

Rizzo Giovanni, Ruffino Rosa, Chiofalo Salvatore, Rizzo Gisella, Clemente Melchiorre

UOSD Anestesia e rianimazione P.O. Vittorio Emanuele II Castelvetro

Introduction

Drug and substance abuse, including the use of androgenic and anabolic steroids, remains a significant medical concern, particularly in relation to liver disease. The liver is highly vulnerable to damage from various substances, and steroid use has been specifically linked to several forms of liver injury.

Methods

Here we present a Clinical Case Report of a Liver Damage Due to Drug Use in a 26-Year-Old Male, presenting Jaundice and liver dysfunction. The patient has a history of drug abuse, including anabolic steroids and narcotics. He was using a combination of substances which were contributing to mixed jaundice and liver damage. The patient presented with yellowing of the skin and sclera. He was noted to be bradycardic, with a heart rate of 50 bpm, though he had normal renal function. The liver function tests (LFTs) revealed significant abnormalities, indicating severe liver damage (Total Bilirubin (TB): 42.20 mg/dL; Direct Bilirubin (DB): 28.82 mg/dL. The elevated direct bilirubin suggests a cholestatic component to the liver injury. SGOT (AST): 63 U/L).

Results

The patient required seven consecutive CytoSorb® treatments to successfully reduce and stabilize his TB and DB levels (fig.1), which were initially elevated to critical levels. This approach allowed for continuous liver support during the critical period of liver injury caused by the use of multiple drugs, including anabolic steroids and narcotics. In addition to reducing bilirubin, the liver function parameters were kept low during treatment, which allowed the liver to rest and gradually begin the process of self-recovery.

Conclusion

CytoSorb® is a valuable therapeutic option for managing liver dysfunction in various conditions, including mixed jaundice associated with drug-induced liver damage. This extracorporeal blood purification therapy has demonstrated effectiveness in reducing key toxins such as TB and DB, which are central to liver dysfunction and jaundice

Figure 1

