



25<sup>TH</sup> ANNUAL CONGRESS OF  
THE CHEST WALL  
INTERNATIONAL GROUP



17-19 SEPTEMBER 2025  
NAGANO

Hokto Culture Hall (Naganoken Kenmin Bunka Kaikan)

PROGRAM BOOKLET



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検索



私たち上條器械店は長野県内の医療機関、製薬会社、研究所へ、50,000品目を超える商品を取り扱う医療機器及び科学機器の最大手総合商社です。

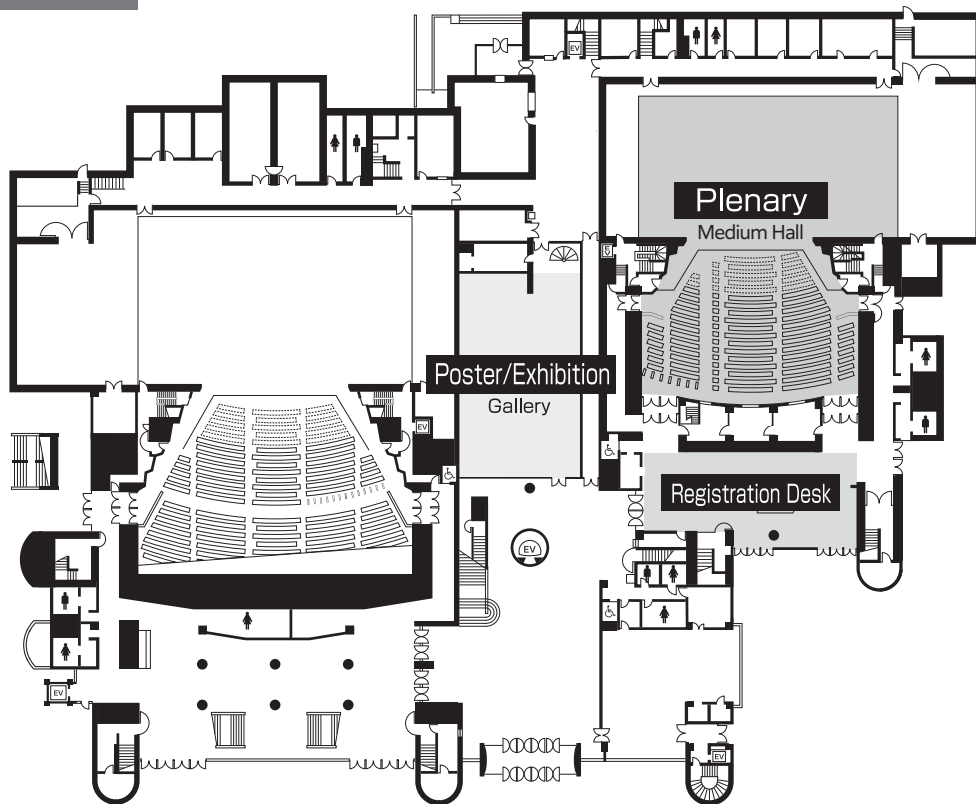
## Table of Contents

|                                           |    |
|-------------------------------------------|----|
| • Floor Layout .....                      | 4  |
| • CWIG2025 Conference Board Members ..... | 6  |
| • Program Overview .....                  | 7  |
| • Program .....                           | 10 |

