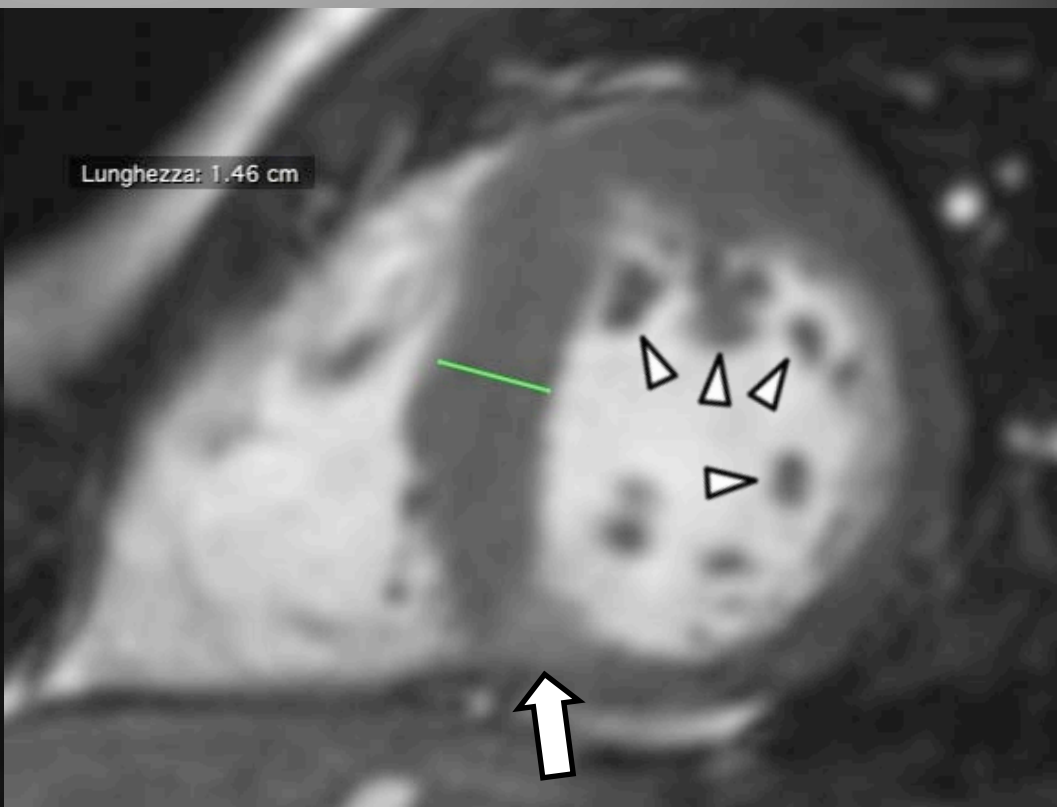
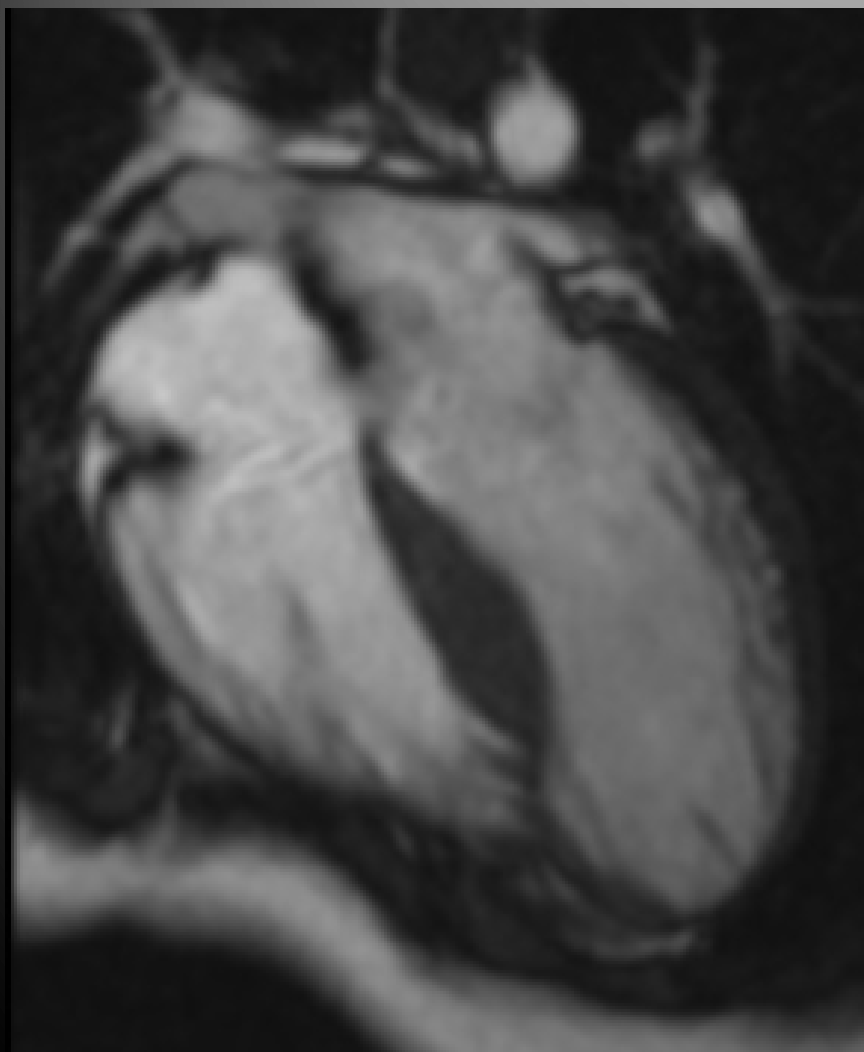


