

## Benefits

### 1 New for fetal cardio-vascular MRI

Unique technique to trigger fetal heart rate

### 2 Easy to handle

Placement of one single device instead of multiple electrodes

### 3 Saves time and improves patient comfort

No sticking of electrodes, no connection with wires and no shaving required

### 4 More stable signals

No electrodes to drop off, no disconnection of electrode wires

### 5 Compatible with higher magnetic field strengths

ECG produces artifacts and carries a risk of skin burns at higher field strengths

## Scientific References

1. High resolution MR imaging of the fetal heart with cardiac triggering: a feasibility study in the sheep fetus. Eur Radiol 2009; 19:2383-90.
2. Magnetic resonance angiography of fetal vessels: feasibility study in the sheep fetus. Jpn J Radiol 2010; 28:720-6.
3. Self-gating MR imaging of the fetal heart: comparison with real cardiac triggering. Eur Radiol 2011; 21:142-9.

## Honors

- Patent protection
- Supported by "Deutsche Forschungsgemeinschaft (DFG)"
- German High Tech Champion 2011, Fraunhofer Gesellschaft

## Contact

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## Easy Trigger for Cardio-Vascular MR Imaging



**EASY TRIGGER**

A MRI compatible  
 doppler-ultrasound  
 device for cardiac triggering



Application areas in cardio-vascular MRI

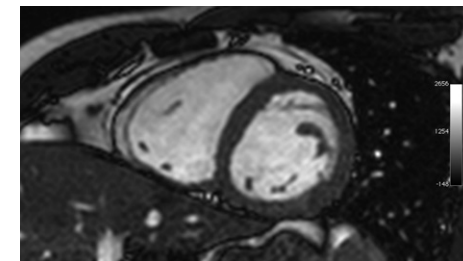
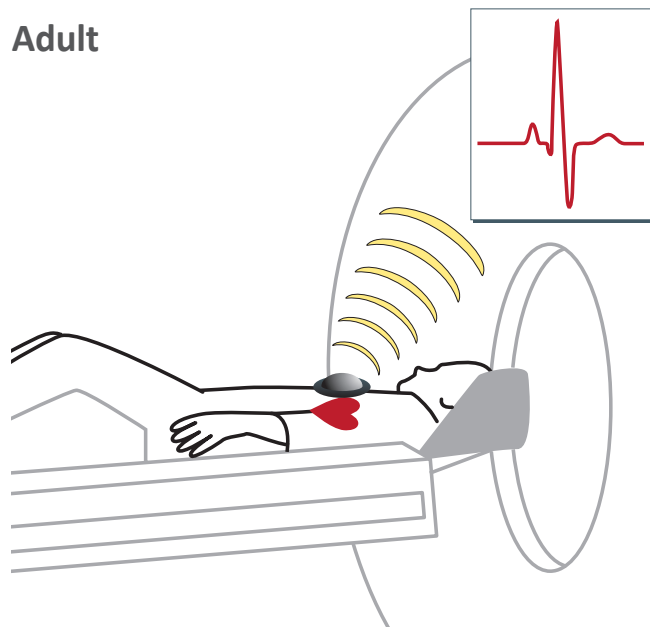
- Triggers adult heart frequency

BETTER

QUICKER

EASIER

Adult

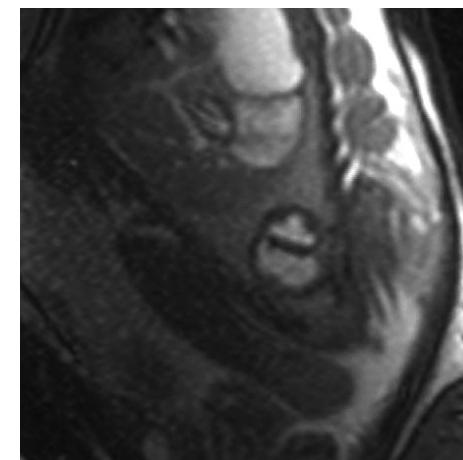
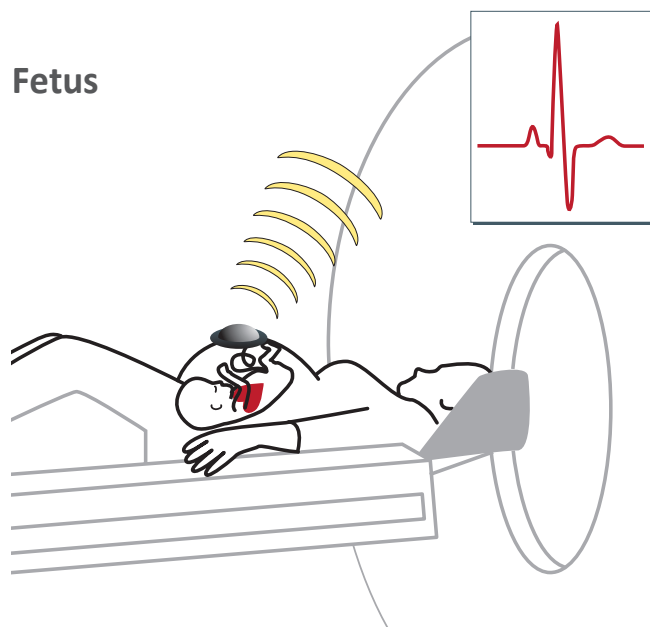


Cardiac MRI of an adult heart using easy trigger.

- Unique technique to trigger fetal heart rate in MRI

NEW

Fetus



For the first time: Triggered cardiac MRI of the fetal heart using easy trigger.