Impact of Pediatric Radiation Oncology with Movie Induced Sedation Effect (PROMISE) on Patient Movement and General Anesthesia Use in Pediatric Radiation Therapy

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Disclosure

• I have nothing to disclose

• Thank you to Wipe Out Kids Cancer for funding our upcoming phase II clinical trial

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Radiation Therapy for Children with Cancer

- Pediatric radiation therapy (RT) often requires daily anesthesia to ensure precise immobilization for safe and accurate treatment
  - Potential harm to the patient’s health and quality of life
  - Significant logistical and financial burden

Is there a better way to help children stay still during their treatments?
PROMISE: Pediatric Radiation Oncology with Movie Induced Sedation Effect

- Interactive, incentive-based system
- Wireless video streaming to a screen directly in front of the patient
- Real-time video monitoring of patient motion
- Automatically stops the radiation beam and video if the patient moves outside of defined parameters
The Impact of PROMISE

• Estimated ~30% absolute reduction in need for daily general anesthesia in children 3-7 years old with PROMISE

• Anecdotally, significant improvement in patient & family quality of life

• Upcoming phase II clinical trial to safely reduce anesthesia use in children 3-11 through PROMISE
Special Thanks

Dr. Kumar

Dr. Jiang

Dr. Chiu