

*Chest Wall Injury Summit*  
Salt Lake City, Utah  
Thursday, April 11 – Saturday, April 13, 2024

**Wednesday, April 10, 2024**

Wednesday Evening
<p>Our 2024 CWIS Collaborative Centers dinner is open to any attendees of the CWISummit who are part of a designated CWIS Collaborative Center. We will be the process &amp; criteria, upcoming research projects, program best practices, and more!</p> <p>This experience will be enjoyed at <a href="#">Monarca Restaurant</a>, the premier modern Mexican dining experience running from 1800 – 2100.</p> <p>Tickets can be purchase as part of your course registration process or online here: <a href="https://square.link/u/Q518XhCV">https://square.link/u/Q518XhCV</a></p>

**Thursday, April 11, 2024**

Time	Activity
0700	Registration opens
0800	Welcome Back Breakfast <i>All participants</i>
0900	Welcome <i>Thomas W. White, MD, FACS, CNSC</i>
0915 (0.50)	Donald Trunkey Keynote Address: The Pioneering Spirit <i>Matthew Wirthlin, Esq</i> <i>Introduction: Jacob M. Sowby</i>
0945 (0.25)	Transitions #1 <i>Zachary D. Warriner, MD, FACS</i>
1000	Break
1015 (0.75)	Bone Science <i>Moderated by Peter A. Cole, MD, FAOA</i>
	How Do Concepts of Stress & Strain Impact Fracture Healing? <i>Robert D. Wojahn, MD</i>
	Why and How Does Rib Nonunion Treatment Differ from Fracture Treatment? <i>David Weatherby, MD</i>
	Frail vs Healthy Bone and Implications for Treatment <i>Thomas C. Githens, DO</i>
1100 (0.25)	William B Long III Award Presentation and Recipient Remarks
1115 (0.50)	William B Long III Award Recipient Lecture <i>Jose J. Diaz, MD, FACS</i>
1145	Working Lunch and Industry Dry Lab Event

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1300 <b>(0.75)</b>	Poster Walk-about
1345 <b>(1.25)</b>	Frankenplating <i>Moderator: Kurt Martinson, MD, FACS; Coordinator: Indraneel Brahme, MD</i>
1500	Break
1515 <b>(1.00)</b>	<p>Work Groups</p> <ul style="list-style-type: none"> <li>• Program Building <ul style="list-style-type: none"> <li>○ Ronald I. Gross, MD, FACS</li> <li>○ Feroze Sidhwa, MD, MPH, FACS</li> <li>○ John C. Mayberry, MD, FACS</li> </ul> </li> <li>• Optimizing APC Integration <ul style="list-style-type: none"> <li>○ Emily Cantrell, MD, FACS</li> <li>○ Natalie Mukherjee, AGACNP-BC</li> <li>○ T. Russell Hill, PA-C</li> </ul> </li> <li>• Economics: Billing, CBA, ICD-10 codes <ul style="list-style-type: none"> <li>○ Ledford Powell, MD, FACS, FCCP, MBA</li> <li>○ William DeVoe, MD, FACS</li> <li>○ Timothy Pohlman, MD, FACS</li> <li>○ Thomas W. White, MD, FACS, CNSC</li> </ul> </li> <li>• Slipped Rib &amp; Hypermobility Syndrome <ul style="list-style-type: none"> <li>○ Stefan Schulz-Drost, MD, PhD, FEBS</li> <li>○ Mario G. Gasparri, MD, FACS</li> <li>○ Adam Hansen, MD, FACS</li> </ul> </li> <li>• Non-operative Management <ul style="list-style-type: none"> <li>○ Bhavik Patel, MBBS, MS (General Surgery), M.Phil(Research), FRACS, FACS</li> <li>○ Patrick Greiffenstein, MD, FACS</li> <li>○ Amanda Waite, MSN, ACNP</li> </ul> </li> <li>• Costal Margin Repair <ul style="list-style-type: none"> <li>○ Evert A. Eriksson, MD, FACS, FCCM, FCCP</li> <li>○ Joseph D. Forrester, MD, MSc, FAWM, FACS</li> <li>○ Bradley Faliks, MD</li> </ul> </li> <li>• Length of Stay Research <ul style="list-style-type: none"> <li>○ Zachary M. Bauman, DO, MHA, FACOS, FACS</li> <li>○ Mark A. Kryskow, DO</li> <li>○ Jeremy Hsu, MBBS (Hons), FACS, FRACS</li> </ul> </li> <li>• TREX 2.0 <ul style="list-style-type: none"> <li>○ Gregory Semon, DO, FACS, FACOS</li> <li>○ Andrea Hufford, DO, FACS, FACOS</li> <li>○ Kyle Schmitt, MD</li> </ul> </li> </ul>
1615	Return to Ballroom from Work Groups
1630 <b>(0.25)</b>	Transitions #2 <i>Cecilia Benz, MD</i>
1645 <b>(0.25)</b>	Review of day
5:00 PM	Adjourn
	CWISociety Business Meeting & Happy Hour Starting at 1715   Ending at 1845 <i>Open to all members and prospective members</i>



