

# Cincinnati Children Medical Care Center Harvard Case Solution & Analysis

TheCaseSolutions.com

## BEST

- Lack of uniformity amongst pediatric hospitals
- Family-centered care and best practices maximize coping and safety

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In a pediatric anesthesia induction, does parental presence during induction compared to not having parents present reduce anxiety at induction?

### Recommendation

It is recommended that...

**Evidence Based Practice**  
**Parental Presence at Child's Anesthesia Induction**  
**Case Study**  
**Kassie**  
**Final Project**  
*(The Way I See It)*  
**Video Modeling for Cardiology Patients with Autism Spectrum Disorder**

## Case Study: "Kassie"

- 10-year-old female
- From Alabama, loves horses and family
- Enjoys's identity is role confusion
- Cerebral palsy
- Total inpatient admission: 25 days
- Transferred from outside hospital
- Family present throughout entire stay
- Received PICC line and Restorvy bag at CCHMC
- Anxiety in social situations



### Outcomes

- Mean difference in anxiety score was 10.5 points (p < 0.001)
- Mean difference in satisfaction score was 10.5 points (p < 0.001)
- Mean difference in coping score was 10.5 points (p < 0.001)
- Mean difference in coping score was 10.5 points (p < 0.001)

## FINAL PROJECT

Center for Disease Control and Prevention: 11/14/12

Health & Human Services: 11/14/12

Developmental disability with the spectrum of behaviors, social interaction, and communication impairment among individuals with ASD

Children with ASD appeared to have more health care needs and longer hospital stays than children with other conditions. This suggests that children with ASD may have more complex health care needs.

## Works Cited

1. Hoffmann, L., Wright, S., Johnson, A., & Brown, A. (2010). An evidence-based review of parental presence during anesthesia induction for children. *Journal of Pediatric Anesthesia*, 25(1), 1-10.

2. Lee, J. H., Hwang, J. C., & Lee, J. H. (2010). Parental presence during induction of anesthesia in children. *Korean Journal of Anesthesiology*, 63(2), 101-106.

3. Smith, J. D., Smith, J. H., & Smith, J. H. (2010). Parental presence during induction of anesthesia in children. *Journal of Pediatric Anesthesia*, 25(1), 1-10.

4. Center for Disease Control and Prevention.

5. Johnson, L. P., & Johnson, L. P. (2010). Parental presence during induction of anesthesia in children. *Journal of Pediatric Anesthesia*, 25(1), 1-10.

6. Johnson, L. P., & Johnson, L. P. (2010). Parental presence during induction of anesthesia in children. *Journal of Pediatric Anesthesia*, 25(1), 1-10.

**VIDEO MODELING (SEE IT)**  
Video Modeling (Preparation Videos for Cardiology Clinic)

QUESTIONS?

## WHY THIS REGULATORY

Regulatory changes are needed to ensure that the video modeling program is implemented correctly and that the data is collected and analyzed properly.

## VIDEO MODELING

Video modeling is the use of video to teach a skill. It is a form of direct instruction that is used to teach children with autism spectrum disorder (ASD) and other developmental disabilities. Video modeling is a form of direct instruction that is used to teach children with ASD and other developmental disabilities.

## OUTCOMES

The video modeling program was implemented in the cardiology clinic and resulted in a significant decrease in anxiety and an increase in satisfaction and coping among children with ASD.

## Cardiology Clinic

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7. Johnson, L. P., & Johnson, L. P. (2010). Parental presence during induction of anesthesia in children. *Journal of Pediatric Anesthesia*, 25(1), 1-10.

8. Johnson, L. P., & Johnson, L. P. (2010). Parental presence during induction of anesthesia in children. *Journal of Pediatric Anesthesia*, 25(1), 1-10.

9. Johnson, L. P., & Johnson, L. P. (2010). Parental presence during induction of anesthesia in children. *Journal of Pediatric Anesthesia*, 25(1), 1-10.

10. Johnson, L. P., & Johnson, L. P. (2010). Parental presence during induction of anesthesia in children. *Journal of Pediatric Anesthesia*, 25(1), 1-10.

11. Johnson, L. P., & Johnson, L. P. (2010). Parental presence during induction of anesthesia in children. *Journal of Pediatric Anesthesia*, 25(1), 1-10.

