

CWIG2025 Program

As of August 26, 2025

September 17, 2025, Wednesday

- 8:40 – 09:00** **Opening ceremony**
- 9:00 – 09:35** **Lecture-style Session 1 (LS1) – PE (35mins)**
Moderators : Lopez Manuel, Marcelo Matinez Ferro
15 mins – Physiologic Effect of Pectus Excavatum - Becky Brown
15 mins – MIRPE: Effects on Cardiopulmonary Physiology and Quality of Life – Robert Obermeyer
5 min Q and A
- 9:40–10:20** **Panel Discussion (PD) — PE World View (40mins)**
Moderator: Sadashige Uemura, Jose Ribas
10 mins Japanese Perspective –Sadashige Uemura
10 mins Turkish Perspective – Mustafa Yuksel
3 abstracts: 5 minute talk (15 mins)
5 min Q and A * No Q&A session follow each presentation
- PD-1 CW250061 5 min talk
Prevalence of Pectus deformities in School going children of Delhi and National Capital Region: A Cross Sectional, Observational Study
Mohit Kumar Joshi, Department of Surgical Disciplines, All India Institute of Medical Sciences, New Delhi ,India
- PD-2 CW250104 5 min talk
Decentralized Minimally Invasive Pectus Repair in Germany
Caroline Fortmann, Hannover Medical School , Germany
- PD-3 CW250108 5 min talk
Minimally invasive treatment of pectus excavatum : 25 years of experience in Beijing, China
Chenghao Chen, Department of Thoracic Surgery, Beijing Children's Hospital ,China

Coffee Break

- 10:45–11:35** **Lecture-style Session 2 (PL2) — Recurrence and Redo (50mins)**
Moderators : Hisako Kuyama, Jean Marie Wihlm

15 min Redo after Nuss or Ravitch – Dawn Jaroszewski
15 min Management for Infection or Allergy – Hans Van Veer
15 min Surgical complications of Nuss – Eric de Loos
5 min Q and A

11:35 – 12:10

Lunch Time

12:10–12:35 Top 10 ranking Poster session 1 (TR-poster 1)

2-mins talk, 2 mins discussion

Moderators: Satoshi Ieir

- P-1 CW250010 2-mins talk
Stabilizer Fixation versus Pericostal Suture Fixation in the Nuss Procedure
Juma Obayashi, Department of Pediatric Surgery, St. Marianna University School of Medicine, Kawasaki, Japan
- P-2 CW250017 2-mins talk
Impact of the Nuss Procedure on Spinal Curvature Across Four Time Points"
Jin Yong Jeong, College of Medicine, The Catholic University of Korea
- P-3 CW250046 2-mins talk
Cryoablation Versus Epidural Analgesia: Evaluating Clinical Benefits After the Nuss-Bar Procedure
Bram Pothof, Thoraxcentrum Twente, Medisch Spectrum Twente
- P-4 CW250068 2-mins talk
A study on clinical characteristics and risk factors for the development of Surgical Site Infection after the Nuss procedure
Ikumi Kimura, Department of Thoracic Surgery, Keio University School of Medicine, Tokyo, Japan
- P-5 CW250132 2-mins talk
Thoracoscopic Repair of Harrison's Groove Using a Metal Implant
Sunghoon Kim, University of California San Francisco

12:35 — 13:25 Abstract Session1(AS1) — Evaluation (50mins)

3-minute talk, 2-minute Q&A

5-minute talk, 3-minute Q&A

Moderators – Shyam Kolvekar, Gerda Zijp

- AS1-1 CW250097 3 min talk
Analysis of Costosternal Angle Changes in Patients who Underwent Minimally Invasive Repair of Pectus Excavatum
Tunc Lacin, Marmara University, Faculty of Medicine, Department of Thoracic Surgery, Türkiye
- AS1-2 CW250036 5 min talk
Anterior-Posterior Insufficiency of the Chest Wall in Patients with Pectus Excavatum
David M Notrica, Phoenix Children's Hospital, USA
- AS1-3 CW250062 5 min talk
HIGHER THAN EXPECTED PREVALENCE OF PECTUS DEFORMITIES IN NEWBORNS: A PROSPECTIVE OBSERVATIONAL STUDY
Elif Betul Keskin Cetinkaya, Department of Pediatrics, Sancaktepe Ilhan Varank Training and Research Hospital, Türkiye
- AS1-4 CW250063 5 min talk
Mechanisms of Posture-related Cardiovascular Compression in Pectus Excavatum Evaluated by Upright and Supine MDCT-Comparison with Healthy Subjects-
Takahiro Suzuki, Division of Thoracic Surgery, Department of Surgery, Keio University School of Medicine, Tokyo, Japan
- AS1-5 CW250136 5 min talk
Echocardiographic Evaluation of Patients with Pectus Excavatum: A Retrospective Cohort Analysis
Cecilia Villa Etchegoyen, Department of Cardiovascular and Thoracic Surgery, Mayo Clinic, Phoenix, Arizona, USA
- AS1-6 CW250115 5 min talk
Why Some Chests Resist Elevation: The Roles of Age, BMI, and Titanic Index
Juan Facundo Giacosa, Clinica Mi Pectus, Argentina
- 13:30 – 14:05 Abstract Session2(AS2) – PEX Function (35 mins)**
3-minute talk, 2-minute Q&A
5-minute talk, 3-minute Q&A
Moderators – Carolyn Russel, Michele Torre
- AS2-1 CW250057 3 min talk
Measurement of the three-dimensional cardiopulmonary volumetric ratio before and after sternocostal elevation