OPTIMIZING THE OPERATIVE AND NON-OPERATIVE CARE  
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**Friday, April 12, 2024**

0630	Breakfast and Registration
0650	Welcome <i>Andrew R. Doben, MD, FACS</i>
(1.25)	Scientific Session #1 <i>Moderators: Emily Cantrell, MD, FACS; Paul Bjordahl, MD, FACS</i>
0700	Anatomy of the Interchondral Joints and the Effects on Mobility of Ribs in the Lower Rib Cage <i>Presenter: TBA</i> <i>Discussant: Don H. Van Boerum, MD, FACS</i>
0712	Excision of Dislocated Anterior Bridging Costal Cartilage for Relief of Noncardiac Precordial Chest Pain <i>Presenter: TBA</i> <i>Discussant: Mathieu Wijffels, MD, PhD</i>
0724	Outpatient practice patterns of follow-up imaging and management for patients with chest wall injury <i>Presenter: TBA</i> <i>Discussant: Jonathan Nguyen, DO</i>
0736	Radiographic Rib Fracture Nonunion and Association with Fracture Classification in Adults with Multiple Rib Fractures Without Flail Segment: A multicenter prospective cohort study <i>Presenter: TBA</i> <i>Discussant: Benjamin C. Taylor, MD, FACS</i>
0748	Rib Healing and Heterotopic Ossification (HO) after Surgical Stabilization of Rib Fractures (SSRF) <i>Presenter: TBA</i> <i>Discussant: Eva-Corina Caragounis, MD, PhD</i>
0800	Surgical Management of Costal Margin Rupture Associated with Intercostal Hernia: Evolution of techniques <i>Presenter: TBA</i> <i>Discussant: Lisa McMahon, MD</i>
0812	CPR Related Injuries of the Chest Wall – Direct and Indirect Fractures <i>Presenter: TBA</i> <i>Discussant: Yu-Hui (Jessie) Yang, MD</i>
0824	Break



