

Peripheral Nervous System Complications of Immunotherapy in Cancer Patients

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Disclosures

- Honoraria from Servier, Chimerix, Novocure



Learning Objectives

1. Explain the immunological mechanisms by which immune checkpoint inhibitors lead to neuropathic injury



Learning Objectives

2. Recognize and differentiate the spectrum of peripheral nervous system toxicities—such as inflammatory neuropathies, neuromuscular junction disorders, and myositis—in patients treated with immune checkpoint inhibitors



Learning Objectives

3. **Develop evidence-based management plans** for immunotherapy-related PNS complications, including diagnostic workup, immunosuppressive therapies, and strategies for therapy modification or rechallenge



Key Message

- Immune checkpoint inhibitors can induce diverse peripheral nervous system toxicities through off-target immune activation
- Prompt recognition, accurate diagnosis, and timely immunomodulatory treatment are essential to mitigate neurological morbidity while maintaining effective cancer therapy

