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Antonio Messineo
Alessia Bertocchini
Flavio Facchini
Marco Ghionzoli
Roberto Lo Piccolo
Alessandra Martin
Elisa Salomoni (Secretary)
Dear Friends, Colleagues and CWIG’s Members, we are honored to welcome you to the Florence CWIG, 18th Annual Meeting which will continue on the pathway of the previous meetings in Istanbul, Buenos Aires, Seoul, Aarhus, Hong Kong and Norfolk. The aim of forthcoming meeting is to propose and discuss guidelines and clinical recommendations on the management of chest pathologies.

We hope that the final achievement will be to strengthen the central role of the CWIG as a worldwide scientific reference and to establish a standard for innovation in chest wall diseases.

The scientific program will offer many quality lectures delivered by leading international experts in the field of congenital and acquired chest wall disorders, reserving the privilege of the floor to young and senior pediatric, thoracic and plastic surgeon, gathered in Florence from all over the world.

Florence, cradle of the Italian Renaissance, with its historical, artistic and cultural heritage, and numerous museums and art galleries, is waiting for you and your families. Don’t even forget that Tuscany region is well known for excellent wines and delicious Italian food!

We hope that the CWIG 2017 will be an amazing experience, both scientific and research-wise, but also a great opportunity to step into the charm, history and culture of one of the most beautiful cities in the world.

We are proud to give you a warm welcome to the 18th Annual CWIG Meeting, in Florence.
WEDNESDAY, JUNE 14

SALONE BRUNELLESCHI

14:00-14:05  WELCOME TO FLORENCE  
Antonio Messineo, Florence - Italy, Chairman of the CWIG Florence meeting

14:05-14:15  CRITICAL THINKING FOR SUCCESSFUL REPAIR OF FULL RANGE PECTUS DEFORMITIES  
Hyung Joo Park, Seoul - Republic of Korea, CWIG President

14:15-14:30  NUSS PROCEDURE: WHERE ARE WE GOING?  
Donald Nuss, Norfolk - USA, Honorary President of the CWIG Florence meeting

14:30-15:30  HOT ISSUE IN NUSS PROCEDURE  
Chairs: Frank-Martin Haecker, Basel - Switzerland
José Ribas Milanez de Campos, Sao Paolo - Brasil

INDICATIONS TO MIRPE  
Robert Kelly, Norfolk - USA vs Sadashige Uemura, Kurashiki - Japan

BAR FIXATION  
Hans Pilegaard, Aarhus - Denmark vs Hyung Joo Park, Seoul - Republic of Korea

15:30-16:30  WHICH INDEX FOR PECTUS EXCAVATUM?  
Chairs: Dawn Jaroszewski, Phoenix - USA
Manuel Lopez, Barcelona - Spain

INDEXES AND IMAGING, THE NEXT PECTUS REVOLUTION  
Marcelo Martinez Ferro, Buenos Aires - Argentina

MORPHOLOGICAL CLASSIFICATION PLUS 4-WAY CT INDEXES GIVES 3 DIMENSIONAL IMAGE OF PECTUS DEFORMITY  
Hyung Joo Park, Seoul - Republic of Korea

A NOVEL OBJECTIVE APPROACH TO EXTERNAL MEASUREMENT OF PECTUS EXCAVATUM SEVERITY  
Francesca Uccheddu, Florence - Italy

Q&A

SALONE BORGHINI - EXHIBITORS AREA

16:30-17:00  Coffee break
**SALONE BRUNELLESCI**

**17:00-18:00 SHORT ORAL PRESENTATION FIRST SESSION**

**Chairs:** Robert Kelly, Norfolk - USA  
Mustafa Yüksel, Istanbul - Turkey

**S. O. 1**  
HEAVY METAL RELEASE AFTER MINIMALLY-INVASIVE REPAIR OF PECTUS EXCAVATUM USING STAINLESS STEEL BAR  
Caroline Fortmann, Hannover - Germany

**S. O. 2**  
DYNAMIC BRACE THERAPY FOR THE CORRECTION OF PECTUS CARINATUM IN DENMARK  
Hans Pilegaard, Aarhus - Denmark

**S. O. 3**  
MOVING TOWARDS AN INTERDISCIPLINARY MODEL FOR PECTUS EXCAVATUM ASSESSMENT: EVALUATING PATIENTS’ INTEREST IN NARRATIVE THERAPY FOR DECISION-MAKING ABOUT TREATMENT  
Davide Ticchi, Tallinn - Estonia