# Risonanza Magnetica Cardiaca nella Cardiomiopatia Ipertrofica

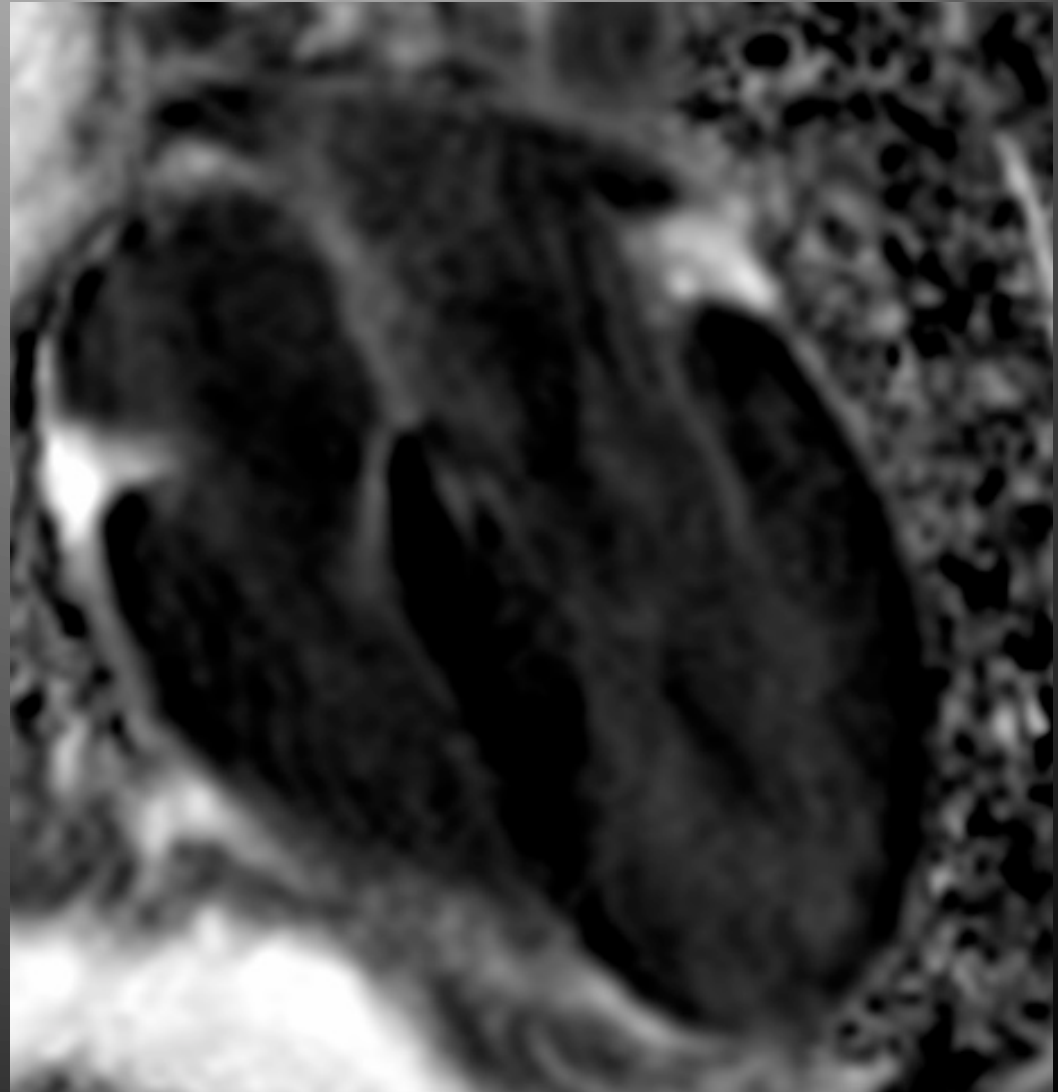
