USEFULNESS OF MYOCARDIAL STRAIN IMAGING IN SPINAL MUSCULAR ATROPHY
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Introduction
- Patients with Spinal Muscular Atrophy (SMA) may have cardiac impairment. Main cardiac dysfunction in these patients has been related to autonomic dysfunction.
- Cardiac dysfunction in this group of patients could be related to increased survival associated with the best ventilatory control and better management of the deformities of the rib cage.
- This study assesses the myocardial function with strain of pediatric patients with SMA

Material and method
- Prospective study of cases and controls. Patients diagnosed with SMA, period 2013-2015, with controls matched for age and sex are included.
- Variables systolic / diastolic function echocardiographic analysis are collected as well as Strain pattern.
- Statistical analysis: T Student or ANOVA

Results
- We include 31 case. Median age 7,2 years (0 – 12 years), 87% SMA type II. 29 controls.

Discussion
- Children with SMA have significant reductions in parameters of deformation (strain) despite maintaining a global systolic function.
- The pattern of strain could be considered in the diagnosis and monitoring of disease.
- The prognostic value of these findings needs further time tracking of this patient’s group