**S. O. 4**  
PECTUS BAR INFECTION: DO WE NEED TO REMOVE THE BAR?  
SeokBeom Hong, Seoul - Republic of Korea

**S. O. 5**  
CAUSES OF EXERCISE INTOLERANCE IN PECTUS EXCAVATUM: A 111 CASES AND 20 CONTROLS STUDY  
Maximiliano Nazar-Peirano, Buenos Aires - Argentina

**S. O. 6**  
POSTOPERATIVE COMPLICATIONS IN MODIFIED NUSS PROCEDURE FOR CORRECTION OF PECTUS EXCAVATUM: A COMPARISON BETWEEN ADOLESCENT AND ADULT PATIENTS  
Enzo Van Loo, Heerlen - Netherlands

**S. O. 7**  
IMPACT OF CUSTOMIZED PRE-BENT BAR IN NUSS PROCEDURE  
Tiago Henriques-Coelho, Porto - Portugal

**S. O. 8**  
STERNO-VERTEBRAL DISTANCE FOR THE EVALUATION OF RECURRANCE AFTER NUSS-BAR REMOVAL  
Sadoshi Uemura, Kurashiki - Japan

**S. O. 9**  
EXPERIENCE IN THE MANAGEMENT OF PECTUS EXCAVATUM WITH PROCEDURE OF NUSS IN CHILDREN OF THE NORTHWEST REGION OF MEXICO  
Gabriela Ambriz-González, Guadalajara - Mexico
WEDNESDAY, JUNE 14

SALONE BRUNELLESCHI

S. O. 10  BILATERAL VS. UNILATERAL VATS ASSISTED APPROACH IN PECTUS EXCAVATUM SURGERY, SINGLE INSTITUTION EXPERIENCE
Pavel Omanik, Bratislava - Slovakia

S. O. 11  THE USE OF VACUUM BELL IN PECTUS EXCAVATUM
Laureano Molins López-Rodó, Barcelona - Spain

S. O. 12  CONGENITAL CHEST WALL DEFORMITIES: A MODIFIED SURGICAL TECHNIQUE
Fadil Gradica, Tirana - Albania

18:00-18:30 SPECIAL ISSUES FIRST SESSION

Chairs: Antonio Messineo, Florence - Italy
        Jean-Marie Wihlm, Strasbourg - France

O. 1  THE IMPORTANCE OF PSYCHOLOGICAL FACTORS IN MIRPE PROCEDURE
Eugenia Coppitz, Florence - Italy

O. 2  CHANGES IN CHILDREN’S QUALITY OF LIFE AFTER PECTUS EXCAVATUM REPAIR
Mihoko Nakani, Okayama - Japan

O. 3  STANDARDIZATION OF CLINICAL CARE PATHWAY LEADS TO DECREASED LENGTH OF STAY FOLLOWING NUSS PECTUS REPAIR
Rebecca L. Brown, Cincinnati - USA

MEN’S CLOISTER

19:00-21:00 WELCOME COCKTAIL
THURSDAY, JUNE 15

SALONE BRUNELLESCHI

8:00-9:05 NEW DIAGNOSTIC AND THERAPEUTIC DEVICES

Chairs: Manuel Lopez, Barcelona - Spain
        Marcelo Martinez Ferro, Buenos Aires - Argentina

3-DIMENSIONAL PRINTING OF CUSTOM-FIT ARTIFICIAL CHEST WALL: PARADIGM SHIFT FOR CHEST WALL DEFECT RECONSTRUCTION
Hyung Joo Park, Seoul - Republic of Korea

LIPOTRANSFER AND DERMAL MATRIX IN CHEST WALL DEFORMITIES REFINEMENT
Flavio Facchini, Florence - Italy

O. 4 QUANTITATIVE AND NON INVASIVE ASSESSMENT IN PATIENTS WITH PECTUS EXCAVATUM
Jean-Loic Rose, Lyon - France

O. 5 3D BODY SCANNING FOR THE TREATMENT OF PECTUS EXCAVATUM
Sadashige Uemura, Kurashiki - Japan

O. 7 CORRECTION OF CONGENITAL CHEST WALL MALFORMATIONS BY CUSTOM-MADE SILICONE IMPLANTS: CONTRIBUTIONS OF COMPUTER-AIDED DESIGN
Jean Pierre Chavoin, Toulouse - France

Q&A
SALONE BRUNELLESCHI

THURSDAY, JUNE 15

ROUND TABLE ON BAR REMOVAL

9:05-10:10

**Chairs:** Claus Petersen, Hannover - Germany
Hans Pilegaard, Aarhus - Denmark

**O. 8** FIRST DECADE’S EXPERIENCE WITH VARIOUS BAR REMOVAL TECHNIQUES AFTER THE NUSS PROCEDURE: A SINGLE CENTER STUDY WITH 1,876 CASES
Na Zhang, Beijing - China

