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**Name of Journal:** *World Journal of Clinical Oncology*

**Manuscript NO:** 60532

**Manuscript Type:** MINIREVIEWS

**Systemic adverse effects and toxicities associated with immunotherapy: A review**

Kichloo A *et al.* Adverse effects of immunotherapy

Asim Kichloo, Michael Albosta, Dushyant Dahiya, Jean Claude Guidi, Michael Aljadah, Jagmeet Singh, Hafeez Shaka, Farah Wani, Akshay Kumar, Manidhar Lekkala

### Abstract

Immunotherapy is rapidly evolving secondary to the advent of newer immunotherapeutic agents and increasing approval of the current agents by the United States Food and Drug Administration to treat a wide spectrum of cancers. Immunotherapeutic agents have gained immense popularity due to their tumor-specific action. Immunotherapy is slowly transforming into a separate therapeutic entity, and

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### [A review of cancer immunotherapy toxicity - Kennedy - 2020 ...](#)

<https://acsjournals.onlinelibrary.wiley.com/doi/full/10.3322/caac.21596>

16 rows - Jan 16, 2020 - Ophthalmologic toxicity occurs in <1% of patients treated with ICI, and few case reports describing the ocular toxicities of ICI have been published to date. 92 Manifestations vary and include uveitis, peripheral ulcerative keratitis, Vogt-Koyanagi-Harada syndrome, choroidal neovascularization, melanoma-associated retinopathy, thyroid-associated orbitopathy, and idiopathic ...

Cited by: 74

Author: Lucy Boyce Kennedy, April K. S. Salama

Publish Year: 2020

	TOXICITY	BASELINE MON...	PRESENTATION	DIAGNOSIS
MANAGEMENT	Dermatologic	Complete skin a...	Maculopapular/p...	Complete skin ex...
Grade 1: emollie...	Dermatologic	Obtain history of ...	Dermal hypersen...	Consider skin bio...
Grade 2: high-po...	Obtain history of ...	Dermatomyositis	Consider skin bio...	Grade 3-4: hold I...
-	Obtain history of ...	Grade 3-4: hold I...	Consider skin bio...	Sweet syndrome

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**Immunotherapy Side Effects.** Immunotherapy can cause side effects, many of which happen when the immune system that has been rewed-up to act against the cancer also acts against healthy cells and tissues in the body. Different people have different side effects. The ones you have and how they make you feel will depend on how healthy you are before treatment, your type of cancer, how advanced it is, the type of immunotherapy ...

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## Neurological toxicities associated with immune-checkpoint ...

<https://pubmed.ncbi.nlm.nih.gov/28938341>

Purpose of **review:** Immune-checkpoint inhibitors (ICIs) constitute a novel class of agents recently approved to treat a number of human malignancies. Due to their immunomodulatory mechanism...

**Cited by:** 88 **Author:** Mehdi Touat, Daniel Talmasov, Damien ...

**Publish Year:** 2017

## Immunotherapy and associated immune-related adverse events ...

<https://bmccancer.biomedcentral.com/articles/10.1186/s12885-020-07215-3> ▾

Aug 10, 2020 · Although largely well tolerated, CPIs can generate **toxicities** including **immune-related adverse events** (irAEs) [ 2 ]. The release of the immune system to activate and expand to...

**Cited by:** 1 **Author:** Liz Jamieson, Martin D. Forster, Martin ...

**Publish Year:** 2020

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## [Immunotherapy Toxicities - PubMed](#)

<https://pubmed.ncbi.nlm.nih.gov/31079795>

Immune checkpoint inhibitors (ICIs) are **therapeutic antibodies** that target regulatory molecules on T cells and represent the most widely used FDA-approved class of **immunotherapy**. ICIs are associated with unique immune-mediated toxicities called immune-related adverse events. These toxicities may affect any organ system, and their precise mechanisms of action remain under ...

## [Toxicities from immunotherapy: From clinical trials to ...](#)

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In recent years, **immunotherapy** has become an important pillar of cancer treatment, with high response rates regardless of tumour histology or baseline mutations. However, immune activation **associated** with check-point inhibitors is not selective and a large variety of immune-related adverse events ha ...

**Author:** Mar Riveiro-Barciela, Ernesto Traller...

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