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(1.50)	<p>Scientific Session #2 <i>Moderators: Sebastian D. Schubl, MD, FACS; Tareq Khierbek, MD, FACS</i></p>
0836	<p>Comparison of the opioid sparing effects of thoracic epidural catheters versus continuous peripheral infusion of ketamine or lidocaine in management of traumatic rib fracture pain <i>Presenter: TBA</i> <i>Discussant: Feroze Sidhwa, MD, MPH, FACS</i></p>
0848	<p>Epidemiology of symptomatic non-union / malunion rib fractures <i>Presenter: TBA</i> <i>Discussant: Mary Langcake, FRACS, FACS</i></p>
0900	<p>Operative Treatment of Acute Unstable Chest Wall Injuries Does Not Reduce In-Hospital Opioid Requirements or Pain – Results from A Multi Centered Randomized Controlled Trial <i>Presenter: TBA</i> <i>Discussant: Raul Coimbra, MD, PhD, FACS</i></p>
0912	<p>Ouch, that hurts!! Are we adequately assessing rib fracture pain for hospitalized patients? <i>Presenter: TBA</i> <i>Discussant: Mark A. Kryskow, DO</i></p>
0924	<p>Platelet Rich Plasma Enhances Rib Fracture Strength and Callus Formation In Vivo <i>Presenter: TBA</i> <i>Discussant: Kristen T. Carter, MD, MS</i></p>
0936	<p>Smoked Ribs: Retrospective Review of Discharge Disposition in Patients with Comorbidities and Rib Fractures <i>Presenter: TBA</i> <i>Discussant: Timothy H. Pohlman, MD, FACS</i></p>
0948	<p>Emergency on Site Thoracostomy in Polytrauma Patients: A Prehospital Challenge <i>Presenter: TBA</i> <i>Discussant: John M. Green, MD, FACS</i></p>
1000	Break



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(1.50)	<b>Scientific Session #3</b> <i>Moderators: D. Benjamin Christie, III, MD, FACS; David S. Morris, MD, FACS</i>
1012	<b>PEEK-A-BOO: An Early Analysis of Polyether Ether Ketone (PEEK) Plates for the Surgical Stabilization of Rib Fractures</b> <i>Presenter: TBA</i> <i>Discussant: Richard Miskimins, MD</i>
1024	<b>Comparison of Patients Who Meet Criteria for Surgical Stabilization of Rib Fractures Versus Those Who Actually Get Rib Fixation: A single center review</b> <i>Presenter: TBA</i> <i>Discussant: Sean Dieffenbaugher, MD, FACS</i>
1036	<b>Dedicated Chest Wall Injury Quality Review: How to Incorporate a Parallel Quality and Safety Program for SSRF</b> <i>Presenter: TBA</i> <i>Discussant: Lawrence Lottenberg, MD, FACS</i>
1048	<b>Long-term Functional Recovery after Rib Fractures: The Impact of Frailty</b> <i>Presenter: TBA</i> <i>Discussant: Brian D. Kim, MD, FACS</i>
1100	<b>Patient Reported Outcomes of Surgical Stabilization of Rib Fractures Utilizing an Electronic Platform Outside of Clinic Follow-up</b> <i>Presenter: TBA</i> <i>Discussant: Susan D. Kartiko, MD, PhD, FACS</i>
1112	<b>Prospective Follow-up of Operative Technique for Chest Wall Injuries</b> <i>Presenter: TBA</i> <i>Discussant: Jose J. Diaz, MD, FACS</i>
1124	<b>What About Function? An Introduction to a Novel Rib Fracture Functional Assessment Tool to Guide Operative Decision Making in Patients with Chest Wall Injury</b> <i>Presenter: TBA</i> <i>Discussant: Alicia Privette, MD</i>
1136	Adjourn

<b>Friday Afternoon Activity Options</b> (Registration for these activities will open soon)	
Skiing at Snowbird, <a href="http://www.snowbird.com">www.snowbird.com</a> <ul style="list-style-type: none"> <li>- Half-day group tickets will be available</li> <li>- Transportation will be provided</li> </ul>	
Tour of the Church of Jesus Christ of Latter-day Saints <a href="#">Church History Museum</a> and <a href="#">Conference Center</a>	
Visit the <a href="#">Natural History Museum of Utah</a> <ul style="list-style-type: none"> <li>- Group tickets will be available</li> <li>- Transportation will be provided</li> </ul>	
<i>Email CWIS for a list of additional options nearby the hotel including shopping, spas, food, and more!</i>	



