



Azienda Ospedaliera
C.T.O. - Maria Adelaide

4th International Meeting

**UHMWPE for arthroplasty:
from powder to debris**

September 16th - 17th 2009

&

Satellite Meeting

**UHMWPE and medical devices:
from production to the hospital**

September 18th 2009

Turin - ITALY

www.uhmwpe.unito.it

Honorary President **Paolo GALLINARO**
President **Luigi COSTA**



PAOLO GALLINARO



LUIGI COSTA

Dear Participant,

currently, an essential biomaterial for arthroplasty is Ultra High Molecular Weight Polyethylene (UHMWPE). Indeed, for the knee there are no alternatives to date. The available methods which could improve its quality are still under discussion. In particular, following the recent approval of ASTM (American Society for Testing and Materials) norms, stabilization with vitamin E in order to avoid oxidative degradation, and therefore wearing, has become a very crucial matter.

Debris and its consequences inside the organism are the subject of many studies that aim to prevent the disastrous biological effects that we unfortunately have to witness when a prosthetic implantation fails.

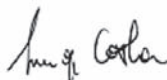
The 4th International Meeting on UHMWPE organized in Turin will be followed by a Satellite Symposium dedicated to evaluation procedures, and subsequent acquisition of prosthetic materials by Italian Hospital companies.

This meeting will provide the opportunity for vital scientific discussions among orthopaedic surgeons, researchers and health related companies. We are particularly grateful to all colleagues, both chemists and orthopaedic specialists, who by attending the conference will bring their valuable contribution. We also appreciate the participation of the Health companies who have enthusiastically accepted to help us in organizing this event.

Prof. PAOLO GALLINARO



Prof. LUIGI COSTA



Honorary President

PAOLO GALLINARO
*Department of Orthopaedics
and Traumatology AO CTO*
Turin University

President

LUIGI COSTA
Department of IFM Chemistry
Turin University

Scientific Committee

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YRIO KONTTINEN
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JOSÉ ANTONIO PUÉRTOLAS

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PROGRAMME

Wednesday 16th September 09

Afternoon

- 13.00 Registration of participants
14.10 Welcome address - P. Gallinaro, L. Costa

Panel Discussion: UHMWPE production, state of the art and open problems

Chairman: S. Kurtz, *Philadelphia, USA*

- 14.20 UHMWPE Implant Technology in 2009: state of the art and future directions
S. Kurtz, *Philadelphia, USA*
14.35 Discussion
14.40 Selected papers (scientific experts of UHMWPE producers and transformers)
15.00 Discussion

Panel Discussion: UHMWPE oxidation and stabilisation (1st part)

Chairman: L. Costa, *Turin, Italy*

- 15.10 Oxidation and stabilisation of PE - N. Billingham, *Brighton, UK*
15.35 Discussion
15.40 Selected papers
16.10 Discussion
16.20 Coffee break

Panel Discussion: UHMWPE oxidation and stabilisation (2nd part)

Chairman: N. Billingham, *Brighton, UK*

- 16.40 Vitamin E stabilization of radiation crosslinked UHMWPE by diffusion
E. Oral, *Boston, USA*
16.55 Stabilisation of UHMWPE with vitamin E: chemical mechanisms - P. Bracco, *Turin, Italy*
17.10 Discussion
17.20 Selected papers
17.50 Discussion
18.00 End of proceedings

Thursday 17th September 09

Morning

Panel Discussion: Crosslinked UHMWPE

Chairman: C. Rimnac, *Cleveland, USA*

- 08.30 New findings with first generation highly crosslinked UHMWPE
O.K. Muratoglu, *Boston, USA*
08.45 Should crosslinked UHMWPE be used in TKA? - A. Bellare, *Boston, USA*
09.00 Discussion
09.10 Selected papers
09.40 Discussion

PROGRAMME

Panel Discussion: Mechanical properties of UHMWPE

Chairman: J. A. Puértolas, *Zaragoza, Spain*

- 09.50 Fracture behaviour of 1st and 2nd generation highly crosslinked UHMWPEs
C. Rimnac, *Cleveland, USA*
- 10.05 Discussion
- 10.10 Selected papers
- 10.40 Discussion
- 10.50 *Coffee break and Poster session*