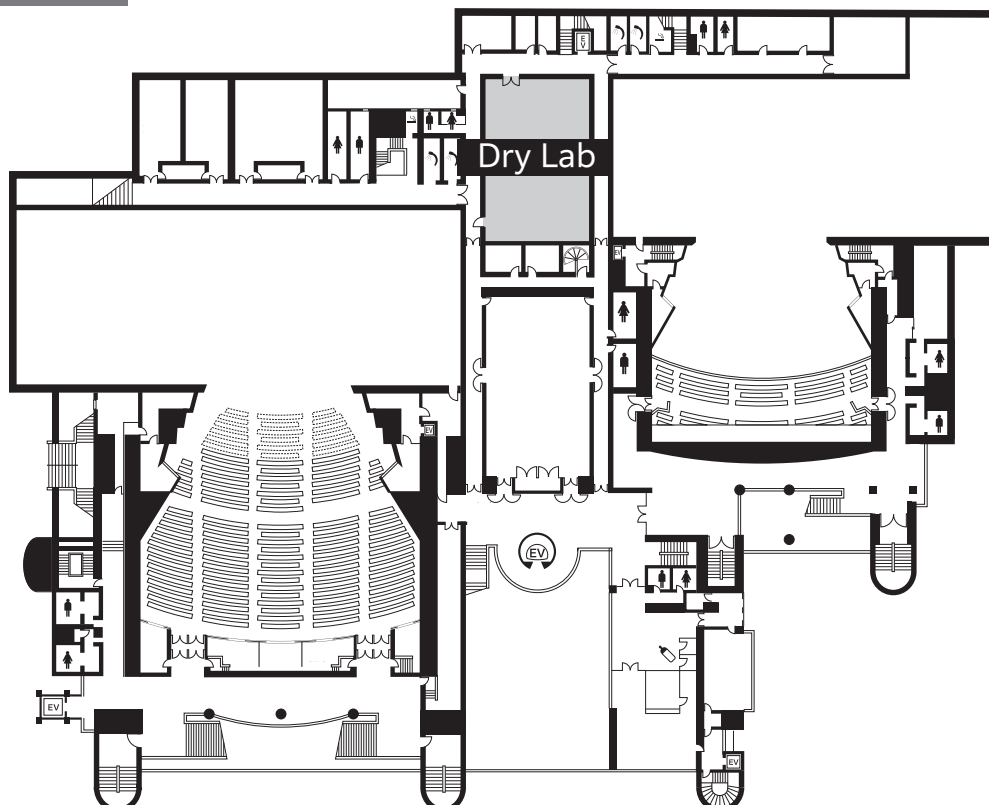


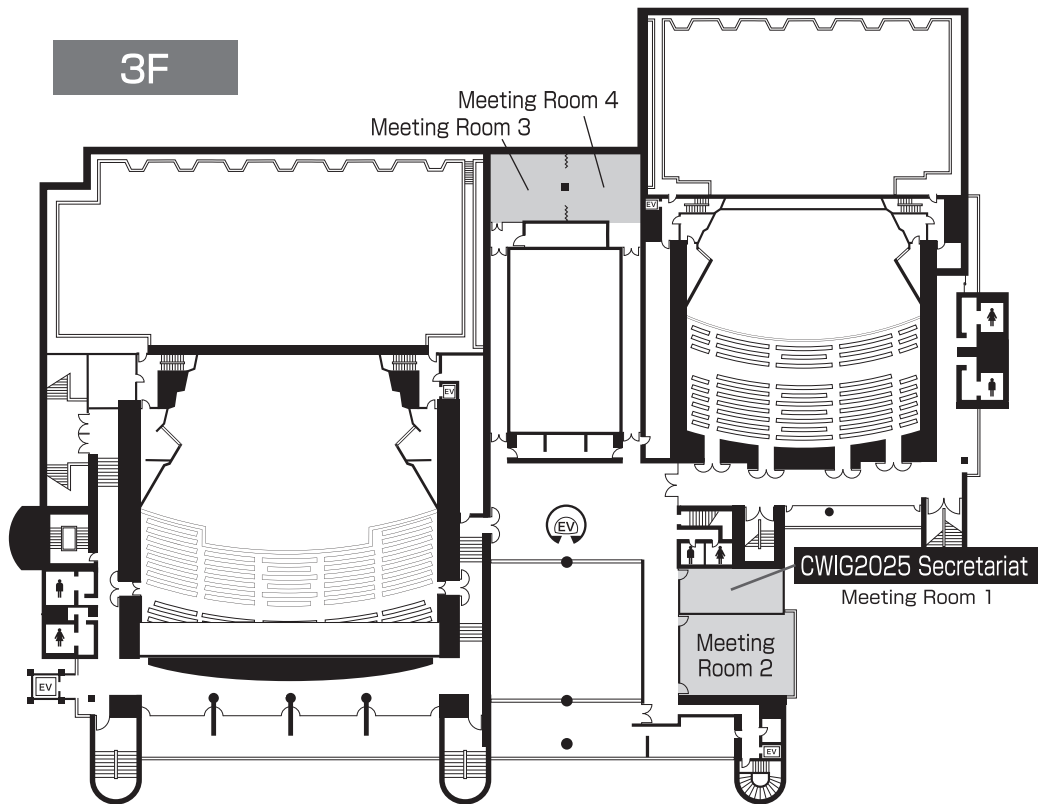
# Floor Layout

1F



2F





# **25<sup>th</sup> Annual Congress: Chest Wall International Group (CWIG 2025)**

## **Conference Board Members**

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### **President**

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## **CWIG 2025 Organizing Committee**

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### **Conference Chairperson**

Masahiko Noguchi, M.D.

### **CWIG Honorary Conference Chairperson**

Sadashige Uemura, M.D.



# Program Overview

| September 17 (Wednesday) |                                                        |                            |
|--------------------------|--------------------------------------------------------|----------------------------|
| Time                     | Event                                                  | Loacation                  |
| 8:30                     | <i>Registration</i>                                    |                            |
| 8:40-9:00                | Opening Ceremony                                       | Medium Hall                |
| 9:00-9:35                | Lecture-style session 1 (Pectus Excavatum)             | Medium Hall                |
| 9:40-10:20               | Panel Discussion (Pectus excavatum world review)       | Medium Hall                |
|                          | <i>Coffee Break</i>                                    |                            |
| 10:45-11:35              | Lecture-style session 2 (Recurrence & Redo)            | Medium Hall                |
| 11:35-12:10              | <i>Lunch Time</i>                                      |                            |
| 12:10-12:35              | Top 10 Ranking Poster Session 1                        | Medium Hall                |
| 12:35-13:25              | Abstract Session 1 (Pectus Excavatum: Evaluation)      | Medium Hall                |
| 13:30-14:05              | Abstract Session 2 (Pectus Excavatum: Function)        | Medium Hall                |
| 14:10-14:35              | Abstract Session 3 (Trauma & Tumor)                    | Medium Hall                |
| 14:35-15:10              | Lecture-style Session 3 (Pectus Carinatum&Vacuum Bell) | Medium Hall                |
|                          | <i>Coffee Break</i>                                    |                            |
| 15:30-16:00              | Abstract Session 4 (Pectus Excavatum: QOL & Screeing)  | Medium Hall                |
| 16:00-16:35              | Japanese Session                                       | Medium Hall                |
| 16:40-17:10              | Abstract Session 5 (Pectus Excavatum: Bar Selection)   | Medium Hall                |
|                          | Move to Zenkoji by Bus                                 |                            |
| 18:00-20:00              | Welcome Reception at Zenkoji                           | Daikanjin, Zenko-ji Temple |