Ryuta Fukai, Shonan Kamakura General Hospital, Department of General Thoracic Surgery, Japan

AS2-2 CW250051 5 min talk
Measuring The Impact of Pectus Excavatum in Cardiopulmonary Function Using O2 Pulse as a Marker
Rebecca Brown, Raphael H Parrado, University of Florida College of Medicine, USA

AS2-3 CW250093 5 min talk
Assessment of Right Ventricular Function in Children with Pectus Excavatum Using Real-Time Three-Dimensional and Speckle - Tracking Echocardiography
Jinghua Jiao, Department of Thoracic Surgery, Beijing Children's Hospital, China

AS2-4 CW250113 3 min talk
Cardiopulmonary characteristics of pectus excavatum patients with lower versus higher exercise performance
Mustafa Kabeer, CHOC, USA

AS2-5 CW250083 3 min talk
The Nuss Procedure Improves Ventilatory Efficiency: A Retrospective Evaluation of a Japanese Cohort Using Cardiopulmonary Exercise Testing
Tatsuo Nakaoka, Department of Pediatric Surgery, Osaka Metropolitan University Graduate School of Medicine, Japan

14:10–14:35 Abstract Session3 (AS3) – Tumor and Trauma-(25mins)

3-minute talk, 2-minute Q&A

Moderators – PJ Van Huijstee, Maira Kalil Fernandes

AS3-1 CW250013 3 min talk
Minimally invasive approach for rib fractures: a multi center 10 year experience, Feasibility and Safety
Miguel Martinez, ABC MEDICAL CENTRE, Mexico

AS3-2 CW250130 3 min talk
Timing of Surgical Rib Fixation and Its Impact on Clinical Outcomes: A Retrospective Analysis

Cenk BALTA, Antalya City Hospital, Department of Thoracic Surgery, Antalya, Turkey.

AS3-3 CW250053 3 min talk
Modified sternal wiring technique for closing clamshell incision in lung transplantation patients in Costa Rica.
Albert Bolanos Cubillo, Hospital Dr Rafael Angel Calderon Guardia , Costa Rica

AS3-4 CW250141 3 min talk
Chest Wall Reconstructions in extended resections Long term follow-up
Olavo R Rodrigues, Universidade de Mogi das Cruzes, Brasil

AS3-5 CW250096 3 min talk
Myopericytoma of the Sternum A Rare Pediatric Case Report and Literature Review
Jinghua Jiao, Department of Thoracic Surgery, Beijing Children's Hospital, China

14:35–15:10 Lecture-style Session 3(LS3) – PC and Vacuum Bell (35 mins)
Moderators – Frank-Martin Haeker, Kazunori Ohama
10 mins – Double Plate Technique – Sungsoo Lee
10 mins – Treatment of Pectus Carinatum in Adolescents – Sjoerd de Beer
10 mins – Vacuum Bell technique – Luzia Toselli
5 mins Q and A

15:30 –16:00 Abstract Session4 (AS4)– QOL and Screening (30 mins)
3-minute talk, 2-minute Q&A
5-minute talk, 3-minute Q&A
Moderators – David Notrica, Satoshi Takagi

AS4-1 CW250031 3 min talk
Time Heals: The Impact of Waiting Times on Pediatric Patients' Decisions to Decline Pectus Surgery
Hendrik van Braak, Department of Pediatric Surgery, Emma Kinderziekenhuis, Amsterdam University Medical Center, Meibergdreef 9, 1105AZ Amsterdam, The Netherlands

AS4-2 CW250091 3 min talk

Compression of ChatGPT-4o and Gemini 1.5 answers to questions about pectus treatment from the patient perspective
Esra Yamansavci Sirzai, Health Sciences University Dr.Suat Seren Chest Diseases and Chest Surgery Training and Research, Turkey

- AS4-3 CW250081 5 min talk
Psychosocial Determinants of Health-Related Quality of Life in Children with Chest Wall Deformities: A Mediation Analysis
Yujia Wu, Department of Thoracic Surgery, National Center for Children's Health, Beijing Children's Hospital, Capital Medical University, China
- AS4-4 CW250124 5 min talk
Establishing a Regional Screening Program for Pectus Deformities in Primary School Students: Preliminary Results
Nezih Onur Ermerak, Marmara University Department of Thoracic Surgery, Turkey

16:00–16:35 Japanese Session (JP) (35 mins)
7 speakers, 3 min talk, 2 min Q and A
Moderators – Masahiko Noguchi, Donald Nuss

