

Medical Research of TASER Electrical Weapons

Jeffrey D. Ho, MD
Department of Emergency Medicine
Hennepin County Medical Center
Minneapolis, Minnesota
USA

Donald M. Dawes, MD
Department of Emergency Medicine
Lompoc District Hospital
Lompoc, California
USA

Mark A. Johnson, BS
Division of Medical and Technical Research
TASER International
Scottsdale, Arizona
USA

Introduction: TASER conducted electrical weapons (CEW) are used by US military and law enforcement personnel to subdue combative subjects with increasing popularity. To date, there have been numerous efforts to produce research studies to document CEW safety or lack thereof. This presentation will provide the audience with a historical timeline and overview of research in this area to the present.

Presentation: The authors will present an overview of the current CEW products available on the market and will discuss pertinent research on these devices from the past up through present day studies that are currently in progress. Successful methodologies will be discussed as will results, conclusions and limitations.

Areas of research to be presented include will include but are not limited to:

1. Sudden death
2. Use on resting adults
3. Use on exhausted adults
4. Use on intoxicated adults
5. Effects on respiration
6. Effects on body temperature

Conclusion Objectives: At the end of this presentation, the audience will have an understanding of currently manufactured and used CEWs. They will also be aware of the previous research conducted on these devices in the area of physiologic safety and how this affects current thinking about the safety of these devices. Lastly, they will have an understanding of recent and current research being conducted in this area and where it is leading.