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Name of Journal: *World Journal of Clinical Cases***Manuscript NO:** 54934**Manuscript Type:** CASE REPORT

Cauda equina arachnoiditis – a rare manifestation of West Nile virus neuroinvasive disease: a case report

Marija Santini, Ivana Zupetic, Klaudija Viskovic, Juraj Krznaric, Marko Kutlesa, Vladimir Krajinovic, Vlatka Lovrakovic Polak, Vladimir Savic, Irena Tabain, Ljubo Barbic, Maja Bogdanic, Vladimir Stevanovic, Anna Mrzljak, Tatjana Vilibic-Cavlek

Abstract**BACKGROUND**

Data regarding the neuroradiology features of the West Nile virus neuroinvasive disease (WNV NID) is rather scarce. To contribute to the knowledge of the WNV NID, we present a patient with a combination of encephalitis and acute flaccid paresis, with cauda equina

West Nile virus presenting as flaccid paralysis: Case ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4899671>

Cranial MRI findings were nonspecific, as reported in reviews of **West Nile virus encephalitis**. Her spinal MRI displayed enhancement of the **cauda equina** described infrequently in the literature. Knowledge of the **variable MRI appearance** is important for the recognition and diagnosis of this disease.

Cited by: 1 Author: Ivan M DeQuesada, Amit Saindane
Publish Year: 2012

West Nile Virus Disease Cases by State 2019 | West Nile ...

<https://www.cdc.gov/westnile/statsmaps/preliminary...> ▾

Nov 05, 2019 · **West Nile Virus Disease Cases*** and Presumptive Viremic Blood Donors by State – United States, 2019 (as of January 7, 2020) ... **Neuroinvasive Disease Cases†** ... Please refer to state health department web sites for further details regarding state **case** totals. Page last reviewed: January 7, 2020.

West Nile virus neuroinvasive disease: neurological ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4020876>

May 09, 2014 · **West Nile Virus** (WNV) is a mosquito-borne flavivirus that has caused ongoing seasonal epidemics in the United States since 1999. It is estimated that ≤1% of WNV-infected patients will develop **neuroinvasive disease** (**West Nile** encephalitis and/or myelitis) that can result in debilitating morbidities and long-term sequelae.

Cited by: 74 Author: John Hart, Gail Tillman, Michael A. Kraut, H...
Publish Year: 2014

West Nile Virus Has Been the Most Dangerous in These ...

<https://www.usnews.com/news/healthiest-communities/...> ▾

Aug 08, 2019 · Roughly 1 in 150 people infected by **West Nile virus** develop a **neuroinvasive disease**, and about 10% of them die, according to the CDC. People over 60 ...

Rare ocular manifestation in a case of West Nile virus ...

<https://www.researchgate.net/publication/261772666...>

Background: **Sandfly fever** is an incapacitating disease caused by sandfly-borne Phleboviruses that can lead to meningitis, encephalitis or meningoencephalitis. West Nile virus (WNV), a **mosquito-borne Flavivirus**, can induce neuroinvasive disease manifested by meningitis, encephalitis or **acute flaccid paralysis**.

Case Report: West Nile Virus Encephalitis: The First Human ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4530764>

Aug 05, 2015 · In December 2014, the WHO announced the confirmation of this first human **case of West Nile virus** (WNV) **disease** in Brazil, as described herein. 9 This **case** had unclear characteristics. The **disease** did not occur within the context of notified equine or avian morbidity or an outbreak of human acute febrile illness or **neuroinvasive syndrome**.

Cited by: 31 Author: Marcelo A. C. S. Vieira, Alessandro P. M. Ro...
Publish Year: 2015

Unusual Case of West Nile Virus Flaccid Paralysis in a 10 ...

<https://www.sciencedirect.com/science/article/pii/S0887899412006881>

West Nile virus neuroinvasive disease includes **encephalitis**, **meningitis**, and/or **acute flaccid paralysis**. In children, **acute flaccid paralysis** as the solo presentation of West Nile virus disease is rare. It develops abruptly and progresses rapidly early in the disease course.

Cited by: 12 Author: Farouq I. Thabet, Sarah E. Servinsky, Faree...
Publish Year: 2013

Neuroinvasive West Nile Virus Post–Heart Transplantation ...

<https://www.sciencedirect.com/science/article/pii/S004113451830976X>

West Nile virus (WNV) infection following solid organ transplantation is a **rare** but life-threatening complication. The delayed onset poses a challenge for diagnosis; therefore, it is important to maintain a high index of suspicion in any transplant patient with a fever of unknown origin—with or without neurologic symptoms.

Author: E. Dong, K. Morris, G. Sodhi, D. Chang, L... Publish Year: 2018

Neuromuscular Manifestations of West Nile Virus Infection

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3309965>

Mar 21, 2012 · The most common neuromuscular manifestation of West Nile virus (WNV) **infection** is a **poliomyelitis syndrome** with **asymmetric paralysis** variably involving one (**monoparesis**) to **four limbs** (**quadriparesis**), with or without **brainstem involvement** and **respiratory failure**.

Cited by: 90 Author: A. Arturo Leis, Dobrivoje S. Stokic
Publish Year: 2012

Virology, Pathology, and Clinical Manifestations of West ...

<https://wwwnc.cdc.gov/eid/article/11/8/05-0289b> ▾

West Nile virus (WNV) causes epidemics of febrile illness, meningitis, encephalitis, and flaccid paralysis. Since it was first detected in New York City in 1999, and through 2004, 16,000 WNV **disease** cases have been reported in the United States. Over the past 5 years, research on WNV **disease** has expanded rapidly. This review highlights new information regarding the virology, clinical ...

