Developing Cyber-Risk Information Sharing Networks for Medical Device Patients and Caregivers

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MBA, Ph.D., CRISC, HCISPP, CISSP, PMP

- 30 years’ experience in Information Systems.
- 20+ years’ experience in Information Security.
- 10+ years’ experience in Healthcare IT Project Management.
- Former VP Information Systems, Alpha-Omega Chemical Company.
- BS Information Technology Management, MBA Information Technology Management, Doctor of Philosophy in Information Technology with a specialization in Information Assurance and Cybersecurity. Focus: Medical Device Cybersecurity.
Active Medical Devices
SITUATION
I want this THING taken out of me
I can’t believe this is happening...
What did you do to me?
You’re not even connected to me and you’re in control
Has my device been Hacked?
Is somebody going to break into my device while I am asleep?
I don’t want anyone hacking me in my sleep
What the heck is Cybersecurity?
Why is this thing in my body?
How much does all of this cost?
COMPLICATION
Hackers don’t want your Pacemaker...
they want your money
The risk of your device being hacked is too low to even worry about
There haven’t been any deaths or injuries reported
We’re doing everything we can to keep you and these devices safe.
We really don’t tell the patients anything
We don’t want to scare patients
We always have to consider the risks
In a lot of cases they don’t really understand what’s happening
But if they ask we’ll tell them anything they want to know
There’s no where they can go to get information
A lot of their information comes from the media
The media is the last place where patients should be getting cybersecurity information.
They want to hear it from their Doctors because that’s who they really trust.
It’s left up to us (Nurses and Technicians) to provide cybersecurity information
The manufacturers don’t give us any cybersecurity information
Patients can go to the manufacturer’s website for cybersecurity information.
But who’s going to do that?
Some patients are savvy enough to ask questions about cybersecurity
Or have family members who ask questions about cybersecurity
I don’t know of anywhere they can easily go to get cybersecurity information
The one piece of advice I always give patients is “Be curious.”
Catalyst
Communication
Collaboration
Community
Commitment
Evolve
Be Curious
Thank You.