EARLY OSTEOARTHRITIS: All Around Biological Solutions

CAN WE DELAY THE PROGRESSION OF OSTEOARTHRITIS?

21-22 May 2015
Palazzo della Gran Guardia, Verona (Italy)

ENDORSEMENTS
EARLY OSTEOARTHRITIS:
All Around Biological Solutions

CAN WE DELAY THE PROGRESSION OF OSTEOARTHRITIS?

21-22 May 2015
Palazzo della Gran Guardia, Verona (Italy)

Scientific Committee

President
C. Zorzi

Honorary President
M. Denti

Program Chair
V. Condello

Program Committee
E. Kon, M. Berruto, G.M. Peretti

Local Committee
V. Madonna, M. Speri
Thursday 21st May, 2015

9.00
Registration

10.30-11.45
X-CARTILAGE pre-selection
Godfathers/Chairs: E. Adriani, A. Tripodo, F. Vannini

11.00
Brunch at foyer

12.00
Welcome
C. Zorzi, M. Denti, V. Condello

Ouverture

Orchestra Director
G. Cerulli, C. Zorzi

12.15
Definition EOA
M. Denti

12.30
Biological aspects
H. Madry
Preludio

**Bone Marrow Edema**
*Chairs: E. Kon, L. Murena*

12.45
BME/SONK – What are we talking about?
*M. Ronga*

13.00
Radiological Aspects from Algodystrphy
to Bone Marrow Lesions
*N. Shabshin*

13.15
Farmacological Treatment
*S. Adami, L. Idolazzi*

13.30
Physical Treatment
*G. Zanon*

13.45
The role of Subchondroplasty and Injection Plasty
*J. Farr*

14.00
Subchondral bone treatment / Any other options?
*E. Kon*

14.15
Take Home Message
*G. Milano*

14.30
Discussion
**First Atto**

**Patellofemoral Joint and Arthritis Evolution**

*Chairs: F. Cortese, A. Schiavone Panni*

14.40
Evolution of potential patellar instability and anterior knee pain
*L. Arendt*

14.55
Does surgical treatment of objective patellar instability prevent EOA?
*S. Zaffagnini*

15.10
Patellofemoral condral lesion: to treat or not to treat?
*M. Berruto*

15.25
Treatment of early patellofemoral OA
*J. Farr*

15.40
Discussion
Second Atto

MENISCAL PRESERVATION
Chairs: R. Verdonk, R. Zini

15.50
THE TENOR CONTEST (MINIBATTLE)
Degenerative meniscal lesion: to treat or not to treat?
F. Dirisamer vs N. Pujol

16.20
Meniscal Scaffold
R. Verdonk

16.35
Meniscal Allograft Transplantation
(and biological improvement)
T. Spalding

16.50
Advanced Meniscal Repair
R. Seil

17.05
New Biological Solutions
G.M. Peretti

17.20
Discussion

17.30
Tea time at foyer
Third Atto

**Athletes with EOA**

*Chairs: M. Denti, P. Volpi*

- **17.50**
  Cartilage and ACL: to treat or not to treat?  
  *J. Menetrey*

- **18.05**
  Aging Athletes and EOA  
  *T. Spalding*

- **18.20**
  Cartilage Lesions in ACL Injury:  
  Experience from the Scandinavian ACL Registry  
  *M. Forssblad*

- **18.35**
  Discussion

- **18.45**
  End of the first day

- **19.00**
  *Welcome Cocktail*
Friday 22\textsuperscript{nd} May, 2015

Fourth Atto

\textbf{LOADS REDISTRIBUTION}
\textit{Chairs: A. Causero, J. Farr}

8.15
Load redistribution: New devices
\textit{C. Zorzi}

8.30
Nusurface LIVE SURGERY
\textit{V. Condello, C. Zorzi}

9.10
Kinespring LIVE SURGERY
\textit{V. Madonna, C. Zorzi}

9.50
Do we need Cartilage Repair when we redistribute loads?
\textit{A. Gomoll}

10.05
Take Home Message
\textit{P. Randelli}

10.15
\textit{Break at foyer}

10.45
\textbf{ARIA}
Condrocyte transplantation for early OA (from nose to the knee)
\textit{I. Martin}
Fifth Atto

CHONDRAL AND OSTEOCHONDRAL RECONSTRUCTION: ANY PLACE IN EOA?
(non-CME certified)
Chairs: M. Hirschmann, D. Rosa

11.00
Clinical results with a novel aragonate-based osteochondral scaffold
E. Kon

11.10
Use of micro-fragmented autologous adipose tissue obtained with Lipogems® system in the treatment of knee osteoarthritis
K. Slynarski

