



**SIEMENS**

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## Help the little heroes of our big heroes conquer MRIs.

Your department already makes important contributions to the healthcare needs of veterans and military members. Now there is a new mission for you: improve the MRI<sup>1</sup> experience for their children and help reduce pediatric anxiety. All that's needed is a cape and a few special tools, and children can be superheroes just like their military moms and dads, conquering MRIs with confidence. Developed in collaboration with Marvel Comics and Weill Cornell Imaging at NewYork-Presbyterian in New York City, the MRI Heroes Kit empowers children so they may be imaged with less anxiety.

As part of our **MRIamahero! Program**, the **MRI Heroes Kit** enables you to:

- Improve the comfort of pediatric patients and families.
- Support improved patient safety in pediatric MRI.
- Improve workflow efficiency and decrease costs.



All it takes is a small but significant step toward reducing pediatric anxiety in MRI and everyone becomes a hero.

<sup>1</sup> MRI Scanning has not been established as safe for imaging fetuses and infants less than two years of age. The responsible physician must evaluate the benefits of the MR examination compared to those of other imaging procedures.

One of the most powerful imaging tools in clinical practice, MRI can be challenging, especially on children, because it requires sedation for some children to lie still during the exam. Sedation, however, poses risks.

## Challenges with sedation

- Sedation can produce significant side effects including motor imbalance, agitation, gastrointestinal effects, and/or adverse allergic reactions to the medication<sup>2</sup>.
- Sedation requires more time, cost, and departmental resources, from obtaining parental consent to scheduling the exam, performing the sedation, and monitoring recovery<sup>3</sup>.
- Sedation increases stress on families already dealing with the anxiety of the MRI due to the added time commitment, fasting regime, delayed side effects, and prolonged recovery.

## How can the MRI Heroes Kit help?

The MRI Heroes Kit can help children understand what an MRI is, including what it looks like, what it sounds like, and what it does. With these tools and information, children and their parents have the information and education they need to be more comfortable with an MRI exam—even before the exam begins.



## What's included in the MRI Heroes Kit?

- 100 copies of an educational Marvel Custom Solutions comic book that follows popular superhero Captain America through his MRI experience.
- 1 toy-size model of a Siemens MRI scanner with moveable patient table and sounds.
- 1 DVD with an educational video that takes children through the process of what happens during an MRI exam; explained in a kid-friendly manner through the eyes of a child.
- 100 superhero capes to transform your patients into the superheroes they already are.
- 100 Captain America and Iron Man plush toys for your pediatric patients to take with them into the MRI exam.

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<sup>2</sup> Malviya S, Voepel-Lewis T, Prochaska G, Tait A . Prolonged Recovery and Delayed Side Effects of Sedation for Diagnostic Imaging Studies in Children. *Pediatrics*. 2000 Mar [cited 2014 October].

<sup>3</sup> Vanderby S, Babyn P, Carter M, Jewell S, McKeever P. Effect of Anesthesia and Sedation on Pediatric MR Imaging Patient Flow. *Radiology*. 2010 July;256(1):229-237.

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