

Scientific Abstracts

from the 48th Annual Regional Anesthesiology and Acute Pain Medicine Meeting
April 20–22, 2023
Hollywood, Florida

Acute Pain	
3977	Association Between Postoperative Methocarbamol and Postoperative Pain Opioid Dose Requirements: A Retrospective Cohort Study Ryu Komatsu, Laurent Bollag <i>Cleveland Clinic, Cleveland, OH</i>
3982	Pericapsular Nerve Group Block Versus Fascia Iliaca Compartment Block for Hip Surgery: Systematic Review and Meta-Analysis of Rcts Priscila Andrade, Rafael Lombardi, Isabela Marques, Ana Carla Braga, Beatrice Isaias, Nicholas Heiser <i>University of Nebraska Medical Center, Omaha, NE</i>
3992	Intraoperative Methadone in Cardiothoracic Surgery Travis Hiles, Christine Tafoya, Cole Lawson, Melanie Smith, Justin VanMeeteren <i>Anesthesia Associates of Kansas City, Kansas City, MO</i>
4004	A Retrospective Review of Opioid Prescribing Practices for At-Risk Pediatric Populations Undergoing Ambulatory Surgery Sterling Lee, Ashley Reid, Suhong Tong, Lori Silveira, James Thomas, Melissa Masaracchia <i>Northwell Cohen Children's Medical Center, Queens, NY</i>
4005	Evolution of Postoperative Care: Reduction of Opioid Consumption When Erac Pathway Added to Wound Soaker for Cesarean Delivery Melissa Masaracchia, Michael Zaretsky, Pan Zhaoxing, Wenru Zhou, Franklin Chow, Cristina Wood <i>Northwell Cohen Children's Medical Center, Queens, NY</i>
4006	Ketamine Infusions and Bladder Complications Parthik Patel, Steven Porter, Peter Amato, Donald Elmer, Mark Pressler, Federico Jimenez-Ruiz, Yashas Reddy, Eric Shwenk <i>Thomas Jefferson University Hospital, Philadelphia, PA</i>
4025	Effect of Timing of Postoperative Adductor Canal Block on Opioid Consumption Following Unilateral Total Knee Arthroplasty Sarah Momin, Shahbaz Saad, Emily Garmon, Kirby Hitt, Michael Fettiplace, Courtney Shaver, Michael Hofkamp <i>Baylor Scott & White Medical Center-Temple, Round Rock, TX</i>
4036	Adductor Canal Block Versus Femoral Canal Block for Total Knee Arthroplasty: A Meta-Analysis of Randomized Controlled Trials Zhimin Tan, Qian Li <i>West China Hospital of Medicine: Sichuan University West China Hospital, Chengdu, China</i>
4091	Relative Effects of Various Factors on Ice Ball Formation and Ablation Zone During Ultrasound-Guided Percutaneous Cryoneurolysis Engy Said, Seth Fischer, Brennan Marsh-Amstrong, Preetham Suresh, Matt Swisher, Andrea Trescot, J. David Prologo, Baharin Abdullah, Brian Ilfeld <i>University of California San Diego Health, La Jolla, CA</i>
4095	Retrospective Analysis of Combined Regional Anesthesia Techniques for Perioperative Pain Control in Open Gynecological Procedures Kelly Kaneshiro, Mauricio Hernandez, David Cho, Filmon Mehanzel <i>Harbor UCLA Medical Center, Torrance, CA</i>
4128	A Modern Multimodal Pain Protocol Eliminates the Need for Opioids for Most Patients Following Total Knee Arthroplasty Leland van Deventer, Peter Yager, Matthew Bennett, Amy Bronstone, Claudia Leonardi, Vinod Dasa <i>Louisiana State University Health Sciences Center New Orleans School of Medicine, New Orleans, LA</i>
4129	Evaluating the Safety of Thoracic Epidurals for Postoperative Pain Management in Patients With Hepatic Artery Infusion Pumps James Maher, Arun Ganesh, Sydney Record, Ian Welsby, Michael Lidsky <i>Duke University Medical Center, Durham, NC</i>
4147	Pre-Emptive Opioid Dosing to Prevent Rebound Pain After Interscalene Block for Shoulder Arthroscopy: A Randomized Controlled Trial Vishal Uppal, Garrett Barry, Janny Xue Chen Ke, Kwesi Kwofie, Andrew Trenholm, Moin Khan, Aaron Shephard, Susanne Retter, Harsha Shanthanna <i>Dalhousie University, Halifax, NS, Canada</i>

