

Abstract

Background: Artificial pacemaker and implantable cardioverter defibrillator are susceptible to electromagnetic interference that can interfere with normal operation. Knowledge of the physical elements allow identify the workers with implantable cardiac devices more susceptible to electromagnetic interference in workplace.

Objective: Identify electromagnetic interference sources in workplace and describe the physical elements of this interference on implantable cardiac devices.

Methods: Literature review of articles in online database with free or regulated access through research institutions

Conclusion: Due to peculiar mechanisms, artificial pacemaker and implantable cardioverter defibrillator present distinct responses to electromagnetic interference. Follow the recommendations for use provide safety to workers with implantable cardiac devices and improve rehabilitation process in workplace.

Key words: artificial pacemaker, implantable defibrillators, electromagnetic interference.