11.20
Maioregen Scaffold for Osteochondral Reconstruction in Early OA
M. Delcogliano

11.30
Mid- and longterm results of AMIC in the knee
M. Steinwachs

11.40
Primary chondrocytes and bone marrow cells on a co-polymer scaffold: 2-year results of a prospective, multicenter clinical trial in patients with cartilage defects of the knee
K. Slynarski

11.50
Regen Lab Italia and Ortholab Autologous Cell Concentrates: an overview
M. Innocenti

12.00
Cell-based treatment of huge osteochondral lesions in the knee joint
P. Angele
12.10
Morphologic and structural evaluation of cartilage at ultra high field (7T)
C. Bartolozzi

12.20
Nanofracture
A. Manunta

12.30
The Tenor Contest (Minibattle)
Microfracture: no regeneration without augmentation?
A. Schiavone Panni vs D. Saris

13.00
Lunch at foyer

Lunch symposia
(non-CME certified)
Bioreactor-based, clinically oriented manufacturing of engineered tissues
Project funded by the European Commission Seventh Framework Programme
I. Martin

13.45
The project overview

13.55
The bioreactor system

14.05
The pre-clinical model

14.10
Discussion
X–Cartilage
(NON-CME CERTIFIED)
Chairs: E. Adriani, A. Tripodo, F. Vannini

Presentation of the Best Paper

14.30
Candidate n. 1

14.35
Candidate n. 2

14.40
Candidate n. 3

14.45
Candidate n. 4

14.50
Candidate n. 5

14.55
Final voting
Sixth Atto

Conservative Treatment and Joint Homeostasis

Chair: M.T. Pereira Ruiz

15.15
Conservative Treatment: When and How?
D. Van Assche

15.30
Viscosupplementation
U.G. Longo, V. Denaro

15.45
PRP
G. Filardo

16.00
Farmacological Pain Management
P. Marchettini

16.15
Take Home Message
L. Boldrini
Seventh Atto

**STEM CELLS**

*Chairs: P. Angele, M. Steinwachs*

16.30  
Growth Factors: Is that still a valuable option for delaying early OA?  
*S. Chubinskaya*

16.45  
Neurotrophins and related growth factors in developing OA  
*A. Gigante*

17.00  
Improving mesenchymal progenitors potential in skeletal tissues regeneration  
*M. Dominici*

17.15  
Intra-operative solutions: concentrated bone marrow and adipose tissue stromal vascular fraction  
*L. De Girolamo*

17.30  
Collagen + BMAC  
*A. Gobbi*

17.45  
Collagen + BMAC  
*R. Buda*
18.00
Allogenic Stem Cells
D. Saris

18.15
Umbelical cord stem cells: is it a possible horizon for EOA?
A. Marmotti

18.30
THE TENOR CONTEST (MINIBATTLE)
Stem cell injection for EOA yes or no?
F. Soler vs G. Milano

18.40
Discussion

18.50
Epilogo
What have we learned
P. Angele
FACULTY

Silvano Adami, Verona
Ezio Adriani, Roma
Peter Angele, Regensburg, Germany
Lisa Arendt, Minneapolis, USA
Carlo Bartolozzi, Pisa
Massimo Berruto, Milano
Lorenzo Boldrini, Milano
Roberto Buda, Bologna
Araldo Causero, Udine
Giuliano Cerulli, Roma
Susanna Chubinskaya, Chicago, USA
Vincenzo Condello, Verona
Fabrizio Cortese, Rovereto (TN)
Laura De Girolamo, Milano
Marco Delcogliano, Roma
Vincenzo Denaro, Roma
Matteo Denti, Milano
Florian Dirisamer, Linz, Austria
Massimo Dominici, Modena
Jack Farr, Indianapolis, USA
Giuseppe Filardo, Bologna
Magnus Forssblad, Stockholm, Sweden
Antonio Gigante, Ancona
Alberto Gobbi, Milano
Andreas Gomoll, Boston, USA
Michael Hirschmann, Bruderholz, Switzerland
Luca Idolazzi, Verona
Massimo Innocenti, Firenze
Elizaveta Kon, Bologna
Umile Giuseppe Longo, Roma
Vincenzo Madonna, Verona
Henning Madry, Hamburg, Germany
Andrea Manunta, Sassari
Paolo Marchettini, Milano
Antonio Marmotti, Torino
Ivan Martin, Basel, Switzerland
Jacques Menetrey, Geneva, Switzerland
Giuseppe Milano, Roma
Luigi Murena, Trieste
Maria Teresa Pereira Ruiz, Roma
Giuseppe M. Peretti, Milano
Nicolas Pujol, Paris, France
Pietro Randelli, Milano
Mario Ronga, Varese
Donato Rosa, Napoli
Daniel Saris, Utrecht, The Netherlands
Alfredo Schiavone Panni, Roma
Romain Seil, Luxembourg, LUX
Nogah Shabshin, Tel Aviv, Israel
Konrad Slynarski, Warsaw, Poland
Francesc Soler, Barcelona, Spain
Tim Spalding, Coventry, UK
Matthias Steinwachs, Zurich, Switzerland
Alessandro Tripodo, Forte dei Marmi (LU)
Dieter Van Assche, Leuven, Belgium
Francesca Vannini, Bologna
Rene Verdonk, Ghent, Belgium
Piero Volpi, Milano
Stefano Zaffagnini, Bologna
Giacomo Zanon, Pavia
Raul Zini, Pesaro
Claudio Zorzi, Verona
ORGANIZING SECRETARIAT
COGEST M. & C. srl (CME PROVIDER)
Vicolo San Silvestro 6, Verona 37122 (Italy)
Phone: 0039 045 597940 - Fax: 0039 045 597265
E-mail: generalinfo@earlyosteoarthritisverona2015.org