**O. 9** MAJOR BLEEDING DURING BAR REMOVAL DOES NOT ALWAYS REQUIRE THORACOTOMY OR STERNOTOMY
Bihter Sayan, Istanbul - Turkey

**O. 10** BAR REMOVAL, STRATEGIES TO AVOID COMPLICATIONS
Ivan Schewitz, Pretoria - South Africa

**O. 11** A MASSIVE BLEEDING DURING NUSS BAR REMOVAL REQUIRING EMERGENCY STERNOTOMY, A CASE REPORT
Ted Elenbaas, Eindhoven - Netherlands

Q&A
THURSDAY, JUNE 15

SALONE BRUNELLESCHI

10:10-11:00 VIDEO SESSION

Chairs: André Hebra, Orlando - USA
       Ivan Schewitz, Pretoria - South Africa

V. 1 LESS INVASIVE OPEN SURGICAL REPAIR FOR PECTUS EXCAVATUM
    Hiroshi Iida, Nagoya - Japan

V. 2 EARLY RESULTS OF SANDWICH METHOD: COMBINATION OF NUSS AND ABRAMSON PROCEDURES
    Bihter Sayan, Istanbul - Turkey

V. 3 A NUSS MODIFICATION: INDICATIONS OF THE CROSSED BARS IN MINIMAL INVASIVE REPAIR OF PECTUS EXCAVATUM
    Bihter Sayan, Istanbul - Turkey

V. 4 MINIMALLY INVASIVE TREATMENT OF PIGEON BREAST
    Cecilia Menna, Rome - Italy

V. 5 3D VIDEO PRESENTATION OF MIRPE
    Marco Ghionzoli, Florence - Italy

V. 6 THE VIDEO-THORACOSCOPIC STABILIZATION OF THE FLAIL CHEST, ALTERNATIVE FOR THE MANAGEMENT OF THE TRAUMA PATIENT
    David Perez-Alonso, Gran Canaria - Spain

V. 7 GIANT OSTEOSARCOMA ORIGINATING FROM CHEST WALL
    Bihter Sayan, Istanbul - Turkey

SALONE BORGHINI - EXHIBITORS AREA

11:00-11:30 Coffee Break
THURSDAY, JUNE 15

SALONE BRUNELLESCHI

11:30-13:00  PAIN MANAGEMENT IN THORACIC SURGERY

Chairs: Ali Zamir Khan, Gurgaon - India
        Andrea Messeri, Florence - Italy

EPIDURAL VS INTRAVENOUS PATIENT-CONTROLLED ANALGESIA FOLLOWING NUSS PROCEDURE
George Chalkiadis, Melbourne - Australia

ACUPUNCTURE IN POSTOPERATIVE PAIN CONTROL AFTER THORACIC SURGERY
Franco Cracolici, Florence - Italy

O. 12 THE SUBPLEURAL INTERCOSTAL CATHETER (SIC) - AN ALTERNATIVE TO EPIDURAL ANESTHESIA IN PAIN MANAGEMENT OF PATIENTS UNDERGOING MIRPE?
Jan Goedeke, Mainz - Germany

O. 13 PITFALLS OF ELASTOMERIC PUMPS IN PECTUS EXCAVATUM REPAIR: A CRITICAL ANALYSIS
Nadja Apelt, Cincinnati - USA

O. 14 PAIN MANAGEMENT IN MIRPE PATIENTS, THE FLORENCE EXPERIENCE
Fabio Panetta, Florence - Italy

Q&A

SALONE DELLE COMPAGNIE - EXHIBITORS AREA

13:00-14:00  Lunch & Poster Session
THURSDAY, JUNE 15

POSTER SESSION FIRST SESSION

Chairs: Laureano Molins López-Rodó, Barcelona - Spain
Oliver Tiffet, Saint Etienne - France

P. 2 DEVELOPMENT OF A PROGRAM FOR SCHOOLS TO MANAGE THE HEALTH OF CHILDREN UNDERGOING THE NUSS PROCEDURE
Tomoko Namba, Kurashiki - Japan

P. 3 THE ROMAN ARCH: WHAT IS THE IDEAL SHAPE OF THE PECTUS BAR OR WHY THE SHORT BAR FAILS
Ivan Schewitz, Pretoria - South Africa