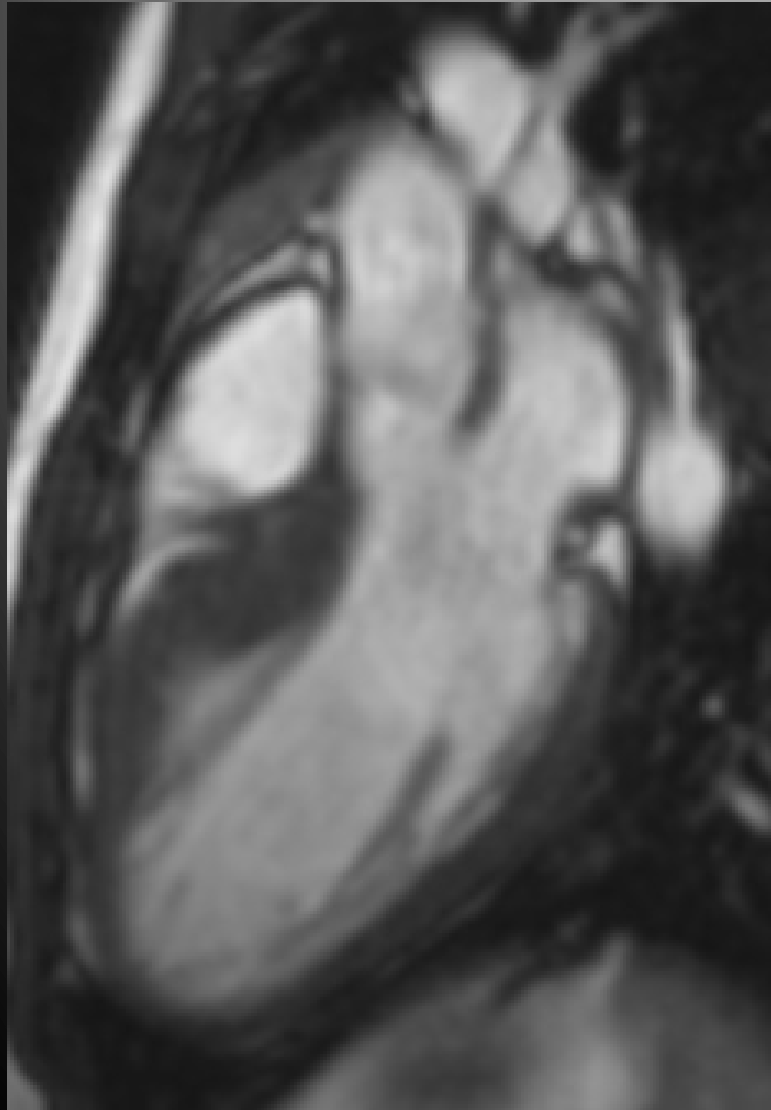
Giuseppe Muscogiuri MD