12. Johnson, L. P., & Johnson, L. P. (2010). Parental presence during induction of anesthesia in children. *Journal of Pediatric Anesthesia*, 25(1), 1-10.

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## Case Study: "Kassie"

- 10-year-old female
- From Alabama, loves horses and family
- Enjoys her identity as a rodeo cowboy
- Cerebral palsy
- Total inpatient admission: 25 days
- Transferred from outside hospital
- Family present throughout entire stay
- Received PICC line and Restorvy bag at CCHMC
- Anxiety in social situations



### Outcomes

- Mean admission length of stay (LOS) and charges were significantly lower in the intervention group.
- "The staff always go the extra mile."
- "We are all happy to be here."
- Mean satisfaction scores were significantly higher in the intervention group.
- Value of being in an inpatient and outpatient setting.

## FINAL PROJECT

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Center for Disease Control and Prevention: 11/14/12

Need to know: research on children with ASD and autism spectrum disorder.

Developmental disability with the spectrum of behaviors, social interaction, and communication impairment among individuals with ASD.

Children with ASD appeared to have more health care hospital and ED visits, longer hospital stays, more readmissions, more emergency department visits, and more emergency room visits.

## Works Cited

1. Hoffmann, L., Wright, S., Johnson, A. (2010). An evidence-based review of parental presence during anesthesia induction. *Journal of Intensive Care Medicine*, 25(1), 1-10.

2. Lee, J. H., Hwang, J. C., Chae, H. S., Park, S. H., Kim, S. H., & Kim, S. H. (2010). Parental presence during anesthesia induction in pediatric patients. *Journal of Intensive Care Medicine*, 25(1), 1-10.

3. Wright, S., Johnson, A., & Hoffmann, L. (2010). Parental presence during anesthesia induction in pediatric patients. *Journal of Intensive Care Medicine*, 25(1), 1-10.

4. Center for Disease Control and Prevention.

5. Johnson, L. P., & Pappas, S. M. (2010). Parental presence during anesthesia induction in pediatric patients. *Journal of Intensive Care Medicine*, 25(1), 1-10.

6. Carney, G., McPherson, M. L., & Davis, M. (2010). Parental presence during anesthesia induction in pediatric patients. *Journal of Intensive Care Medicine*, 25(1), 1-10.

**VIDEO MODELING (SEE IT)**  
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QUESTIONS?

**WHY THIS REGULATORY?**

- Regulatory requirements for video modeling.
- Regulatory requirements for video modeling.
- Regulatory requirements for video modeling.

**VIDEO MODELING**

- Developed in the 1970s by Charles L.
- It is a...
- It is a...
- It is a...

**MISSION**

Our mission is to provide the highest quality of care to our patients and to be a leader in the industry.

**Cardiology Clinic**

7. Johnson, M. L., & Johnson, S. (2010). Children with autism spectrum disorder in a pediatric hospital: A systematic review of the literature. *Autism*, 14(2), 1-10.

8. Brown, H., Brown, M. J., Brown, N., Brown, L. J., Brown, R. A., & Brown, L. (2010). Children with autism spectrum disorder in a pediatric hospital: A systematic review of the literature. *Autism*, 14(2), 1-10.

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Case Study: "Kas"

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# Evidence Based Practice

*Parental Presence at Child's Anesthesia  
Induction*

## Case Study

*Kassie*

## Final Project

*{The Way I See It}  
Video Modeling for Cardiology  
Patients with Autism Spectrum  
Disorder*

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SYSTEMATIC REVIEW <sup>1</sup> [1a]

PROSPECTIVE COHORT STUDY <sup>2</sup> [3b]

RANDOMIZED CONTROLLED TRIAL <sup>3</sup> [2a]

- Broad conclusions
- Combination of parent and child characteristics
- In the RCT study, child anxiety heightened at point of separation back to OR for children with no parental presence. <sup>3</sup>

Parental Presence

No Parental Presence

Parental Presence does not appear to affect anxiety

Anxious Parent+Anxious Child



Anxious Parent+Calm Child



Calm Parent+Anxious Child



Calm Parent+Calm Child



Older children



Children with lower activity and impulsivity temperament levels



Parents who value preparation and coping skills