- JP-1 CW250082 3 min talk
Investigation of Thoracic Deformities Associated with Bifid Ribs in Pediatric Patients.
Yoshie Sasaki, Gunma Childrens Medical Center
- JP-2 CW250138 3 min talk
Analysis of clinical characteristics regarding Nuss procedure after congenital heart surgery with median sternotomy.
Kyosuke Tatsuta, Department of Pediatric Surgery, Japan Community Healthcare Organization Kyusyu Hospital.
- JP-3 CW250078 3 min talk
Nuss procedure with retrosternal incision.
Akihiro Shimotakahara, Tokyo Metropolitan Childrens Medical Center
- JP-4 CW250055 3 min talk
Correction of Asymmetric Pectus Excavatum by the Nuss Procedure: Strong Initial Overcorrection May Be Required for Symmetry.
Takashi Kochi, Plastic and Reconstructive Surgery, Sendai City

Hospital

- JP-5 CW250039 3 min talk
A case of Marfan syndrome after liver transplantation in which infection control is difficult after the Nuss procedure.
Atsuhisa Fukuta, Department of Pediatric Surgery, Faculty of Medical Sciences, Kyushu University
- JP-6 CW250072 3 min talk
A Case of Pectus Carinatum Treated with a Combination of the Modified Nuss Procedure and Sterno-Costal Elevation.
Takeaki Kajiwara, Department of Plastic and Reconstructive Surgery, Karatsu Red Cross Hospital
- JP-7 CW250077 3 min talk
Reconstruction of Chest Wall and Breast Deformities in Poland Sequence Using Latissimus Dorsi Flap and Free fat injection.
Shotaro Suzuki, Department of Plastic, Reconstructive and Aesthetic Surgery, Fukuoka University Hospital.
- JP-8 CW250037 3 min talk
Vacuum Bell Therapy for Pectus Excavatum -How to Maintain Motivation-
Kazunori Ohama, Kanazawa Medical University, Department of Pediatric Surgery
- 16:40 –17:10 Abstract Session5 (AS 5) – Bar size selection-(30mins)**
3-minute talk, 2-minute Q&A
5-minute talk, 3-minute Q&A
Moderators – Caroline Fortmann, Cheng hao Chen
- AS5-1 CW250119 3 min talk
Discrepancies in Bar Quantity Selection for the Nuss Procedure: A Single-Center Retrospective Analysis and Development of a Preoperative Assessment Model
YiTsun Chen, Department of Thoracic Surgery, Beijing Children's Hospital, China
- AS5-2 CW250116 5 min talk
Establishing a clinical guideline for pectus bar sizing based on age and body habitus stratified data
Rajkamal Vishnu, Cleveland Clinic Pectus and Chest Wall Institute, Cleveland Clinic Children's Hospital, Cleveland, OH, USA

AS5-3 CW250088 5 min talk
Application of Deep Neural Networks to Predict Surgical Outcomes
and Optimize Nuss Bar Selection in Pectus Excavatum: Preliminary
Study
Younggi Jung, Department of Thoracic and Cardiovascular
Surgery, Korea University Anam Hospital, Korea University College
of Medicine, Seoul, Republic of Korea, Korea

Move to Zenkoji by bus, welcome reception

18:00 Welcome Party

September 18,2025, Thursday

08:30 – 9:10

Thematic Session1 endorsed by Surgical Spine Scoliosis (Pannel Discussion) (with 2 abstracts)

*This session is made possible generous support from Surgical Spine, without honorarium or promotional involvement.

Moderators – Kyohei Masai, Slawmir Zacha

15 mins June Takahashi – Treatment of Scoliosis

2 abstracts

10 min discussion

TS1-1

CW250092 8 min talk

Surgical Approaches to Effectively Treating Pectus Excavatum Associated with Scoliosis.

Tunc Lacin, Marmara University, Faculty of Medicine, Department of Thoracic Surgery, Turkey

TS1-2

CW250122 8 min talk

Impact of Nuss surgery on scoliosis: What Should Be Considered?

Ana Lain Fernandez, Hospital Universitari Vall de Hebron, Spain

9:15 – 9:40

Abstract Session6(AS6) -Pectus Carinatum-(25 mins)

3-minute talk, 2-minute Q&A

5-minute talk, 3-minute Q&A

Moderators – Horacio Abramson

AS6-1

CW250049 3 min talk

Pectus Carinatum Bracing: Key Factors in Success and Dropout

Mustafa Yuksel, Demiroglu Bilim University, Department of Thoracic Surgery, Turkey

AS6-2

CW250114 3 min talk

Repair of Mixed Type Pectus Deformity Using The Sandwich Technique

Aleyna Gultekin Aridas, Marmara University, Faculty of Medicine, Department of Thoracic Surgery, Turkey

AS6-3

CW250069 5 min talk

The fully thoracoscopic repair of Pectus Carinatum. Operative technique and 15 year review of surgical outcomes

David Perez-Alonso, Department of Thoracic Surgery. Hospital Universitario Insular de Gran Canaria. Spain

AS6-4 CW250089 5 min talk
Minimally Invasive Surgery for Pectus Carinatum Correction: A Retrospective Single-Center Study
JIE YU, Beijing Children's Hospital, China

**9:45 – 10:35 Thematic Session2(TS2) endorsed by Solve
Debate-optimal timing for sugery-(50 mins), 10 mins panel discussion**

*This session is made possible generous support from Solve, without honorarium or promotional involvement.

