

# Author's Accepted Manuscript

Role of drugs in the prevention and amelioration of radiation induced toxic effects

Rakesh Raman Patyar, Sazal Patyar



PII: S0014-2999(17)30795-1  
DOI: <https://doi.org/10.1016/j.ejphar.2017.12.011>  
Reference: EJP71558

To appear in: *European Journal of Pharmacology*

Received date: 22 May 2017  
Revised date: 25 November 2017  
Accepted date: 4 December 2017

Cite this article as: Rakesh Raman Patyar and Sazal Patyar, Role of drugs in the prevention and amelioration of radiation induced toxic effects, *European Journal of Pharmacology*, <https://doi.org/10.1016/j.ejphar.2017.12.011>

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 galley proof before it is published in its final citable 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.

**Title: Role of drugs in the prevention and amelioration of radiation induced toxic effects**

**Authors:** Rakesh Raman Patyar, Sazal Patyar\*.

**Institute:** Indira Gandhi Medical College, Shimla (India) and \*School of Pharmaceutical Sciences, Lovely Professional University, Phagwara (India).

**Corresponding Authors: Dr. Sazal Patyar**

Associate Professor  
School of Pharmaceutical Sciences  
Lovely Professional University  
Phagwara, India  
E-mail: sazal\_niper@yahoo.co.in  
sazalpatyar@yahoo.co.in  
Ph. no: 9464859178

**Dr. Rakesh Raman Patyar**

Senior Resident  
Indira Gandhi Medical College, Shimla

**Abstract**

As the use of radiation technology for nuclear warfare or for the benefits of mankind (e.g. in radiotherapy or radio-diagnosis) is increasing tremendously, the risk of associated side effects is becoming a cause of concern. These effects, ranging from nausea/vomiting to death, may result from accidental or deliberate exposure and begin in seconds. Through this review paper, efforts have been done to critically review different compounds which have been investigated as radioprotectors and radiation mitigators. Radioprotectors are compounds which are administered just before or at the time of irradiation so as to minimize the radiation induced damage to normal tissues. And radiation mitigators are the compounds which can even minimize or ameliorate post irradiation-toxicity provided they are administered before the onset of toxic symptoms. A variety of agents have been investigated for their preventive and ameliorative potential against radiation induced toxic effects. This review article has focused on various aspects of the promising representative agents belonging to different

Download English Version:

<https://daneshyari.com/en/article/8529574>

Download Persian Version:

<https://daneshyari.com/article/8529574>

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