HOSPITAL BASED CROSS SECTIONAL STUDY OF HERPES ZOSTER IN CHILDHOOD
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ABSTRACT: Herpes Zoster is caused by the reactivation of the varicella zoster virus, emerging from latency in the dorsal root ganglion. Herpes zoster in childhood is a less reported entity.

KEYWORDS: Herpes Zoster, Childhood, Immuno Suppression.

AIM OF THE STUDY: The present study was carried out to study the evolution and course of zoster in paediatric age group.

MATERIAL AND METHODS: Children clinically diagnosed with Herpes Zoster aged between 4-15 years, who attended the Dermatology OPD at Sri Ramachandra Medical College Hospital between April 2014 to April 2015 were enrolled for the study.

OBSERVATION & RESULTS: 20 Children with Herpes zoster, were enrolled in the study. Distribution was equal in male and female children. Thoracic dermatomal involvement seen in (7/20) pts. Ophthalmic division of Trigeminal nerve was involved in (5/20) patients. Lumbosacral dermatome was involved in (6/20) patients. Cervical dermatome was involved in 1 patient. The right side involvement was seen in (15/20) pts. Left sided l involvement was seen in (5/20) pts. Recurrent Herpes Zoster was seen in 1 patient. Disseminated herpes zoster was seen in 2 patients. Predominantly vesicular in (16/20) pts. Bullous lesions were seen in 4 patients. 14 pts belonged to the lower socioeconomic group.

CONCLUSION: Herpes zoster occurs more commonly after varicella infection than after varicella vaccination. The younger the child is when he or she has varicella the greater the likelihood that zoster will develop in childhood or early adulthood.

<table>
<thead>
<tr>
<th>DERMATOME</th>
<th>LEFT SIDE</th>
<th>RIGHT SIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trigeminal- oph.</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Cervical</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Thoracic</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Lumbar</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>Sacral</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
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Table 1: Dermatome Distribution
DISCUSSION: Herpes zoster is caused by the reactivation of Varicella zoster virus, emerging from the period of latency in the dorsal root ganglion. Herpes zoster usually occurs after the 4th decade of life or later, following dip in the antibody titres developed after attack of Varicella in the earlier years.[1] Childhood herpes zoster is a less reported entity. Herpes zoster is uncommon in children younger than 10 years of age. The younger the child is when he or she has Varicella, greater the likelihood that zoster will develop in childhood or early adulthood. Incidence among general population was 0-30%.

Herpes zoster in infancy and early childhood was seen in 10 children who were asymptomatic at birth.[2] Observed risk of zoster after maternal Varicella in 13 & 24 weeks and 25 & 36 weeks was 0.8% & 1.7% respectively.

Herpes zoster may also result from vaccination for varicella. Rash may be significantly lower in vaccinated patients because of attenuated Varicella strain. Positive History of preceding varicella was recorded in 9/20) patients.[3] Herpes zoster is more common in cervical and sacral dermatome. In adults it is more common in thoracic and upper lumbar dermatome. In the present study, thoracic dermatome was the commonest dermatome (7/20) affected, followed by ophthalmic division of trigeminal nerve in (5/20) pts. Cervical dermatome was involved in only 1 patient. Right sided involvement was seen in (15/20) pts. studied.[4] Contrastingly left side was involved in only (5/20) pts. Disseminated herpes zoster was seen in 2 patients. Both were immune suppressed, one child being HIV Positive, while the other child was on chemotherapy for Leukemia. Recurrent zoster was also seen in the HIV positive patient.[5,6] Morphology of the lesions were predominantly vesicular in (16/20)pts. Bullous lesions were seen in only 2 patients.

This condition needs to be studied in greater detail and the patients followed up into their adulthood to look for recurrences or sequelae along with any newer virological techniques which have evolved.

REFERENCES:

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