OPTIMIZATION FOR THE PEDIATRIC PATIENT

The Children’s Hospital of Philadelphia

GEORGE J. ENGLEHARDT, RT(R)(MR)
Disclosure

- No relevant disclosures
Objectives

- Understand the different ways to communicate to the pediatric patient to successfully allow them to complete an MRI scan.
Objectives

- Be able to describe the different sedation/anesthesia techniques and how they optimize the scan.
Objectives

▪ Understand the factors that go into image quality in children and how to optimize them in pediatrics.
Optimizing Diaphragmatic Gating

**Regular Long End-exp phase**

**Irregular exp due to child being bored**

**Shallow breathing controlled with propofol**

**Tented diaphragm, typically your teenage population**
MRI Sequences optimized for the pediatric patient
Image quality

MAGNETIC RESONANCE IMAGE QUALITY CHARACTERISTICS

TEMPORAL RESOLUTION:
The ability to detect two separate events in time, and correctly display them as separate.

IMAGING PROTOCOL

FACTORS

S. Sprawls