P. 4 A VERY RARE BENIGN NEOPLASM IN THE CHEST WALL: NONOSSIFYING FIBROMA
Serdar Evman, Istanbul - Turkey

P. 5 LEARNING CURVE IN MINIMALLY INVASIVE REPAIR OF PECTUS EXCAVATUM: A SINGLE CENTER EXPERIENCE
Serdar Evman, Istanbul - Turkey

P. 7 MINIMALLY INVASIVE REPAIR OF PECTUS DEFORMITIES: SELCUK UNIVERSITY EXPERIENCE
Murat Oncel, Konya - Turkey

P. 8 SIMULTANEOUS MINIMALLY INVASIVE SURGERY FOR PECTUS EXCAVATUM AND VIDEOTHORACOSCOPIC LOBECTOMY
Murat Oncel, Konya - Turkey

P. 9 SIMULTANEOUS BAR REMOVAL AFTER MINIMALLY INVASIVE SURGERY FOR PECTUS CARINATUM AND VIDEOTHORACOSCOPIC THORACAL SYMPATHECTOMY
Murat Oncel, Konya - Turkey

P. 10 LUNG AND MEDIASTINUM HERNIATION THROUGH SURGICAL CHEST WALL DEFECT
Huseyin Yildiran, Konya - Turkey

P. 12 CYST HYDATID LOCATED ON CHEST WALL
Murat Oncel, Konya - Turkey

P. 13 THORACIC WALL DEFECT BY GUNSHOT INJURY
Murat Oncel, Konya - Turkey
THURSDAY, JUNE 15

14:00 - 15:00  SHORT ORAL PRESENTATION  SECOND SESSION

S. O. 13  FIXATION OF THE STERNUM USING LOCKING COMPRESSION PLATES IN MODIFIED RAVITICH PROCEDURE REDUCES THE RISK OF SYMPTOMATIC PSEUDARTHROSIS
Enzo Van Loo, Heerlen - Netherlands

S. O. 14  A BENCHMARKING PROJECT ON THE QUALITY OF PREVIOUS GUIDELINES ABOUT PECTUS REPAIR
Marco Scarci, London - UK

S. O. 15  TREATMENT OF ISOLATED STERNAL FRACTURE USING THE VACUUM BELL IN AN 8-YEAR OLD BOY
Sergio Sesia, Basel - Switzerland

S. O. 16  COMPARISON AMONG DIFFERENT SURGICAL PROCEDURES FOR TREATING ASYMMETRIC PECTUS CARINATUM WITH PRE- AND POST OPERATIVE CT IMAGES
Masahiko Noguchi, Tokyo - Japan

S. O. 17  CHESTWALL REMODELING AFTER CHESTWALL DEFECT DUE TO TUMOR RESECTION
Caroline Fortmann, Hannover - Germany

S. O. 18  INITIAL EXPERIENCE WITH THE ABRAMSON PROCEDURE, A NEW TECHNIQUE FOR TREATMENT OF PECTUS CARINATUM
Ine Rochus, Leuven-Limburg - Belgium

S. O. 19  PARALYSIS OF THE RECTUS ABDOMINIS MUSCLE AFTER VATS
Sung Kwang Lee, Yangsan - Republic of Korea

S. O. 20  EFFECTS OF NUSS PROCEDURE ON RESPIRATORY MUSCLE STRENGTH
Murat Oncel, Konya - Turkey

S. O. 21  MINIMAL INVASIVE SURGERY FOR THE CORRECTION OF PECTUS EXCAVATUM IN PATIENTS WITH MARFAN SYNDROME: THE MEXICAN EXPERIENCE
Carlos Garcia-Hernandez, Salamanca - Spain

S. O. 22  COMPARISON BETWEEN ANTHROPOMETRIC MEASUREMENTS AND PECTUS INDEX IN CHEST WALL DEFORMITIES
Huseyin Yildiran, Konya - Turkey
THURSDAY, JUNE 15

SALONE BRUNELLESCHI

S. O. 24 RIGHT VENTRICULAR CARDIAC COMPRESSION IN PATIENTS WITH PECTUS EXCAVATUM(PE): CAN CARDIAC MAGNETIC RESONANCE(CMRI) BE REPLACED BY COMPUTED TOMOGRAPHY(CT)?
Maximiliano Nazar Peirano, Buenos Aires - Argentina

S. O. 25 MONITORING THE EFFECTIVENESS OF THE VACUUM BELL DURING PECTUS EXCAVATUM TREATMENT: TECHNICAL INNOVATION
Sergio Sesia, Basel - Switzerland

15:00-16:30 BURNING QUESTIONS IN DIFFICULT PROCEDURES

Chairs: Piergiorgio Gamba, Padua - Italy
Vladimir Kuzmichev, Moscow - Russian Federation

