THE INCIDENCE OF GENERAL AND LOCAL CONTACT LENS INDUCED PAPILLARY CONJUNCTIVITIS IN SILICONE HYDROGEL CONTACT LENS WEAR

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BACKGROUND

- The reported incidence of contact lens induced papillary conjunctivitis (CLPC) varies significantly ranging from 1.5% up to 47.5% in soft hydrogel lens wear.
- The first study to report the incidence of CLPC in silicone hydrogel contact lens wear was the incidence study, which showed a higher incidence of CLPC in silicone hydrogel lens wear compared to soft hydrogel lens wear.
- The incidence of CLPC is not significantly different between low Dk hydrogel CL and silicone hydrogel CL EW.
- Silicone hydrogel lens wear is associated with a higher incidence of local events and a lower incidence of general events compared to low Dk hydrogel lens wear.
- The incidence of CLPC is not significantly different between low Dk hydrogel CL and silicone hydrogel CL EW.

MATERIALS AND METHODS

Incidence Study:

<table>
<thead>
<tr>
<th>Condition</th>
<th>Lens Type</th>
<th>Number of Eyes</th>
<th>Number of Events</th>
<th>Incidence (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low Dk</td>
<td>Silicone</td>
<td>911</td>
<td>34</td>
<td>3.75</td>
</tr>
<tr>
<td>Low Dk</td>
<td>Hydrogel</td>
<td>911</td>
<td>0</td>
<td>0.00</td>
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</tbody>
</table>

RESULTS

- The incidence of general CLPC was significantly higher in low Dk hydrogel CL compared to silicone hydrogel CL EW.
- The incidence of local CLPC was significantly higher in low Dk hydrogel CL compared to silicone hydrogel CL EW.
- The incidence of CLPC is not significantly different between low Dk hydrogel CL and silicone hydrogel CL EW.
- The incidence of CLPC is not significantly different between low Dk hydrogel CL and silicone hydrogel CL EW.

DISCUSSION

- This was the first study to report the incidence of CLPC in silicone hydrogel lens wear.
- This study was limited by the number of participants and the duration of the study.

REFERENCES

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