VLADI: An alternative to anesthesia in radiotherapy treatments

Video Launching Applied During Irradiation (VLADI)

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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?

Anesthesia for pediatric external beam radiation therapy.
Fortney JT, 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
Radiotherapy Treatment

Our Solution:

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

Video Launching Applied During Irradiation

VLADI
VLADI - Purpose and Objective

1. Replace the use of GA
2. Reassure and distract
3. 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

Anesthesia

Before VLADI

No Anesthesia

After VLADI

Before VLADI

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?