

The case study of medical implant risk analysis highlights the importance of ethical computing in the development and use of medical devices. The company in the case study failed to conduct a proper risk analysis, which could have harmed patients. This violates the ACM code of ethics, which states that computing professionals should "avoid doing harm" and "be honest and trustworthy." The case also raises questions about the ethics of developing and marketing medical devices that have the potential to be hacked or otherwise compromised. (ACM). N.D)

The BCS Code of Conduct also has provisions that are relevant to the situation described in the case study. Clause 1 states that computing professionals have a responsibility to maintain professional competence, and Clause 2 states that they have a responsibility to act in the best interests of their employers and clients. (Bcs.org, 2022)

The case study shows that computing professionals have a responsibility to use their skills for the benefit of society and to avoid harm to others. They also have a responsibility to be honest and trustworthy, and to act in the best interests of their employers and clients. (Association for Computing Machinery (ACM). N.D)

Here are some how the company in the case study violated the ACM code of ethics:

- They failed to conduct a proper risk analysis, which could have harmed patients.
- They did not disclose the security vulnerabilities of the device to patients or healthcare providers.
- They did not take steps to mitigate the risks associated with the device.

Thanks for the review comments, here are the ways professions and organisations adopt ACM and BCM codes. (Bcs.org, 2022) & (ACM). N.D)

**Emphasising Privacy and Security** The rapid development of new medical technology has increased the amount of personal and medical data they store and handle.

**Promote transparency and accountability.** Medical device manufacturers and healthcare providers must disclose the risks and benefits of these technology and their patient safety precautions.

**Keep up with the latest developments.** The ethical principles that govern medical technology must evolve with it.

Association for Computing Machinery (ACM). N.D ACM Code of Ethics and Professional Conduct. Available from <https://www.acm.org/code-of-ethics> [Accessed on Aug 22 2023]

Association for Computing Machinery (ACM). (N.D). Case Study: Medical Implant Risk Analysis. Available from: <https://ethics.acm.org/code-of-ethics/using-the-code/case-medical-implant-risk-analysis/>[Accessed on Aug 23 2023]

Bcs.org, 2022. CODE OF CONDUCT FOR BCS MEMBERS. Available From:  
<https://www.bcs.org/media/2211/bcs-code-of-conduct.pdf> [Accessed on Aug23 2023]