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Name of Journal: *World Journal of Clinical Cases*

Manuscript NO: 57187

Manuscript Type: CASE REPORT

Azacitidine decreases reactive oxygen species production in peripheral white blood cells: A case report

Hasunuma H *et al.* ROS production decreased with recovery of normal hematopoiesis

Hidekazu Hasunuma, Naomi Shimizu, Hiromitsu Yokota, Ichiro Tatsuno

Abstract

BACKGROUND

In myelodysplastic syndrome (MDS), oxidative stress is closely related to iron overload and DNA damage. A recent study suggested the possibility that increased oxidative stress causes not only iron overload but also disease progression of MDS with DNA damage. We present a case of MDS with decreased reactive oxygen species (ROS)



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Publish Year: 2014

The Simultaneous Elevation of Oxidative Stress Markers and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5283969>

Dec 15, 2016 · We evaluated the oxidative stress markers derivatives of reactive oxidative metabolites (dROM) and 8-hydroxy-2'-deoxyguanosine (8-OHdG) during azacitidine treatment in an MDS patient. Simultaneous with an increase in the expression of Wilms' Tumor 1 (WT1) gene in the peripheral blood, the serum dROM level was elevated, and this increase was ...

Cited by: 2

Author: Naomi Shimizu, Hidekazu Hasunuma, Ya...

Publish Year: 2016

Reactive Oxygen Species Production and Mitochondrial ...

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0091005> ▾

Mar 10, 2014 · Reactive oxygen species (ROS) are highly reactive molecules that contain an unpaired electron capable of taking an electron away from a target molecule in order to restore its stable state. ROS are important in many biological processes such as prostaglandin synthesis, immune defences, various enzymatic reactions and cell signalling processes.

Cited by: 6

Author: Laura Wiley, Deepthi Ashok, Carmen Mar...

Publish Year: 2014

Alterations in the Reactive Oxygen Species in Peripheral ...

europepmc.org/abstract/MED/28969255 ▾

Reactive Oxygen Species (ROS) are a heterogeneous group of free radicals generated naturally in cellular metabolism from diatomic oxygen. Physiologically, they have a diverse range of functions, ranging from antimicrobial defence in myeloid cells to cell cycle progression, cell motility and growth factor signalling in normal cells [1].

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Reactive Oxygen Species Production and Mitochondrial ...

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Mar 10, 2014 · Reliable and valid biomarkers of ageing (BoA) are needed to understand mechanisms, test interventions and predict the timing of adverse health events associated with ageing. Since increased **reactive oxygen species** (ROS) **production** and mitochondrial dysfunction are consequences of cellular senescence and may contribute causally to the ageing of organisms, we focused on these parameters ...

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Author: Laura Wiley, Deepthi Ashok, Carmen Mar...

Publish Year: 2014

Oxidative stress and antioxidant treatment in patients ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5880878>

Apr 02, 2018 · Effort induced cycles of ischemia and reperfusion lead to increased **reactive oxygen species production** by mitochondria. Therefore, the pathophysiology of **peripheral** artery disease is a consequence of metabolic myopathy, and oxidative stress is the putative major operating mechanism behind the structural and metabolic changes that occur in muscle.

Cited by: 10

Author: Panagiotis Koutakis, Ahmed Ismaeel, Pat...

Publish Year: 2018