Moderators – Manuel Lopez, Masahiko Noguchi

Early intervention (<10 yo)

10 min Pro: Hyung Joo Park

10 min Pro: Lisa McMahon

10 min Con: Robert Obermeyer

10 min Con: Tunc Lacin

Coffee Break

10:55—11:40 Top 5 ranking abstracts-(45 mins)

5-minute talk, 3-minute Q&A

Moderators – Luzia Toselli, Lisa McMahon

TR-oral -1 CW250012 5 min talk
INTERNATIONAL SURVEY ON THE MANAGEMENT OF PECTUS EXCAVATUM: IS THERE A CONSENSUS?
Ufuk Ates, Ankara University, Faculty of Medicine, Department of Pediatric Surgery, Turkey

TR-oral -2 CW250018 5 min talk
Impact of Age on Surgical Results for Symmetric Pectus Excavatum Patients: A Propensity Score Matched Comparative Study
Seung Keun Yoon, Department of Thoracic and Cardiovascular Surgery, Seoul St. Marys Hospital, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea, Korea

TR-oral -3 CW250070 5 min talk

Exercise-induced ectopy and its relationship to cardiopulmonary fitness, cardiac function, and radiographic markers of severity in patients with pectus excavatum
Rebecca L Brown, Cincinnati Children's Hospital Medical Center, USA

TR-oral -4 CW250075 5 min talk
Exercise-Induced Right Ventricular Compression in Pectus Excavatum: Insights from an Exercise Cardiac CMR study
Najdat Tracy, Department of Thoracic Surgery, University Hospitals Leuven, Belgium, Belgium

TR-oral -5 CW250102 5 min talk
Pectus Implant Stainless-Steel Abrasion in the Pleural Cavity Induces Systemic Metal Contamination in Mice
Caroline Fortmann, Hannover Medical School, Germany

11:40 Commemorative Photo Time

12:05 – 12:50 PP/HBM luncheon

12:30—12:50 Top 10 ranking Poster session2 (20 mins)
_2-mins presentations, 2 mins discussion
Moderator –Takashi Kochi

P-6 CW250038 2 min talk
OUTCOMES OF PROLONGED RETAINING PECTUS BARS AND PATIENTS' PERSPECTIVES BEHIND
Mustafa Yuksel, Demiroglu Bilim University, Department of Thoracic Surgery

P-7 CW250065 2 min talk
Bridging the Gap in Pectus Excavatum Care: A QI Project on Pre- and Postoperative Physical Therapy Integration
Rebecca L Brown, Cincinnati Childrens Hospital Medical Center

P-8 CW250074 2 min talk
The impact of surgery for pectus excavatum on pulmonary function
Kyohei Masai, Department of Surgery ,Division of Thoracic Surgery, Keio University School of Medicine, Tokyo, Japan

P-9 CW250085 2 min talk
Is Multiple-Bar Repair Safe in Pediatric Pectus Excavatum?
A Comparative Study with the Adult Population
Gongmin Rim, CHA Bundang Medical Center, CHA University,
Seongnam, South Korea

P-10 CW250103 2 min talk
Severe Pectus Excavatum and cardiac surgery: Sequential repair
to ensure safety
Ana Lain Fernandez, Hospital Universitari Vall de Hebron

12:55 – 13:30 Abstract Session7(AS7)- Pectus Technique-(35 mins)
3-minute talk, 2-minute Q&A
Moderators – Sjoerd de Beer, Nezih Onur Ermerak

AS7-1 CW250019 3 min talk
Surgical Considerations for Platythorax and Pectus Excavatum with
Anterior-Posterior Insufficiency
David M Notrica, Phoenix Children's Hospital, USA

AS7-2 CW250086 3 min talk
The Flarebuster: A Critical Adjunct for Inferior Chest Wall
Remodeling in Pectus Excavatum Repair
Gongmin Rim, CHA Bundang Medical Center, CHA University,
Seongnam, South Korea, Korea

AS7-3 CW250105 3 min talk
Modified Nuss Procedure: Auxillary Subxiphoid Incision
Haktan Uygur ONEN, Marmara University , Turkey

AS7-4 CW250127 3 min talk
Minimally Invasive Repair of Pectus Patients who Require Re-
Correction
Haktan Uygur ONEN, Marmara University, Faculty of Medicine,
Department of Thoracic Surgery, Turkey

AS7-5 CW250106 3 min talk
Lipofilling in Chest Wall anomalies.
Maria Victoria Romanini, Istituto Giannina Gaslini, Italy

AS7-6 CW250117 3 min talk
"Free Sandwich" Technique: A Novel Personalized Surgical
Approach for Asymmetric Pectus Excavatum in Children

Qi Zeng, Department of Thoracic Surgery, Beijing Children's Hospital ,China

AS7-7 Move to Poster

13:40 –14:25 Dry lab 1 (Group 1 member)
6 tables, 10 min each

14:30 –15:15 Dry lab 2 (Group 2 member)
6 tables, 10 mins each

15:20 –16:05 Abstract Session8 (AS 8) - PEX study-(45 min)
3-minute talk, 2-minute Q&A
5-minute talk, 3-minute Q&A
Moderators – Joel Dunning, Tomohisa Nagasao

AS8-1 CW250129 3 min talk
Evaluation of the Content and Quality of YouTube Videos
Discussing MIRPE: Do We Need Peer Review for Better Quality?
Aleyna Gultekin Aridas, Marmara University Department of
Thoracic Surgery ,Turkey

