

# Impact of Magnetic Resonance Imaging on Children's Health

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## ABSTRACT

To evaluate the magnetic resonance imaging (MRI) do really harmful to the children's health and their side effects. In MRI how side effects are appears and the period they will take to cure and the method we used to study the MRI on children's body. Patients from two large reference units were involved and the hazard of dying of cardiac causes, before and after their first MRI, was evaluated by a Cox proportional threats model with time-dependent covariates.

**Keywords:** Magnetic resonance imaging; Children's; Health

## INTRODUCTION

Magnetic resonance imaging (MRI) methods provide highly complete images of tissue in the body. The systems identify and process the signals produced when hydrogen atoms, which are lavish in tissue, are placed in a strong magnetic field and agitated by a resonant magnetic excitation pulse. MRIs employ powerful magnets which produce a solid magnetic field that forces protons in the body to align with that field. When a radiofrequency current is then pulsed through the tolerant, the protons are stimulated, and turn out of equilibrium, strain against the pull of the magnetic field. The strong, static magnetic field of the MRI scanner will pull on magnetic things and may cause undesirable movement of the medical device. The radiofrequency energy and magnetic fields that modification with while may cause heating of the fixed medical device and the surrounding tissue, which could lead to injuries.

If you sense pain or any rare symptom following the exam, communicate your referring physician. You can be as lively as you like after the MRI except you were given a sedative. Contact with your doctor about this. The images taken during the test will be studied by a radiologist. Labyrinthine stimulation can persuade nausea and vomiting. In this case, labyrinthine stimulus by the MRI magnetic field initiated vomiting, and the related increase in intracranial pressure caused in reopening of a CSF leak. These are some mild effects of the MRI on human body.

When coming to the children's the MRIs are widely reflected to be very safe and easy procedures from a medical perspective. There have been no health threats connected with neither the magnetic field nor the radio waves used in MRIs because they do not use radioactivity in the process. MRI may be used to help analyze or observe treatment for a variety of circumstances within the chest, brain, abdomen, extremities and pelvis. After undergoing an MRI checkup, small amounts of gadolinium contrast substantial may endure in the patient's body, including the brain. Gadolinium retaining has not been shown to be unsafe to patients with normal kidney function, and the help of an accurate diagnosis far compensates any potential risk. In rare condition the side effects are occurred in the body of the children due to the seductive, any external contacts of the materials which are allergic to your child apart from that MRI is not harmful to the children's and their health.

## CONCLUSION

We came to concluded that the MRI is not risk to the children's health and there are no long term side effects and short term effects are identical and curable. It's completely safe to children's to take MRI scan. MRI has converted a vital component of continuing management and appears to have a valuable effect on cardiac transience.

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