So from the HSS perspective though, you didn't  
882 have very good visibility into what was happening over there. Is  
883 that right? At the FDA.

884 Mr. Scanlon. You're referring to the GAO audit and the  
885 findings of the audit?

886 Ms. DeGette. Right. Yes.

887 Mr. Scanlon. This is not in any of our purview, honestly.

888 Ms. DeGette. Okay. If you can get back to me that would  
889 be good because --

890 Mr. Scanlon. We would be very happy to do that.

891 Ms. DeGette. -- you know, what we worry about is -- what  
892 we really worry about is that cybersecurity attacks they're going  
893 to come throughout all the government. They're not just going  
894 to focus on one agency. And so that's why we have to really --

895 Mr. Scanlon. Well, ma'am, I could say to you though that  
896 the -- one of the functions of the HCCIC has been to enhance the  
897 existing capabilities across our operating divisions, which are  
898 formidable and are -- have been very effective in many, many ways.

899 And so this is where the agency is taking steps constantly  
900 to evaluate, assess and improve our cybersecurity capabilities  
901 in all of our operating divisions.

902 Ms. DeGette. Okay. Do you think there's more we could be  
903 doing?

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904 Mr. Scanlon. There=s always more we could be doing.

905 Ms. DeGette. And what do you need from us to do more?

906 Mr. Scanlon. I think we need, as always -- I don=t have to  
907 say we are always looking for funds to help us support these  
908 activities. We --

909 Ms. DeGette. So if you want funds to support the activities  
910 what would be helpful to us is to know what those activities you  
911 need additional funding for.

912 Mr. Scanlon. We could certainly get back to you with  
913 specifics.

914 Ms. DeGette. Great. Okay. Thank, Mr. Chairman. I yield  
915 back.

916 Mr. Murphy. Thank you.

917 I now recognize the vice chair of the committee, Mr.  
918 Griffith, for five minutes.

919 Mr. Griffith. Thank you very much, Mr. Chairman. Thank you  
920 all for being here this morning. I am curious, as Congresswoman  
921 DeGette was talking about the FDA and, you know, she=s right.  
922 They=re not going to just try one door. They=re going to try all  
923 the doors. So I would hope that they would be included.

924 Maybe you all can help me out. I=m listening to all these  
925 initials being thrown around and this is not an area I=m  
926 comfortable with. HCCIC versus Health Care in Industry  
927 Cybersecurity Task Force that was called upon to be set up as a  
928 part of the Cybersecurity Act. What are the differences in those

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929 two?

930 Mr. Scanlon. Yes. So the HCCIC is simply an easy way to  
931 say the large mouthful. The HCCIC is an organization within HHS  
932 and it is responding to, as I mentioned, the specific -- in  
933 specific the recommendations in the CISA Act, which asked the --  
934 the Cybersecurity Information Sharing Act -- which requested the  
935 agency or required the agency to establish the ability to do real  
936 timesharing of threat indicators with the sector. So that is what  
937 the HCCIC does with respect to the CISA Act.

938 Mr. Griffith. All right. And then the -- any of you all  
939 can answer this who feels comfortable with it -- but the Health  
940 Care Industry Cybersecurity Task Force that was supposed to be  
941 set up, what is -- what is that doing and how often do they meet?

942 Mr. Csulak. Okay. The Health Care Industry Cybersecurity  
943 Task Force, again, was established as part of the Cybersecurity  
944 Act of 2015. It had a very segmented period of time.

945 It was literally by the legislation to only last 12 months.  
946 So we completed our work earlier this year and during that time  
947 we met at least monthly with both industry as well as the  
948 government to, you know, inform and advise the 21 members of the  
949 task force in the creation of this report of really looking and  
950 analysing the challenges facing health care sector in --

951 Mr. Griffith. And we appreciate that the report came out.  
952 So you're telling me that you met at least 12 times during the  
953 year, maybe some more?

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954 Mr. Csulak. A lot more than 12 but the minimum was 12.

955 Mr. Griffith. Could you get -- okay. Could you get us a  
956 number on how many times you met?

957 Mr. Csulak. It is actually in the appendices of the report.

958 Mr. Griffith. In the -- excellent.

959 Mr. Csulak. You will see every single meeting that we had  
960 and who attended it.

961 Mr. Griffith. All right. I appreciate that.

962 And can you tell me how the representatives were selected  
963 to be on the task force from both the health care sector and from  
964 the federal government?

965 Mr. Csulak. We did an open call of interested individuals  
966 for that. I believe Mr. Curren actually arranged the scheduling  
967 of all of that but we had over a hundred candidates who were  
968 self-nominated or nominated by their organizations.

969 We formed a joint working group with NIST, DoD, DHS and HHS  
970 to look at the candidates and find candidates who represented  
971 cyber security practitioners in the field.

972 We identified four federal -- each agency, each of those four  
973 agencies I just mentioned nominated one person to represent the  
974 agency and then those representatives along with members on the  
975 task force identified 17 of the over a hundred candidates who were  
976 interested in the positions who had clear cybersecurity roles as  
977 part of their duties, were not just executives but were actual  
978 practitioners and would represent various parts of the industry.

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979           If you look at the legislation we needed to represent certain  
980 fields. We wanted to look at medical devices. We wanted to look  
981 at providers.

982           There was a range of capabilities that we wanted to deal with  
983 so that=s how they were done. We narrowed those down. We made  
984 sure that all of those members could be committed for a year and  
985 that=s how it started.

986           Mr. Griffith. Well, I appreciate that. Now, they came out  
987 with a number of recommendations and six imperatives and curious  
988 what action is now being taken to see that those six imperatives  
989 are addressed.

990           Fortunately, it=s in the stuff that we have and the first  
991 one is define and streamline leadership, governance and  
992 expectations for the health care industry cybersecurity. What  
993 steps do we take now? We=ve got a report. What=s next?

994           Mr. Csulak. When we look at it, basically the department,  
995 HHS, has had representatives throughout the course of this  
996 activity supporting the program.

997           So although I was the government co-chair for the activities,  
998 each of those organizations have leadership representatives.

999           They have membership on the Cybersecurity Working Group  
1000 established within HHS and, you know, everybody is basically  
1001 looking at those. And the task force recognizes there=s a lot  
1002 there, more than we could ever possibly do in one year, and really  
1003 each of the groups are now stepping back and saying, you know,

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1004 how do we prioritize these, where do we find the resources for  
1005 these and that is kind of an ongoing conversation that=s going  
1006 through the Cybersecurity Working Group.

1007 Mr. Griffith. And as that conversation goes on, as Ms.  
1008 DeGette said earlier, you all need to let us know what we need  
1009 to do, whether it=s legislation or otherwise, so that we can assist  
1010 you in that because making sure that, as you heard from some of  
1011 the other questions, making sure that our health records are  
1012 secure and making sure that we don=t have folks who block us from  
1013 getting to those records or using them for ill purpose is extremely  
1014 important to all of us.