Radiology resident, Faculty of Medicine and  
Psychology-University of Rome "Sapienza"

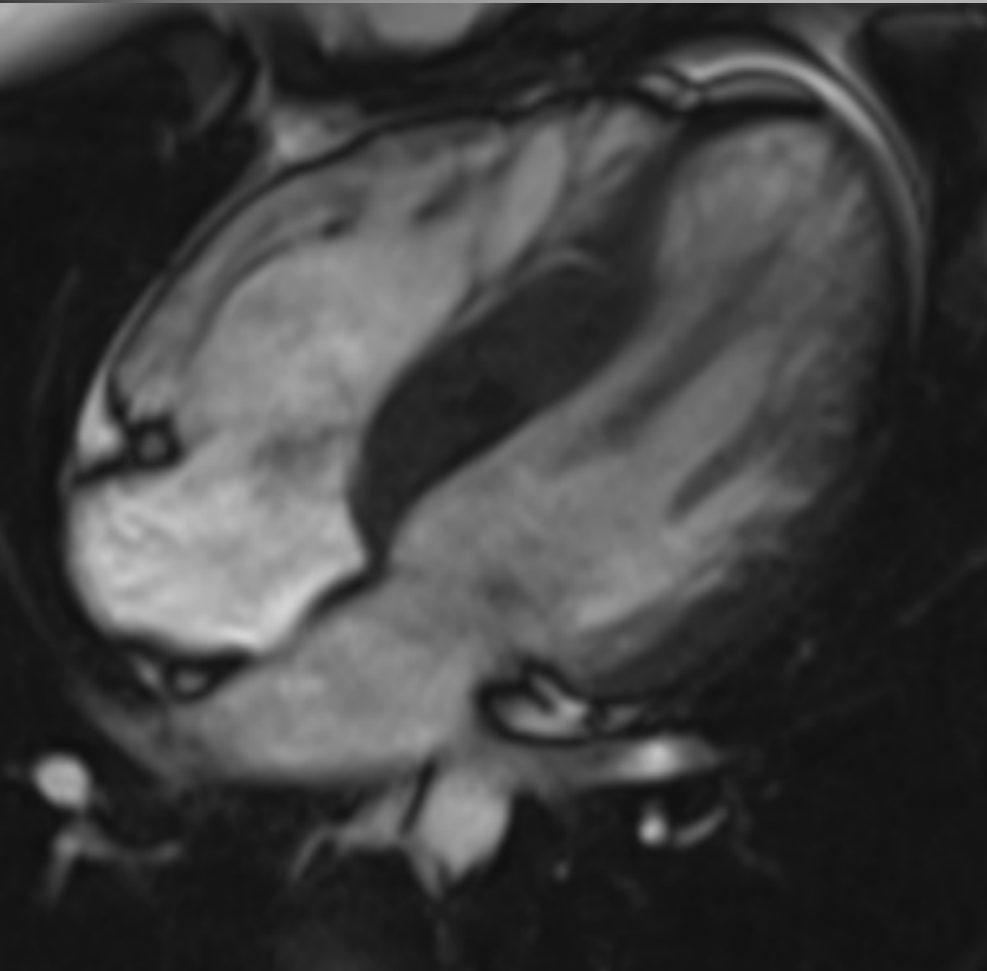
15 anni, familiarità per cardiomiopatia ipertrofica. Spessori parietali 15mm in assenza di patologie cardiache secondarie  
1° screening CMR