Pediatric West Nile Virus-Associated Neuroinvasive Disease ...

<https://www.sciencedirect.com/science/article/pii/S0887899418300626>

While most infected patients experience mild to no symptoms, thousands of West Nile virus-associated neuroinvasive cases have been reported in the United States, with over 700 cases occurring in children from 2003 to 2016. Neuroinvasive disease presents as meningitis, encephalitis, or ...

West Nile virus presenting as flaccid paralysis: Case ...

<https://www.sciencedirect.com/science/article/pii/S1930043315304945>

Cranial MRI findings were nonspecific, as reported in reviews of West Nile virus encephalitis. Her spinal MRI displayed enhancement of the cauda equina described infrequently in the literature. Knowledge of the variable MRI appearance is important for the recognition and diagnosis of this disease.

Clinical Manifestations and Outcomes of West Nile Virus ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3939474>

Feb 06, 2014 · 6. Risk Factors for Severe **West Nile Virus** Illness and Death. Of all infected persons, less than 1% develop **West Nile virus neuroinvasive disease** (WNND). Although WNND has been reported among all ages, the proportion of persons who progress to WNND is greater among older compared to younger persons.

[PDF] West Nile virus presenting as flaccid paralysis: Case ...

<https://open.library.emory.edu/publications/emory:rqbnv/pdf>

cauda equina, or both (6). A single case displayed en-hancement of cauda equina, as in our case, but without selective ventral involvement. Ali et al. imaged the spines of 3 patients who displayed motor weakness and found no consistent abnormalities; however, 2 of these patients' ab-normalities included enhancement of the cauda equina (12).



Cauda equina arachnoiditis – a rare manifestation of West Nile virus



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West Nile virus presenting as flaccid paralysis: Case ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4899671>

We present a serologically proven case of **WNV encephalitis** in a young, pregnant woman with cranial and spinal MRI findings who was seen for asymmetric, flaccid paralysis of her extremities. **Cranial MRI findings were nonspecific**, as reported in **reviews of West Nile virus encephalitis**.

Cited by: 1

Author: Ivan M DeQuesada, Amit Saindane

Publish Year: 2012

Neuromuscular Manifestations of West Nile Virus Infection

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3309965>

Mar 21, 2012 · **West Nile virus** has not been reported to **cause a defect in neuromuscular transmission**, but we have encountered three patients with WNV poliomyelitis who developed classic myasthenia gravis with positive acetylcholine receptor antibodies and a marked decremental response on **repetitive nerve stimulation** studies (initial case reported in Leis and Stokic, 2005). We also are ...

Cited by: 97

Author: A. Arturo Leis, Dobrivoje S. Stokic

Publish Year: 2012

Prognosis of West Nile virus associated acute flaccid ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3177918>



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[West Nile virus neuroinvasive disease: neurological ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4020876>

May 09, 2014 · Background. **West Nile Virus** (WNV) is a mosquito-borne flavivirus that has caused ongoing seasonal epidemics in the United States since 1999. It is estimated that $\leq 1\%$ of WNV-infected patients will develop **neuroinvasive disease** (**West Nile** encephalitis and/or myelitis) that can result in debilitating morbidities and long-term sequelae.

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[West Nile virus presenting as flaccid paralysis: Case ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4899671>

We present a serologically proven case of **WNV encephalitis** in a young, pregnant woman with cranial and spinal MRI findings who was seen for asymmetric, flaccid paralysis of her extremities. **Cranial MRI findings were nonspecific**, as reported in **reviews of West Nile virus encephalitis**.

Cited by: 1**Author:** Ivan M DeQuesada, Amit Saindane**Publish Year:** 2012

[West Nile virus neuroinvasive disease | Request PDF](#)

<https://www.researchgate.net/publication/227827311...>

The case report presented a patient who was **diagnosed with West Nile virus encephalitis** and developed **new onset of Bell's palsy** within 8 days of diagnosis. Given the ...

[\(PDF\) Neuromuscular Manifestations of West Nile Virus ...](#)

<https://www.researchgate.net/publication/223990506...>

The most common neuromuscular **manifestation of West Nile virus** (WNV) infection is a poliomyelitis syndrome with asymmetric paralysis variably involving one (monoparesis) to four limbs ...

[West Nile Virus: Epidemiology and Clinical Features of an ...](#)

<https://www.annualreviews.org/doi/10.1146/annurev.med.57.121304.131418>

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4020876/> s are asymptomatic, 20% result in self-limited **West Nile fever (WNF)**, and

West Nile Virus

Medical condition

The West Nile virus is spread by insects, most often mosquitoes. The West Nile virus can infect humans, birds, mosquitoes, horses, and some other mammals.

Scientific name: West Nile virus**Biological rank:** Species

People also search for: West Nile Fever · Zika Virus · Yellow Fever · Dengue virus · Japanese encephalitis · Flaviviridae · Encephalitis +

Symptoms

West Nile virus symptoms vary in severity. Severe symptoms can include:

- fever
- confusion
- convulsions
- muscle weakness
- vision loss
- numbness
- paralysis
- coma

A severe infection can last for several weeks. In rare cases, a severe infection can cause permanent...

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Causes

Typically, West Nile virus spreads to humans and animals via infected mosquitoes. Mosquitoes become infected when they feed on infected birds. You can't get infected from casual contact with an infected person or animal.