1015 Thank you, and I yield back.

1016 Mr. Murphy. Thank you.

1017 I now recognize Ms. Castor for five minutes.

1018 Ms. Castor. Thank you, Mr. Chairman, and thank you to all  
1019 of you for helping to keep Americans= health records safe and  
1020 secure.

1021 It=s clear the health care sector faces increasing threats  
1022 from cyberattacks and I=m concerned about the implications for  
1023 sensitive patient information.

1024 HHS has a large role to play in protecting those records.  
1025 Mr. Csulak, the Centers for Medicare and Medicaid Services is  
1026 responsible for the Medicare and Medicaid electronic health  
1027 records and I understand CMS helps eligible entities adopt and  
1028 use electronic health records. Is that right?

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1029 Mr. Csulak. How do we help them do that? Again, we  
1030 published some standards that we do when we are working with any  
1031 organization. You know, the level and engagement, you know, is  
1032 interpreted to, you know, what=s appropriate for the various  
1033 programs.

1034 Ms. Castor. So entities that handle electronic health  
1035 records must comply with federal privacy and security  
1036 regulations. It=s crucial that companies are held accountable  
1037 when they fail to protect consumers= private health information.  
1038 Do you share that view?

1039 Mr. Csulak. Absolutely.

1040 Ms. Castor. And when a cyberattack occurs and private  
1041 health information is compromised, HHS has the power to  
1042 investigate. Specifically, the HHS Office for Civil Rights is  
1043 empowered to investigate how the breach happened and demand  
1044 changes to that it doesn=t happen again.

1045 Is that correct?

1046 Mr. Csulak. Correct, for privacy breaches under HIPAA.

1047 Ms. Castor. So do you know what is in the president=s  
1048 proposed budget for the HHS Office of Civil Rights?

1049 Mr. Csulak. I can=t speak outside of CMS and the task force.  
1050 I don=t know if one of my other speakers could speak to that.

1051 Ms. Castor. Well, that=s okay. I looked it up. The  
1052 president is proposing a budget cut of more than \$6 million to  
1053 HHS= enforcement of civil rights and health privacy information.

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1054           Would these proposed make it more difficult for HHS to take  
1055 action against entities that fail to safeguard electronic health  
1056 records?

1057           Mr. Csulak. You know, I think it's a tough question. Let  
1058 me answer it from the task force perspective. The task force  
1059 perspective recognized that this is going to be an ongoing  
1060 challenge and how do you actually have an oversight role that  
1061 scales to the size of this industry with so many providers and  
1062 health care small businesses out there.

1063           You know, can any one organization really scale up to be an  
1064 oversight body for over a million providers in the United States?

1065           So the task force approach said look, regardless of the money  
1066 and the resources of OCR -- Office of Civil Rights, as you  
1067 mentioned -- you know, HHS probably needs to step back and take  
1068 other -- look at other ideas.

1069           What are some of the other private partnerBprivate-public  
1070 partnerships that we can look at? Can we look at models like the  
1071 SEC=s stuff for audit account financing?

1072           How do we bring in other audit models? How do we look at  
1073 other ways to do this without just relying on a large audit body  
1074 within the organization.

1075           So the task force approach really looks at saying regardless  
1076 of the money there how do we leverage the private industry to more  
1077 effectively, you know, contribute to that knowledge base and to  
1078 that body of work.

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1079 Ms. Castor. But you=d have to say that when you take cops  
1080 off the beat that=s not helpful in holding companies accountable  
1081 that have kind of violated their responsibility for privacy  
1082 records.

1083 I realize you=re not with the HHS Office of Civil Rights but  
1084 here is the budget justification about the proposed cuts and it  
1085 says the budget reduction would require decreases in authorized  
1086 regional investigators which would limit OCR=s capacity to  
1087 resolve complaints and perform other related agency functions  
1088 such as investigations and compliance reviews.

1089 So isn=t that the impression you get that cops would be taken  
1090 off the beat here?

1091 Mr. Csulak. You know, I really can=t say, you know, around  
1092 the budget formulation for that activity. All I can say is that  
1093 from the task force perspective there are options out there and  
1094 we should be exploring those.

1095 Ms. Castor. Well, according to an article from the HIPAA  
1096 journal it reports that, quote, AThose budget cuts could affect  
1097 the agency=s HIPAA enforcement activity."

1098 So as we focus on the role of HHS and health care  
1099 cybersecurity we must not forget the important role that HHS plays  
1100 in enforcement privacy and security rules.

1101 I would -- I would hope that if the administration is serious  
1102 about health care cybersecurity it would make sure that it has  
1103 all the resources necessary for its cybersecurity

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1104 responsibilities.

1105 Thank you very much. I yield back.

1106 Mr. Murphy. You know, just -- I'm curious. If you had that  
1107 information from the HIPAA journal and you could share that with  
1108 me I'd appreciate that. Thank you very much.

1109 Ms. Brooks, you are now recognized for five minutes.

1110 Ms. Brooks. Thank you, Mr. Chairman.

1111 Mr. Curren and Mr. Scanlon, I'm curious what lessons have  
1112 been learned since the WannaCry attack. What lessons are -- how  
1113 are you taking the lessons learned and internalizing them within  
1114 HHS, Mr. Curren, since the WannaCry attack?

1115 Mr. Curren. Yes, I can -- I can mention too and I'm sure  
1116 we could talk about many that we learned in the WannaCry attack.

1117 We are an emergency response organization in ASPR. We learn  
1118 lessons from every emergency we respond to and this is no  
1119 different. We are actually going through an after action  
1120 process, which we call it, to get information on what we can  
1121 enhance for the next response.

1122 Two things I think we did that I think worked very well and  
1123 we want to repeat. One is operating a cybersecurity response as  
1124 an emergency response that marshalled the resources of the entire  
1125 department, and the secretary's leadership in that was  
1126 instrumental to working this issue out of the secretary's  
1127 operation center sitting next to Leo and working calls with  
1128 thousands of industry participants, getting information from

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1129 other departments and agencies really was a helpful way to do it.

1130 I think the second is that the public-private partnerships  
1131 are essential and we can't just stand them up during emergencies.  
1132 We say in emergency management that disaster is not the time to  
1133 exchange business cards and that's no different for a cyber  
1134 incident.

1135 We were able to exchange information with partners who  
1136 trusted us and we trusted them with the information. We don't  
1137 want to have to wait to have the final polished version of every  
1138 piece of information we want to share before we share it. It's  
1139 uncomfortable.

1140 But in instances like -- instances like this when time is  
1141 of the essence, when systems needed to be patched we needed to  
1142 get information out there immediately and having those trusted  
1143 partnerships, being open, having a call on the first day with our  
1144 partners really helped us to establish those relationships and  
1145 get that information out there.

1146 Ms. Brooks. And before Mr. Scanlon answers, are there any  
1147 rules or regulations or policies within HHS that are impeding  
1148 those lessons learned?

1149 Mr. Curren, any -- anyBbefore we go on to Mr. Scanlon, are  
1150 there any things that are impeding or obstacles to those lessons  
1151 that you've learned?