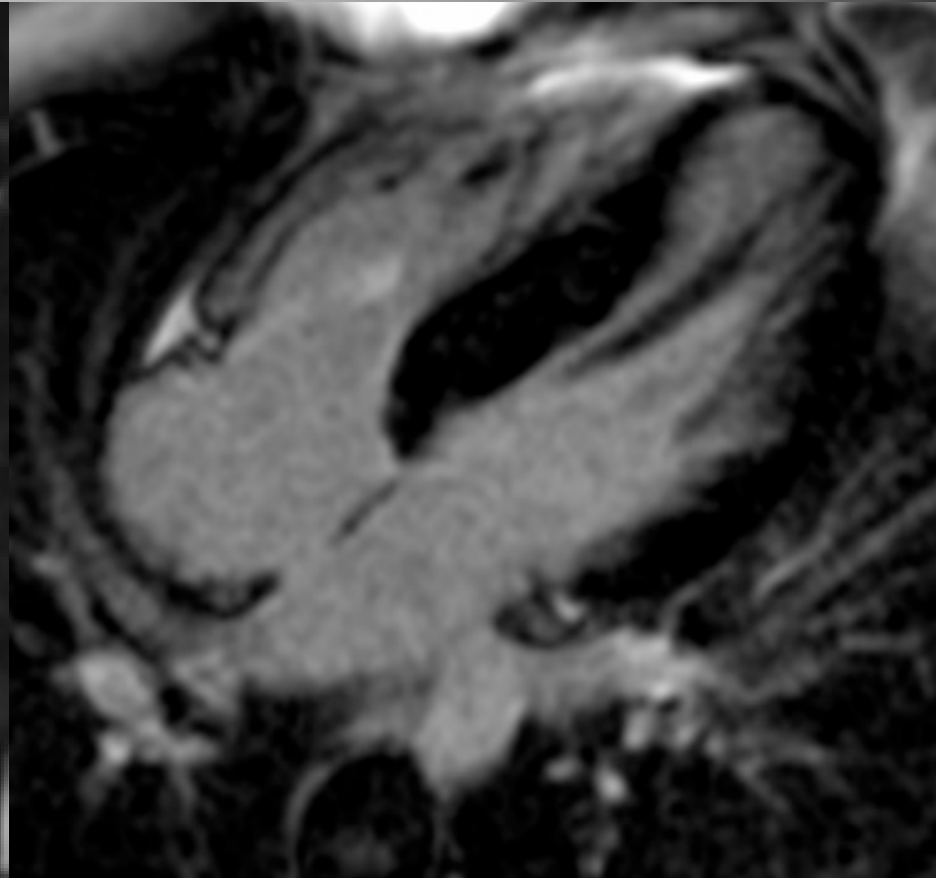
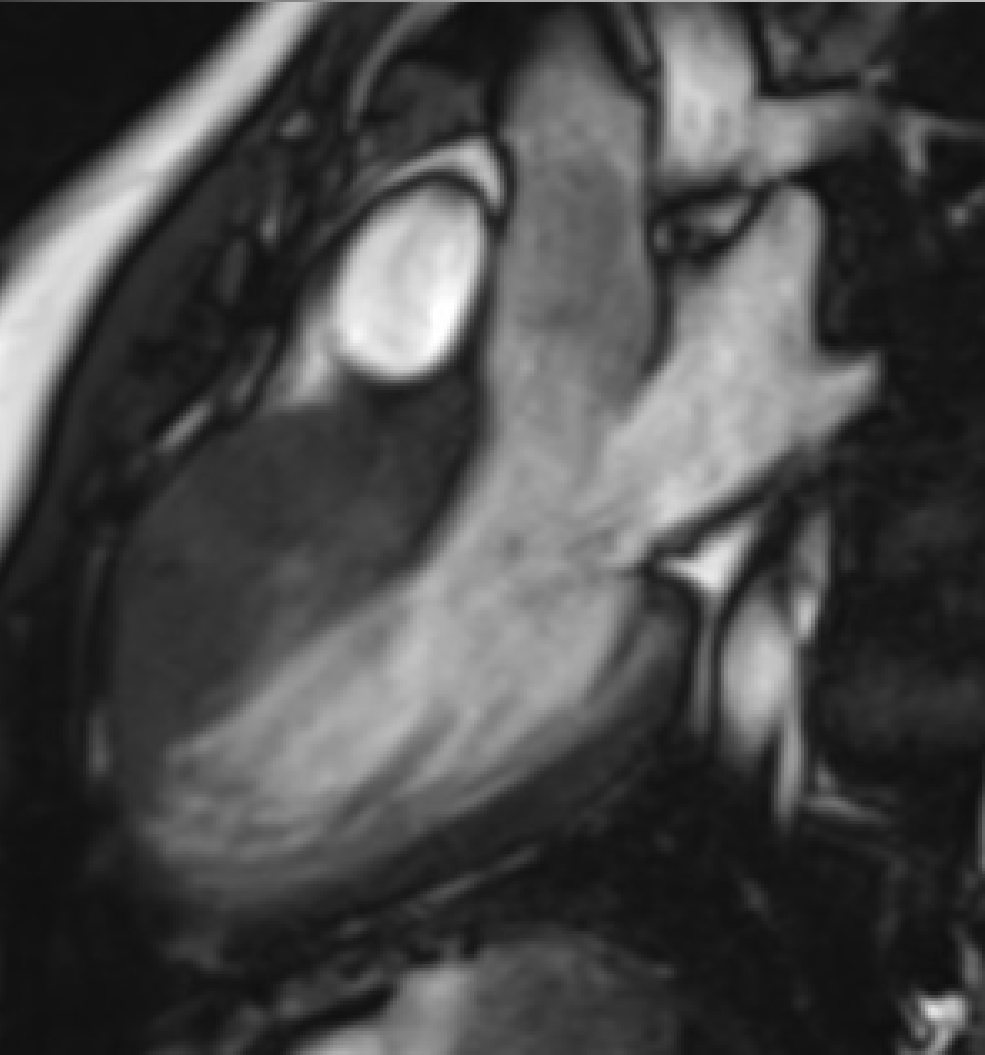
15 anni, familiarità per cardiomiopatia ipertrofica. Spessori parietali 15mm in assenza di patologie cardiache secondarie  
1° screening CMR