AS8-2 CW250060 3 min talk
Surgical Repair of Pectus Excavatum in Patients with Previous
Intrathoracic Operations
Naoko Uga, The University of Osaka Graduate School of Medicine,
Department of Pediatric Surgery ,Japan

AS8-3 CW250067 3 min talk
Is open repair for chest deformities outdated or state of the art?
Hiroshi Iida, Shonankamakura General Hospital ,Japan

AS8-4 CW250120 3 min talk
Impact of Different Bar Placement Techniques in Minimally
Invasive Repair of Pectus Excavatum on Thoracic Morphology: A
Retrospective Cohort Study
YiTsun Chen, Department of Thoracic Surgery, Beijing Children's
Hospital , China

AS8-5 CW250066 5 min talk
Reinforcement of Thoracic Thickness Using the Cross-Bar
Technique in Pectus Excavatum: A Comparative Study

MASAHIKO NOGUCHI, Department of Plastic and Reconstructive Surgery, Nagano Children Hospital ,Japan

AS8-6 CW250029 5 min talk
Anterior chest wall response to Nuss bar removal in adolescents with pectus excavatum
Pavol Omanik, Pediatric Surgery Department, National Institute of Children Diseases, Bratislava, Slovakia

AS8-7 CW250064 5 min talk
Tension-releasing procedures improve outcomes of Nuss procedure for PE in adult population. A computational study with clinical applicability.
DAVID PEREZ, Department of Thoracic Surgery. Hospital Universitario Insular de Gran Canaria. Spain

16:10 –16:40 Abstract Session9 (AS 9) Pain control 1-(30 min)

3-minute talk, 2-minute Q&A

5-minute talk, 3-minute Q&A

Moderators – Sungsoo Lee, Jowita Biernawaska

AS9-1 CW250040 3 min talk
Predictors for Postoperative Pain in Pediatric Patients undergoing the Nuss Procedure for Pectus Excavatum
Sayaka Matsumoto, Department of Pediatric Surgery, The University of Osaka , Japan

AS9-2 CW250041 5 min talk
Current Practices in Perioperative Pain Management Following the Nuss Procedure; a CWIG-survey
Elise J. van Polen, Zuyderland Medical Center, Heerlen, The Netherlands

AS9-3 CW250048 5 min talk
The Bridge Technique: Addressing Bar Rotation Challenges Amidst Enhanced Postoperative Mobility in the Cryoanalgesia
Era Luzia Toselli, Clinica Mi Pectus, Buenos Aires, Argentina,

AS9-4 CW250079 5 min talk
Risk factors of Acute Postoperative Pain Following the Surgery of Pectus Excavatum
Kaito yano, Department of Surgery, Division of Thoracic Surgery, Keio University School of Medicine, Tokyo, Japan

16:45 – 17:45

**Thematic Session3(TS-3) endorsed by Zimmer BioMed Japan
Older age Treatment (Pannel Discussion) -(60 mins)**

*This session is made possible generous support from Zimmer BioMed Japan, without honorarium or promotional involvement.

Moderators – Sadashige Uemura/Mustafa Yuksel

15 mins Rib Osteotomy with Nuss in Adults – Hisako Kuyama

15 mins Difficulties in addressing adult patients – Dawn Jaroszewski

15 mins Cosmetic perspectives in adult pectus patients –Tomohisa Nagasao

15 mins – Adult Pectus Patients – Vladimir Kuzmichev

September 19, 2025, Friday

8:30 – 9:05 Abstract Session10(AS 10) – Complications and infection- (35 mins)

5-minute talk, 3-minute Q&A

Moderators- Sergio Sesia

- AS10-1 CW250020 5 min talk
Current Management of Skin Reactions and Infections After Nuss Procedure: A Survey Among CWIG Surgeons
Noah Sesia, Faculty of Medicine, University of Freiburg, Germany
- AS10-2 CW250030 5 min talk
Nuss Bar Infections: Surgical Risk Factors and Management Strategies
Hendrik van Braak, Department of Pediatric Surgery, Emma Kinderziekenhuis, Amsterdam University Medical Center, Meibergdreef 9, 1105AZ Amsterdam, The Netherlands
- AS10-3 CW250139 5 min talk
Surgical Site Infections in Adult Pectus Repair
Rawan Zeineddine Mayo Clinic Arizona ,USA
- AS10-4 Move to Poster

9:10—9:40 Abstract Session11(AS11) – Pain2 –(30 mins)

3-minute talk, 2-minute Q&A

5-minute talk, 3-minute Q&A

Moderators –

Ana Lain Fernandez, Gaston Federico Bellia Munzon

- AS11-1 CW250052 5 min talk
Prospective randomized trial of efficacy and safety of erector spinae catheter and intercostal cryoablation protocols after pectus surgery: Interim analysis
Rebecca L Brown, Cincinnati Children's Hospital Medical Center ,USA
- AS11-2 CW250094 5 min talk
Impact of 2-site cryoablation on pain control after the Nuss procedure

Cecilia Gigena Heitsman, Cleveland Clinic, USA

AS11-3 CW250095 5 min talk
Non-Inferiority of 1-Minute Versus 2-Minute Cryoanalgesia Cycles During Minimally Invasive Repair of Pectus Excavatum (MIRPE): A Propensity Score-Matched Analysis
Francesco Donati, Clinica Mi Pectus, Capital Federal, Buenos Aires, Argentina.

