

## Main

*Note: This record shows only the 20 elements of the WHO Trial Registration Data Set. To view changes that have been made to the source record, or for additional information about this trial, click on the URL below to go to the source record in the primary register.*

**Register:** ACTR

**Last refreshed on:** 8 January 2008

**Main ID:** ACTRN12607000649415

**Date of registration:** 20/12/2007

**Primary sponsor:** Istituto Rinaldi Fontani

**Public title:** Evaluation of Dysfunctional Patellar Misalignment at the passage from the supine to the sitting position and vice versa in patients with a negative anamnesis for muscular or bone-relevant trauma.

**Scientific title:** Evaluation of Dysfunctional Patellar Misalignment at the passage from the supine to the sitting position and vice versa in patients with a negative anamnesis for muscular or bone-relevant trauma.

**Date of first enrolment:** 1/09/1997

**Target sample size:** 3700

**Recruitment status:** Completed

**URL:** <http://www.anzctr.org.au/ACTRN12607000649415.aspx>

## Countries of recruitment

Italy

## Contacts

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## Key inclusion & exclusion criteria

Inclusion criteria: Healthy subjects, with a negative anamnesis for muscular or bone-relevant trauma and pathologies during the last 2 years

Exclusion criteria: Subjects, with positive anamnesis for muscular or bone-relevant trauma in the last 2 years. Congenital malformation and other musculoskeletal or neurologically-known pathologies

Age minimum: 2 Years

Age maximum: 97 Years

Gender: Both males and females

## Health Condition(s) or Problem(s) studied

Dysfunctional patellar misalignment

## Intervention(s)

Slight somatic differences, when not due to specific causes, prove the existence of Fluctuating Asymmetry (FA). FAs are defined as a casual loss of perfect symmetry, highlighted at level of symmetrical body segments and caused by environmental stressors. They are inversely related with the general psycho-physical condition of the subject. In this study that has involved in eight years 3700 subjects, we

have highlighted and described the presence of asymmetry both in tonic and phasic activation of symmetrical muscular groups. We named this asymmetrical activation as Functional Dysmetria (FD). We might assume that FD is determined by a neuropsychomotor attitude deriving from the adaptation at environmental stress, as observed for FAs. We could also suppose that the asymmetrical tonic and phasic activation of symmetrical muscular groups may determine those alterations of structural charge, this causing those modifications in skeleton morphology typical of FAs. The observation has been carried out with subject in supine position, in sitting position, during the passage from supine to sitting position and vice versa. So as to quantify misalignment and then FD, we employed a not invasive calibre that we have specifically devised, with 1-mm-resolution. The measurements, were taken with the subject in supine position, in sitting position. After each check the subject was asked to descend the bed and walk a dozen steps; afterwards they laid down again on the bed for a new survey. All this was repeated three consecutive times for each subject.

### **Primary Outcome(s)**

The observation of the presence of asymmetrical both in tonic and phasic activation of symmetrical muscular groups and patellar misalignment at the passage from the supine to the sitting position and vice versa and the quantification of this misalignment with a non invasive calibre that we have specifically devised, with 1-mm-resolution.

### **Secondary Outcome(s)**

Detect the presence of patellar misalignment at the passage from the supine to the sitting position and vice versa and the quantification of this misalignment with a non invasive calibre that we have specifically devised, with 1-mm-resolution.

### **Secondary ID(s)**

### **Source(s) of Monetary Support**

Istituto Rinaldi Fontani

### **Secondary Sponsor(s)**

Societa di Ottimizzazione Neuro Psico Fisica e CRM Terapia

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