| September 18 (Thursday) |                                                                                                |                           |
|-------------------------|------------------------------------------------------------------------------------------------|---------------------------|
| Time                    | Event                                                                                          | Loacation                 |
| 8:15                    | <i>Registration</i>                                                                            |                           |
| 8:30-9:10               | Thematic Session1 endorsed by Surgical Spine :<br>Scoliosis (PannelDiscussion)                 | Medium Hall               |
| 9:15-9:40               | Abstract Session 6 (Pectus Carinatum)                                                          | Medium Hall               |
| 9:45-10:35              | Thematic Session 2 endorsed by Solve Debate: optimal<br>timing of surgery                      | Medium Hall               |
|                         | <i>Coffee Break</i>                                                                            |                           |
| 10:55-11:40             | Top 5 Ranking Abstracts                                                                        | Medium Hall               |
| 11:40                   | Commemorative Photo Time                                                                       |                           |
| 11:40-12:30             | <i>Lunch Time</i>                                                                              |                           |
|                         | *Past President and Honorary Member Board Luncheon<br>Meeting                                  |                           |
| 12:30-12:50             | Top 10 Ranking Poster Session 2                                                                | Medium Hall               |
| 12:55-13:30             | Abstract Session 7 (Pectus Excavatum: Technique)                                               | Medium Hall               |
|                         | Dry Lab and Coffee Break                                                                       |                           |
| 13:40-14:25             | Dry Lab G1                                                                                     | Rehearsal Room            |
| 14:30-15:15             | Dry Lab G2                                                                                     | Rehearsal Room            |
| 15:20-16:05             | Abstract Session 8 (Pectus Excavatum : Study)                                                  | Medium Hall               |
| 16:10-16:40             | Abstract Session 9 (Pain Management 1)                                                         | Medium Hall               |
| 16:45-17:45             | Thematic Session 3 endorsed by Zimmer BioMed Japan:<br>Older age Treatment (Pannel Discussion) | Medium Hall               |
| 19:00-21:00             | CWIG2025 Banquet                                                                               | Hotel Metropolitan Nagano |

| September 19 (Friday) |                                                      |             |
|-----------------------|------------------------------------------------------|-------------|
| Time                  | Event                                                | Loacation   |
| 8:15                  | <i>Registration</i>                                  |             |
| 8:30-9:05             | Abstract Session 10 (Pectus Excavatum: Infection)    | Medium Hall |
| 9:10-9:40             | Abstract Session 11 (Pain Management 2)              | Medium Hall |
| 9:40-10:10            | Abstract Session 12 (Pectus Excavatum: Complication) | Medium Hall |
|                       | <i>Coffee Break</i>                                  |             |
| 10:35-11:15           | Pectus Arcuatum Session                              |             |
| 11:20-11:50           | Thematic Session 4 (The Choice of bar configuration) | Medium Hall |
| 11:55-12:20           | Luncheon Meeting (Metrum: Cryoanalgesia)             | Medium Hall |
| 12:25-13:05           | Abstract Session 13 (Simulation/Basic Science)       | Medium Hall |
|                       | Closing Ceremony                                     | Medium Hall |
|                       | Dr. Nuss's Reflection Donala Nuss                    | Medium Hall |
|                       | Closing Address                                      | Medium Hall |
| 13:40-14:10           | CWIG General Assembly Meeting                        | Medium Hall |

# CWIG2025 Program

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# September 17, 2025, Wednesday

8:40 – 09:00 **Opening Ceremony**

9:00 – 09:35 **Lecture-style Session 1 (LS1) Pectus Excavatum**

Moderators: Lopez Manuel, Marcelo Matinez Ferro

15 min – Physiologic Effect of Pectus Excavatum - Becky Brown

15 min – MIRPE: Effects on Cardiopulmonary Physiology and Quality of Life  
– Robert Obermeyer

5 min discussion

9:40 – 10:20 **Panel Discussion (PD) Pectus Excavatum World View**

Moderators: Sadashige Uemura, Jose Ribas M Campus

10 min – Japanese Perspective - Sadashige Uemura

10 min – Turkish Perspective - Mustafa Yuksel

3 abstracts: 5 min presentation (15 mins)

