

Health Sector Coordinating Council Joint Cybersecurity Working Group

Q3 2020 Progress Report

October 1, 2020

HEALTH SECTOR COORDINATING COUNCIL JOINT CYBERSECURITY WORKING GROUP

Q3 2020 Report

Chairman's Forward



Terry Rice
Industry Co-Chair
HSCC Joint Cybersecurity
Working Group

As we enter the 17th annual National Cyber Security Awareness Month, the health sector is acutely aware of our cybersecurity challenges. Just in September we witnessed: a ransomware attack on a hospital in Germany followed by what is alleged to be the first patient death associated with an indirect cyber attack; mounting evidence of state-sponsored cyber espionage against U.S. vaccine research and development during “Operation Warp Speed;” the broadest-ever ransomware attack against a major U.S. hospital system; and a report from the government that, in 2020 alone, the nation’s health sector has so far been victimized by 53 ransomware attacks.

As I observed in our Second Quarter Report, the nation’s extended response and retooling to compensate for COVID-19 disruptions has done little to reduce the strategic focus and momentum of the Health Sector Coordinating Council’s Joint Cybersecurity Working Group. In Q3, we remained focused on developing cybersecurity guidance for the sector and extending our outreach to important stakeholders.

Ten of our task groups collectively conducted more than 90 working sessions during the third quarter, with the Supply Chain Security Task Group publishing an updated version of its Supply Chain Cybersecurity Risk Management Guide (HIC-SCRiM). The Risk Assessment Task Group also completed its work on a NIST Cybersecurity Framework Implementation Guide, which is now under review by our government partners with the prospect of a joint publication.

The ten resources we published over the past 21 months have cumulatively attracted more than 90,000 views and 2,000 downloads on our [website](#) since we began measuring penetration in May of 2019.

Other task groups continue their methodical work to: clarify medical device cybersecurity risk management responsibilities of device manufacturers and health delivery organizations; identify cybersecurity risk associated with emerging technologies used in healthcare; and learn how healthcare organizations and governments abroad manage their cybersecurity challenges and partnerships.

Finally, after cancelling our April All-Hands meeting due to COVID response, we are looking forward to our October “All-Clicks” virtual meeting – October 26-30, every day from 1:00 to 3:00pm eastern time, to take stock of our work over the previous three quarters and plan our priorities for 2021. An agenda and calendar invite have been sent to all of you, and registration will begin shortly.

Thank you for all your continuing hard work in service to the health sector. Let’s stay on it.

Meeting the Challenge

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Guidance Publications in Q3 2020

- [Health Industry Cybersecurity Supply Chain Risk Management Guide – Version 2 \(HIC-SCRiM-v2\)](#) – September 22, 2020

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Knowledge Sharing Activities in Q3 2020

- 90+ working sessions among 10 task groups
- External briefings for task groups from SME's and stakeholders, including:
 - New Zealand HealthAlliance (International Task Group)
 - Security researchers; Physicians; Biomedical engineers, Press; FDA and DHS (Vulnerability Communications Task Group)
 - MITRE and AWS on Artificial Intelligence in healthcare (Future Gazing and Emerging Technology Analysis Task Groups)
- Multiple CISA 405(d) Task Group “Spotlight Webinars”, “Cybersecurity Resources” and “405(d) Post” publications - <https://www.phe.gov/Preparedness/planning/405d/Pages/default.aspx>
- Focused engagements between HSCC and GCC partners on the EO 13636 Section 9 Critical Entities list, Operation Warp Speed cyber threat brief, and supply chain initiatives
- Two HSCC CWG presentations to external webinar audiences

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Total Guidance Publications – 2019-2020

- **Sept. 22, 2020** [Health Industry Cybersecurity Supply Chain Risk Management](#)
- **June 6, 2020** [Health Sector Return-to-Work \(R2W\) Guidance](#)
- **May 18, 2020** [Health Industry Cybersecurity Tactical Crisis Response](#)
- **May 14, 2020** [Health Industry Cybersecurity Protection of Innovation Capital](#)
- **March 11, 2020** [Health Industry Cybersecurity Information Sharing Best Practices](#)
- **March 9, 2020** [Management Checklist for Teleworking Surge During COVID-19](#)
- **October 9, 2019** [Health Industry Cybersecurity Matrix of Information Sharing Organizations](#)
- **June 17, 2019** [Health Industry Cybersecurity Workforce Guide](#)
- **January 28, 2019** [Medical Device and Health IT Joint Security Plan \(JSP\)](#)
- **January 2, 2019** [Health Industry Cybersecurity Practices \(HICP\)](#)