1152 And with respect to public-private partnerships, that was  
1153 the reason that in 2003 your office was created, if I recall --

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1154 Mr. Curren. Yes.

1155 Ms. Brooks. -- was to create those public-private  
1156 partnerships across all sectors between government and industry.  
1157 And so it should just -- it should just be how we operate, shouldn't  
1158 it?

1159 Mr. Curren. That is correct, and that is something we've  
1160 been doing for a long time. I think if anything's evolved in the  
1161 past several years it's just the number of organizations involved  
1162 in cybersecurity that we've continued to partner with and we've  
1163 really grown that part of the partnership and that really came  
1164 into play with WannaCry.

1165 In terms of regulations or challenges that we are going to  
1166 address, we are working through a number of issues that we think  
1167 can help enhance the response and some of the matters we are  
1168 looking at include protections for information and they come into  
1169 the federal government.

1170 We know the private organizations don't always look to the  
1171 federal government as the first place to share and they're  
1172 concerned about legal liability with doing so.

1173 Even when we have protections in place it's essential that  
1174 we are able to communicate those protections in real time so they  
1175 can understand them, appreciate them and be compelled to or feel  
1176 free or feel open to share that information with us.

1177 So that's something that we need to do because it's a  
1178 voluntary mechanism going to the federal government in most cases

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1179 for this type of sharing.

1180 So the protections that were provided in the Cybersecurity  
1181 Act I think take us a long way. I think we still have some work  
1182 to do in terms of implementation and really communicating that  
1183 to our partners.

1184 Ms. Brooks. Thank you.

1185 Mr. Scanlon.

1186 Mr. Scanlon. The -- to your question as to policies that  
1187 may impede, our experience in WannaCry was not so much that there  
1188 were policies inside HHS that impede the communication in this  
1189 emergency but it was misunderstanding of HHS policies as they're  
1190 currently formulated widely through the sector that caused people  
1191 to have a number of false ideas that we heard on the calls.

1192 For example, many medical device manufacturers and even  
1193 users of those devices believe that FDA does not allow you to patch  
1194 a device. This is absolute incorrect. FDA makes great efforts  
1195 to demystify that problem.

1196 But it is widely believed through the sector. We found that  
1197 there was a tremendous need to communicate and will be an ongoing  
1198 need to communicate broadly and deeply what FDA's policies  
1199 actually are.

1200 Similarly, with OCR, and to Representative Barton's  
1201 questions, there are many beliefs or misunderstandings about what  
1202 you can and cannot report. But the statute -- PCII, HIPAA and  
1203 CISA -- are very, very clear in their encouragement of reporting

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1204 of cybersecurity information during an incident.

1205 And, again, we feel that there=s a need for much better  
1206 communication. We are undertaking an effort internally to look  
1207 at how we are presenting these policies to put them into more,  
1208 if we can, plain language and to provide plain languages guidance  
1209 that is agreed upon by us and other partners that we can get to  
1210 the sector, that we can get to the incident response teams and  
1211 really give them a framework in which they can communicate with  
1212 us.

1213 Ms. Brooks. Thank you. My time is up. I yield back.

1214 Mr. Murphy. Thank you. I now recognize the gentleman from  
1215 New York, Mr. Tonko, for five minutes.

1216 Mr. Tonko. Thank you, Mr. Chairman. Thank you and  
1217 Representative DeGette for this hearing. I think the topic is  
1218 extremely important.

1219 Cybersecurity is a serious and multifaceted issue that will  
1220 require an investment of significant resources and you began to  
1221 get into that with earlier questioning from Representative  
1222 DeGette.

1223 And I understand that the president=s budget includes some  
1224 additional funding for cybersecurity efforts at HHS. Mr.  
1225 Scanlon, how much of this new additional funding would be used  
1226 to support the new Health Cybersecurity and Communications  
1227 Integration Center?

1228 Mr. Scanlon. Well, sir, I don=t know exactly the dollar

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1229 figure of the new funding, what is going -- we are currently --  
1230 we have built the HCCIC essentially out of hide. We have taken  
1231 existing capabilities and investments that have been planned and  
1232 executed and realigned and repurposed those things to achieve this  
1233 capacity and then we've added in some of our additional technical  
1234 spending.

1235 But we are anticipating budget increases and proposes to be  
1236 put into a line item for so that we can get a direct picture of  
1237 what HCCIC needs and we would be looking forward to give you any  
1238 more detail that we could about that.

1239 Mr. Tonko. Okay. And also, Mr Scanlon, and I'm asking this  
1240 question because we want to make certain that our house is in order  
1241 and that HHS has sufficient resources for its own IT security  
1242 internally.

1243 The Office of Management and Budget estimates that HHS is  
1244 pending \$13 billion on information technology. During fiscal  
1245 year 2016, only about \$373 million, as I'm informed, or 3 percent  
1246 of the HHS IT budget, was devoted to IT security.

1247 So my question to you, Mr. Scanlon, is can you give us an  
1248 updated figure as to how much of the HHS budget for IT is devoted  
1249 to IT security for fiscal year 2016?

1250 Mr. Scanlon. So I think we could get back to you. The CIO  
1251 is actively working the budget right now and we'd be glad to get  
1252 back to you with a detailed picture of the planned and current  
1253 spending.

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1254 Mr. Tonko. Okay. That was fiscal year 2018. I think I  
1255 might have misspoken and said 2016. So you can get back to us.  
1256 Can you give me an answer in writing after this hearing?

1257 Mr. Scanlon. Certainly.

1258 Mr. Tonko. And will you give me an answer?

1259 Mr. Scanlon. Yes, sir. I will.

1260 Mr. Tonko. Okay. To make it a little more defined.

1261 Thank you. I'm happy to hear that you will provide us with  
1262 a response to my question, especially since I've been reading  
1263 reports that a White House lawyer is telling agencies not to answer  
1264 questions from Democrats. So it's reassuring.

1265 GAO recently found serious weaknesses in the security  
1266 computer systems at the Food and Drug Administration. GAO also  
1267 found that FDA spent only about 2 percent of its IT budget on  
1268 information security.

1269 Mr. Scanlon, what assurances can you give us that HHS is  
1270 appropriately prioritizing cybersecurity as part of its overall  
1271 IT efforts?

1272 Mr. Scanlon. I can tell you, sir, that the FDA response at  
1273 the GAO audit was robust and vigorous and continues to this day.  
1274 They have developed what we believe is a world class  
1275 implementation of a network operating and security operating  
1276 center to support their ongoing cybersecurity activities.

1277 They are major partners with us in malware analysis. They  
1278 have one of the strongest groups of malware analysts in the agency

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1279 and they continue to proceed to respond to that audit and to the  
1280 generalized threat.

1281         The CIO has in the last year gotten agreement -- this is a  
1282 milestone agreement for HHS for all CIOs to sign onto a IT  
1283 strategic plan. It includes an investment plan that places IT  
1284 security at the center of the strategy for the agency and at the  
1285 center of the work plans for each of the CIOs.

