TECH MeD

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Overview

Goal: Develop Transdisciplinary Education on Critical Hacking of Medical Devices (TECH MeD) to create a pipeline of informed and cognizant professionals, patients, and citizens who are aware of the challenges of increased reliance on implantable medical devices to assist in life-sustaining functions.

To accomplish this goal, we are creating educational programs that bring together experts in various disciplines, including computer science, medicine, bioethics, law, and policy who, through video recorded clips, highlight different aspects of the cybersecurity issues related to life-sustaining medical devices. Target audiences for these education programs are current medical, nursing and legal practitioners; graduate and undergraduate students in the sciences and social sciences; and the general public.

To create the video clips, the TECH MeD team conducted semi-structured interviews with experts from:

- Private technology industry
- Harvard Medical School / Massachusetts General Hospital
- Georgia State University Law School
- University of Kentucky Law School
- Food and Drug Administration (*to be conducted)

General Education Program Outline

Module 1	Introductory/Medical Issues (4 Lessons)
Module 2	Technical Issues (4 Lessons)
Module 3	Technical Issues (4 Lessons)
Module 4	Legal Issues (4 Lessons)
Module 5	Ethical/Policy Issues (4 Lessons)

Approach: 3 Education Programs

Professional Education

Continuing Medical Education
- Continuing Medical Education (CME) accreditation by the University of North Texas Health Science Center
- To be offered as online CME modules

General Public

Massive Open Online Course (MOOC)
- To be offered via Coursera platform

Web Repository
- Expert video clips to be available via TECH MeD YouTube channel
- Readings to accompany video

Students

Undergraduate and Graduate
- Curriculum to be made available on web repository
- Suggestions for order of videos, readings to accompany videos

Interested in meeting the PIs? Attach post-it note below!