NUSS PROCEDURE FOR REPAIR OF PECTUS EXCAVATUM AFTER FAILED RAVICH PROCEDURE IN ADULTS
Dawn Jaroszewski, Phoenix - USA

DEALING WITH MAJOR COMPLICATIONS DURING NUSS PROCEDURE
Hans Pilegaard, Aarhus - Denmark

OUTCOME ANALYSIS OF MIRPE
Andrè Hebra, Orlando - USA

THE TREATMENT OF PECTUS ARCUATUM
Vladimir Kuzmichev, Moscow - Russian Federation

O. 15 NUSS AFTER RAVITCH: IS IT FEASIBLE?
Bihter Sayan, Istanbul - Turkey

O. 16 RE-REPAIR OF COMPLEX PECTUS DEFORMITY AFTER FAILED OPEN RESECTIONAL SURGERY: “PECTUS BAR PLUS PECTOPLASTY”
Kyung Soo Kim, Seoul - Republic of Korea

Q&A

SALONE BORGHINI - EXHIBITORS AREA

16:30-17:00 Coffee break
THURSDAY, JUNE 15

SALONE BRUNELLESCHI

17:00-17:30 SPECIAL ISSUES SECOND SESSION

Chairs:
Jean-Marie Wihlm, Strasbourg - France
Mustafa Yüksel, Istanbul - Turkey

TOTAL REMODELING OF THE CHEST WALL FOR PECTUS DEFORMITIES: EXCAVATUM/CARINATUM/MIXED
Hyung Joo Park, Seoul - Republic of Korea

THE NEW CWIG WEBSITE
Claus Petersen, Hannover - Germany

Q&A

17:30-19:00 GENERAL CWIG ASSEMBLY

PALAZZO BORGHESE

20:30-24:00 GALA DINNER
via Ghibellina 110 - Firenze

Attendees are kindly requested to collect the dinner voucher at the registration desk.
FRIDAY, JUNE 16

**SALONE BRUNELLESCHI**

8:00 - 9:20

**SURGICAL TREATMENT OF CHEST WALL TUMORS: HOW TO CLOSE THE GAP?**

*Chairs:* Ali Zamir Khan, Gurgaon - India
Luca Voltolini, Florence - Italy

CHEST WALL RECONSTRUCTIONS FOLLOWING ONCOLOGICAL RESECTIONS
Olaf Mercier, Paris - France

PEDICLE AND FREE FLAPS IN CHEST WALL RECONSTRUCTION
Frederick Kolb, Paris - France

O.17 THE EXPERIENCE OF SURGICAL TREATMENT OF CHEST WALL MASS IN CHILDREN: A SINGLE CENTER 281 CASES REPORT
Chen Chenghao, Beijing - China

O.18 OUTCOMES OF STERNECTOMY FOR PRIMARY OR SECONDARY STERNAL TUMOURS
Stefano Bongiolatti, Florence - Italy

O.20 STERNAL RESECTION AND COMBINED PROSTHETIC RECONSTRUCTION: MIDDLE-TERM RESULTS
Camilla Poggi, Rome - Italy

Q&A
FRIDAY, JUNE 16

SALONE BRUNELLESCHI

9:20 - 11:00

CHEST WALL TRAUMA

Chairs:
Duncan Phillips, Raleigh - USA
Luigi Santambrogio, Milan - Italy

O.21 STERNUM FRACTURES: SURGICAL OPTIONS AND APPROACHES
Daniel Macedo Cabral, Lisbon - Portugal

O.22 REPAIR OF RIB FRACTURES: INDICATIONS, TIPS AND TRICKS
Marco Scarci, London - UK

O.23 ADDITION OF VIDEO-ASSISTED THORACOSCOPIC SURGERY TO THE TREATMENT OF FLAIL CHEST AFTER HIGH-ENERGY TRAUMA
Enzo Van Loo, Heerlen - Netherlands

O.24 STERNAL RECONSTRUCTION FOLLOWING CARDIAC SURGERY USING THE STRATOS SYSTEM, ‘IN SITU’ BONE GRAFTING AND OMENTOPLASTY: A SINGLE CENTRE EXPERIENCE
Ian Cummings, London - UK

O.25 RIB FIXATION BY SINGLE MUSCLE-SPARING THORACOTOMY IN TRAUMATIC FLAIL CHEST
Joonsuk Park, Sungnam - Republic of Korea

