Lumbar puncture is an important diagnostic tool for evaluation of the febrile infant. This procedure is potentially painful for patients, and emotionally distressing to families. The AAP recommends analgesic use during lumbar puncture to minimize distress. Further, performance of this procedure without analgesia in a young infant has potential lasting emotional effects. Oral Sucrose has been advocated as a valuable analgesic for infants undergoing procedures however, recent evidence suggests that it may not offer as effective analgesia as expected.

**AIMS**

- Assess current attitudes and utilization of analgesics
- Create a system of analgesic administration
- 1+ analgesic use to 100%
- 2+ analgesics use to at least 85%

**ACKNOWLEDGEMENTS**

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- University of Minnesota Masonic Children's Hospital Division of Emergency Medicine
- ED providers, nursing staff and support staff

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**LIMITATIONS**

- Chart review based data collection
- Limited sample size limiting significance

**METHODS**

1. Pre-intervention electronic survey sent to all ED providers and nursing staff
2. Interventions initiated on January 24, 2018 and data collection concluded on December 31, 2018

**RESULTS**

**MOST POPULAR METHODS**

<table>
<thead>
<tr>
<th></th>
<th>Pre-intervention: 2017</th>
<th>6 Month Update: 2018</th>
<th>1 Year Update: 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sucrose Solution</td>
<td>3 methods 12%</td>
<td>0 methods 2%</td>
<td>1 method 17%</td>
</tr>
<tr>
<td>Topical Lidocaine</td>
<td>2 methods 44%</td>
<td>2 methods 61%</td>
<td>2 methods 61%</td>
</tr>
<tr>
<td>Injectable Lidocaine</td>
<td>1 method 42%</td>
<td>1 method 22%</td>
<td>0 methods 6%</td>
</tr>
</tbody>
</table>

**DISCUSSION**

**Collaboration and Communication**

- Multiple forms and formats of communication
- Multiple education opportunities
- Encouraging pain management discussions
- Limiting single provider burden

**Empowering Staff**

- Nursing staff education and empowerment
- Streamlined care process
- Creating an additional intervention without impacting existing interventions

**FUTURE DIRECTIONS**

- Expand into the inpatient context for LP procedures
- Create similar protocols for other semi-invasive procedures