5 min discussion \* No discussion session follow each presentation

PD-1 CW250061 *5 min. presentation*

**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. presentation*

**Decentralized Minimally Invasive Pectus Repair in Germany**

Caroline Fortmann, Hannover Medical School , Germany

PD-3 CW250108 *5 min. presentation*

**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 (LS2) Recurrence & Redo**

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 discussion

11:35 – 12:10 Lunch Time

12:10 – 12:35 **Top 10 Ranking Poster Session 1**

Moderator: Satoshi Ieiri

- P-1 CW250010 *2 min. presentation, 2 min. discussion*  
**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 min. presentation, 2 min. discussion*  
**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 min. presentation, 2 min. discussion*  
**Cryoablation Versus Epidural Analgesia: Evaluating Clinical Benefits After the Nuss-Bar Procedure**  
Bram Pothof, Thoraxcentrum Twente, Medisch Spectrum Twente
- P-4 CW250068 *2 min. presentation, 2 min. discussion*  
**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 min. presentation, 2 min. discussion*  
**Thoracoscopic Repair of Harrison's Groove Using a Metal Implant**  
Sunghoon Kim, University of California San Francisco

12:35 – 13:25 **Abstract Session 1 (AS1) Pectus Excavatum: Evaluation**

Moderators: Shyam Kolvekar, Gerda Zijp

- AS1-1 CW250097 *3 min. presentation, 2 min. discussion*  
**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. presentation, 3 min. discussion*  
**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. presentation, 3 min. discussion*  
**HIGHER THAN EXPECTED PREVALENCE OF PECTUS DEFORMITIES IN NEWBORNS: A PROSPECTIVE OBSERVATIONAL STUDY**  
Elif Betül Keskin Cetinkaya, Department of Pediatrics, Sancaktepe İlhan Varank Training and Research Hospital, Türkiye

AS1-4 CW250063 *5 min. presentation, 3 min. discussion*  
**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. presentation, 3 min. discussion*  
**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. presentation, 3 min. discussion*  
**Why Some Chests Resist Elevation: The Roles of Age, BMI, and Titanic Index**

Daniela Sanjurjo, Clinica Mi Pectus, Argentina

## 13:30 – 14:05 Abstract Session 2 (AS2) Pectus Excavatum: Function

Moderators: Carolyn Russel, Michele Torre

AS2-1 CW250057 *3 min. presentation, 2 min. discussion*  
**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. presentation, 3 min. discussion*  
**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. presentation, 3 min. discussion*  
**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. presentation, 2 min. discussion*  
**Cardiopulmonary characteristics of pectus excavatum patients with lower versus higher exercise performance**

Mustafa Kabeer, CHOC, USA



- AS2-5 CW250083 *3 min. presentation, 2 min. discussion*  
**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 Session 3 (AS3) Trauma & Tumor**

Moderators: PJ Van Huijstee, Maira Kalil Fernandes

- AS3-1 CW250013 *3 min. presentation, 2 min. discussion*  
**Minimally invasive approach for rib fractures: a multi center 10 year experience, Feasibility and Safety**  
Miguel Alejandro Martinez, ABC MEDICAL CENTRE, Mexico
- AS3-2 CW250130 *3 min. presentation, 2 min. discussion*  
**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. presentation, 2 min. discussion*  
**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. presentation, 2 min. discussion*  
**Chest Wall Reconstructions in extended resections Long term follow-up**  
Olavo R Rodrigues, Universidade de Mogi das Cruzes, Brasil
- AS3-5 CW250096 *3 min. presentation, 2 min. discussion*  
**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) Pectus Carinatum & Vacuum Bell**

Moderators: Frank-Martin Haeker, Kazunori Ohama

10 min – Double Plate Technique – Sungsoo Lee

10 min – Treatment of Pectus Carinatum in Adolescents – Sjoerd de Beer

10 min – Vacuum Bell technique – Luzia Toselli

5 min discussion

15:30 – 16:00 **Abstract Session 4 (AS4) Pectus Excavatum: QOL & Screening**

Moderators: David Notrica, Satoshi Takagi

- AS4-1 CW250031 *3 min. presentation, 2 min. discussion*  
**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. presentation, 2 min. discussion*  
**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. presentation, 3 min. discussion*  
**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 Childrens Health, Beijing Children's Hospital, Capital Medical University, China
- AS4-4 CW250124 *5 min. presentation, 3 min. discussion*  
**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)**

Moderators: Masahiko Noguchi, Donald Nuss

- JP-1 CW250082 *3 min. presentation, 2 min. discussion*  
**Investigation of Thoracic Deformities Associated with Bifid Ribs in Pediatric Patients.**  
Yoshie Sasaki, Gunma Childrens Medical Center
- JP-2 CW250138 *3 min. presentation, 2 min. discussion*  
**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. presentation, 2 min. discussion*  
**Nuss procedure with retrosternal incision.**  
Akihiro Shimotakahara, Tokyo Metropolitan Childrens Medical Center