9:40 – 10:10 Abstract Session12 (AS 12) – Complications – (30 mins)

3-minute talk, 2-minute Q&A

5-minute talk, 3-minute Q&A

Moderators- Joel Dunning, Pavol Omanik

AS12-1 CW250027 3 min talk
Antibiotic treatment for chronic pain following minimal invasive repair of pectus excavatum.
Jesse Romsom, Haga Ziekenhuis , Netherlands

AS12-2 CW250054 3 min talk
Another source of near-fatal bleeding - late-onset hemothorax six weeks after uneventful minimal invasive repair of pectus excavatum
Kai-Uwe Kleitsch, Department of Pediatric Surgery, Chest Wall Unit, Children's Hospital of Eastern Switzerland, St. Gallen, Switzerland

AS12-3 CW250110 3 min talk
Costo-clavicular Space: A Risk Zone for Brachial Plexus Injury in Pectus Repair?
Hyung Joo Park, Cleveland Clinic , USA

AS12-4 CW250112 5 min talk
Pleural Effusion After MIRPE: Steroids Fail to Show Benefit in a 446-Patient Retrospective Study
Luzia Toselli, Clinica Mi Pectus, Buenos Aires, Argentina

AS12-5 CW250025 5 min talk
Evaluating the Cumulative Complication Risk during the Surgical Treatment Course of Pectus Excavatum; a Single-Center Analysis.
Elise J. van Polen, Zuyderland Medical Center, Heerlen, The Netherlands

Coffee Break

10:35 – 11:15 Pectus Arcuatum Session(PAS) –(41mins) (with 3 abstracts)

Moderators- Becky Brown, Jose Ribas M Campos

10 mins – Pectus Arcuatum repair – Jose Ribas M Campos

10 mins – Pectus Arcuatum repair – Nezih Onur Ermerak

3min Q&A

3 abstracts:

PAS-1 CW250076 3 min talk and 2min Q&A
Patient-Specific 3D Surgical Guide-Assisted Wedge Osteotomy for Pectus Arcuatum: A Novel Tabula-Sparing Technique
Hasan Ersoz, Dr. Pectus Clinic, Izmir, Turkey

PAS-2 CW250111 3 min talk and 2min Q&A
Pectus Arcuatum Repair: A Novel Minimally Invasive Technique
Hyung Joo Park, Cleveland Clinic , USA

PAS-3 CW250134 5 min talk and 3min Q&A
Pectus Arcuatum: Over 15 Years of Experience at a Reference Center
Rawan Zeineddine, Mayo Clinic Arizona , USA

11:20—11:50 Thematic Session4 – The choice of bar configuration- (30 mins)

8 mins talk, 6mins discussion

Moderator - Tunc Lacin, Marcelo Martinez-Ferro

Parallel Bar David Notrica

Xi Bar John DiFiore

Xi Technique Hyung Joo Park

Lunch pickup

11:55 Lunch meeting – Manuel Lopez Cryotherapy-(25mins)

Moderators : Manuel Lopez

Manuel Lopez, Slawomir Zacha

Jowita Biernawska

12:25 –13:05 Abstract Session13(AS 13)- Simulation/Basic Science – (45 mins)

3-minute talk, 2-minute Q&A

5-minute talk, 3-minute Q&A

Moderators :Mathew Thomas, Ivan Schewitz

- AS13-1 CW250101 5 min talk
Taulinoplasty and MIRPE: comparison of two different approaches for pectus excavatum repair
Michele torre, Gaslini Institute, Genova, Italy
- AS13-2 CW250015 3 min talk
“Sternochondroplasty with extrathoracic Pectus Up bar by intraoperative traction”: Taulinoplasty combined with a “mini-Ravitch” surgery for pectus excavatum correction
CALOGERO PORRELLO, Thoracic Surgery Unit, Noto Pasqualino clinic, Palermo, Italy
- AS13-3 CW250028 3 min talk
Guidance in osteotomy for Ravitch procedure in chest wall deformities: optimised resection and reconstruction
Hans GL Van Veer, Department of Thoracic Surgery, University Hospitals Leuven, Belgium
- AS13-4 CW250033 3 min talk
The new IX-bar technique
Viktor Markushin, TS clinic, Krasnodar, Russia
- AS13-5 CW250140 3 min talk
Understanding Chest Wall Movement Recovery Trajectories Following Pectus Surgery
Kwanyong Hyun, St. Vincents Hospital, The Catholic University of Korea
- AS13-6 CW250090 3 min talk
Criterias to decide how many bars to place before pectus excavatum surgery
Tunc Lacin, Marmara University, Faculty of Medicine, Department of Thoracic Surgery Turkey

- AS13-7 CW250098 3 min talk
Development and Pre-Validation of Simulation Models for
Minimally Invasive Repair of Pectus Excavatum
Sofia Tachella, Clinica Mi Pectus , Argentina
- 13:05—13:20** **Closing Ceremony**
15mins Nuss's Reflection Donald Nuss
Closing Address – Masahiko Noguchi
- 13:40 – 14:10** **CWIG General Assembly-(30mins)**