1286         This was developed collaboratively over a period of time,  
1287 was signed onto by the CIOs, supported by the CISOs and is being  
1288 executed and as part of the budget plan of what the agency is doing.  
1289 The HCCIC itself is another element of a response to further  
1290 enhance, consolidate and strengthen the ability of the agency to  
1291 utilize the resources, the strongest -- find the strongest  
1292 resource that we've got in any one OpDiv and make it available  
1293 as a force multiplier to other operating divisions.

1294         So we are reimagining, if you will, or reorganizing the way  
1295 we deal with cybersecurity so that we have the strongest and most  
1296 effective use of the resources that we have.

1297         Mr. Tonko. Thank you. And when will that all be  
1298 implemented? Is there a target date?

1299         Mr. Scanlon. The IT strategic plan is a continuous process  
1300 that goes on the course of the strategic planning of the CIOs  
1301 across the board.

1302         The HCCIC is targeted for what we call initial operating  
1303 capability the end of this month. That means that we will have

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1304 our full initial technical capability in place.

1305 We will have our funding understood and we will have messaged  
1306 -- through our organization we have -- we are now in the process  
1307 of gathering input from the operating divisions and from senior  
1308 leadership and that once that message is completed by the end of  
1309 June we=ll be able to have a much more concrete and documentable  
1310 picture of where we are.

1311 Mr. Tonko. Right. Well, I thank you and I look forward to  
1312 hearing from you about the IT budget at HHS and whether HHS is  
1313 devoting enough resources internally to Cybersecurity. So I  
1314 thank you again. With that, I yield back.

1315 Mr. Murphy. Thank you.

1316 I now recognize Mr. Collins of New York for five minutes.

1317 Mr. Collins. Thank you, Mr. Chairman. I want to thank the  
1318 witnesses.

1319 This is a very timely topic we are talking about. Now, one  
1320 of the more important parts of health care cybersecurity in our  
1321 conversation is the capabilities of small and medium-sized health  
1322 care organizations and device manufacturers.

1323 All of you today have briefly touched on the topic in your  
1324 written testimony and there are recommendations within the task  
1325 force report that address the concern for small and medium-sized  
1326 businesses.

1327 The fact of the matter is many of these small health care  
1328 organizations do not have the resources to address cybersecurity.

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1329 Even more problematic, they don=t have the qualified  
1330 personnel working for them to help them understand what=s even  
1331 at risk.

1332 So if you could in our limited time, if maybe I could start  
1333 with Mr. Curren and ask you -- maybe spend a minute and talk about  
1334 that issue directly as it=s small and medium-sized businesses that  
1335 struggle to make payroll.

1336 They=re having to make trade-offs each and every day whether  
1337 it=s R&D, manufacturing and then here=s this cybersecurity and  
1338 I think the reality is too often it=s a last -- the last thing  
1339 they=re going to think about and yet, we know -- so if you could  
1340 maybe discuss briefly your thoughts maybe for a minute or so about  
1341 that and I=d like the other two also speak to that.

1342 Mr. Curren. Thank you -- thank you very much, and I=m  
1343 certain we would all agree with that that the small and medium  
1344 and rural health care organizations really have a critical need  
1345 for health care cybersecurity information and resources, and the  
1346 cybersecurity task force, of course, pointed that out.

1347 I think it also provided some good -- some good potential  
1348 solutions or at least options to look at that maybe Emery can fill  
1349 in on.

1350 We actually have looked at that within ASPR in terms of our  
1351 sharing of information with health care organizations. It=s very  
1352 hard for small health care organizations to process the amount  
1353 of information that=s out there to know what they need to do to

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1354 protect their systems.

1355 We put out a planning grant in 2015 to Harris Health System  
1356 in the Houston area. They took a look at the entire -- their  
1357 colleagues at the entire health care system, small, medium and  
1358 large-sized businesses to look at what are the information  
1359 challenges that are out there and who would we need to reach most.

1360 And one of the findings from that study was that the small  
1361 and medium organizations, exactly those issues that the task force  
1362 pointed out, are where we need to focus our efforts.

1363 Based on that, we issued this last year in 2016 a grant to  
1364 the National Health Information Sharing and Analysis Center, the  
1365 NHISAC.

1366 That was a competitive grant that they won to help them to  
1367 increase their information sharing specifically for small and  
1368 medium-sized organizations that may not have the resources to a  
1369 be a member of their information sharing organization.

1370 So it=s an issue we continue to look at and that we want to  
1371 really address.

1372 Mr. Collins. That=s encouraging.

1373 Mr. Scanlon.

1374 Mr. Scanlon. Yes, sir. We -- I=d point to the WannaCry  
1375 event where during the course of that we at the HCCIC were able  
1376 to produce -- we called them one-pagers, 101s, to begin to answer  
1377 questions from the small organizations that were on the phone --  
1378 how do I patch, how do I detect, what should I look for, what is

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1379 the main vector that I should.

1380 So we were able to provide this sort of information in real  
1381 time to folks who don't have sophisticated cybersecurity teams  
1382 to back them up and answer their questions. We look forward to  
1383 continue to do that in a -- as a series of products.

1384 I would like to just mention we once spoke to an administrator  
1385 of a hospital in Indian Health Service, a very large -- third  
1386 largest health care organization in the country, I believe, and  
1387 very, very underfunded in many ways.

1388 And this administrator said to us, we know their social  
1389 engineeringBwe are catching the phone calls -- we know they=re  
1390 phishing usBwe see the emails. We don't know who they are, what  
1391 they=re going to do next and what we should do about it.

1392 Those three questions are the questions that HCCIC is  
1393 committed to answer in conjunction with our partners with the  
1394 support of our colleagues in ASPR and I think that is exactly what  
1395 the task force was looking for as well.

1396 Mr. Csulak. Yes. When we looked at the task force, you  
1397 know, this was clearly seen as a major challenge where  
1398 cybersecurity is a collateral duty in many of these small and  
1399 medium-sized organizations.

1400 They=re overwhelmed with information sharing. How do we  
1401 curate that information and simplify it and make it easier for  
1402 a smaller number of people to, you know, adopt and embrace.

1403 How do we look at comprehensive education for these

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1404 organizations? It can't just be an IT security person in there.  
1405 We need to educate the patients. We need to educate the  
1406 clinicians.

1407 We need to, you know, bring this to the boards. How do we  
1408 -- how do we bring that to a comprehensive thing to make sure we  
1409 do that.

1410 And the report also talks about how do we take shared services  
1411 -- how do we look at shared services to kind of offload the burden  
1412 particularly on these small organizations.

1413 How do we partner with industry, with the NHISAC and High  
1414 Trust on their initiatives that they're doing around this  
1415 challenge of small and medium-sized businesses?

1416 So, you know, it's kind of -- you know, the task force looked  
1417 at a comprehensive view and there are many ways and many areas,  
1418 obviously, that they tried to address in the report.