- JP-4 CW250055 *3 min. presentation, 2 min. discussion*  
**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. presentation, 2 min. discussion*  
**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. presentation, 2 min. discussion*  
**A Case of Pectus Carinatum Treated with a Combination of the Modified Nuss Procedure and Sterno-Costal Elevation.**  
Takeaki Kajiwaru, Department of Plastic and Reconstructive Surgery, Karatsu Red Cross Hospital
- JP-7 CW250077 *3 min. presentation, 2 min. discussion*  
**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. presentation, 2 min. discussion*  
**Vacuum Bell Therapy for Pectus Excavatum -How to Maintain Motivation-**  
Kazunori Ohama, Kanazawa Medical University, Department of Pediatric Surgery

16:40 – 17:10 **Abstract Session 5 (AS5) Pectus Excavatum: Bar Selection**

Moderators: Caroline Fortmann, Cheng hao Chen

- AS5-1 CW250119 *3 min. presentation, 2 min. discussion*  
**Discrepancies in Bar Quantity Selection for the Nuss Procedure: A Single-Center Retrospective Analysis and Development of a Preoperative Assessment Model**  
Yi Tsun Chen, Department of Thoracic Surgery, Beijing Children's Hospital, China
- AS5-2 CW250116 *5 min. presentation, 3 min. discussion*  
**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. presentation, 3 min. discussion*

**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

18:00 – 20:00 Move to Zenkoji by Bus, Welcome Reception

## September 18, 2025, Thursday

8:30 – 9:10

### Thematic Session1 endorsed by Surgical Spine: Scoliosis (Pannel Discussion)

Moderators: Kyohei Masai, Slawmir Zacha

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

**15 min presentation: Jun Takahashi – Treatment of Scoliosis**

2 abstracts

10 min discussion

- TS1-1 CW250092 *8 min presentation*  
**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 presentation*  
**Impact of Nuss surgery on scoliosis: What Should Be Considered?**

Ana Lain Fernandez, Hospital Universitari Vall de Hebron, Spain

9:15 – 9:40

### Abstract Session 6 (AS6) Pectus Carinatum

Moderators: Horacio Abramson, Sungsoo Lee

- AS6-1 CW250049 *3 min. presentation, 2 min. discussion*  
**Pectus Carinatum Bracing: Key Factors in Success and Dropout**

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

- AS6-2 CW250114 *3 min. presentation, 2 min. discussion*  
**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 Withdrawal

- AS6-4 CW250089 *5 min. presentation, 3 min. discussion*  
**Minimally Invasive Surgery for Pectus Carinatum Correction: A Retrospective Single-Center Study**

JIE YU, Children's Hospital, China

9:45 – 10:35

## Thematic Session 2 (TS2) endorsed by Solve Debate: optimal timing of surgery

Moderators: Manuel Lopez, Masahiko Noguchi

Debate-optimal timing for surgery-(50 min), 10 min panel discussion

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

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

Moderators: Luzia Toselli, Lisa McMahon

TR-oral -1 CW250012 5 min. presentation, 3 min. discussion

### 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. presentation, 3 min. discussion

### 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. presentation, 3 min. discussion

### 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. presentation, 3 min. discussion

### 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. presentation, 3 min. discussion

### 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

In case of rain: Plenary Hall (Medium Hall)  
In case of fine weather: Outdoor

11:40 – 12:30 Lunch Time

## 12:30 – 12:50 Top 10 Ranking Poster Session 2

Moderator: Takashi Kochi

- P-6 CW250038 *2 min. presentation, 2 min. discussion*  
**Outcomes of Prolonged Retaining Pectus Bars and Patients' Perspectives Behind**  
Mustafa Yuksel, Demiroglu Bilim University, Department of Thoracic Surgery
- P-7 CW250065 *2 min. presentation, 2 min. discussion*  
**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. presentation, 2 min. discussion*  
**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. presentation, 2 min. discussion*  
**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. presentation, 2 min. discussion*  
**Severe Pectus Excavatum and cardiac surgery: Sequential repair to ensure safety**  
Ana Lain Fernandez, Hospital Universitari Vall de Hebron

## 12:55 – 13:30 Abstract Session 7 (AS7) Pectus Excavatum: Technique

Moderators: Sjoerd de Beer, Nezih Onur Ermerak

- AS7-1 CW250019 *3 min. presentation, 2 min. discussion*  
**Surgical Considerations for Platythorax and Pectus Excavatum with Anterior-Posterior Insufficiency**  
David M Notrica, Phoenix Children's Hospital, USA

- AS7-2 CW250086 *3 min. presentation, 2 min. discussion*  
**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. presentation, 2 min. discussion*  
**Modified Nuss Procedure: Auxillary Subxiphoid Incision**  
Haktan Uygur ONEN, Marmara University , Turkey
- AS7-4 CW250127 *3 min. presentation, 2 min. discussion*  
**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. presentation, 2 min. discussion*  
**Lipofilling in Chest Wall anomalies.**  
Maria Victoria Romanini, Istituto Giannina Gaslini, Italy
- AS7-6 CW250117 *3 min. presentation, 2 min. discussion*  
**“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**