HSCC JOINT CYBERSECURITY WORKING GROUP

Addressing the Health Care Industry Cybersecurity Task Force Recommendations

HCIC IMPERATIVES	JCWG DELIVERABLES	DATE DELIVERED
<p>1. Define and streamline leadership, governance, and expectations for healthcare industry cybersecurity</p>	<ul style="list-style-type: none"> • Health Industry Cybersecurity Supply Chain Risk Management Guide (HIC-SCRiM) • CWG letters to HHS in 2018 (Oct. 26 -OIG and August 28-CMS) on Stark rule waiver accepted in HHS proposed rule • Health Industry Cybersecurity Practices (HICP) 	<p>September 2020</p> <p>October 2019 August 2019</p> <p>December 2018</p>
<p>2. Increase the security and resilience of medical devices and health IT</p>	<ul style="list-style-type: none"> • Health Industry Cybersecurity Supply Chain Risk Management Guide (HIC-SCRiM) • HIC-SCRiM v1 • Management Checklist for Teleworking Surge During COVID-19 Response • Medical Device and Health I.T. Joint Security Plan (JSP) • Health Industry Cybersecurity Practices (HICP) 	<p>September 2020</p> <p>October 2019 March 2020</p> <p>January 2019</p> <p>December 2018</p>
<p>3. Develop the healthcare workforce capacity necessary to prioritize and ensure cybersecurity awareness and technical capabilities</p>	<ul style="list-style-type: none"> • Health Industry Cybersecurity Workforce Development Guide (HIC-Workforce) 	<p>June 2019</p>

HSCC JOINT CYBERSECURITY WORKING GROUP

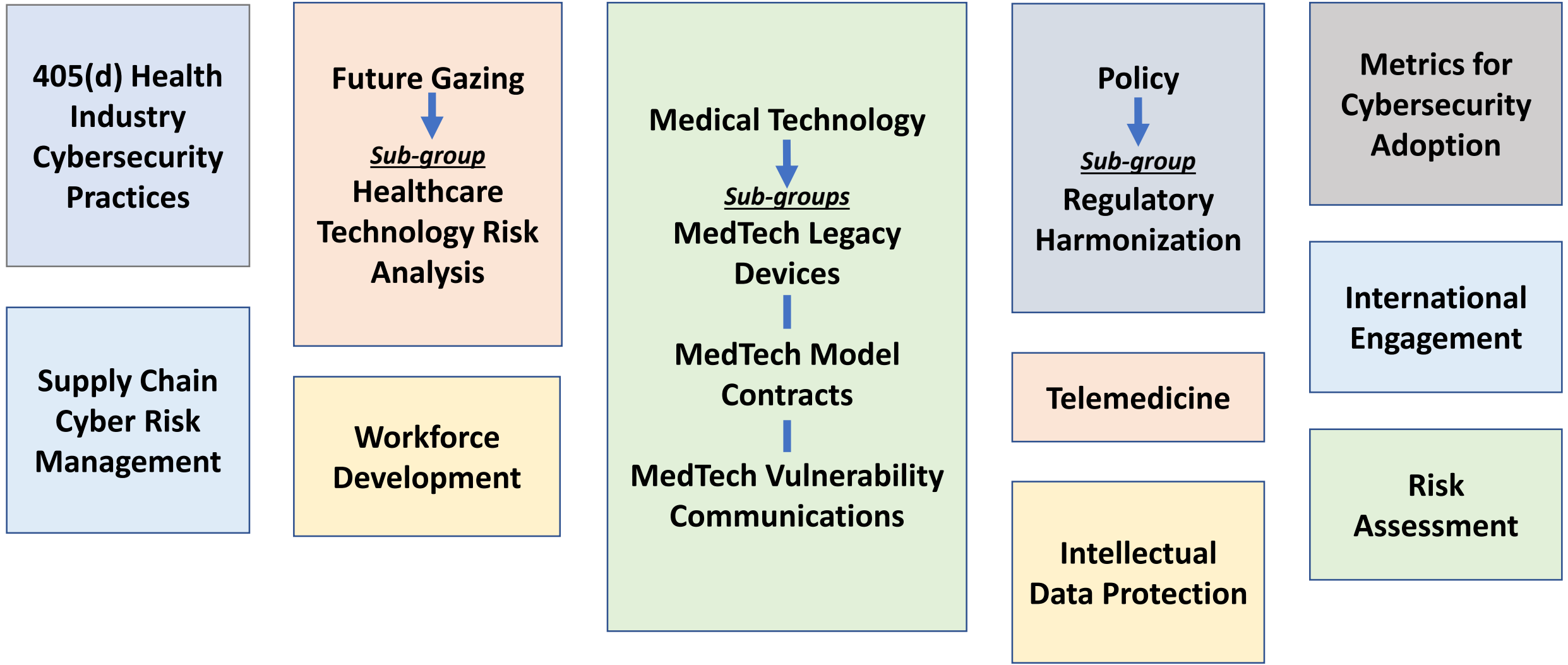
Addressing the Health Care Industry Cybersecurity Task Force Recommendations