1419 Mr. Collins. Well, thank you that's all great. We are all  
1420 focused on the same thing and the unfortunate fact is small  
1421 businesses sometimes don't survive a cybersecurity attack that  
1422 actually puts them down.

1423 So thank you, Mr. Chairman. My time has expired. I yield  
1424 back.

1425 Mr. Murphy. Thank you.

1426 I recognize the gentleman from California, Mr. Peters, for  
1427 five.

1428 Mr. Peters. Thank you very much, Mr. Chairman.

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1429 I want to ask some questions about the WannaCry event which  
1430 crippled 200,000 computers in 150 countries.

1431 What assurances do the current U.S. policies requiring cyber  
1432 protections provide that weren=t present for medical systems in  
1433 Europe during that attack and basically how are we doing -- how  
1434 are we better comparatively and how are we not better  
1435 comparatively? Can you address that?

1436 Mr. Scanlon. So I think you=re referring to the difference  
1437 and the disparity between the effect on Europe and the effect on  
1438 the United States.

1439 Mr. Peters. The practices -- was there something that we  
1440 are doing better than them because we didn=t get -- or was it just  
1441 good luck?

1442 Mr. Scanlon. In part, it was probably good luck. There=s  
1443 continuing analysis -- a great deal of analysis to try to determine  
1444 exactly what happened and why in the course of that event.

1445 But there was certainly a point in time where the effect of  
1446 the attack changed. I don=t believe we were spared from any --  
1447 from everything we=ve seen in an analytical standpoint we were  
1448 not spared the spread. We were spared the impact.

1449 Mr. Peters. The impact -- okay. Can you help us  
1450 distinguish which sort of medical industry cyber systems are most  
1451 vulnerable to Cybersecurity threats like electronic health  
1452 records, administrative systems, medical devices or machines,  
1453 telehealth systems?

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1454 Mr. Scanlon. This is a very, very important question. The  
1455 health care sector is somewhat unique -- not entirely unique but  
1456 it is particularly sensitive to the phenomena of the internet of  
1457 things and also the fact that many devices were developed and have  
1458 been developed not with the intention of being on the internet  
1459 and when they were put into service, when they were designed it  
1460 was never intended that they would be able to talk to other devices  
1461 or be attacked yet they are.

1462 So this represents a major investment problem and it produces  
1463 another problem that on the normal operating standpoint we can  
1464 deal with quite easily. We can patch our systems without a great  
1465 deal of difficulty.

1466 We can roll out automated patches across tens of thousands  
1467 of machines on a basis. You can't quite do that in a hospital  
1468 when you don't know what the impact of that patch is going to be  
1469 in an operating room or on a medical device that is unique in the  
1470 way it's designed and structured.

1471 So the health care sector has a very different type of  
1472 vulnerability that requires a lot of thought and a lot of effort  
1473 to begin to address and this is part of the problem that we saw  
1474 in the WannaCry event is that the devices that were unpatched were  
1475 impacted by this in a very severe way and the difficulty of getting  
1476 those patches to them was very, very profound for the users of  
1477 the devices.

1478 Mr. Peters. The way you've answered that question is more

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1479 systemic than I asked it. So I'm going to take that as implied  
1480 that we have to continue to figure out what's going to be  
1481 happening?

1482 Mr. Scanlon. Yes, sir.

1483 Mr. Peters. But there's many, many points of entry now,  
1484 given these different devices and open source practices and it  
1485 seems to me that that's going to be part of HHS' role, I assume,  
1486 is in corralling this information and spreading best practices?

1487 Mr. Scanlon. Yes, sir. We -- and we did that during  
1488 WannaCry. We -- and the HCCIC and especially the Cybersecurity  
1489 Working Group has -- which represents the security practitioners  
1490 across the agency from FDA, from CMS, from OCR, ONC and elsewhere.

1491 We have an effort and a task to basically get on the road  
1492 and talk to the sector about what we know and help them understand  
1493 where they have -- where we have resources that can assist and  
1494 how to put them in touch with resources that we don't have.

1495 Mr. Peters. In one sense, it's more challenging than  
1496 Britain because Britain's health system is much more centralized  
1497 and we have a much more decentralized system.

1498 So can you elaborate on the partnerships and what Congress  
1499 needs to do to improve that -- make sure that everyone's engaged?

1500 Mr. Curren. I can say that we are working with our partners  
1501 to enhance the understanding of this issue, especially at the  
1502 executive level.

1503 Mr. Peters. Who are you referring to as your partners?

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1504 Mr. Curren. The partners would be the -- we have a  
1505 sector-coordinating council, which is the major trained  
1506 associations in the health care industry as well as large, medium  
1507 and small-sized companies. We --

1508 Mr. Peters. Hospitals?

1509 Mr. Curren. Hospitals are part of that but also  
1510 associations like American Hospital Association, which help us  
1511 reach out to -- you know, as a force multiplier to their members.

1512 Mr. Peters. Right.

1513 Mr. Curren. So those are the organizations that we are  
1514 working aggressively with to help spread this message to -- that  
1515 it's an important issue, an issue we need investment in in the  
1516 private sector as well.

1517 Mr. Peters. I'm just taking as a takeaway is that we must  
1518 be at a very early stage of this because we don't have a lot of  
1519 specifics about it.

1520 I do hope that you have the resources that you need, that  
1521 you are sharing best practices among hospitals. Mr. Scanlon, do  
1522 you have anything further you wanted to add?

1523 Mr. Scanlon. Yes, sir. I just wanted to emphasize the  
1524 point that you're making is that the development of communications  
1525 in this area is very important to us.

1526 We saw during WannaCry that there's a lot to be learned and  
1527 a lot to --

1528 Mr. Peters. In the sense of information sharing?

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1529 Mr. Scanlon. Information sharing and also alerting. We  
1530 discovered that it=s very -- it=s very difficult. The sector,  
1531 as you noted, is very diverse and very disparate. So there is  
1532 no one single channel that you can just broadcast out to. We have  
1533 to find ways to reach down into the smaller organizations.

1534 One of the things that we would, of course, like to ask in  
1535 your help in the future any advice and assistance you can give  
1536 us to reach the constituents in your district who need to know  
1537 this. We are -- we stand ready and would really like to assist  
1538 in that.

1539 Mr. Peters. Well, my time has expired but I=m sure you=d  
1540 find everyone on this panel desperate to make sure that you=re  
1541 getting this information to their districts. So I don=t think  
1542 that=ll be a problem.

1543 Thank you, Mr. Chairman, for your indulgence.

1544 Mr. Murphy. I now recognize Mr. Costello for five minutes.

1545 Mr. Costello. Thank you, Mr. Chairman.

1546 My question is for all witnesses. It=s a little long. Bear  
1547 with me.

1548 During our hearing on this topic a few months ago we asked  
1549 our witnesses whether the fact that many different pieces of HHS  
1550 are responsible for regulating different pieces of the health care  
1551 sector causes confusion or duplication for companies trying to  
1552 remain compliant.