6 tables, 10 min each

#### 14:30 – 15:15 **Dry lab 2**

6 tables, 10 min each

#### 15:20 – 16:05 **Abstract Session 8 (AS8) Pectus Excavatum : Study**

Moderators: Joel Dunning, Tomohisa Nagasao

- AS8-1 CW250129 *3 min. presentation, 2 min. discussion*  
**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. presentation, 2 min. discussion*  
**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. presentation, 2 min. discussion*  
**Is open repair for chest deformities outdated or state of the art?**  
Hiroshi Iida, Shonankamakura General Hospital ,Japan
- AS8-4 CW250120 *3 min. presentation, 2 min. discussion*  
**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. presentation, 3 min. discussion*  
**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. presentation, 3 min. discussion*  
**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. presentation, 3 min. discussion*  
**Tension-releasing procedures improve outcomes of Nuss procedure for PE in adult population. A computational study with clinical applicability.**  
David Perez Alonso, Department of Thoracic Surgery, Hospital Universitario Insular de Gran Canaria. Spain

## 16:10 – 16:40 Abstract Session 9 (AS9) Pain Management 1

Moderators: Sungsoo Lee, Jowita Biernawaska

- AS9-1 CW250040 *3 min. presentation, 2 min. discussion*  
**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. presentation, 3 min. discussion*  
**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. presentation, 3 min. discussion*  
**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. presentation, 3 min. discussion

**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 Session 3 (TS-3) endorsed by Zimmer BioMed Japan : Older age Treatment (Pannel Discussion)**

**Moderators: Sadashige Uemura, Mustafa Yuksel**

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

**15 min presentation Rib Osteotomy with Nuss in Adults – Hisako Kuyama**

**15 min presentation Difficulties in addressing adult patients**

– Dawn Jaroszewski

**15 min presentation Cosmetic perspectives in adult pectus patients**

– Tomohisa Nagasao

**15 min presentation – Adult Pectus Patients – Vladimir Kuzmichev**

19:00 – 21:00 CWIG2025 Banquet

## September 19, 2025, Friday

8:30 – 9:05

### Abstract Session 10 (AS10) Pectus Excavatum: Infection

Moderators: Koichi Deguchi, Sergio Sesia

AS10-1

CW250020 *5 min. presentation, 3 min. discussion*

#### **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. presentation, 3 min. discussion*

#### **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. presentation, 3 min. discussion*

#### **Surgical Site Infections in Adult Pectus Repair**

Rawan Zeineddine, Mayo Clinic Arizona, USA

AS10-4

CW250142 *5 min. presentation, 3 min. discussion*

#### **Pectus Hardware Salvage Following Infection At A Single Institution**

Joe Rodriguez, Eastern Virginia Medical School at Old Dominion University, USA

9:10 – 9:40

### Abstract Session 11 (AS11) Pain Management 2

Moderators: Ana Lain Fernandez, Gaston Federico Bellia Munzon

AS11-1

CW250052 *5 min. presentation, 3 min. discussion*

#### **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. presentation, 3 min. discussion*

#### **Impact of 2-site cryoablation on pain control after the Nuss procedure**

John W. DiFiore, Cleveland Clinic, USA

AS11-3

CW250095 *5 min. presentation, 3 min. discussion*

#### **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.

Moderators: Joel Dunning, Pavol Omanik

- AS12-1 CW250027 *3 min. presentation, 2 min. discussion*  
**Antibiotic treatment for chronic pain following minimal invasive repair of pectus excavatum.**  
Jesse Romsom, Haga Ziekenhuis , Netherlands
- AS12-2 CW250054 *3 min. presentation, 2 min. discussion*  
**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. presentation, 2 min. discussion*  
**Costo-clavicular Space: A Risk Zone for Brachial Plexus Injury in Pectus Repair?**  
Hyung Joo Park, Cleveland Clinic , USA
- AS12-4 CW250112 *5 min. presentation, 3 min. discussion*  
**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. presentation, 3 min. discussion*  
**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

Moderators: Rebecca L. Brown, Jose Ribas M Campos

10 min – Pectus Arcuatum Repair – Jose Ribas M Campos

10 min – Pectus Arcuatum Repair – Nezih Onur Ermerak

- PAS-1 CW250076 *3 min. presentation, 2 min. discussion*  
**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. presentation, 2 min. discussion*  
**Pectus Arcuatum Repair: A Novel Minimally Invasive Technique**  
Hyung Joo Park, Cleveland Clinic , USA

PAS-3 CW250134 5 min. presentation, 3 min. discussion  
**Pectus Arcuatum: Over 15 Years of Experience at a Reference Center**  
Rawan Zeineddine, Mayo Clinic Arizona , USA

