Case Report

Death in the “microwave oven”: A form of execution by carbonization

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ABSTRACT

Death in the “microwave oven” has nothing to do with microwaves energy. It is the jargon name given to a criminal form of execution by carbonization that has been adopted by drug dealers in Rio de Janeiro (Brazil). The goal is to torture and intimidate victims, in an attempt of corpse occultation and to make identification harder or impossible. This paper brings to attention of the forensic international community an unusual and very cruel form of execution as a way to document these situations.

1. Introduction

Death in the “microwave oven” has nothing to do with microwaves energy. It is the jargon name given to a criminal form of execution by carbonization that has been adopted by drug dealers in Rio de Janeiro (Brazil). The goal is to torture and intimidate victims, in an attempt of corpse occultation and to make identification harder or impossible. The method consists in placing the victim, still alive, inside a pile of tires and setting it on fire. The resemblance to an oven inspired the popular term “death in the microwave oven” (Fig. 1). This paper intends to make public this very violent form of death.

2. Case report

The article presents four cases of homicides using carbonization. All cases occurred in the slums where victims were killed inside tires (“microwave oven”). In the first case, charring was not complete and it was possible to observe the presence of soot in the trachea and lung – Montalti sign (Fig. 2) [1,2]. The carmine hue in the lung and brain shows the victim was “cooked” by heat. The heat produces a post mortem artefact that should not be confused with subarachnoid hemorrhage. In this case the toxicology was positive for carbon monoxide, the evidence that the victim was still alive when it was burned.

In the other cases (Figs. 3 and 4) it is possible to observe the metal alloy tire near the corpses. In the fourth case although with extensive charring it was possible to identify a gunshot fracture.

3. Discussion

In a forensic examination of a carbonized corpse identification is essential. Even in cases of total carbonization it is possible to establish the victim’s sex by finding the uterus or prostate which in many cases may be found well preserved [2–6]. Additional methods of identification such as radiology, forensic odontology and forensic biology (DNA) are a major help. All the elements that might be capable of contributing towards this identification process are essential and among these are orthopaedic prostheses, which frequently remain intact [7,8]. However in many of these Brazilian cases of “Death in the microwave oven” the victim’s identification becomes quite difficult or even impossible because relatives intimidated through fear of retaliation refuse to collaborate with the authorities.

Another important step in these “execution” cases is the investigation to determine if the victim was still alive or already dead during the carbonization [9,10]. In the former, Montalti’ sign is of great value. Just as valuable is the knowledge that injuries with hiperemia may also be inflicted in post mortem. The
Fig. 1. A. Steel belts inside the tire. B. A pile of tires. C. Very realistic scenes from the movie Elite Squad (“Tropa de Elite”) that reproduces how the victim is positioned inside a pile of tires. The victim is burned alive as a form of torture.

Fig. 2. Case 1. (A) Presence of soot in the trachea (Montalti sign – arrow). The victim was alive when it was burned. (B) Detail of the brain which was “cooked” by heat. The heat produces a post mortem artefact that should not be confused with a subarachnoid hemorrhage.

Fig. 3. Cadaver of a young man who was charred inside a pile of tires. Detail of metallic debris from the tires (arrows).

Fig. 4. Charred corpse, anthropological examination revealed that it was a young adult man. Arrow points the tire metal belts.

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toxicological analysis of carbon monoxide is mandatory; however cyanides may be associated to the death mechanism [3,4].

Trauma interpretation in skeletal remains involving burning can be difficult due to heat related fractures and fragmentation. However experimental studies and casework experience indicate that diagnostic evidence of trauma can survive the burning event but found that their appearance could be influenced by burning-related fragmentation [9–13].

In a skull gunshot fracture, endocranial bevelling is one of the most important indicators of an entry wound. Classic entrance wounds are round or ovoid-shaped openings with sharp edges and a clear punched-out appearance [14]. Internal bevelling can be very useful to identify an entrance wound known as Bonnet’ sign [1]. In this case (Fig. 5), the skull was extremely fragmented due to traumatic and heat related fractures. Nevertheless it was possible to identify such a lesion which demonstrates the need for a thorough anthropological reconstruction.

4. Conclusions

This paper brings to attention of the forensic international community an unusual and very cruel form of execution and shows the importance of the correct study of the vital reaction phenomenon and anthropological study as a way to document these situations.

References