



24th ANNUAL CONGRESS OF THE CHEST WALL INTERNATIONAL GROUP
PHOENIX ADVANCED PECTUS COURSE 2024

ORAL ABSTRACT PROGRAM

★ 5-minute presentation & 3 min Q&A

★ 3-minute presentation & 2 min Q&A

The presenting author is in blue bold

Wednesday, October 23, 2024

Abstract Session I - 0915

Moderators: Dr. Carolyn Russell & Dr. Chen Chenghao

- ★ **Utilizing artificial intelligence for the prediction of cardiopulmonary improvement after Pectus Excavatum repair**
Juan M Farina, Kena A Shawwaf, Rawan M Zeineddine, Andrew Saleeb, Dawn Jaroszewski
- ★ **Predicted Peak Oxygen Uptake as a cardiopulmonary function marker: Assessing disease impact in Pectus Excavatum**
Rebeccah L Brown, Raphael Parrado, William Hardie, Adam Powell, Karla Foster, Todd M Jenkins, Victor F Garcia
- ★ **The electrocardiographic manifestations of Pectus Excavatum before and after surgical correction**
Andrew Saleeb, Juan M Farina, Mohamed R Aly, Michael M Botros, Dawn Jaroszewski
- ★ **The effect of atrioventricular groove compression on cardiopulmonary function in patients with Pectus Excavatum**
Rebeccah L Brown, Robert Fleck, Molly Carroll, Adam Powell, William Hardie, Karla Foster, Michael Taylor, Victor F Garcia
- ★ **Multidisciplinary assessment of standard low dose versus ultra-low dose chest CT scans for Pectus Excavatum imaging**
Charles T Hehman, Shelby Aughtman, Turaj Vazifedan, Robert Obermeyer, Michael Goretsky
- ★ **Impaired right ventricular remodeling and function as assessed by cardiac MRI in adolescents with Pectus Excavatum**
Sabrina Leong, Mustafa Kabeer, Jacqueline Hurley, Sunil Kamath, Pierangelo Renella

Abstract Session II - 1634

Moderators: *Dr. Laurin Titze & Dr. Gerda Zijp*

- ★ **Revision after prior failed Pectus Excavatum repair: higher risks and greater complications than primary surgery**
Andrew Saleeb, Kenan A Shawwaf, Mohamed R Aly, Michael M Botros, Ryan Seyed Moosavi, Rawan M Zeineddine, Jesse Lackey, Juan M Farina, Dawn Jaroszewski
- ★ **Does Pectus Carinatum cause dysfunction of exercise physiology?**
Christopher MR Satur, Ian Cliff, Nick Watson
- ★ **Improving Quality of Life with Dynamic Compression Bracing in Patients with Pectus Carinatum**
Hendrik van Braak, Sjoerd de Beer, LW Ernest van Heurn, Justin R de Jong
- ★ **Defining the optimal annual institutional case volume for minimally invasive repair of Pectus Excavatum: An evidence-based approach**
Jean Daemen, Inez Cortenraad, Michael Kawczynski, Lori van Roozendaal, Karel WE Hulsewe, Yvonne LJ Vissers, Samuel Heuts, Eric de Loos
- ★ **Parks bridging bar Pectus system: Techniques to optimize functional and aesthetic results in 52 cases**
John DiFiore
- ★ **Sternal elevation in Pectus Excavatum repair: Unilateral vs bilateral frame crane system**
Elise van Polen, Nicky Janssen, Nadine A Coorens, Jean Daemen, Aimee JPM Franssen, Karel WE Hulsewe, Yvonne LJ Vissers, Eric de Loos
- ★ **Surgical treatment and outcomes of Pectus Arcuatum**
Rawan Zeineddine, Juan M Farina, Kenan A Shawwaf, Andrew Saleeb, Dawn Jaroszewski
- ★ **Safety protocol for bar removal after the Nuss procedure Analysis of results after 5 years of implementation**
Joaquin Pedro Camacho, Carolina Korzin, Pablo Andres Lobos, Marcelo Mauricio Urquizo, Gaston Ricardo Elmo
- ★ **Surgical Repair of Pectus Arcuatum: Long-Term Results**
Tunc Lacin, Esra Yamansavci Sirzai, Nezhir Onur Ermerak, Haktan Uygur Onen
- ★ **Minimally invasive repair of Pectus Excavatum in adult patients: lessons learned in 63 cases**
Daniela Sanjurjo, Matias Nicolas, Luzia Toselli, Alejandro Carmona, Facundo Giacosa, Gaston Bellia-Munzon