O.26 BIOMECHANICAL COMPARISON OF MONOCORTICAL VERSUS BICORTICAL RIB FIXATION IN A CADAVERIC MODEL
Abby Choke, Singapore

O.27 INDICATIONS AND TREATMENT CONCEPT FOR THE STABILIZATION OF THE CHEST WALL FOLLOWING TRAUMA
Hans-Joerg Fischer, Nordhausen - Germany

Q&A

SALONE BORGHINI - EXHIBITORS AREA

11:00 - 11:30

Coffee Break
FRIDAY, JUNE 16

SALONE BRUNELLESCHI

11:30-13:00

PECTUS CARINATUM TREATMENT

Chairs: Horacio Abramson, Buenos Aires - Argentina
Hans Pilegaard, Aarhus - Denmark

MINIINVASIVE TREATMENT OF PC
Qi Zeng, Beijing - China

OUR TECHNIQUE IN SURGICAL MANAGEMENT OF PC:
Tips and Trick
Mustafa Yüksel, Istanbul - Turkey

SANDWICH TECHNIQUE
Hyung Joo Park, Seoul - Republic of Korea

OUR EXPERIENCE WITH DYNAMIC COMPRESSION
Manuel Lopez, Barcelona - Spain; Oliver Tiffet, Saint Etienne - France

O. 28
ANALYSIS OF THE ORTHOTIC MANAGEMENT OF PECTUS CARINATUM WITH DYNAMIC BRACING AT THE ROYAL HOSPITAL FOR CHILDREN, GLASGOW, SCOTLAND
Donna McHugh, Glasgow - UK

O. 29
THE DYNAMIC COMPRESSION BRACE FOR PECTUS CARINATUM: INTERMEDIATE RESULTS IN 286 PATIENTS
Martin Gritter, Amsterdam - Netherlands

Q&A

SALONE DELLE COMPAGNIE - EXHIBITORS AREA

13:00-14:00

Lunch & Poster Session
FRIDAY, JUNE 16

POSTER SESSION  SECOND SESSION

Chairs: Angelo Morelli, Udine - Italy
              Roberto Lo Piccolo, Florence - Italy

P. 1  POLAND’S SYNDROME: ANALYSIS OF OUR CASES
      Fadil Gradica, Tirana - Albania

P. 6  CHEST WALL ERNIA DUE TO GIANT THORACOABDOMINAL HYDATID CYST
      Alessio Giusti, Prato - Italy

P. 11 HOW DOES THE PECTUS BAR AFFECT THORACIC CAGE DYNAMICS DURING RESPIRATORY MOVEMENTS
      Hyung Joo Park, Seoul - Republic of Korea

P. 14 HYBRID APPROACH FOR TREATMENT OF PECTUS EXCAVATUM AND CARINATUM: THE MINI-INVASIVE HALF MOON INCISION FOR THE RAVITCH TECHNIQUE
      Claudio Andreetti, Rome - Italy

P. 15 PRELIMINARY RESULTS OF BRACE FOR PECTUS CARINATUM: BASED ON 3D SCANNING OF CHEST WALL
      Hyo Yeong Ahn, Busan - Republic of Korea

P. 16 CROSS BAR TECHNIQUE FOR PECTUS EXCAVATUM
      Lee Sungssoo, Seoul - Republic of Korea

P. 17 CHEST WALL RECONSTRUCTION WITH PECTUS BARS AND PTFE AFTER TUMOR RESECTION
      David Perez-Alonso, Gran Canaria - Spain

P. 18 SURGICAL TREATMENT IN SOLITARY PLASMACYTOMA: PALLIATIVE OR CURATIVE?
      Serdar Evman, Istanbul - Turkey

P. 19 CHEST WALL NECROSIS DUE TO INTRATUMORAL HEMORRHAGE IN NEUROFIBROMATOSIS TYPE 2
      Yeon Soo Kim, Goyang - Republic of Korea

P. 20 BLOOD METAL LEVELS IN PECTUS EXCAVATUM PATIENTS AT BAR REMOVAL
      Michele Torre, Genoa - Italy

P. 21 EDUCATIONAL INTERVENTION AND PHYSIOTHERAPIST ROLE IN MANAGEMENT OF ADOLESCENTS UNDERGOING SURGERY FOR PECTUS EXCAVATUM: A RETROSPECTIVE 6-MONTHS EXPERIENCE OF MEYER CHILDREN HOSPITAL
      Chiara Castellani, Florence - Italy
FRIDAY, JUNE 16

SALONE BRUNELLESCHI

14:00 - 15:00 SPECIAL ISSUES THIRD SESSION

Chairs:
- Marcelo Martinez Ferro, Buenos Aires - Argentina
- Claus Petersen, Hannover - Germany
- Mustafa Yüksel, Istanbul - Turkey