1553 I=d like to read to you what one of the witnesses at that

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hearing said, because I think it sums it up pretty well. Quote, While many regulations that apply to cybersecurity in health care are well-meaning and individually effective, taken together they can impose a substantial legal and technical burden on health care organizations. These organizations must continually review and interpret multiple regulations, some of which are vague, redundant or both. In addition, organizations must dedicate resources to implement policy directives that may not have a material impact on reducing risks."

This observation was also made in the task force report that just came out. Now that HHS has received this feedback from the industry, a twofold question.

Will there be a review that looks at cybersecurity regulations across the department to make sure that they are aligned? Second, if duplicate, confusing, contradictory or ineffective regulations are discovered, as I imagine they probably already have been discovered, how will the department address them?

Will you look to streamline, supersede or otherwise make workably clear the various regulations so that the issue is addressed?

Mr. Curren. I can start off with some comments related to the high-level implementation of the task force report and be happy to have additions from my colleagues.

The task force report really was a milestone both for

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1579 industry and for HHS. It really set a marker down to say here  
1580 are all the things that we can do to improve cybersecurity in this  
1581 nation.

1582 There are more than 100 imperatives, recommendations and  
1583 action items in the task force report. About half relate to the  
1584 government and about half relate to the private sector.

1585 So there=s a lot of work for everyone to do. HHS right now  
1586 is taking a look at the report and all the recommendations that  
1587 are there, looking at which recommendations might relate to our  
1588 current authorities and resources where we have programs  
1589 available, where we can do good work, which ones may be of interest  
1590 to our partners where we can work with them to help in  
1591 implementation and also look at a time frame.

1592 There is so much to do and some have -- many have very long  
1593 time frames in terms of the action items. So we=ll need to  
1594 prioritize and sequence how we do things.

1595 I think that for us the regulatory review would certainly  
1596 be part of that overall look. We do need to go through the whole  
1597 report though and find out where all the priorities are for HHS  
1598 and for our partners.

1599 Mr. Csulak. You know, I think as you called out in the  
1600 report, you know, the task force and two of the task force members  
1601 who spoke in April highlighted these points is that, you know,  
1602 harmonization of the regulations is a key piece and a key challenge  
1603 of that.

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1604 I think as we've looked even before the task force report  
1605 was completed, you know, we had already been discussing some of  
1606 these challenges in the Cybersecurity Working Group in HHS to try  
1607 to address some of these challenges.

1608 So this has already come up. We are really looking at, you  
1609 know, the potential negative impacts of regulations and, you know,  
1610 how can we change this from a negative to a positive.

1611 Why are we punishing people for trying to do the good thing  
1612 when we should be encouraging them to make improvements and so  
1613 forth?

1614 So do we have an answer for those right now? No. But I know  
1615 that, you know, ONC and OCR and the other regulatory bodies within  
1616 HHS were clearly engaged with the task force activities and the  
1617 recommendations.

1618 They heard directly from the industry partners where they  
1619 were having challenges and we are hoping very much so that those  
1620 will come back through the working group as, you know, solutions  
1621 and activities in the near future.

1622 Mr. Scanlon. Yes. Echoing what my colleagues have said,  
1623 we are very well aware of two things. One, the reporting on the  
1624 impact of these regulations is not what we would like it to be.  
1625 We don't know exactly how big, bad or indifferent this impact is.  
1626 We would like to know that. But we do know that it's very real  
1627 and we are taking it very seriously.

1628 The second thing is there's another part of the answer to

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1629 the question is that we are engaged in an effort through the  
1630 discussion about the cybersecurity framework, the NIST risk  
1631 management approach, and shifting the sector from a cybersecurity  
1632 focus that is merely based on compliance and which is largely risk  
1633 avoidance or fine avoidance into an actual dynamic management of  
1634 the risks and to determine what is needed for them to do that.

1635 So we hope that that effort will help shape this and give  
1636 us a greater insight into where regulations are impeding the  
1637 ability of organizations to shift out of a pure compliance mode.

1638 And also the extent to which the type of threat -- the  
1639 regulations that exist were not really designed to deal with a  
1640 cyberthreat of the type that affects us and as one of the members  
1641 pointed out, all these systems are vulnerable.

1642 So it=s very, very hard to avoid under some circumstances  
1643 the sense that we are victimizing the victim and we very much want  
1644 to get away from that and move people into an active role in the  
1645 defense of their systems in conjunction with us.

1646 Mr. Costello. Thank you. I yield back.

1647 Mr. Murphy. I now recognize Dr. Burgess for five minutes.

1648 Mr. Burgess. Thank you, and that=s an excellent place to  
1649 start, Mr. Scanlon, or really any of you -- the concept of  
1650 victimizing the victim.

1651 Now, Ms. Castor from Florida talked about the Office of Civil  
1652 Rights in Department of Health and Human Services. When we had  
1653 our hearing here several weeks ago in April with the

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1654 public-private partnerships in the health care sector and, again,  
1655 as Mr. Costello was bringing up, the dual role of HHS and the  
1656 regulator as well as the -- being responsible for the  
1657 sector-specific integrity, it came up that there is, under the  
1658 Office of Civil Rights under their portal there is a -- what=s  
1659 called the Wall of Shame. Are you guys familiar with that? Is  
1660 it helpful?

1661 Mr. Scanlon. Sir, we heard you loud and clear at that  
1662 hearing and we took that matter back to the secretary. He has  
1663 taken it very seriously and is working on an effort to address  
1664 the concerns that you raised. We=d like to get back to you in  
1665 more detail. The work is not complete but it is underway.

1666 Mr. Burgess. Is that something that can simply be taken care  
1667 of within the agency?

1668 Mr. Scanlon. Yes, sir.

1669 Mr. Burgess. Or would, perhaps, it be better to have  
1670 legislation? What concerns me is this thing=s been out there.  
1671 The first infraction was October of 2009.

1672 Mr. Scanlon. It=s still up there.

1673 Mr. Burgess. A facility in Texas. Yeah, and it=s still up  
1674 there.

1675 Mr. Scanlon. Yes, sir.

1676 Mr. Burgess. And, I mean, you reach the threshold of 500  
1677 charts or whatever affected and you=re up there. I don=t know  
1678 how that affects someone=s ability to -- I mean, does it -- does

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1679 it affect their ability to stay in business.

1680 I don=t know what kind of follow-up there=s been done on  
1681 whether or not access to capital has been limited because they  
1682 appear on the Office of Civil Rights= Wall of Shame at Department  
1683 of Health and Human Services. I can just imagine that that is  
1684 a big deal and, again, we are victimizing the victim again. Why  
1685 wouldn=t we be helping people rather than continuing to penalize  
1686 them?

1687 Mr. Scanlon. Sir, we are with you 100 percent and we are  
1688 -- both what we are doing with the HCCIC to try to reach out to  
1689 help people understand first how to avoid those. There are things  
1690 that can be done to avoid the problems that -- and put -- people  
1691 end up on the wall.

1692 At the same time, I think you asked about legislation. This  
1693 is a matter to be considered at some point. The threat has  
1694 changed. The nature of the problem has changed.

