








TRAMA *TRAINING in Motion Analysis*

**Second Course "Motion Analysis and clinics:
why to set up a Motion Analysis Lab ?"**
- *Clinical cases presentation* -

TRAMA Project
January 14 - 17th 2008
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This is not a clinical case.
This is a presentation of an acquisition where we know what information we want to get, but the program and protocol does not really want to accept our "question".

We want to use the Eliclinic program and Davis protocol in order to get elaboration of internal joint movements and joint rotations .




The automatized system does not allow to big alterations.

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Clinical case presentation

- General purpose
Making a set up for analysing the knee rotation together with muscle recruitment in turning right and left after cruciate ligament operation
- History
Different tendons are used in reconstruction of cruciate ligament (patella vs semitendinosus). The question is how it affects knee function after operation.

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 **Clinical case presentation**  

- Experimental description

The patient walking down from to stairs, stepping on floor with right foot on platform and then turning. Trial is made five times turning right and five times turning left.




- Equipment

8 TVC (Elite BTS Miln, 2 Kistler forceplates, 8 emg surface electrodes.

- Used protocol


Eliclinic gait, Davis marker set up




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Quantitative 3D evaluation

[Link to tracking and analyses window in eliclinic](#)

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Main conclusions

Frames have to be cut before turning to much in walking.

Tracking has to be made manually with thorough control of markers.

Can't get a report – what is wrong?

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