CONTEMPORARY SURGERY OF PE

HOW TO DEAL WITH ASYMMETRY
- Horacio Abramson, Buenos Aires - Argentina

THE USE OF PECTUS PRESS AND PECTUS WHISTLE
- José Ribas Milanez de Campos, Sao Paolo - Brasil

O. 30 GLOBAL TREATMENT FOR THORACIC ANOMALIES IN POLAND SYNDROME
- Maria Victoria Romanini, Genoa - Italy

Q&A
**SHORT ORAL PRESENTATION**  **THIRD SESSION**

**15:00-16:00**

**Chairs:**
Alessandro *Gonfiotti*, Florence - Italy
Gloria *Pelizzo*, Palermo - Italy

**S. O. 35**
SURGICAL MANAGEMENT OF THORACIC OUTLET SYNDROME VIA TRANSAXILLARY APPROACH: 20 YEARS OF SINGLE CENTER EXPERIENCE
Cengiz *Gebitekin*, Bursa - Turkey

**S. O. 23**
INFRACHONDULAR CARTILAGE IN A PATIENT WITH HISTORY OF SLIPPING RIB SYNDROME: WHEN THE HOOK MANEUVER DOESN’T WORK
Lisa *McMahon*, Phoenix - USA

**S. O. 26**
SURGICAL CORRECTION OF PECTUS ARCUATUM IN A WOMAN, A CASE REPORT
Ted *Elenbaas*, Eindhoven - Netherlands

**S. O. 27**
SPONTANEOUS TITANIUM PLATE FRACTURE
Carolina *Torres*, Lisboa - Portugal

**S. O. 28**
OPEN PECTUS REPAIR UTILIZING ABSORBABLE STERNAL BARS
Daniel L. *Miller*, Atlanta - USA

**S. O. 29**
HEPATIC VEIN DOPPLER IN ADULT PECTUS EXCAVATUM PATIENTS: NORMALIZATION OF FLOW AFTER SURGICAL REPAIR
Ryan *Van Woerkom*, Phoenix - USA

**S. O. 30**
CHEST WALL DEFORMITY AFTER CHEST WALL MALIGNANT TUMOR MULTIMODAL TREATMENT
Federica *De Corti*, Padua - Italy

**S. O. 32**
OUR CURRENT TREATMENT METHOD IN PECTUS ARCUATUM SURGERY: LESSONS LEARNED
Bihter *Sayan*, Istanbul - Turkey

**S. O. 33**
TRANSSESOPHAGEAL ECHOCARDIOGRAPHY DURING SURGICAL CORRECTION OF PEDIATRIC PECTUS EXCAVATUM: PRELIMINARY ASSESSMENT OF INTRAOPERATIVE CARDIOLOGIC CHANGES
Ana *Laín Fernández*, Barcelona - Spain

**S. O. 34**
EARLY OUTCOME OF SURGERY FOR THORACIC OUTLET SYNDROME
Sungsoo *Lee*, Seoul - Republic of Korea
FRIDAY, JUNE 16

SALONE BRUNELLESCHI

S. O. 36

DOES INTRODUCTION OF THE ABRAMSON PROCEDURE IMPROVES QUALITY OF LIFE? ANALYSIS OF INITIAL EXPERIENCE IN A EUROPEAN TERTIARY REFERRAL CENTRE

Ine Rochus, Leuven-Limburg - Belgium

16:00-16:30 FINAL ISSUES

Chairs:
Antonio Messineo, Florence - Italy
José Ribas Milanez de Campos, Sao Paolo - Brasil

VACUUM BELL THERAPY: WHO ARE SUITABLE CANDIDATES?

Frank-Martin Haecker, Basel - Switzerland

CARDIOPULMUNARY DATA IN Pts WITH SEVERE PECTUS

Dawn Jaroszewski, Phoenix - USA

Q&A

16:30-17:00 CWIG PRESENT & FUTURE

Chairs:
Donald Nuss, Norfolk - USA

PRESENT

Hyung Joo Park, Seoul - Republic of Korea

FUTURE

Frank-Martin Haecker, Basel - Switzerland

17:00

Closing Remarks, Prize Presentation and “See you in Seoul”
GENERAL INFORMATION

CONGRESS VENUE
Istituto degli Innocenti
Piazza della Santissima Annunziata, 12 - Firenze
www.istitutodegliinnocenti.it

PUBLICATION OF ABSTRACTS
All accepted abstracts for oral, short oral and poster presentations will be published on the CWIG 18th Annual meeting website. Abstracts for which no author has registered for the conference will not be included in the program nor in the abstract book.

