Cyber facts and figures (An Initiative by) Scholastic Seed Inc.

Medical Devices: A Growing Threat to Healthcare Organizations

BY 2020:
Worldwide growth of the **MEDICAL DEVICE MARKET** is expected to be **$435.8 B**

67% of medical device manufacturers **&** **56%** of healthcare delivery organizations (HDOs) believe an attack is likely in the next year on one or more medical devices.

49% of healthcare device organizations said the use of mobile devices in hospitals and other healthcare organizations is greatly increasing security risks.

Only **5%** of HDOs said they test medical devices annually, WITH **53%** SAYING THEY **DO NOT TEST DEVICES AT ALL.**

33% of device makers and HDOs are aware of potential adverse effects to patients due to an insecure medical device.

BUT DESPITE THE RISK ONLY **17%** OF DEVICE MAKERS & **15%** OF HDOS ARE TAKING SIGNIFICANT STEPS TO PREVENT SUCH ATTACKS.

TOP REASONS FOR WHY DEVICES REMAIN VULNERABLE INCLUDE:
1. Lack of training on secure coding practices
2. Accidental coding errors
3. Pressure on development teams to meet deadlines

80% of device makers and HDOs report that medical devices are very difficult to secure.

WITHOUT STRONG AND UPGRADEABLE SECURITY PROTECTION, MEDICAL DEVICES ARE OPEN TO:
DATA THEFT | SPYWARE | MALWARE | RANSOMWARE

PEOPLE WITH UNAUTHORIZED ACCESS CAN MAKE SETTINGS OR REPROGRAM DEVICES.

50% of United States consumers **&** **38%**
would think twice about using any internet-connected medical device after a hacking incident. / would be wary of using a hospital associated with a hacked device.
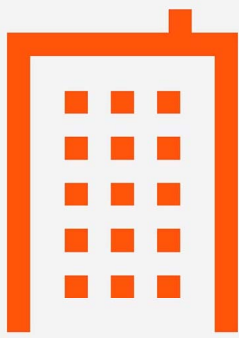
" The security of medical devices is truly a life or death issue for both device manufacturers & healthcare delivery organizations. "

Dr. Larry Ponemon,
Ponemon Institute Chairman and Founder

Sources: Deloitte, Department of Commerce, FDA, Statista, NBC News, Cision PR Newswire

Florida Tech

Powered by Bisk, on behalf of Florida Tech
©2017 Bisk Education

By 2020, **100%** of large enterprises will be asked to report to their board of directors on cybersecurity and technology risk at least annually, up from 40% today.

Source: Gartner
© 2016 Gartner, Inc. and/or its affiliates. All rights reserved.

Gartner.

CYBER WORRIES

1.75 lakh sophisticated cyber security cases between Jan 2013 and Oct 2016: CERT-IN

29,907 other cyber crime cases reported by NCRB between 2013 and 2015

Only a few hundred security engineers in India; lakhs needed

₹**485** crore lost to ATM, bank thefts in 3.5 years