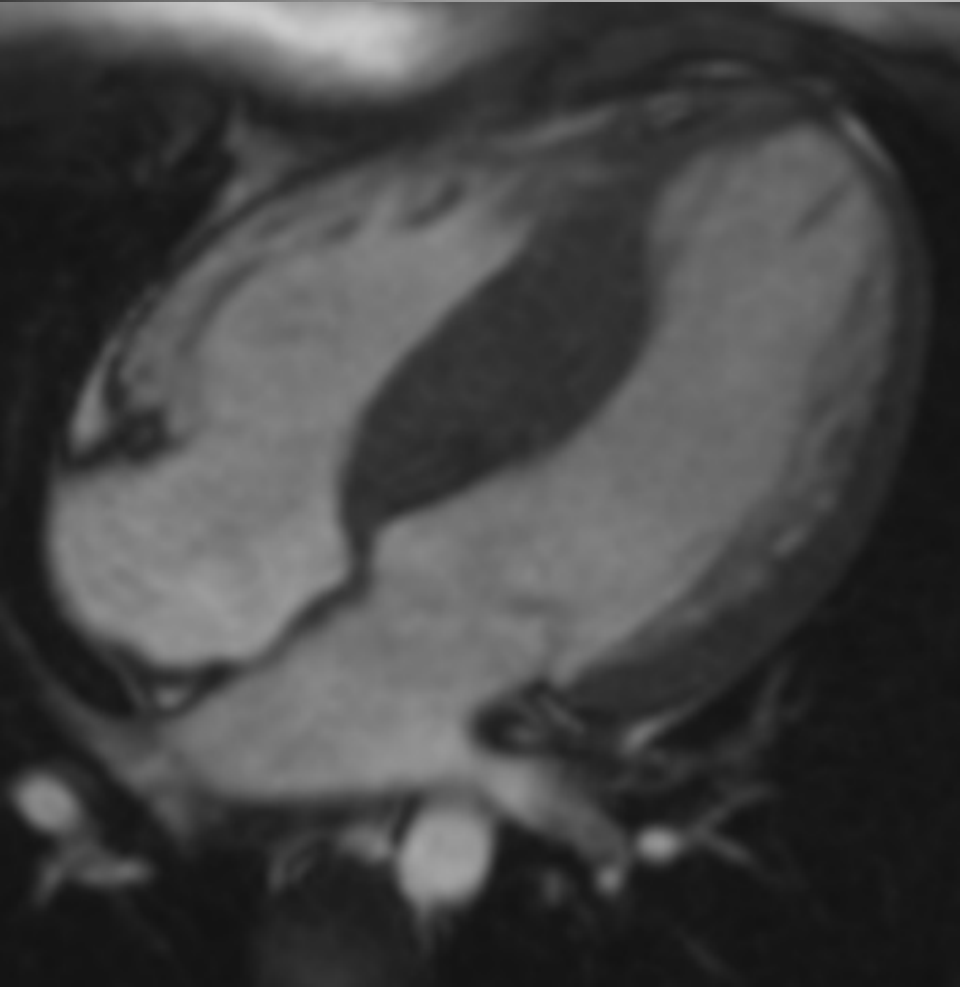
16 anni, 2° screening CMR