ORAL & SHORT ORAL PRESENTATIONS
Oral presentation time is 10 minutes.
Short presentation time is 5 minutes, discussion included
All submitted and accepted oral presentations have been subjected to peer review and can be found in the program.

POSTERS
The poster area will be set in the corridor in the Exhibitor and Catering area.
All submitted and accepted poster abstracts have been subjected to peer review and can be found in the program.
Poster dimensions should not exceed 70 cm width x 100 cm height; they will be displayed in panels from June 14th to June 16th. Presenting Authors are kindly asked to attend their posters during the Poster Session in the Poster Area; time for the presentation is 2 minutes. Posters will be identified by numbers on the boards.

SLIDE CENTER
Presentations must be delivered to the STAFF in Brunelleschi room at least one hour before the session starts; speakers are kindly requested to upload the presentation with a USB device.
Slide Center opening hours will follow the Organizing Secretariat opening hours.
GENERAL INFORMATION

ACCREDITATION STATEMENT AND CREDIT DESIGNATION

Italian CME
CWIG 18th Annual meeting is accredited for Italian ECM process (from 14/06/2017 to 16/06/2017) by the Italian Provider PLS Educational.
The Congress will grant 6 Italian CME credits to those attending the whole meeting.
CME certificates will be available only after the Congress, completing the online evaluation form and credit claiming procedure.

DISCLOSURE AND RESOLUTION OF PERSONAL CONFLICTS OF INTEREST

In accordance with CME accreditation criteria and standards for commercial support to ensure balance, independence, objectivity and scientific rigor, those in control of the educational content must disclose potential or actual conflicts of interest. Disclosure information is evaluated and conflicts of interest resolved. Disclosure is made to participants prior to the activity. Participants will be asked on the evaluation to assess the objectivity and independence of the event.

SECRETARIAT ON-SITE OPENING HOURS

June 14th  12:30 - 19:00
June 15th  7:30 - 19:00
June 16st  7:30 - 17:00

REGISTRATIONS
Registration fee on-site

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<table>
<thead>
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<tbody>
<tr>
<td>Congress registration fee for CWIG Members</td>
<td>€ 600</td>
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<tr>
<td>Congress registration fee for NO CWIG Members</td>
<td>€ 670</td>
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<tr>
<td>Student/Trainee/Nurse</td>
<td>€ 50</td>
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<tr>
<td>Congress accompanying person fee</td>
<td>€ 100</td>
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On-site payment can be made in cash (EUR) or credit card (only VISA and Mastercard).
GENERAL INFORMATION

REGISTRATION FEE INCLUDES:

Individual delegate registration
• full access to the scientific sessions and exhibition
• welcome cocktail
• gala dinner*
• congress bag with the final program
• refreshment breaks
• name badge
• congress card

*Please note that limited seats are available for Gala dinner; for on site registration, it will be confirmed upon availability.

Student/Trainee/Nurse registration fee includes:
• full access to the scientific sessions and exhibition
• welcome cocktail
• congress bag with the final program
• Refreshment breaks
• Name badge
• Congress card

Please note that Gala dinner is not included in this registration fee

Accompanying person registration fee includes:
• Welcome cocktail
• Gala dinner
• Name badge
• Congress card

CONGRESS CARD

Please download your CONGRESS CARD at www.conventionbureau.it and digit the CWIG code: 17MF079.

It provides special offers and discounted fees at museums, historical sites, shops, restaurants, wellness centers, golf clubs, bike rental stands, car rental agencies, sightseeing tours, taxis, and airport transfer with private driver.
GENERAL INFORMATION

OFFICIAL LANGUAGE
The official language of the Congress is English. No simultaneous translation will be available.

LIABILITY AND INSURANCE
The Organizing Secretariat and Organisers cannot accept liability for personal accidents or loss or damage of property belonging to the congress delegates, either during or as a result of the congress or during any of the social events. It is recommended that participants arrange their own personal health, accident and travel insurance.

USEFUL TELEPHONE NUMBERS
Taxi Service: 0039 055 4390 - 0039 055 4242
Medical Emergency: 118
Other Emergencies: 112

CERTIFICATE OF ATTENDANCE
The certificate of attendance will be sent by mail to all participants within 2 working days after the end of the congress.

ORGANIZING SECRETARIAT

PLS Educational
Via della Mattonaia, 17
Firenze (Italy)
Phone: +39 055 24621
cwig2017@promoleader.com
www.cwig2017.com
LOCAL ORGANIZING COMMITTEE
NOTE
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[www.CWIG2017.com](http://www.CWIG2017.com)