ACCOMMODATION
VERTOURS srl
Galleria Pellicciai 13, Verona 37121 (Italy)
Phone: 0039 045 9298300 - Fax: 0039 045 8010108
E-mail: accommodation@earlyosteoarthritisverona2015.org

REGISTRATION FEE ON SITE
Medical doctor
380,00 + 22% VAT = € 463,60
Medical doctor ESSKA/SIGASCOT/SIOT/SIA Members
(20% discount on medical doctor rate)
304,00 + 22% VAT = € 370,88
Physiotherapist
200,00 + 22% VAT = € 244,00
No CME Participant (e.g. Phd Student, Student)
200,00 + 22% VAT = € 244,00

Registration fees include: admittance to all Scientific sessions, coffee breaks, lunches, welcome cocktail, congress kit and certificate of attendance.

MEETING VENUE
Palazzo della Gran Guardia - Piazza Bra, Verona (right in front of the arena of Verona)

OFFICIAL LANGUAGE
The official Meeting language is English with simultaneous translation English-Italian.

SECRETARIAT DESK
The Secretariat Desk at the Meeting venue will be open:
Thursday 21st May, 2015: from 9.00 to 19.30
Friday 22nd May, 2015: from 8.00 till the end of the working sessions
Secretariat phone during the Meeting: 0039 329 4610295

SOCIAL PROGRAM
Thursday 21st May, 2015, h.19.00        Welcome Cocktail at the Meeting Venue

CME CREDITS INFORMATION - Only for Italian participants
COGEST M. & C. Srl - Provider Res. Cod. 979
L’evento è stato accreditato per le seguenti professioni: Medico Chirurgo (discipline: Medicina dello Sport, Medicina Fisica e Riabilitazione, Ortopedia e Traumatologia) e Fisioterapista. Per l’attribuzione dei crediti formativi è richiesta la presenza in aula per tutta la durata del Meeting (100%); è necessario aver superato il questionario di apprendimento con almeno il 75% di risposte corrette ed aver compilato la modulistica relativa alla qualità percepita. Obiettivo formativo di sistema n. 2: linee guida - protocolli – procedure.
CARS & PARKING
Be careful about driving into Verona city centre because of ZTL areas, which are limited traffic flow areas where the access of cars is limited to pre-established times.

Free access to the ZTL areas
Timetable
Monday - Friday:
· from 10.00 to 13.30
· from 16.00 to 18.00
· from 20.00 to 22.00
Saturday, Sunday and holidays: - from 10.00 to 13.30
If staying at a hotel inside a ZTL area, make sure the hotel or its garage calls the plate into the police and obtains a provisional transit permit. Keep the hotel bill in case you need to challenge a fine later.

Parking
Free parking in Verona:
· Porta Palio Parking - Stradone Porta Palio
· Piazzale Guardini Parking - Piazzale Guardini
· Stadium Parking (three parks and ride) - Piazzale Olimpia

Pay and display parking:
· Arena Parking - Via Bentegodi, 1 - tel. 0039 045 8009333
· Cittadella Parking - Piazza Cittadella, 4 - tel. 0039 045 595593
· Italia Parking - Corso Porta Nuova, 91 - tel. 0039 045 8006312
· Piazza Isolo Parking - Via Ponte Pignolo, 6 - tel. 0039 045 8007921
· Via Città di Nimes Parking - Via Città di Nimes - tel. 0039 045 2320025
· Arsenale Parking - Via Todeschini, corner Viale della Repubblica - tel. 0039 045 8303460

Parking meters
Parking meters are located in the Green Area (ZTL - Limited Traffic Zone) and in the neighbourhoods surrounding the old town Red Area (CORONA AREA): San Zeno, Veronetta, Cittadella, Borgo Trento and Pindemonte. They accept only coins from € 0,10 to € 2,00. Depending on the coins inserted and on the fare in force in the area, they issue a ticket of minimum 30 minutes (€ 0,50 - 30 minutes; € 1 - each hour). The parking meters also offer the possibility of issuing urban bus tickets every day. The ticket issued by the parking meter must be placed on the dashboard of the car. It must be visible by parking enforcement officers.