HCIC IMPERATIVES	JCWG DELIVERABLES	DATE DELIVERED
<p>4. Increase healthcare industry readiness through improved cybersecurity awareness and education</p>	<ul style="list-style-type: none"> • Health Sector Return to Work Guidance • Health Industry Cybersecurity Tactical Crisis Response Guide • HSCC Multimedia Promotions for National Cyber Security Awareness Month (blogs, podcast, webinars) • HICP, HIC Workforce, HIC-MISO, JSP, HIC-SCRiM 	<p>June 2020 May 2020</p> <p>October 2019</p> <p>2019-2020</p>
<p>5. Identify mechanisms to protect R&D efforts and intellectual property from attacks and exposure</p>	<ul style="list-style-type: none"> • Health Industry Cybersecurity Intellectual Property Protection Guide 	<p>May 2020</p>
<p>6. Improve information sharing of industry threats, risks, and mitigations</p>	<ul style="list-style-type: none"> • Health Sector Return to Work Guidance • Health Industry Cybersecurity Tactical Crisis Response Guide • Health Industry Cybersecurity Information Sharing Best Practices • Health Industry Cybersecurity Matrix of Information Sharing Organizations (HIC-MISO) 	<p>June 2020 May 2020</p> <p>March 2020</p> <p>September 2019</p>

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Task Groups In Progress



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Task Group Status As Of October 1

- **405(d) – HEALTH INDUSTRY CYBERSECURITY PRACTICES**
 - Released HICP Wave 1 Supplements (Quick Start and Matrix); continuing with Wave 2 and 3 supplements development
- **FUTURE GAZING**
 - Preparing White Paper on Artificial Intelligence
- **HEALTH TECHNOLOGY RISK ANALYSIS**
 - Resuming activity in Q3 following COVID-19 suspension
- **IP DATA PROTECTION**
 - Published Health Industry Cybersecurity Protection of Innovation Capital Guide May 2020; to disband after HIC-PIC marketing initiatives
- **INTERNATIONAL**
 - Hosting webinars on health-cyber international coordination
- **MEDICAL TECHNOLOGY - Original JSP Task Group in oversight role for sub-Task Groups:**
 - **LEGACY DEVICES**
 - Ongoing
 - **MODEL CONTRACTS**
 - Ongoing
 - **VULNERABILITY COMMUNICATIONS**
 - Ongoing
- **CYBERSECURITY METRICS**
 - Task Group launch pending
- **POLICY**
 - Activates as needed for policy proposals and response
- **RISK ASSESSMENT**
 - Finalized NIST Cyber Framework Implementation guide; under review by HHS for possible co-branding
- **SUPPLY CHAIN**
 - Published HIC-SCRiM v2 on September 22; Assessing options for next initiative
- **TELEMEDICINE**
 - Finalizing telemedicine cybersecurity white paper
- **WORKFORCE DEVELOPMENT**
 - Reorganizing after suspending activity for COVID shutdown