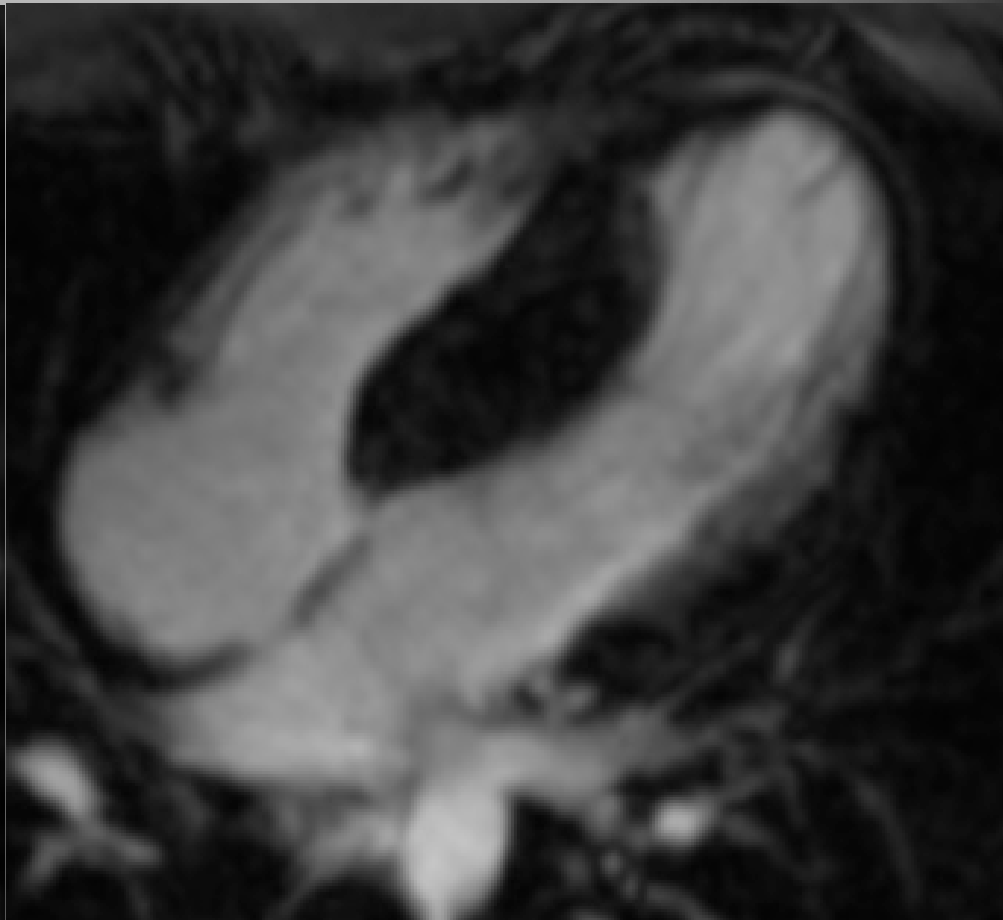
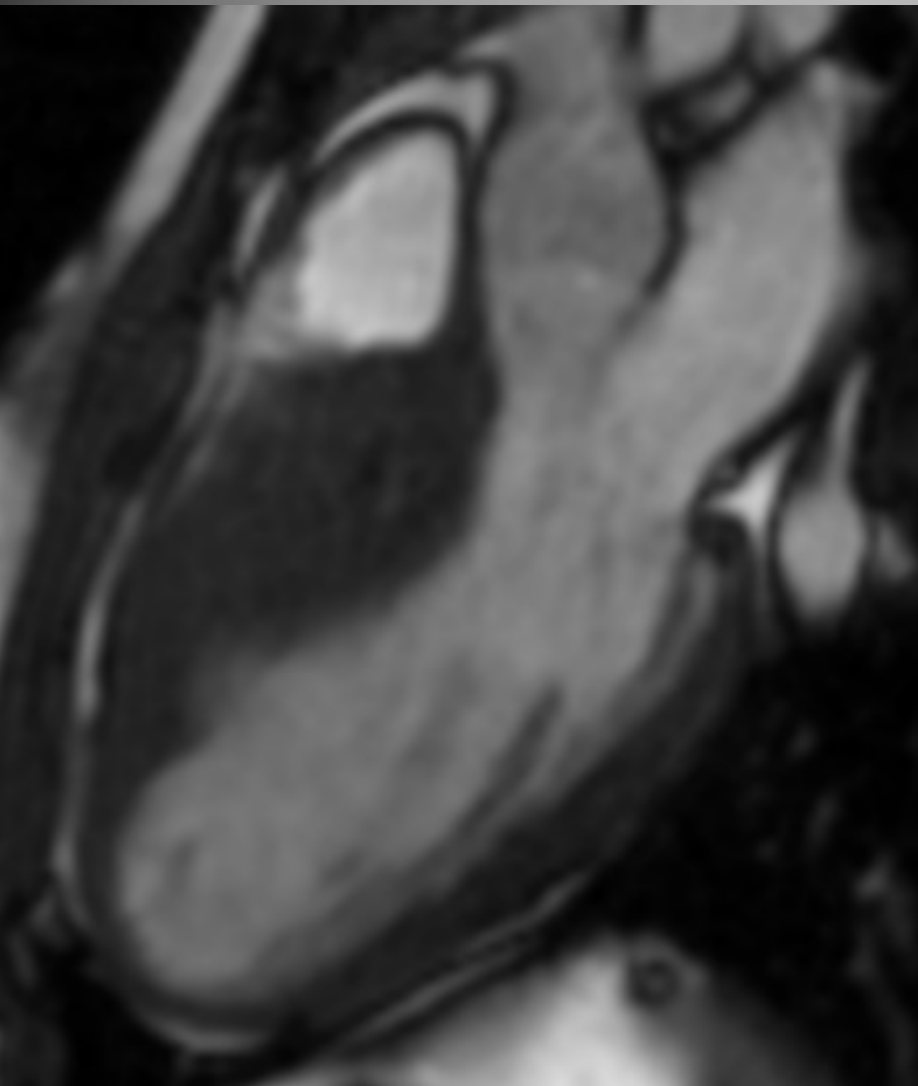
16 anni, 2° screening CMR