11:20 – 11:50 **Thematic Session 4 The Choice of bar configuration**

Moderators: Tunc Lacin, Marcelo Martinez-Ferro

8 min presentation, 6min discussion

Parallel Bar – David Notrica

Xi Bar – John DiFiore

Xi Technique – Hyung Joo Park

Lunch pickup

11:55 – 12:20 **Luncheon meeting Motrum: Cryoanalgesia**

Moderator : Manuel Lopez

Speakers: Manuel Lopez, Slawomir Zacha

Jowita Biernawska

12:25 – 13:05 **Abstract Session 13 (AS13) Simulation/Basic Science**

Moderators :Mathew Thomas, Ivan Schewitz

AS13-1 CW250101 5 min. presentation, 3 min. discussion  
**Taulinoplasty and MIRPE: comparison of two different approaches for pectus excavatum repair**

Michele torre, Gaslini Institute, Genova, Italy

AS13-2 CW250015 3 min. presentation, 2 min. discussion  
**“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. presentation, 2 min. discussion  
**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. presentation, 2 min. discussion  
**The new IX-bar technique**

Viktor Markushin, TS clinic, Krasnodar, Russia

AS13-5      CW250140      *3 min. presentation, 2 min. discussion*  
**Understanding Chest Wall Movement Recovery Trajectories Following Pectus Surgery**

Kwanyong Hyun, St. Vincents Hospital, The Catholic University of Korea

AS13-6      CW250090      *3 min. presentation, 2 min. discussion*  
**Criteria 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. presentation, 2 min. discussion*  
**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**  
**Dr. Nuss's Reflection Donald Nuss**

Closing Address – Masahiko Noguchi

13:40 – 14:10      **CWIG General Assembly Meeting**

## 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, WeinhandlUniversity 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 Thracic 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 Withdrawal
- 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  
**The 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 Tachaouine, 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 Reconstructive Surgery.

## Commercial Promotion Acknowledgment

CWIG2025 wishes to recognize and thank the following companies for their promotion Commercial Support:

- SOLVE Co., Ltd.
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## Dry Lab Information

The Dry Lab will be conducted according to the schedule below in the Rehearsal Room on the second floor of the Hokto Cultural Center.

**Date: Thursday, September 18**  
**Time: Group 1: 13:40 – 14:25**  
**Group 2: 14:30 – 15:15**

Participants will be divided into two groups: Group 1 (first half) and Group 2 (second half). Each group will have the opportunity to experience and evaluate products provided by participating companies.

Group allocation will be arranged at the registration desk according to participant preference. In addition to the scheduled Dry Lab sessions, the following time slots will be available for companies to introduce their products.

Please feel free to stop by if you are interested.

**September 18: 9:00–17:00**  
**September 19: 9:00–12:00**

### List of Participating Companies and Product Overviews

| Company                                      | Product Name                                               | Overview                                                                                                                                                         |
|----------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TEIJIN MEDICAL TECHNOLOGIES CO., LTD.</b> | OSTEOTRANS                                                 | Osteotrans is a bio-resorbable bone fixation device composed of PLLA and un-sintered hydroxyapatite (u-HA). It is versatile and can be used for most body parts. |
| <b>Zimmer Biomet G.K.</b>                    | Pectus Blu                                                 | Next-generation titanium solution for pectus excavatum correction                                                                                                |
|                                              | RibFix Blu                                                 | Comprehensive titanium system for rib and sternal fracture fixation                                                                                              |
|                                              | SternaLock Blu                                             | Rigid titanium closure system for sternal fixation after sternotomy                                                                                              |
| <b>PRIMEMED INC.</b>                         | Flare Buster - Multi Bar Technique<br>Park's Pectus System |                                                                                                                                                                  |
| <b>Metrum Cryoflex Sp. z o.o.</b>            | RYO-S Painless Device,                                     | The CRYO-S Painless is a state-of-the-art cryosurgical system designed for cryoanalgesia, a pain management technique that uses freezing to relieve pain.        |
|                                              | CRYO-S Painless Cryoprobes                                 |                                                                                                                                                                  |

| Company         | Product Name                              | Overview                                                                                                                                                                                                                                                                                                                                 |
|-----------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ChM sp. z o. o. | CHESTER                                   | A system designed to facilitate minimally invasive pectus excavatum correction.                                                                                                                                                                                                                                                          |
| SOLVE Co., Ltd. | CHEST WAY Pectus Plate                    | <p>The CHEST WAY system is designed to facilitate minimally invasive correction of pectus excavatum.</p> <p>By employing pectus plates and stabilizers, the system enables secure chest wall support and correction without extensive incisions, thereby promoting both cosmetic and functional improvement of thoracic deformities.</p> |
|                 | CastleLoc Pectus Sternum Elevation System | The CastleLoc Pectus is a system specifically designed to provide safe and stable elevation of the sternum during surgical correction of chest wall deformities, including pectus excavatum.                                                                                                                                             |