Membership and Leadership

CWG Membership by the Numbers - as of September 30, 2020

- 251 voting organizational members, including 39 industry associations
- 44 non-voting advisor companies
- Q3 2020 increase from 250 to 251 voting members
- Government organizations include 8 federal agencies, 2 state agencies, 2 city agencies, and 2 Canadian
- Total representing personnel: 599

Organizational Membership Subsector Distribution

- Direct Patient Care: **39.8%**
- Health Information Technology: **9.8%**
- Health Plans and Payers: **4.9%**
- Mass fatality and Management Services: **0**
- Medical Materials: **10.4%**
- Laboratories, Blood, Pharmaceuticals: **4.6%**
- Public Health: **3.25%**
- Cross-sector: **4.0%**
- Government (Fed, State, County, Local): **4.3%**
- Non-Voting Advisors: **13.5%**

Webpage Metrics, Social Media, and Press Foot-Print

Webpage Views

Total Page Views

- 7,964
- **45.2% Decrease from Q2 2020**
- *Unique Page Views*
 - 7,273
 - **44.2% Decrease from Q2 2020**

Social Media Followers (since account opening October 2018)

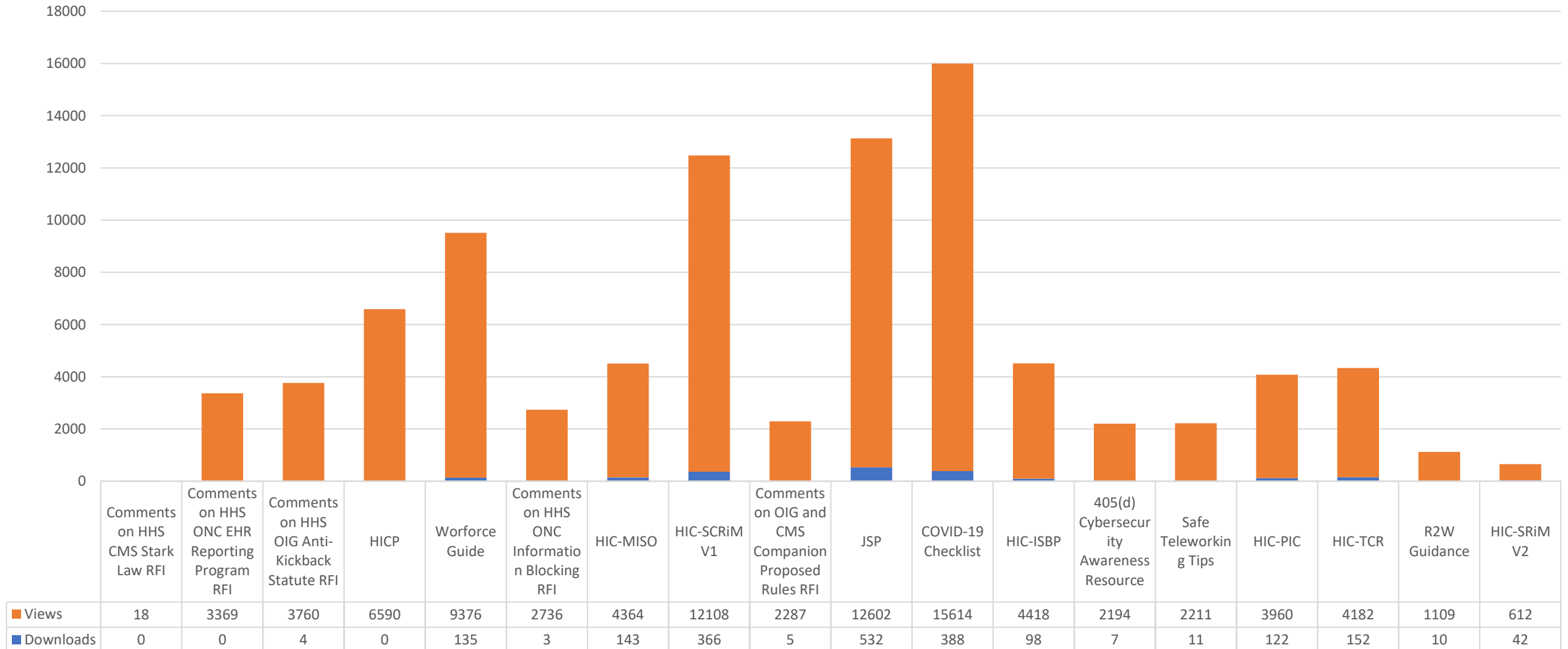
- LinkedIn: 303 *6.3% increase from Q2 2020*
- Twitter: 94 *3.3% increase from Q2 2020*
- Press Mentions
 - 6 Press Mentions in Q3 2020