CHEMIST’S & HOSPITALS
In the city centre there are several chemist shops, easy to recognize by a bright green cross. They open Monday - Friday from 9.00 to 12.00 and from 16.00 to 19.00.
Duty pharmacies open also on weekends and holidays.
Hospital Switchboard 0039 045 8121111
ELECTRICITY
Italian voltage is 230 and frequency is 50 Hz. The electric plugs are mainly type L (three pole “Italian” plug). This standard includes two models rated at 10 A and 16 A that differ in contact diameter and spacing. Both are symmetrical, allowing the plug to be inserted at either direction.

EMERGENCIES
In case of health emergencies or dangerous situations the number to call is 118
- Carabinieri (Italian military police) 112
- Police 113
- Fire brigade 115

GETTING AROUND
Verona city centre is extremely rich in historic and architectural beauty; so it is certainly worth a visit on foot. This is the only way to enjoy completely the view of magnificent palaces, squares and monuments that bring us to an imaginary trip back to Verona’s glorious history. Moreover, enjoy picturesque glimpses that stimulate your attention and enliven your fantasy!

LANGUAGE
The official language is Italian. Verona is a popular tourist destination, so most of the restaurants and bars staff speak English and German.

OPENING HOURS
Banks: from 8.30 to 12.30 and from 14.30 to 16.00 approximately
Offices: Monday - Friday 9.00 / 13.00 - 14.00 / 18.30
Shops: Monday 15.00 / 19.30 - Tuesday/Saturday 9.30 / 19.30
(some shops open all day from 9.30 to 19.30)
Supermarkets: Monday - Friday 8.30 /12.30 - 15.30 / 19.30
In the city centre, supermarkets usually stay open from 8.30 to 19.30 or later.

PUBLIC TRANSPORT
Azienda Trasporti Veronesi (ATV) runs urban public transport. Tickets, valid within 90 minutes from the validation, can be bought at tobacconists for € 1,30 or € 1,50 if bought on board. For € 4,00 it is possible to buy a daily ticket, valid 24 hours long on all urban routes. Here is a summary of the main routes in the city:
- from the station to Piazza Bra (Arena)
  Monday - Saturday: buses 11, 12, 13, 72; on Sunday: 90, 92, 93, 96, 97
- from the station to Castelvecchio
  Monday - Saturday: 21, 22, 23, 24, 41; on Sunday: 91, 93, 94, 95

SHOPPING
Via Mazzini and Via Porta Borsari are appreciated and well known for the great deal of beautiful shops they display. Footwear, clothes, underwear, leather goods stores, etc. all the best that Italian high fashion labels offer to fashion victims!
TAXI
Radiotaxi switchboard (24 hours a day - 7 days a week) 0039 045 532 666
Taxi stand Piazza Bra 0039 045 803 0565
Taxi stand Porta Nuova Station 0039 045 800 4528

TELEPHONES
Italy country code is 0039.
For international calls, dial 00 + national code + area code + number

TIME
The Italian local time is UTC (GMT) + 1, that means one hour ahead of Greenwich mean time. Italy adopts the daylight saving time (DST) from the last Sunday of March till the last Sunday of October.

VERONA CARD
VeronaCard is an all-inclusive ticket that allows to gain free entry to museums, churches and monuments in the city and travel for free on ATV bus services.
There are two cards available:
· VeronaCard valid for 24 hours (after the first validation) at the price of € 18,00
· VeronaCard valid for 48 hours (after the first validation) at the price of € 22,00
You can buy VeronaCard at museums, monuments, churches, tobacconists and tourist information points in the city centre and at Garda lake surroundings and at all the sales points which participate in the initiative.
For further information: www.veronacard.it
ACKNOWLEDGEMENTS
for the contribution of a generous unrestricted grant
These lectures have been supported by the following companies with an unconditioned grant:

Friday 22nd May, 2015

Fifth Atto (non CME certified)

11.10 Use of micro-fragmented autologous adipose tissue obtained with Lipogems® system in the treatment of knee osteoarthritis

11.20 Maioregen Scaffold for Osteochondral Reconstruction in Early OA

11.30 Mid- and longterm results of AMIC in the knee

11.40 Primary chondrocytes and bone marrow cells on a co-polymer scaffold: 2-year results of a prospective, multicenter clinical trial in patients with cartilage defects of the knee

11.50 Regen Lab Italia and Ortholab Autologous Cell Concentrates: an overview

12.20 Nanofracture

Seventh Atto

16.30 Stem Cells

19.00 with unconditioned grant of