Orthopoxvirus Infections and the Nervous System: Insights into Smallpox and Monkeypox Complications

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Introduction

Overview of orthopoxvirus infections

Smallpox (variola virus):

Monkeypox:

Neurological Complications of Orthopoxvirus Infections

neurological complications

1. Smallpox and the Nervous System

Post-Vaccinal Encephalitis:

vaccinia virus,

post-vaccinal encephalitis,

2. Monkeypox and Neurological Complications

Encephalitis: **encephalitis**

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Cognitive and Psychological Symptoms:

cognitive impairments,

Mechanisms of Neurological Involvement in Orthopoxvirus Infections

Direct Viral Invasion:

Immune-Mediated Inflammation:

immune-mediated response.

Vaccine-Related Neurological Effects:

vaccinia virus

Management of Neurological Complications

Supportive Care:

Antiviral Therapy:

Immunotherapy:

Future Research Directions

1. **Epidemiological Studies:**
2. **Mechanistic Studies:**
3. **Vaccine Safety:**

Conclusion