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View and Download Statistics of HSCC Recommendations

*all downloads based on May 2019 installation of download plugin**



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Executive Committee

NAME	AFFILIATION	ROLE	SUBSECTOR	END OF TERM
CHAIR: TERRY RICE	MERCK & CO.	CISO	PHARMA, LABS & BLOOD	DECEMBER 2020
VICE CHAIR: THERESA MEADOWS	COOK CHILDREN'S HEALTH CARE SYSTEM	CIO	DIRECT PATIENT CARE	DECEMBER 2020

DIRECT PATIENT CARE

NAME	AFFILIATION	ROLE	END OF TERM
ERIK DECKER	UNIVERSITY OF CHICAGO MEDICAL CENTER	CHIEF INFORMATION SECURITY & PRIVACY OFFICER	DECEMBER 2021
THERESA MEADOWS	COOK CHILDREN'S HEALTHCARE SYSTEM	SENIOR VICE PRESIDENT AND CHIEF INFORMATION OFFICER	DECEMBER 2020

HEALTH INFORMATION TECHNOLOGY

NAME	AFFILIATION	ROLE	END OF TERM
TOM LEARY	HEALTHCARE INFORMATION & MANAGEMENT SYSTEMS SOCIETY (HIMSS)	VICE PRESIDENT, GOVERNMENT RELATIONS	DECEMBER 2020

HEALTH PLANS AND PAYERS

NAME	AFFILIATION	ROLE	END OF TERM
MARILYN ZIGMUND LUKE	AMERICA'S HEALTH INSURANCE PLANS	VICE PRESIDENT	DECEMBER 2022

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Executive Committee

MEDICAL MATERIALS

NAME	AFFILIATION	ROLE	END OF TERM
MICHAEL MCNEIL	MCKESSON	SVP & CHIEF INFORMATION SECURITY OFFICER	DECEMBER 2022

PHARMACEUTICALS, LABS AND BLOOD

NAME	AFFILIATION	ROLE	END OF TERM
GREG BARNES	AMGEN	CHIEF INFORMATION SECURITY OFFICER	DECEMBER 2021

PUBLIC HEALTH

NAME	AFFILIATION	ROLE	END OF TERM
SRI BHARADWAJ	FRANCISCAN HEALTH	VICE PRESIDENT, DIGITAL INNOVATION	DECEMBER 2020

CROSS SECTOR

NAME	AFFILIATION	ROLE	END OF TERM
DENISE ANDERSON	HEALTH ISAC	PRESIDENT	DECEMBER 2021

AT-LARGE

NAME	AFFILIATION	ROLE	END OF TERM
MARK JARRETT	NORTHWELL HEALTH	CHIEF QUALITY OFFICER, SENIOR VICE PRESIDENT & DEPUTY CHIEF MEDICAL OFFICER	DECEMBER 2022

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Sector Specific Agency Co-Leads

Suzanne Schwartz

Director

Office of Strategic Partnerships & Technology Innovation (OST)

Center for Devices and Radiological Health

U.S. Food and Drug Administration

Bob Bastani

Senior Cyber Security Advisor

Security, Intel, and Information Management Division

Office of the Assistant Secretary for Preparedness & Response

U.S. Department of Health and Human Services

Julie Chua

Director, Governance, Risk, Compliance (GRC)

HHS Office of the Chief Information Officer

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