Background

- Arthroscopic dorsal wrist ganglionectomy has not been studied in the pediatric population.
- To compare the outcomes of arthroscopic and open dorsal wrist ganglionectomy in the pediatric population.

Purpose

To compare the outcomes of arthroscopic and open dorsal wrist ganglionectomy in the pediatric population.

Subjects:

- 8 cases of arthroscopic dorsal wrist ganglionectomy
- 19 cases of open dorsal wrist ganglionectomy

Outcome Measures:

- Cyst recurrence
- Custom survey of patient-rated outcomes: satisfaction (would patient repeat surgery?), pain score, presence of functional limitations, scar aesthetics (10-point Likert-type scale)

Statistical Analysis:

- Mann-Whitney U test was used to compare variables

### Results

<table>
<thead>
<tr>
<th>Question</th>
<th>Arthroscopic Group</th>
<th>Open Group</th>
<th>P-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recurrence of Cyst</td>
<td>1 of 8</td>
<td>2 of 19</td>
<td>0.96</td>
</tr>
<tr>
<td>Functional Limitation</td>
<td>0 of 8</td>
<td>3 of 19</td>
<td>0.54</td>
</tr>
<tr>
<td>Presence of Pain</td>
<td>0 of 8</td>
<td>9 of 19</td>
<td>0.06</td>
</tr>
<tr>
<td>Would Patient Repeat</td>
<td>8 of 8</td>
<td>17 of 19</td>
<td>0.69</td>
</tr>
<tr>
<td>Surgery Appearance (1-10)</td>
<td>9</td>
<td>7.6</td>
<td>0.34</td>
</tr>
</tbody>
</table>

- Mean age 14 years at time of surgery
- Average follow-up was 2 years post-op
- The recurrence rate was not significantly different
- More patients in the open ganglionectomy group reported postoperative pain at the time of follow-up
- The differences in other patient-rated scores were not statistically significant

Conclusions

- Arthroscopic dorsal wrist ganglionectomy is a reasonable alternative to open excision in the pediatric population
- The recurrence rate and patient-rated outcomes of arthroscopic ganglionectomy compared favorably with open excision