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Effects of intravascular laser phototherapy on delayed neurological sequelae as evaluated by brain perfusion imaging: A case report and review of literature

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Abstract

BACKGROUND

Delayed neurological sequelae (DNS) caused by carbon monoxide (CO) intoxication poses considerable treatment challenges to clinical practitioners. In this report, we have used nuclear medicine imaging and the Mini-Mental State Examination to evaluate the effectiveness of Intravascular Laser Irradiation of

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**History of Lasers in Neuros...**

Mechanism of Action

Litt System



The application of lasers in the brain started in 1965, when a pulsed ruby laser was used on the cranium of mice and guinea pigs, leading to immediate death [4]. The cause of death was sudden increased intracranial pressure due to the explosive interaction of the laser and the brain tissue in a closed cranium [5,6,7]. Later, the pulsed ruby laser was used on exposed brains of cats, leading to hemorrhagic lesions at the site of impact [8]. The aim of these early reports was to study the destructive effect of laser on tis...

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Introduction. T raumatic **brain** injury (TBI) caused by blast has been of particular relevance to the military and civilian health care sectors since the onset of the Global War on Terrorism (Operation Iraqi Freedom and Operation Enduring Freedom). The news media and many professional articles have referred to blast-related TBI (bTBI) as the “signature injury” of the war.

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