

Accepted Manuscript

Title: Accidental fatal craniocerebral injury caused by broken chain of sawing tool

Authors: Jozef Sidlo, Henrieta Sidlova

PII: S0379-0738(18)30299-8
DOI: <https://doi.org/10.1016/j.forsciint.2018.05.045>
Reference: FSI 9340

To appear in: *FSI*

Received date: 19-5-2018
Accepted date: 26-5-2018



Please cite this article as: Jozef Sidlo, Henrieta Sidlova, Accidental fatal craniocerebral injury caused by broken chain of sawing tool, *Forensic Science International* <https://doi.org/10.1016/j.forsciint.2018.05.045>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Accidental fatal craniocerebral injury caused by broken chain of sawing tool

Jozef Sidlo^{a*} (Šidlo), Henrieta Sidlova^b (Šidlová)

^aInstitute of Forensic Medicine, Faculty of Medicine, Comenius University, Sasinkova 4, 811 08 Bratislava, Slovakia

e-mail: sidlo45@gmail.com

^bInstitute of Pathology, Faculty of Medicine, Slovak Medical University and Cytopathos Ltd., Limbova 12, 833 03 Bratislava, Slovakia

e-mail: sidlova@cytopathos.sk

*Corresponding author:

Sasinkova 4

811 08 Bratislava

Tel.: +421904819241

E-mail address: sidlo45@gmail.com

Highlights

- Non-fatal injuries caused by sawing tools are relatively frequent
- On the contrary, fatal saw-related injuries are very rare
- Most of fatal saw-related injuries occurred with suicidal ideation
- Accidental fatal injuries caused by sawing tools are extremely rare

Abstract

The case of an accidental fatal penetrating craniocerebral injury to a 26-year-old man at work when cutting wood is reported. There was used an angle grinder with an accessory for cutting similar to a chainsaw. The injury was caused by a fragment of the broken chain. The chain fragment broke through the facial part of the head to the left and penetrated the brain in the region of the left parietal bone of the cranial vault. The immediate cause of death was a failure of the central nervous system (brain death). The toxicological analysis of biological materials was negative. The death occurred as a result of a triple violation of safety precautions. The presented case is extremely rare in terms of fatal injuries caused by power tools for sawing having been published in the forensic literature.

Keywords: Power saw, Angle grinder, Chain, Autopsy, Accident, Head injury

Introduction

Power saw-related injuries can be caused by three types of saws [1]; table or portable circular [2,3], band [4,5] and chain [6] saws. Such injuries most often occur randomly in working and non-working settings when cutting wood [7-10]. Injuries are located in different parts of the body especially the head, neck, and extremities [2,11-13]. When using chainsaws, they are most often caused by a so-called kickback phenomenon at bouncing back from a hard object located in the wood, and they are usually not fatal [14,15]. Fatal injuries caused by using power saws are described in the literature extremely rarely. In most cases, it deals with causing harm in suicidal ideation [1,5,16-20], exceptionally with assaulting by another person [21,22]. The paper presents an exceptional case of accidental fatal craniocerebral injury caused by a fragment of the broken chain when cutting wood.

Download English Version:

<https://daneshyari.com/en/article/6550879>

Download Persian Version:

<https://daneshyari.com/article/6550879>

[Daneshyari.com](https://daneshyari.com)