Thursday, October 24, 2024

Abstract Session III - 1300

Moderators: Dr. Joel Dunning & Dr. Jeffrey Zitsman

- ★ **3D scanning as a comprehensive assessment tool in management of Pectus Carinatum: Report of 267 patients**
Juan Facundo Giacosa, Luzia Toselli, Daniela Sanjurjo, Gaston Bellia-Munzon, Marcelo Martinez-Ferro
- ★ **Eight years of expertise with the sandwich technique for asymmetric Pectus Carinatum and Excavatum-Carinatum complex**
Laura Garcia Martinez, Luzia Toselli, Gaston Ricardo Elmo, Ana Lain Fernandez, Daniela Sanjurjo, Manuel Lopez-Paredes, Gaston Bellia-Munzon
- ★ **Surgical management of Pectus Excavatum and Carinatum in Australia: A descriptive analysis of the Medicare Benefits Schedule database 2000 -2024**
Milena Simic, Katie Russell, Bruce G Currie
- ★ **Chest wall reconstruction utilizing OviTex® Reinforced Tissue Matrix: Early single centre experience**
Hanan Hemead, James Barr, James DC Bedford, Eustace Fontaine
- ★ **Nitinol clip and mesh repair of visceral herniation through intercostal muscle defects**
Pieter van Huijstee, Jelle Arie Nieuwstraten
- ★ **Precision surgery: Navigating thoracic wall tumor removal with advanced planning and intraoperative guidance**
Joaquin Pedro Camacho, Lucas Ritacco, Pedro Andres Lobos, Marcelo Mauricio Urquizo, Gaston Ricardo Elmo
- ★ **Vacuum bell therapy for Pectus Excavatum: Retrospective analysis of 1578 patient**
Nezih Onur Ermerak, Aleyna Guctekin, Tunc Lacin, Mustafa Yuksel
- ★ **Determination of nutritional status and evaluation of the effect of telenutrition on body image in patients with Pectus Excavatum**
Sevde Kahraman, **Hasan Ersoz**, Mehmet Ozgur Kuzdan, Emine Sayici, Reyhan Mirza, Hatice Sena Ozgenc

Friday, October 25, 2024

Abstract Session IV - 0852

Moderators: Dr. Sungsoo Lee & Dr. Jae-O Bae

- ★ **Can chronic pain after Minimal Invasive Repair of Pectus Excavatum (MIRPE) be caused by low grade infection?**
Pieter Van Huijstee, Jesse Romsom, Gerda Zijp
- ★ **Postoperative analgesia after minimally invasive repair of Pectus Excavatum; A systematic review and network meta-analysis**
Elise van Polen, Jean Daemen, Chiel J Franssen, Austin Isabella, Aimee JPM Franssen, Karel WE Hulsewe, Yvonne LJ Vissers, Eric de Loos
- ★ **Cryoanalgesia in patients undergoing surgical stabilization of rib fractures: a comparative study**
Matias Nicolas, Alejandro Carmona, Luzia Toselli, Gaston Bellia-Munzon
- ★ **Preliminary results of intercostal nerve cryoablation versus thoracic epidural analgesia for minimally Invasive Nuss Repair of Pectus Excavatum: A randomized clinical trial (ICE-trial)**
Elise van Polen, Jean Daemen, Nicky Janssen, Aimee Franssen, Karel WE Hulsewe, Yvonne LJ Vissers, Eric de Loos
- ★ **An easier way to determine where to put multiple bars in Pectus Excavatum repair: The "No-brainer" XI Bar approach at 6-5-4 intercostal spaces**
Hyung Joo Park, Gongmin Rim, Kwanyong Hyun, Seung Keun Yoon
- ★ **Do cardiac and pulmonary volumes regain their capacity after Pectus Excavatum repair? A volumetric measurement study**
Gongmin Rim, **Kwanyong Hyun**, Seung Keun Yoon, Hyung Joo Park
- ★ **Use of percutaneous cryoanalgesia in pain management after open repair of pectus deformities: A preliminary report**
Mateusz Ciopinski, Anna Szumowska, Michat Marciniak, Krzysztof Bogucki, Piotr Kalicinski
- ★ **First report of enduring cardiac decompression assessed with MRI after bar removal in Pectus Excavatum patients**
Luzia Toselli, Maxroxia Vallee, Gaston Rodriguez-Granillo, Daniela Sanjurjo, Gaston Ricardo Elmo, Gaston Bellia-Munzon, Marcelo Martinez-Ferro

- ★ **Early bar removal after MIRPE: Indications, outcome and recurrence in a multicenter international retrospective study**
Stephan Rohleder, Luisa Maria Frankenbach, Evgenij Werner, Tunc Lacin, Mustafa Yuksel, Nezhir Onur Emerak
- ★ **Upper sternal cleft associated with congenital heart defect - single stage surgical correction**
Pavol Omanik, Marek Nothart, Pavel Valentik, Fadi Sabateen, Matej Nosal, Babala Jozef

