Pro-Parental Presence at Induction

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Pediatric Parallel Session, TSA 2018

Disclosure Statement

I have no conflicts of interest

Background

- 3 million children experience significant periop anxiety annually
- Anesthesiologists are the best judges
- Mask induction is the most anxiety-provoking

Consequences of Perioperative Anxiety

Regressive Behaviors
Sleep Disturbances
Bed Wetting
Separation Anxiety

Risk Factors for Preoperative Anxiety

<table>
<thead>
<tr>
<th>Child related</th>
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<tbody>
<tr>
<td>Young age (3 to 5 years of age)</td>
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<tr>
<td>Poor previous experience with medical procedures and illness</td>
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<tr>
<td>Shy and inhibited temperament</td>
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<tr>
<td>Lack of developmental maturity and social adaptability</td>
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<tr>
<td>High cognitive levels</td>
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<tr>
<td>Not enrolled in daycare</td>
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<table>
<thead>
<tr>
<th>Parent related</th>
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<tbody>
<tr>
<td>High trait and state anxiety</td>
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<tr>
<td>Divorced parents</td>
</tr>
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<td>Multiple surgical procedures for parents</td>
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<thead>
<tr>
<th>Environment related</th>
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<tbody>
<tr>
<td>Surgery procedure</td>
</tr>
<tr>
<td>No visiting parents</td>
</tr>
<tr>
<td>Operating</td>
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</tbody>
</table>

Smith’s anesthesia for Infants and Children, 8th edition
Parental Presence at Induction – Advantages

- Facilitates Mask Ventilation
- Surgeons Prefer Parental Presence
- Parents Choose PPAI for Repeat Surgery
- Increases Parental Satisfaction

Facilitates Mask Ventilation

Impact of parental presence during induction of anesthesia on anxiety level among pediatric patients and their parents: a randomized clinical trial

Midazolam vs Midazolam + PPAI

Feb 2017
Neuropsychiatric Disease and Treatment

Surgeons Prefer Parental Presence

Parental presence at induction of anesthesia: perceptions of a pediatric surgical department before and after program implementation

JPS 2018

Parents Choose PPAI for Repeat Surgery

Parental Intervention Choices for Children Undergoing Repeated Surgeries


Nuances of Parental Presence at Induction

- Right Patient
- Right Dose
- Right Intervention
**ADVANCE Program**

Family-centered Preparation for Surgery Improves Perioperative Outcomes in Children  
Z. Kain et al Anesthesiology 2007

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**Right Intervention**

- Music  
- Clowns  
- Video Distraction  
- Acupuncture for Parents

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**Parental Presence at Induction—Disadvantages**

- Midazolam works as well or better  
- Work Flow  
- OR personnel resistance  
- Liability

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**Future Direction**

**Summary: Pro—Parental Presence at Induction**

- Parents overwhelmingly wish to be present  
- Increases parental satisfaction with the hospital as a whole  
- Makes mask ventilation easier  
- Surgeons might prefer once acclimatized

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*Thank you*