**Abstract**

Herpes zoster is due to a reactivation of the varicella-zoster virus (VZV) which remains quiescent in the dorsal sensory ganglia after chickenpox. The child’s shingles are rare and particularly the ophthalmic form, which can be responsible for serious eye complications and adequate early management. It is sometimes associated with post-zosterian pain whose treatment is difficult. Oral acyclovir administered within 72 hours after the rash has proven effective in preventing eye complications. We report a new case in an immunocompetent boy of 9 years old, without any notion of anterior chickenpox.

**Keywords:** Ophthalmic Zoster; Rare; Immunocompetent; Child.

**Abbreviations:** VZV: Varicella - Zoster Virus; HZO: Herpes Zoster Ophthalmicus.

**Introduction**

Herpes zoster occurs due to reactivation of the latent varicella zoster virus and is usually a disease of the elderly. Childhood herpes zoster is believed to be rare, and particularly the ophthalmic form, defined as herpes zoster of the ophthalmic branch of the fifth cranial nerve [1]. This can be responsible for serious eye complications requiring adequate and early management [2]. We report a new case.

**Case Report**

A 4-year-old child, with no pathological antecedents, presented with a left vesicular-crusted frontal rash [Figure 1, 2] evolving in a context of fever and general state preservation. The evolution was marked by a rapid extension of lesions with conjunctival hyperemia and tearing, without pruritus. The ophthalmic examination with the slit lamp and the fundus eye was normal, and then put on emergency aciclovir. The evolution was marked by clinical improvement with regression of oedema and pain. A minimal biological analysis was performed including a normal blood count, blood sugar and HIV serology. The current retreat is 18 months without any recurrence or post-herpetic pain.

**Discussion**

Herpes Zoster (HZ), also referred to as shingles, is caused by reactivation of the varicella-zoster virus (VZV) in people who have had chicken pox (varicella), the primary infection caused by VZV, typically resulting in a painful, unilateral, dermatomal vesicular rash. About 20% of HZ involve the first division (ophthalmic) of cranial nerve V (trigeminal) resulting in HZO [2].

Historically, childhood herpes zoster was thought to be an indicator for an underlying malignancy, especially acute lymphatic leukemia, whereas recent studies have shown no increase in the incidence of malignancy in children with herpes zoster. Approximately 3% of the pediatric zoster cases occur in children with malignancies. Rising incidence of herpes zoster in otherwise healthy children may be due to acquiring primary varicella infection in utero, or in infancy, where in the immunity is not fully developed. Vaccination with live attenuated virus may also contribute [3, 4].

HZO usually begins with pain and an erythematous maculopapular, then vesicular rash in the dermatomal distribution of the trigeminal nerve. The ophthalmic division of the trigeminal nerve can be divided into the frontal, lacrimal and nasociliary nerves.
Involvement of the eye is most common when accompanied by vesicles on the tip or side of the nose, indicating that the nasociliary branch of V-1 is affected. This is known as a positive Hutchinson’s sign. Ophthalmic involvement presents clinically with a painful red eye, most commonly caused by corneal keratitis and/or uveitis, subconjunctival haemorrhage can also be an initial presentation of HZO in children [5]. Occasionally, other rashes mimic zoster, including herpes simplex skin infection, contact dermatitis and staphylococcal impetigo. Conjunctivitis or bacterial uveitis may have similar presentation to that of HZO, particularly when the skin rash is less distinct. It is important to distinguish HZO from these other conditions, to ensure an appropriate treatment and prevent complications. Acyclovir is the first choice treatment for children and the suggested dose is 10 mg/kg every 8 hours for 7 days. Starting within 72 hours of initial symptoms significantly reduces adverse outcome. Topical steroids are recommended for treatment of conjunctival, corneal and uveal inflammation. Post herpetic neuralgia can be reduced by treating the patient with antiviral within the first 24 hours of symptom onset [6].

The particularity of our observation is the occurrence of herpes zoster in an immunocompetent child, without notion of anterior chickenpox and the ophthalmic localization which remains a rare form in the child.

**Conclusion**

Although HZO is uncommon in children, its occurrence in immunocompetent patients could lead to sight-threatening complications. Early presentation and prompt treatment will no doubt minimize morbidity [2].

**References**