1695 Mr. Burgess. Correct.

1696 Mr. Scanlon. There are -- there are certainly matters of  
1697 due diligence that need to be brought to the attention and need  
1698 to be publicized and people need to be called to account for those  
1699 things.

1700 There are the matters where people are being are being  
1701 attacked by attackers who far overwhelm their capabilities to  
1702 defend themselves and we need to distinguish between those.

1703 Mr. Burgess. Sure.

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1704 Mr. Scanlon. We did that initially. We've done that in our  
1705 -- in our approach to cybersecurity in the federal government.

1706 We've adopted the risk management framework where we use a  
1707 risk assessment approach to evaluate these to determine severity  
1708 and to apply resources to the most severe problem rather than just  
1709 shotgun at anything we find.

1710 So we think that this is a model that can be applied. That's  
1711 why the task force and others are recommending the adoption of  
1712 the cybersecurity framework approach and we would like to see that  
1713 reflected.

1714 We hope to see that reflected in the way that the agency  
1715 approaches these regulatory matters and we would like to continue  
1716 talking with you about that as well.

1717 Mr. Burgess. Very well. I haven't gotten enough in-depth  
1718 research. I don't know if the Office of Personnel Management is  
1719 on your Wall of Shame or not. They were actually involved in a  
1720 breach a couple of summers ago, as you may recall.

1721 Let me just ask you then on -- and I've got a number of  
1722 questions and I will submit them for the record because I've got  
1723 too much to get through in this context.

1724 But what about the concept of -- we had the ransomware attack.  
1725 Fortunate in this country that it wasn't as bad as it could have  
1726 been.

1727 But aren't there still a couple of sites that are having  
1728 ongoing damage from that attack where those -- that malware is

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1729 continuing to try to lock down their files?

1730 Mr. Scanlon. Yes, sir, and we did a call last week to the  
1731 sector to talk about that. There=s a peculiar feature of the  
1732 malware is that the virus itself and its encryption payload are  
1733 two separate parts of the attack.

1734 The encryption payload is either -- has been defused largely  
1735 or is being caught in many cases by antivirus and other detection  
1736 systems.

1737 But the virus may have already been present on a system and  
1738 even if the system was patched, when it reboots for whatever reason  
1739 the virus goes into action and the attempt of the virus to activate  
1740 itself can knock over certain Windows systems and bring them down  
1741 and crash the device and that=s happening globally.

1742 So there=s an iterative process of discovering which  
1743 machines are still vulnerable, where the virus is resident, not  
1744 just patching but then reimaging and rebuilding the machines and  
1745 that that=s what -- that=s what is happening in the instances that  
1746 we know about.

1747 That=s basically what=s going on and it=s going to take some  
1748 time for everybody to get this problem rooted out of their systems  
1749 because of the virulent nature of it.

1750 Mr. Burgess. And I assume you=ll have ongoing help with  
1751 that. Good. Let me just be sure I understood you correctly. So  
1752 we can look forward to being able to take a field trip to HCCIC  
1753 at the end of June. Is that correct?

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1754 Mr. Scanlon. We'd be delighted to have you.

1755 Mr. Burgess. All right. Well, we will -- we will await the  
1756 invitation. Thank you very much. Thank you, Chairman.

1757 Mr. Murphy. Thank you. I now recognize Mr. Carter for five  
1758 minutes.

1759 Mr. Carter. Thank you, Mr. Chairman, and thank all of you  
1760 all for being here. As a health care provider for many years I  
1761 can tell you this is extremely important and of concern to all  
1762 health care providers for a number of reasons, not the least of  
1763 which are the penalties involved with HIPAA and everything else  
1764 that we are acutely aware of.

1765 Let me ask you, Mr. Csulak -- you're the co-chair of the  
1766 Health Care Industry Task Force and that -- that task force has  
1767 the charge of coordinating industry and the government side to  
1768 cooperate with and secure digital networks. Is that correct?

1769 Mr. Csulak. Well, we would a task to analyse the challenges  
1770 and create the report for action. It was, again, a one-year  
1771 limited version of a task force to come up with these  
1772 recommendations and is not necessarily an ongoing activity under  
1773 the current legislation.

1774 Mr. Carter. Okay. Well, can you -- can you describe for  
1775 me your experiences when you first heard about the WannaCry attack  
1776 and your interaction with industry? How -- just can you -- can  
1777 you walk me through that?

1778 Mr. Csulak. Yes. I think, you know, when we looked from

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a task force perspective on the challenges there, what we really see is, you know, the task force identified and, you know, repeat that, you know, industry and government need to work together about promoting and promulgating best practices in cybersecurity and really, I think when you look at the recommendations that came out of WannaCry the action items that came out of WannaCry, they clearly lined up with the task force recommendations of focussing on those best practices, how do we roll those out, making sure that we have good cyber hygiene on our computers.

So, you know, I think the recommendations around WannaCry really do line up and successfully match to the task force recommendations.

Mr. Carter. Can you give me an idea about the quality of the -- of the devices that hospitals are using now? Are they pretty well prepared or the health care facilities, they've used a lot of these devices for many years. Are they up to date? Are they prepared? Do we need --

Mr. Csulak. You know, I think -- you know, the task force members really said they run the gamut. You know, we've got some organizations which are using state of the art information but there's a lot of large technology like x-ray machines and other large -- big bill items that really are legacy applications, legacy systems, legacy operating systems which are a challenge.

So I think, you know, when you look at the task force report it looks at some of those challenges. It was, like, look, we need

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1804 to do a better job developing new stuff. You know, secure  
1805 operating systems do that.

1806 But we also have to look at architecture and security design  
1807 issues around how do we segment these systems which are older.  
1808 We still need to operate on them. Small organizations may not  
1809 be able to, you know, really easily replace a scanner. How do  
1810 we help them segment that stuff so it becomes less risky?

1811 Mr. Carter. Do you feel like we are making progress?

1812 Mr. Csulak. I think we are coming -- I think we are making  
1813 progress. I think if you look at the task force report they really  
1814 see this as a goal that industry recognizes and can embrace about,  
1815 you know, coming up with better best practices for this.

1816 So they were very confident that, you know, this is an area  
1817 where industry really can be a leader in this area and I think,  
1818 you know, what we are doing is we are seeing progress in there  
1819 but, obviously, there=s a lot of room to grown.

1820 Mr. Carter. Good. Mr. Scanlon, very quickly -- you=re  
1821 deputy chief information security office at DHS and the HHS  
1822 designee for cybersecurity.

1823 One of the things in the cyberthreat preparedness report it  
1824 identified a number of findings including the fact that there are  
1825 11 components within the department that contribute to the health  
1826 care threat -- the health care sector threat preparedness.

1827 But a consistent concern that we found in preparing for this  
1828 hearing was that there=s a confusion out there about who to call

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1829 and, you know, with some of the outside groups.