# 医療と美容の融合を通じて、 人々の「美と健康」への願いを実現します。

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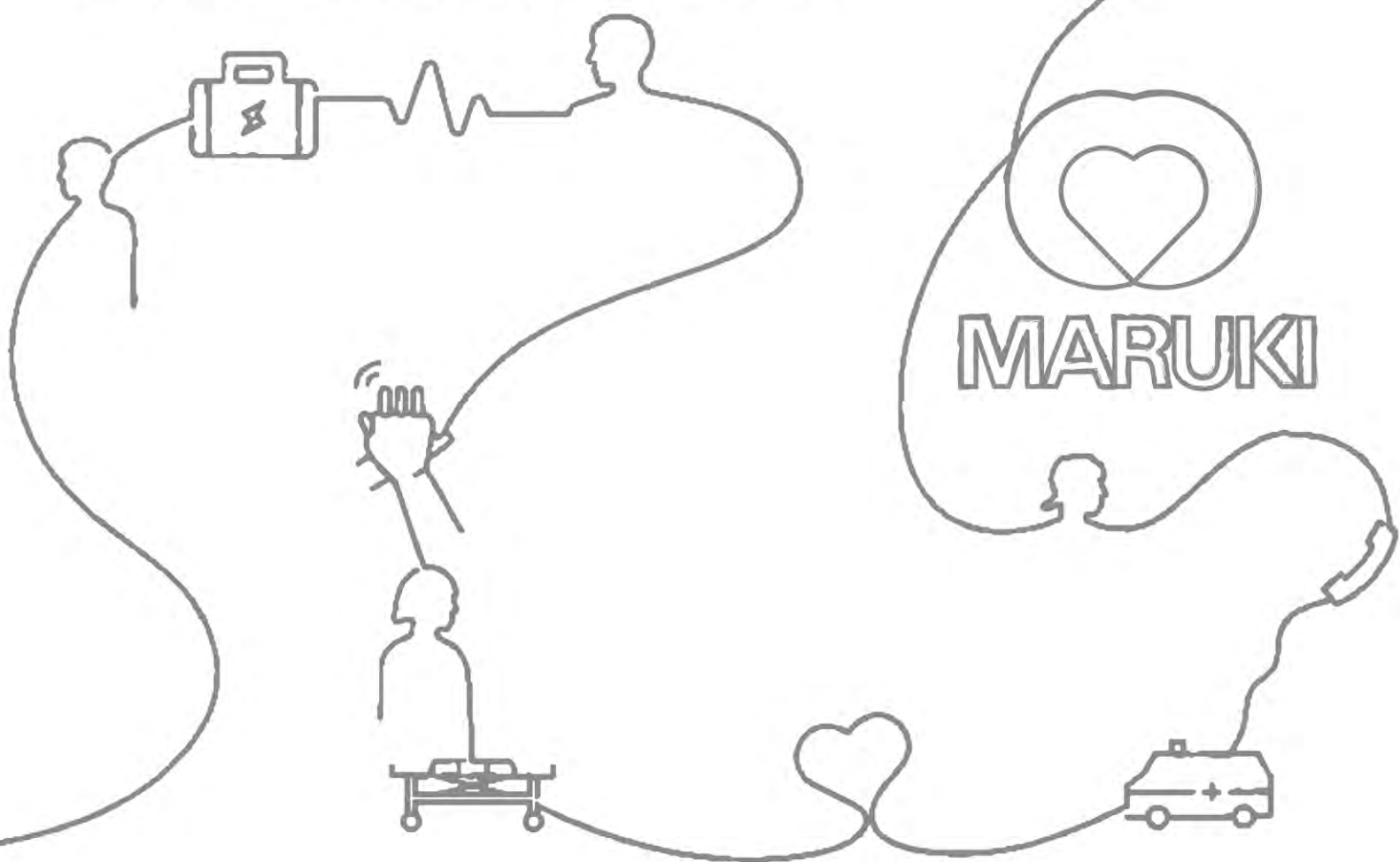
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AtriCure



# Orthopedic treatment of pectus excavatum

**The Eckart Klobe Vacuum Bell** commonly does overcome the resistance of the bones and cartilages in a pectus excavatum.

However, a straight posture requires the muscular work of the patient.

## **Suggested physical exercises:**

### **Exercise 1:**

The Back Bridge

This exercise provides a specific training for the muscles required for an upright posture and for the following exercise 2.

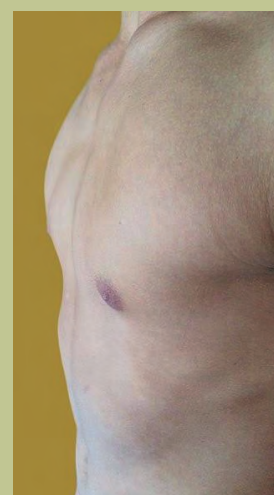


### **Exercise 2:**

Start with the position of a straight posture (!) and arch the upper part of the ribcage forwards as far as possible. Continue to breathe normally.

### **Exercise 3 (if necessary):**

Start with the position of an arched upper chest (!) and pull flat any flaring ribs with the abdominal muscles. For approx. 5 seconds at a time. While holding your breath. (Do not intentionally increase the pulmonary pressure!)



**The patient should ask a doctor or physiotherapist whether or under what precautions these physical exercises are suitable for him/her, and how he/she can perform them properly.**

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