18 anni, 3° screening CMR



18 anni, 3° screening CMR



# ICD recommendations

- Sudden death presumably caused by HCM in 1 or more first degree-relatives
- LV wall thickness  $\geq 30\text{mm}$
- One or more recent unexplained syncope
- Patients with NSVT and othe risks factor
- Children with unexplainaed syncope and thickness  $> 30\text{mm}$



# ICD recommendations

## Activated properly

- 4,5% per year overall
- 14% per year for secondary prevention after cardiac arrest
- 3,1% per year for primary prevention on the basis of risks factors

## ICD complications

- 40% at  $17 \pm 5$  years presented ICD complications.

**Prevention of sudden cardiac death with implantable cardioverter-defibrillators in children and adolescents with hypertrophic cardiomyopathy.** Maron BJ, Spirito P, Ackerman MJ. J Am Coll Cardiol. 2013 Apr 9;61(14)

# ICD recommendations

## Activated properly

- 3,3% per 3.7 years

## ICD complications

- 3.4 % per year

**Outcome and complications after implantable cardioverter defibrillator therapy in hypertrophic cardiomyopathy: systematic review and meta-analysis.** Schinkel AF, Vriesendorp PA, Sijbrands EJ. *Circ. Heart Fail.* 2012 5(5):552-559





*Grazie per l'attenzione*