Abstract Session V - 1241

Moderators: Dr. Nezhir Onur Ermerak & Dr. Benjamin Padilla

- ★ **Analysis of the clinical presentation pattern of scoliosis associated with funnel chest**
Chen Chenghao, Tian Chen, Qi Zeng, Na Zhang, Jie Yu, Dong Yan, Changqi Xu, Dingyi Liu, Qian Zhang, Xu Zhang
- ★ **Proposal of a new semi-automated volumetric thoracic index for the evaluation of severity in Pectus Excavatum**
Rosella Tro, Martini Simona, Nicola Stagnaro, Virginia Sambuceti, Michele Torre, Marco Massimo Fato
- ★ **Does a high Haller Index impact outcomes in Pectus Excavatum repairs**
Rawan M Zeineddine, Kenan A Shawwaf, Juan M Farina, Mohamed R Aly, Dawn Jaroszewski
- ★ **Beyond the Chest: A novel approach to assess cardiovascular strain in Pectus Excavatum patients**
Rosella Tro, Daniele Randazzo, Nicola Stagnaro, Michele Torre, Marco Massimo Fato
- ★ **Efficacy of the Nuss procedure in patients with asymmetric Pectus Excavatum**
Kaito Yano, Kyohei Masai, Yu Okubo, Kaoru Kaseda, Tomoyuki Hishida, Keisuke Asakura
- ★ **Alternative treatment of Pectus Excavatum - the method of choice?**
Rustem Yakubovich Hayaliev, Viktor Markushin, Sodikjon Abdusalomov, Sharif Rakhimiy
- ★ **An early drop in pressure does not correlate with a higher success rate in Pectus Carinatum patients using a dynamic compression system**
Cecilia Gigena, **Luzia Toselli**, Maxroxia Vallee, Daniela Sanjurjo, Gaston Bellia-Munzon

- ★ **Life threatening spontaneous pneumothorax after Pectus Excavatum repair due to buffalo chest: Are congenital blebs an underestimated risk factor?**
Michele Torre₁, Marco Agamennone, Lena Federica, Vittorio Guerriero
- ★ **Thoracoscopic intercostal nerve thermal radiofrequency ablation (INTRA) for postoperative pain relief after the Nuss procedure. Is it safe and effective?**
Sadashige Uemura, Tatsuo Nakaoka,
- ★ **Vacuum bell therapy for Pectus Excavatum: Long-term experience at a single center**
Shelby Aughtman₁, Robert Obermeyer, Michael Goretsky, Jamie Golden, Charles T Hehman
- ★ **Importance of immediate postoperative pneumothorax after MIRPE**
Sungsoo Lee

Abstract Session VI - 1432

Moderators: Dr. John DiFiore & Dr. Mark Molitor

- ★ **15 years of vacuum bell therapy for pectus excavatum: long-term outcomes and influencing factors**
Hendrik van Braak₁, Sjoerd de Beer, Youssef al Ghouch, Sander Zwaveling, Matthijs WN Oomen, LW Ernest van Heurn, & Justin R de Jong
- ★ **Clinical study and genetic analysis of patients with chest wall deformities associated with Marfan syndrome and Loeys-Dietz syndrome**
Jie Yu, Qi Zeng, Chenghao Chen, Nan Zhang, Jiao Jinghua
- ★ **Just a Number: Haller Index does not correlate with severity of Pectus Excavatum symptoms and impact on quality of life**
Madelyn McArthur, Gheed Murtadi, Kelly Bartkus, Rachael Cohen, Donna Koo, Megan Zaiyi Chiu, Farokh Demehri
- ★ **PurePectus Bars: Learning Curve**
Kristin Rassam, Mark Molitor, David Notrica, Craig Egan, Jae-O Bae, Ramin Jamshidi, Benjamin Padilla, Anthony Ferrantella, James Prieto, Lisa McMahon
- ★ **Results of vacuum therapy in Pectus Excavatum patients**
Esra Yamansavci Sirzai₁, Tunc Lacin, Nezih Onur Ermerak, Necati Citak, Ahmet Ucvet
- ★ **Effect of vacuum bell therapy on subcutaneous fat of chest wall in patients with Pectus Excavatum**
Qian Zhang, Qi Zeng, Chen Chenghao, Na Zhang, Jie Yu

- ★ **Innovative surgical repair of severe Pectus Carinatum using 3d surgical planning and advanced rib fixation techniques**
Christopher Clinker, Rami M Shorti, Jack Scaife, David Notrica, Thomas W White, [Katie Russell](#)

My Nightmares - 1522

Moderators: Dr. Hyung Joo Park & Dr. Dawn Jaroszewski

★ *8-minute presentation & 4 min Q&A*

- ★ **Pulmonary mucormycosis eroding the chest wall: Reports of a rare case and challenges in management**
[Joshi Mohit Kumar](#), Rajinder Parshad
- ★ **Disaster preparedness: Getting ready for potential cardiac injury during MIRPE in a patient with previous sternotomy**
[Matias Nicolas](#), Alejandro Carmona, Juan Carlos Climente, Luzia Toselli, Daniela Sunjurjo, Gaston Bellia-Munzon
- ★ **My Biobridge nightmare**
[Dawn Jaroszewski](#)
- ★ **The Sternum Strikes Back! – Hammock stitching to the rescue for a rigid sternum**
[Megan Zaiyi Chiu](#), Donna Koo, Tom Jaksic, Farokh Demehri
- ★ **A year of pain: Painfulness after initial Nuss**
[Jeffrey Zitsman](#)