Poster Presentation

- P-1 CW250010
Stabilizer Fixation versus Pericostal Suture Fixation in the Nuss Procedure
Juma Obayashi, Department of Pediatric Surgery, St. Marianna University
School of Medicine, Kawasaki, Japan
- P-2 CW250017
Impact of the Nuss Procedure on Spinal Curvature Across Four Time Points
Jin Yong Jeong, College of Medicine, The Catholic University of Korea
- P-3 CW250046
Cryoablation Versus Epidural Analgesia:
Evaluating Clinical Benefits After the Nuss-Bar Procedure
Bram Pothof, Thoraxcentrum Twente, Medisch Spectrum Twente
- P-4 CW250068
A study on clinical characteristics and risk factors for the development of
Surgical Site Infection after the Nuss procedure
Ikumi Kimura, Department of Thoracic Surgery, Keio University School of
Medicine, Tokyo, Japan
- P-5 CW250132
Thoracoscopic Repair of Harrison's Groove Using a Metal Implant
Sunghoon Kim, University of California San Francisco
- P-6 CW250038
OUTCOMES OF PROLONGED RETAINING PECTUS BARS AND PATIENTS'
PERSPECTIVES BEHIND
Mustafa Yuksel, Demiroglu Bilim University, Department of Thoracic Surgery
- P-7 CW250065
Bridging the Gap in Pectus Excavatum Care: A QI Project on Pre- and
Postoperative Physical Therapy Integration
Rebecca L Brown, Cincinnati Childrens Hospital Medical Center

- P-8 CW250074
The impact of surgery for pectus excavatum on pulmonary function
Kyohei Masai, Department of Surgery ,Division of Thoracic Surgery, Keio University School of Medicine, Tokyo, Japan
- P-9 CW250085
Is Multiple-Bar Repair Safe in Pediatric Pectus Excavatum? A Comparative Study with the Adult Population
Gongmin Rim, CHA Bundang Medical Center, CHA University, Seongnam, South Korea
- P-10 CW250103
Severe Pectus Excavatum and cardiac surgery: Sequential repair to ensure Safety
Ana Lain Fernandez,Hospital Universitari Vall de Hebron
- P-11 CW250042
Minimally invasive treatment of pectus carinatum without anterior chest wall incision
Hiroshi Taniguchi, Ise Municipal General Hospital
- P-12 CW250011
ALTERNATIVE TREATMENT OF PECTUS EXCAVATUM
Rustem Yakubovich Hayaliev, Multidisciplinary International Clinic Surgemed, Urgench, Uzbekistan , Republican Center of Sport Medicine, Tashkent, Uzbekistan
- P-13 CW250059
Clinical application of vacuum bell therapy for pectus excavatum; finding suitable candidates.
Ji Eon Kim, Department of Thoracic and Cardiovascular Surgery, Korea University Anam Hospital
- P-14 CW250073
External Chest Wall Stabilizers in Rib Fractures: Impact on Clinical Outcomes
Cenk BALTA, Antalya City Hospital, Antalya, Turkey.

- P-15 CW250023
Pericardial Effusion due to rib fracture
David M Notrica, Phoenix Childrens Hospital
- P-16 CW250026
CRYO-ANALGESIA FOR MULTIPLE FRACTURED RIBS.
Ivan Schewitz, University of Cape Town , Waterfall City Hospital
- P-17 CW250133
Brace Treatment in the Sternal Fracture Esra Yamansavci Sirzai
Suat Seren, Chest Diseases and Surgery Training and Research Hospital,
Thoracic Surgery Department
- P-18 CW250014
Resection and reconstruction of tumors in the chest wall : experience in a
national concentration center
Miguel Martinez, ABC MEDICAL CENTRE , ISSEMYM MEDICAL CENTRE
- P-19 CW250087
Application of bridge technique for pectus bar fixation during Nuss procedure
Dong Yan, Thoracic surgery Beijing children hospital
- P-20 CW250107
Surgical methods for removal of the pectus bar fixed with steel wire
Qian Zhang, Department of Thoracic Surgery, Beijing Children s Hospital
- P-21 CW250109
NBA XI: A Cheat Code to Multiple Bar Pectus Repair
Hyung Joo Park, Cleveland Clinic
- P-22 CW250126
Use of Elevation-Compression Devices in Correction of Chest Deformities
Vladimir Kuzmichev, MONIKI
- P-23 CW250131
Nuss procedure with cross-bar can correct isolated costal flaring
Vladimir Kuzmichev, MONIKI