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0745	Breakfast & Registration
0815	Welcome <i>Babak Sarani, MD, FACS, FCCM</i>
0830 (0.50)	Presidential Address <i>Andrew R. Doben, MD, FACS</i> <i>Introduction by Christian T. Minshall, MD</i>
(0.75)	Scientific Session #4 <i>Moderators: Jamie Tung, MD, FACS; Carl R. Hanson, DO</i>
0900	Effects of Post Rib Plating Tube Thoracostomy Output on the Need for Thoracic Re-Intervention: Does the Volume Matter? <i>Presenter: TBA</i> <i>Discussant: Adam J. Kaye, MD, MHA, FACS</i>
0912	IL2RA as a Key Biomarker in Predicting Pulmonary Complications Following Rib Fractures <i>Presenter: TBA</i> <i>Discussant: Bradley W. Thomas, MD, FACS</i>
0924	Maximal Barrier Precautions Implementation for Traumatic Chest tube Placement Does Not Decrease Empyema Occurrence <i>Presenter: TBA</i> <i>Discussant: Michael Ditillo, DO, FACS</i>
0936	T-REX: Thoracostomy for Removal of EXcess fluid <i>Presenter: TBA</i> <i>Discussant: Erik O. Westin, MD</i>
0948	When More is More: Utilizing finite element analysis to assess chest wall injury stability after surgical stabilization of all rib fractures versus only a portion of the rib fractures <i>Presenter: TBA</i> <i>Discussant: Alexander L. Colonna, MD, MSCI, FACS</i>
1000 (0.25)	Transitions #3 <i>Ceri Battle, PhD (via video recording)</i>
1015	Break



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1030 (0.50)	Scope & Review of Follow-up Practice & discussion <i>Joseph D. Forrester, MD, MSc, FAWM, FACS</i>
1100 (0.25)	EAST/CWIS Rib Fixation in Elderly Adults PMG <i>Kaushik Mukherjee, MD, MSCI, FACS</i>
1115 (0.25)	EAST/CWIS Hemothorax CCP <i>Susan D. Kartiko, MD, PhD, FACS</i>
1130 (1.00)	CWIS Strategic Plan – 30” CWIS Town Hall: Current and Future Issues? – 30” <i>Andrew R. Doben, MD, FACS; Babak Sarani, MD, FACS, FCCM; Fredric Pieracci, MD, MPH, FACS; Thomas W. White, MD, FACS, CNSC; Zachary M. Bauman, DO, MHA, FACOS, FACS; Zachary D. Warriner, MD, FACS</i>
1230	Lunch
1330 (0.25)	Transitions #4 <i>Richard Lesperance, MD, FACS</i>
1345 (0.50)	CWIS – KLS Martin Resident Research Fellowship in Chest Wall Injury Outcomes Award 2023 Research Project Review: <i>Brittany Levy, MD</i> 2024 Research Award Presentation: <i>Stephen Bordes, MD</i>
1415 (0.50)	APC Panel <i>Moderator: Amanda Waite, MSN, ACNP</i> <i>Panelists: Ya-Chen Lee, MS, ACNP-BC, Scott C. Gardner, PA-C, MSc</i>
1445 (0.50)	Work Group Presentations (3 minutes per group)
1515	Break
1530 (0.25)	Transitions #5 <i>Ronald I. Gross, MD, FACS</i>
1545	Awards Presentation <i>CWISummit Program Committee</i>
1600	Presidential Transfer <i>Andrew R. Doben, MD, FACS &amp; Babak Sarani, MD, FACS, FCCM</i>
1615	Closing Remarks <i>Thomas W. White, MD, FACS, CNSC</i>
1630	Adjourn

<b>Saturday Evening</b>	
Saturday Evening Celebration – Join CWIS at our Garden Gala Send-off from 1800 – 2100 at the Gallivan Center in downtown Salt Lake City. We will enjoy food, fun, music, and more!	
Tickets can be purchase as part of your course registration process or online here: <a href="https://square.link/u/hLc6C1Zi">https://square.link/u/hLc6C1Zi</a>	