# Ultrasound Guided Pudendal Nerve Block: A Case Series

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## BACKGROUND:
- Pudendal nerve blocks can be used as the primary anesthetic for GU procedures
- We hypothesize that ultrasound guided pudendal nerve blockade provides prolonged analgesia for hypospadias repair with minimal side effects.

## METHODS:
- 7 patients at OHSU for GU procedures
- Single shot pudendal nerve blocks performed after induction of general anesthesia in lithotomy position at the level of the ischial spine using ultrasound guidance

## RESULTS:
- Block time ranged from 5 – 13 minutes
- Postoperative Observations:
  - No evident lower extremity weakness
  - No supplemental opioid requirements
  - Only 3 patients required non-opioid analgesics

## CONCLUSIONS:
- This block technique has reliable landmarks, is easily learned and is effective in providing analgesia for some GU procedures
- Single shot pudendal nerve block provides equally effective analgesia of longer duration compared to caudal block, without the side effects of lower extremity muscle weakness and urinary retention

## REFERENCES:


## Table

<table>
<thead>
<tr>
<th>Procedure</th>
<th>Block Total</th>
<th>Narcotic Intraop</th>
<th>PACU Non-Narcotic</th>
<th>PACU Narcotic</th>
<th>Time to Discharge</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd stage hypospadias repair</td>
<td>11 min</td>
<td>bupi 0.25% with epi 1:200K 5mL each side</td>
<td>5mcg fent x3 doses (post block, orchiopey)</td>
<td>none</td>
<td>unclear</td>
</tr>
<tr>
<td>redo hypospadias repair</td>
<td>13 min</td>
<td>bupi 0.25% with epi 1:200K 5mL each side</td>
<td>10mg fent x2 doses (1 pre &amp; 1 post block)</td>
<td>none</td>
<td>68 min</td>
</tr>
<tr>
<td>2nd stage hypospadias repair</td>
<td>11 min</td>
<td>bupi 0.25% with epi 1:200K 5mL each side</td>
<td>10mcg fent (pre-elt)</td>
<td>none</td>
<td>68 min</td>
</tr>
<tr>
<td>hypospadias repair, circumcision</td>
<td>5 min</td>
<td>bupi 0.25% with epi 1:200K 3.5mL each side</td>
<td>none</td>
<td>none</td>
<td>84 min</td>
</tr>
<tr>
<td>penoplasty</td>
<td>7 min</td>
<td>bupi 0.25% with epi 1:200K 4mL each side</td>
<td>10mcg fent x2 doses (1 pre &amp; 1 post block)</td>
<td>none</td>
<td>84 min</td>
</tr>
<tr>
<td>1st stage hypospadias repair</td>
<td>5 min</td>
<td>bupi 0.25% with epi 1:200K 3mL each side</td>
<td>none</td>
<td>tylenomol 80mg po</td>
<td>68 min</td>
</tr>
</tbody>
</table>

## Notes

- LA Used:
  - bupi: bupivacaine
  - ropiv: ropivacaine
  - epi: epinephrine
- Narcotic:
  - fent: fentanyl
  - tylemol: tylenol
  - ibuprofen
  - po: per os

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