1830 What are we doing about this to try to clear that up?

1831 Mr. Scanlon. Well, sir, step one -- and we acutely are aware  
1832 of that internally ourselves. I would like to say, though, on  
1833 the one hand there is an advantage to this large array of  
1834 organizations is that we have a 360-degree view of the sector.

1835 So internally our intention is to be able to get that view  
1836 as a single view that can go out and provide a 311 capability and  
1837 this is what the Cybersecurity Working Group is primarily tasked  
1838 with doing.

1839 That is, of course, takes work. That takes time. But we  
1840 are underway of doing that. We are going to be looking to you  
1841 for support in that effort as it goes forward.

1842 But that is exactly a problem that we intend to solve and  
1843 we saw that very clearly in the WannaCry event. We have solid  
1844 proof of why that needs to be addressed and we think we have a  
1845 path forward to do it.

1846 Mr. Carter. Great. Well, I'm out of time and I yield back.

1847 Mr. Murphy. Thank you.

1848 I will now recognize Ms. Walters for five minutes.

1849 Ms. Walters. Thank you, Mr. Chairman.

1850 As you mentioned in the testimony, HHS coordinated with NCCIC  
1851 following the WannaCry attack. I have toured NCCIC and  
1852 understand the role it plays in the cybersecurity space.

1853 Mr. Scanlon, I'd like to get your thoughts on how the HCCIC

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1854 fits into the public-private partnership for the health care  
1855 sector, specifically how it will work with NCCIC and NHISAC. On  
1856 the surface, it appears that this could create confusion by adding  
1857 another layer or could be duplicative of these organizations.

1858 Can you elaborate on how the HCCIC will work with the NCCIC  
1859 and NHISAC?

1860 Mr. Scanlon. Yes. Thank you very much.

1861 Yes, the HCCIC=s function is to be able to reach into what  
1862 we were just describing as a very diverse and complex sector and  
1863 to leverage what exists at the NCCIC level.

1864 So the NCCIC has the capability to coordinate across the  
1865 sectors, across into the intelligence community and at the federal  
1866 level through law enforcement.

1867 So the HCCIC=s function is to start to provide a  
1868 communication channel from the sector, especially the smaller and  
1869 medium-sized organizations that don=t necessarily know about  
1870 NCCIC or don=t really know how to get to US-CERT or might when  
1871 they contact their law enforcement -- local law enforcement  
1872 official might or might not get in touch with some federal level  
1873 capability.

1874 The HCCIC can leverage what ASPR already has, which is this  
1875 tremendous ability to reach into the sector and become a vehicle  
1876 -- a transmission vehicle up to the NCCIC and do something that  
1877 NCCIC on its own as an organization is really not quite designed  
1878 to do. It=s got a different function.

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1879 Ms. Walters. Right.

1880 Mr. Scanlon. At the same time, the HCCIC is a vehicle to  
1881 coordinate with private-sector partners. The ISALsBthere are  
1882 many ISALs. Emery mentioned High Trust as one that=s very active.  
1883 NHISAC is the grant award organization that is building out a  
1884 portal that we intend to share with and provide as another major  
1885 point of contact.

1886 The sector works with many, many channels. Different  
1887 organizations communicate in different ways. What we are trying  
1888 to do in the course of this is get out the word that this is where  
1889 you can get coordinated information and we would like to be able  
1890 to and intend to be able to reach to each of these partners and  
1891 work with them and we did do that during the WannaCry event.

1892 We were -- High Trust was on the call. NHISACs were on the  
1893 calls. They were able to provide insight and information that  
1894 they had from their activities to the rest of the sector and we  
1895 would like to make that not just an emergency event but an ongoing  
1896 activity that the department carries out on a daily basis.

1897 Ms. Walters. Okay. Were these organizations involved in  
1898 the discussions or decision to establish the HCCIC?

1899 Mr. Scanlon. Not directly. We knew that the grant from  
1900 ASPR and ONC was going to ask somebody to do that. So we didn=t  
1901 discuss with any of the bidders or the grant recipients.

1902 But we did discuss among ourselves how we would then be able  
1903 to respond once that grant was awarded what would the agency do

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1904 on its side to be able to work with that partner.

1905 Ms. Walters. Okay. So does -- so HHS does not have any  
1906 discussions with the Department of Homeland Security about the  
1907 establishment of the HCCIC prior to --

1908 Mr. Scanlon. We had extensive discussions. In fact, it was  
1909 -- it was people in the Department of Homeland Security who  
1910 suggested that we move and think in this direct.

1911 We have talked to Department of Homeland Security about  
1912 developing CONOPS. This is a work in progress now. We have  
1913 talked with them about what -- the very concerns you raised are  
1914 concerns for us, obviously.

1915 We don=t want to duplicate. We don=t want to reproduce  
1916 capabilities that DHS already has. We very much want to leverage  
1917 their capabilities out to, like, the cyber hygiene program, which  
1918 is a very scalable and valuable thing for the entire sector, and  
1919 we want to work with DHS to figure out the actual escalation,  
1920 communication and integration of these capabilities both on the  
1921 emergency management side, because that=s another aspect of DHS  
1922 that=s, again, well established and the cybersecurity side  
1923 through NCCIC and US-CERT.

1924 Ms. Walters. Okay. A second question I have is a concern  
1925 that we=ve heard raised with regards to the HCCIC is that  
1926 information shared with the center might not receive viability  
1927 protections provided under the Cyber Information Sharing Act of  
1928 2015.

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1929           Has HHS determined whether or not information shared with  
1930 HCCIC will receive CISA liability protection?

1931           Mr. Scanlon. Our lawyers have reviewed that and we had  
1932 ongoing work during the WannaCry to clear that up because that  
1933 is a widespread believe it is not correct.

1934           There is very, very strong protections and PCII, HIPAA and  
1935 the CISA that encourage the sharing of indicators and defensive  
1936 measures and identify what information should not be shared --  
1937 PII, PHI, attributable information.

1938           And from our standpoint, we need nothing of that type nor  
1939 do we even need to know entity information in order to carry out  
1940 the evaluation in analytic work that we do.

1941           So as I mentioned, we are working with our legal teams and  
1942 review organizations to develop plain language descriptions of  
1943 how those protections work and what they would provide to the  
1944 sector so that we can have that available for people to understand  
1945 and be clear about it.

1946           Ms. Walters. Okay. Thank you. I'm out of time.

1947           Mr. Murphy. I think that concludes all of our questions for  
1948 this panel.

1949           I do want to say this. I want to commend you all for the  
1950 work you did on dealing with the WannaCry threat that occurred.

1951           Granted, it was not as mature or developed as it could have  
1952 been but it was perhaps a good test run of some of your work. So  
1953 thank you for that, and it was helpful to hear the lessons learned

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1954 from this as you moved forward on this.

1955 I want to thank all of you for being here participating in  
1956 today=s hearing. I remind members they have 10 business days to  
1957 submit questions for the record.

1958 I would ask that all the witnesses please agree to respond  
1959 promptly to those questions.

1960 And with that, this committee remains adjourned.

1961 [Whereupon, at 11:53 a.m., the committee was adjourned.]

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