- P-24 CW250137
Short Bars, Big Impact: The Innovative Short-Bar and Sandwich Techniques
Redefining Pediatric Chest Wall Surgery
Anja Christina Weinhandl, Clinic of Pediatric and Adolescent Surgery,
Medical University of Vienna
- P-25 CW250008
Correction of PE in women
Rustem Yakubovich Hayaliev, International Clinic Surgemed, Urgench, Uzbekistan,
Republican Scientific Practical Center of Sport Medicine, Tashkent, Uzbekistan
- P-26 CW250009
SEVERE FORMS OF PECTUS EXCAVATUM
Rustem Yakubovich Hayaliev, International Clinic Surgemed, Urgench,
Uzbekistan , Republican Center of Sport Medicine, Tashkent, Uzbekistan
- P-27 CW250043 Over 1000 cases of Nuss procedure
Yasushi Kasagi, Department of Thoracic Surgery, Matsuyama Cardiovascular
Medical Center
- P-28 CW250058
A Twelve-year-old Child with a Sunken Sternum and Progressive Muscle
Weakness
Siman Chen, Department of Thoracic Surgery, Beijing Children s Hospital
- P-29 CW250123
Nuss procedure after sternal cleft repair: challenging but feasible
Ana Lain Fernandez, Hospital Universitari Vall de Hebron
- P-30 CW250135
Simultaneous Pericardial Cyst Excision and Nuss Procedure in a Patient with
Pectus Excavatum
Hayrunisa Kahraman Esen, Nisantasi University, Faculty of Medicine,
Department of Pediatric Surgery, Istanbul, Turkey
- P-31 CW250056
Minimally invasive repair of Pectus excavatum in Montenegro
Branko Campar, Department of Thoracic surgery, University of Montenegro,
Clinical center of Montenegro, Podgorica, Montenegro

- P-32 CW250047
Impact of Surgery on Quality of Life, Psychological States, and Personality Traits in Patients with Pectus Excavatum
Kohei Matsuda, Division of Thoracic Surgery, Department of Surgery, Keio University School of Medicine , Department of General Thoracic Surgery, Saitama City Hospital
- P-33 CW250050
Study on the introduction of thoracic stretching for children with pectus excavatum during follow up Report at 6 months
Kiyoka Inoue, Kawasaki University of Medical Welfare
- P-34 CW250071
Freeze or Heat for Pain Control After the Nuss Procedure
Sadashige Uemura, Nishinomiya Watanabe Cardiovascular Center
- P-35 CW250099
Enhancing Technical Mastery of Intercostal Cryoanalgesia in MIRPE: Development and Validation of Two Procedural Simulation Models
Sofia Tachella, Clinica Mi Pectus , Fundacion Hospitalaria Mother and Child Medical Center
- P-36 CW250007
Clinical analysis of the Nuss procedure for pectus excavatum in patients under 10 years of age.
Tamaki Iwade, Department of Pediatric Surgery, Ishikawa Prefectural Central Hospital
- P-37 CW250016
Prevention of lung damage during the correction of Pectus excavatum (PE) deformity by using a cross bars
ikromjon Uralboev Erkinovich, State Childrens Multibranch Medical Center,city Samarkand, Uzbekistan
- P-38 CW250021
Optimal age for Nuss surgery. Our version.
Viktor Markushin, TS clinic, Krasnodar, Russia , Multidisciplinary international hospital Surgemed, Urgench, Uzbekistan

- P-39 CW250045
Evaluation of Costal Morphology in Pectus Excavatum Using Geometric Morphometrics: A Comparison with the Normal Thorax
Hisako Kuyama, Kawasaki Medical School, Department of Pediatric Surgery
- P-40 CW250100
The contribution of 3D-printing in the minimally invasive corrective surgery of Pectus Excavatum.
Maha Tachauine, Department of Thoracic Surgery, HASSAN II University Hospital, Fes
- P-41 CW250024
Implant Failure after Minimally Invasive Repair of Pectus Excavatum; a Case-Series
Elise J. van Polen, Zuyderland Medical Center, Heerlen
- P-42 CW250125
The influence of thoracic morphology on recurrence of primary pneumothorax
Kazuma Nakayama, Department of Thoracic Surgery, Keio University School of Medicine, Tokyo, Japan
- P-43 CW250032
Diagnostic and Therapeutic Challenges of Pleural Effusion After the Nuss Procedure: A Case Series
Hendrik van Braak, Department of Pediatric Surgery, Emma Kinderziekenhuis, Amsterdam University Medical Center, Meibergdreef 9, 1105AZ Amsterdam, The Netherlands , Department of Surgery, Leiden University Medical Center, Albinusdreef 2, 2333ZA Leiden, The Netherlands
- P-44 CW250143
Thermodermography as useful tool to assess effects/side effects of thoracal cryoablation after surgical repair of chest wall deformities
Frank-Martin Haeker, Chest Wall Unit, Department of Pediatric Surgery, Childrens Hospital of Eastern Switzerland, St. Gallen, Switzerland , Faculty of Medicine, University of Basel, Basel, Switzerland

- P-45 CW250080
Bilateral Hemothorax Following Chest Wall Reconstruction in a Noonan Syndrome Patient with Chest Wall Deformity: A Case Report
Yujia Wu, Department of Thoracic Surgery, National Center for Childrens Health, China, Beijing Childrens Hospital, Capital Medical University
- P-46 CW250121
Concurrent Pericardial Cysts and Pectus Excavatum: Insights from Two Adolescent Cases
Shelby Leigh Aughtman, Macon & Joan Brock Virginia Health Sciences at Old Dominion University
- P-47 CW250128
Complications of pectus excavatum surgery using the Nuss procedure.
Reiko Asato, University of the Ryukyus Hospital Department of Plastic and
- P-48 CW250142
Pectus Hardware Salvage Following Infection At A Single Institution
Joe Rodriguez, Eastern Virginia Medical School at Old Dominion University ,USA
Reconstructive Surgery.