Panel Discussion: UHMWPE wear and debris (1st part)

Chairman: Y. Konttinen, *Helsinki, Finland*

- 11.50 Selected papers
- 12.20 Discussion
- 12.30 UHMWPE debris: which chemical characteristics?
L. Costa, *Turin, Italy*
- 12.45 Biological activity of nanometre sized polymer particles
J. Tipper, *Leeds, UK*
- 13.00 Discussion
- 13.10 *Lunch*

Afternoon

Panel Discussion: UHMWPE wear and debris (2nd part)

Chairman: E. Gómez-Barrena, *Madrid, Spain*

- 14.30 Host response to UHMWPE wear debris
Y. Konttinen, *Helsinki, Finland*
- 14.45 UHMWPE debris: which biological behaviour?
E. Brach del Prever, *Turin, Italy*
- 15.00 Discussion
- 15.10 Selected papers
- 15.30 Discussion
- 15.35 *Coffee break*
- 15.55 Selected papers
- 16.15 Discussion

ROUND TABLE: Which UHMWPE and why?

Chairmen: W. Puhl, *Oberstdorf, Germany*, S. Kurtz, *Philadelphia, USA*

- 16.20 Selected papers
- 17.00 Discussion
- 17.30 End of proceedings

SATELLITE MEETING

Organized by

Alberto Andrion - CEO, Chief Executive Officer, AO CTO/M. Adelaide Hospital of Turin

Paolo Gallinaro - Director of the Orthopaedics and Traumatology Department, AO CTO/M. Adelaide Hospital of Turin

Friday 18th September 09

Morning

08.15 Registration of participants

08.30 Welcome address - Alberto Andrion, Paolo Gallinaro

08.45 Competition procedures for the acquisition of prosthetic components

Franca Dall'Occo, Director of the Logistics and Technical Department, CTO/Maria Adelaide Hospital of Turin

09.00 Past experiences: polyethylene quality and Ministerial recommendation of March 5th 2005
Paolo Gallinaro

09.15 Norms concerning the certification and classification of medical devices and creation of the national classification of medical devices - Antonella Colliardo, MD Manager, Direction of Medicine and Medical Devices Ministry of Labour, Health and Social Affairs Department of Innovation, Rome

09.25 Device certification and production quality - Massimo Neroni, Responsible for Certification of Quality Systems of high risk medical devices, Italian Notified Body 0373, Italian Institute of Health, ISS, Rome

09.35 Discussion

09.50 Coffee break

Chairmen: Alberto Andrion, CEO, Chief Executive Officer, CTO/M. Adelaide Hospital of Turin

Giovanni Baldi, CEO, Chief Executive Officer, Rizzoli Orthopaedic Institute, Bologna

10.15 Trends for the national revision burden for hip and knee replacement in Italy
Valerio Manno, Researcher of the Italian National Institute of Health ISS, Rome

10.30 The contribution of registries - Marina Torre, Coordinator of the National Hip Arthroplasty Registry Project, Italian National Institute of Health ISS, Rome

10.45 The researcher's view - Luigi Costa, Department of IFM Chemistry, University, Turin

11.00 The industry's view - Davide Perego, Chief Technical and Scientific Area of ASSOBIMEDICA, Italian Association for Biomedical and Diagnostic Technology, Milan

11.15 The orthopaedic's view - Aldo Toni, Director of the 1st Division, Rizzoli Orthopaedic Institute, Bologna

11.30 The voice of patients - Antonella Celano, President of the National Association of Rheumatic Patients, ANMAR, Lecce

11.45 The role of Technology Assessment and the Regional Agency for Health Services (ARESS)
Oscar Bertetto, CEO, Chief Executive Officer of ARESS, Turin

