



Program of

Practical Session of the course
"Basics in Motion Analysis"
TRAMA Network Project

13- 21st September 2007

"Luigi Divieti" Lab
Bioengineering Department
Politecnico of Milan
ITALY



**Teachers/Assistants - Practical Session of the course
"Basics in Motion Analysis"
TRAMA Network Project**

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"Basics in Motion Analysis"
TRAMA Network Project**

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Thursday, 13th September 2007

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|---------------|---|
| 9.30 – 10.00 | <i>Manuela Galli</i>
Welcome to Grant Holders and Introduction to Practical Session |
| 10.00 – 11.15 | <i>Manuela Galli</i>
Gait Analysis report: Kinematics – Quantitative description of normal gait (part 1) |
| 11.15 – 11.30 | Break |
| 11.30 – 12.45 | <i>Manuela Galli</i>
Gait Analysis report: Kinematics – Quantitative description of normal gait (part 2) |
| 12.45 – 13.00 | Discussion |
| 13.00 – 14.00 | Lunch |
| 14.00 – 15.30 | <i>Manuela Galli</i>
Gait Analysis report: Kinematics – Typical deviations and clinical interpretation |
| 15.30 – 15.45 | Break |
| 15.45 – 17.00 | <i>Manuela Galli</i>
Gait Analysis report: Kinematics – Case studies |
| 17.00 – 17.30 | Discussion |

Friday, 14th September 2007

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| 9.30 – 10.30 | <i>Veronica Cimolin</i>
Gait Analysis report: Kinetics – Quantitative description of normal gait (part 1) |
| 10.30 – 10.45 | Break |
| 10.45 – 12.45 | <i>Veronica Cimolin</i>
Gait Analysis report: Kinetics – Quantitative description of normal gait (part 2) |
| 12.45 – 13.00 | Discussion |
| 13.00 – 14.00 | Lunch |
| 14.00 – 15.30 | <i>Veronica Cimolin</i>
Gait Analysis report: Kinetics – Typical deviations and clinical interpretation |
| 15.30 – 15.45 | Break |
| 15.45 – 17.00 | <i>Veronica Cimolin</i>
Description of Gait Analysis report: Kinetics – Case studies |
| 17.00 – 17.30 | Discussion |

Monday, 17th September 2007

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| 9.30 – 10.30 | <i>Chiara Rigoldi</i>
Gait Analysis report: EMG – Fundamental concepts in measurement |
| 10.30 – 10.45 | Break |
| 10.45 – 12.45 | <i>Chiara Rigoldi</i>
Practical session in Lab: EMG signal acquisition and data elaboration |
| 12.45 – 13.00 | Discussion |
| 13.00 – 14.00 | Lunch |
| 14.00 – 15.30 | <i>Chiara Rigoldi</i>
Gait Analysis report: EMG – Muscle activity in normal gait and interpretation |
| 15.30 – 15.45 | Break |
| 15.45 – 17.00 | <i>Chiara Rigoldi</i>
Gait Analysis report: EMG – Case studies |
| 17.00 – 17.30 | Discussion |

Tuesday, 18th September 2007

- 9.30 – 10.30 *Manuela Galli*
Not only Gait Analysis: Definition of new protocols
- 10.30 – 10.45 Break
- 10.45 – 12.45 *Manuela Galli*
Difficulties and problems in the definition of new protocols.
Introduction to SmartAnalyser software
- 12.45 – 13.00 Discussion
- 13.00 – 14.00 Lunch
- 14.00 – 15.30 *Chiara Rigoldi, Francesco Menegoni*
Practical session in Lab
- 15.30 – 15.45 Break
- 15.45 – 17.00 *Chiara Rigoldi, Francesco Menegoni*
Practical session in Lab

Wednesday, 19th September 2007

- 9.30 – 10.30 *Manuela Galli*
Not only Gait Analysis: Upper limb movement -
Introduction
- 10.30 – 10.45 Break
- 10.45 – 12.45 *Francesco Menegoni*
Difficulties and problems in the definition of protocol for
the acquisition of upper limb kinematics
- 12.45 – 13.00 Discussion
- 13.00 – 14.00 Lunch
- 14.00 – 15.30 *Francesco Menegoni*
Practical session in Lab
- 15.30 – 15.45 Break
- 15.45 – 17.00 *Francesco Menegoni*
Practical session in Lab

Thursday, 20th September 2007

9.30 – 10.30	<i>Manuela Galli</i> Clinical cases
10.30 – 10.45	Break
10.45 – 12.45	<i>Manuela Galli</i> Clinical cases
12.45 – 13.00	Discussion
13.00 – 14.00	Lunch
14.00 – 15.30	<i>Veronica Cimolin, Chiara Rigoldi</i> Clinical cases
15.30 – 15.45	Break
15.45 – 17.00	<i>Veronica Cimolin, Chiara Rigoldi</i> Clinical cases
17.00 – 17.30	Discussion

Friday, 21st September 2007

9.30 – 10.45 Design and organization of Grant Holders activities in their own Labs

10.45 – 11.00 Break

11.00 – 12.30 Design and organization of Grant Holders activities in their own Labs

12.30 – 13.00 Conclusions

This document has been produced with the financial assistance of the European Union. The contents of this document are the sole responsibility of Dipartimento di Bioingegneria - Politecnico di Milano (ITALY) and can under no circumstances be regarded as reflecting the position of the European Union.