VLADI: An alternative to anesthesia in radiotherapy treatments

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Radiotherapy Treatment

Impressive and noisy environment

Presence of unknown objects

Feeling of isolation
Radiotherapy Treatment

Precision

Patient comfort
How to ensure the patient compliance? Solutions?

- Music
- General Anesthesia
- Parents speaking
- Hypnosis
- ?

Radiotherapy Treatment

Anesthesia for pediatric external beam radiation therapy.
Fortney JT¹, Halperin EC, Hertz CM, Schulman SR.
General Anesthesia

Constraints related to GA:

• Prolonged patient setup;
• Painful/unpleasant procedure;
• Need to maintain patient airway;
• Need for post-anesthesia recovery period;
• Impact on patient’s daily life (eating, drinking, and playing).

General Anesthesia
Impact of General Anesthesia

- Child
- Family
- The radiotherapy department
- The Anesthesia department
Our Solution:

- Music
- Parents speaking
- General Anesthesia
- Hypnose
- Patient compliance
- VLADI
VLADI: An alternative to anesthesia in radiotherapy treatments

Video Launching Applied During Irradiation

VLADI
Project VLADI
VLADI - Purpose and Objective

Replace the use of GA ➔ Reassure and distract ➔ Impact on Treatment and Workflow
VLADI - Purpose and Objective

Project started in 2014

Evaluate the impact of this project on the potential reduction of the use of GA for children between the ages of 2 and 6 years old
VLADI vs. General Anesthesia

Group 1 (n=6): pediatric patients **before** VLADI

Group 2 (n=6): pediatric patients **after** VLADI

**Group 1 (n=6): pediatric patients before VLADI**

**Group 2 (n=6): pediatric patients after VLADI**
VLADI vs. General Anesthesia

Decrease of general anesthesia

83.3% GA (before VLADI)

33.3% GA (after VLADI)

VLADI benefits 66.7% of pediatric patients
VLADI : The Benefits

- Increased patient/family satisfaction
  Treatment is like going to the movie theatre
- Increased efficiency
  Less time consuming
- Decreased financial impact
- Decrease in pre-treatment medication use
Conclusions

- The use of VLADI as an alternative to anesthesia represents a gain both at the level of patient care (less medication) but also on a workflow level.

- In our department, VLADI has almost completely replaced anesthesia resulting in reduced treatment times and reduction of stress for young patients, their family and the RTT team.

- Future prospect: extension to claustrophobic patients.
Questions?