12.00 Legal aspects in an international perspective - Giuseppe Porro, Professor of International Economic Law, Turin

12.15 The role of administrations and their discretionary powers - Alberto Andrion, Giovanni Baldi

12.30 Discussion

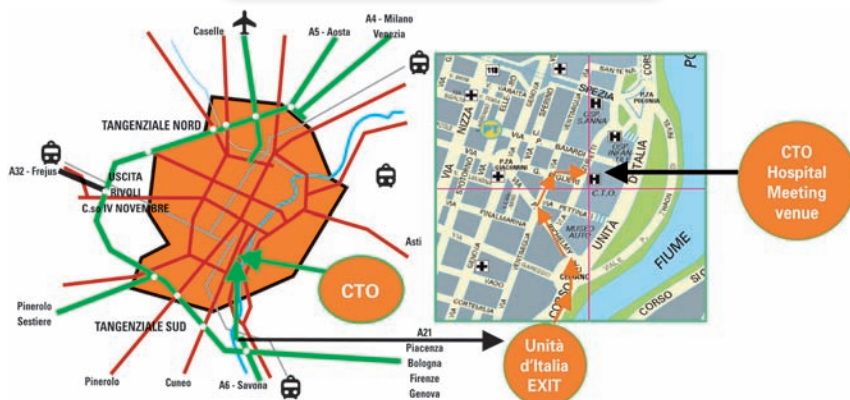
12.45 Conclusions

Pietro Bartolozzi, President of the Italian Society of Orthopaedics and Traumatology, SIOT, Verona

Luigi Boggio, President of Assobiomedicali, ASSOBIMEDICA, Italian Association for Biomedical and Diagnostic Technology, Milan

13.00 End of proceedings and CME test

HOW TO REACH TURIN



BY AIR - The international Sandro Pertini airport of Turin is located at Caselle, 15 Km from city centre. A shuttle service is available from 6.05 AM to 11.30 PM. You can buy tickets directly onboard or at the ticket machine at the arrival level (one-way fare 5.50 €). Licensed taxis are for hire outside the Passenger Terminal, immediately in front of the domestic E.U. arrivals at the Ground Floor-Level Zero. Taxis cost approximately 35-40 € to reach downtown Turin.

BY TRAIN - Rail connections by intercity service from Italian and European cities arrive at the main railway station, Porta Nuova, located in the heart of the city and 15' by taxi from the meeting venue.

BY CAR - From major motorways follow the direction TORINO SUD, take the exit CORSO UNITÀ D'ITALIA and follow road signs for the hospital area and CTO (refer to detailed map).

INFORMATION

Meeting Venue

Orthopaedic Trauma Centre CTO
Aula Magna
Via Zuretti, 29 10126 Turin Italy
www.cto.to.it

CME

(Continuous Education in Medicine)

CME accreditation has been requested for
Italian Medical Surgeons

Registration

The registration form is available
on the web site of the meeting:
www.uhmwpe.unito.it

Fees

4th UHMWPE + Satellite Meeting (September 16th-17th-18th)
Registration by July 31st: 100 € VAT incl - After: 150 € VAT incl
Satellite Meeting (September 18th)
Registration by July 31st: 60 € VAT incl - After: 90 € VAT incl

Bank transfer made out to:

IL MELOGRANO CENTRO SERVIZI
IBAN IT94K0326801001024554815240
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Please specify UHMWPE Meeting

Any bank charges must be covered by each participant.
(Extra UE participants should select option "our" on the bank transfer form).

(*) to confirm your registration, send us a copy of your bank transfer by fax or email.

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PATRONAGES

Piedmont Region
Turin Province
Municipality of Turin

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EFORT - European Federation of National Association of Orthopaedics
and Traumatology

IORS - Italian Orthopaedic Research Society

OTODI - Italian Hospital Orthopaedic Traumatologists

AIM - Italian Macromolecular Association

AO CTO M. Adelaide - Hospital and Trauma Center

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Turin University
Faculty of Medicine and Surgery
Faculty of Mathematical, Physical and Natural Sciences

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Turin Province Medical and Dental Surgeons Association



with special thanks to