4150	Impact of a Comprehensive Anesthesia Service Driven Perioperative Pain Service in Microsurgical Breast Reconstruction Seth Fischer, Iris Chu, Matthew Swisher, Jacklynn Sztain, Erin Martin, Wendy Abramson, Minhthy Meineke, Timothy Furnish, Rachel Segal, Rodney Gabriel, Christopher Reid, Engy Said <i>University of California San Diego Health, La Jolla, CA</i>
4152	The Value of the Pain Medicine Specialist in Development of a Comprehensive Eras Pathway for Spine Surgery Lane Crawford, Letha Mathews, Daniel Larach, Jennifer Jayaram <i>Vanderbilt University Medical Center, Nashville, TN</i>
4155	The Association of Genetic Variants With Postsurgical Pain: A Systematic Review and Meta-Analyses Stephan Frangakis, Mark MacEachern, T Adam Akbar, Christian Bolton, Victor Lin, Albert Smith, Chad Brummett, Mark Bicket <i>University of Michigan, Ann Arbor, MI</i>
4162	Do Peripheral Nerve Blocks Delay the Diagnosis of Acute Compartment Syndrome in Tibial Plateau Fractures? A Retrospective Review Nicole Premo, Shadi Messiah, Dimitrios Kampouris, Meena Kanhai, Richa Wardhan <i>University of Florida, Gainesville, FL</i>
4177	Sustained-Release Opioid for Acute Pain Management Following Open Abdominal Urologic Surgeries: A Randomized, Controlled Trial Vivian Ip, Dylan Hollman, Gaurav Sidhu, Adrian Fairey, Niels-Erik Jacobsen <i>University of Alberta, Edmonton, AB, Canada</i>
4182	The Impact of Subfascial Wound Drain on Acute and Persistent Pain in Adolescents After Posterior Spinal Fusion - a Randomized Trial Linda Helenius, Paul Gerdhem, Matti Ahonen, Johanna Syvänen, Ilkka Helenius <i>Turku University Hospital, Turku, Finland</i>
4212	Intrathecal Morphine vs Intraoperative Methadone as Part of Enhanced Recovery After Cardiac Surgery: A Retrospective, Cohort Study Luca La Colla, Daniel R Lavage, Maria Nanez, Kathirvel Subramaniam, Charles Luke <i>University of Pittsburgh Medical Center, Pittsburgh, PA</i>
4227	Effectiveness of an Opioid Avoidance Protocol for Postoperative Pain Control in Liver Transplant Patients Andrew Ta, Valentina Valle, Maya Campara, Jamie Benken, John Parker, Robert Fruin, Katharina Beckmann, Pierpaolo Di Cocco, Mario Spaggiari, Ivo Tzvetanov, Effrossyni Votta-Velis, Enrico Benedetti <i>University of Illinois Hospital, Chicago, IL</i>
4237	Efficacy of Usg Guided Pecto-Intercostal Fascial Plane Block in Patients of Midline Sternotomy: Randomized Prospective Study Chetna Shamsbery, Sanjay Dhiraaj <i>Sanjay Gandhi Post Graduate Institute Of Medical Sciences, Lucknow, Uttar Pradesh, India</i>
4253	A Retrospective Cohort Study of Perioperative Acute Pain Management in Patients Undergoing Bariatric Surgery in a Single Center Sinead Campbell, Rachel WY Chin, Wai Man Liu, Patti Kastanias, Ki Jinn Chin <i>Toronto Western Hospital, University Health Network, Toronto, ON, Canada</i>
4254	Intrathecal Morphine for Postoperative Analgesia Following Gender Affirming Pelvic Surgery: A Retrospective Case-Control Study Matthew Swisher, Seth Fischer, Isabella Dolendo, Jacklynn Sztain, Brenton Alexander, Paige Tsuda, Jennifer Anger, Engy Said <i>University of California San Diego, La Jolla, CA</i>
4260	Orally Administered Ketamine and Postoperative Opioid Use in Colorectal Surgery: A Retrospective Cohort Study Aria Lucchesi, Eric Silverman <i>Albany Medical Center, Albany, NY</i>
4261	The Association of Preoperative Opioid Use and Patient Outcomes Stephan Frangakis, Vidhya Gunaseelan, Yenling (Anny) Lai, Bethany Kavalakatt, Mark Bicket <i>University of Michigan, Ann Arbor, MI</i>
4262	Indication of Nanotechnology to Decrease Postoperative Pain Following Primary Total Knee Replacement Jacques Chelly, Mike O'Malley, Brian A Klatt, Yram Groff, Dan Varonin, Connor Gilleland, Sylvia Hsing-Hua Lin, Senthilkumar Sadhasivam <i>University of Pittsburgh, Pittsburgh, PA</i>
4274	Surgical Site Infection Prophylaxis for Lumbar Spine Surgery: An Updated Review Joshua Falescky, David Maduram <i>Quinnipiac University, Bridgeport, CT</i>
4329	A Unique Multimodal Pain Management Regimen Reduces Opioid Use in Adolescent Spinal Deformity Surgery Reid Collis, Tonia Dry, Herman Ray, Nina Grundlingh, Gilbert Chan, Timothy Oswald <i>Wellstar Health System, Marietta, GA</i>
4353	Liposomal Bupivacaine Transversus Abdominis Plane Block On Opioid Prescription at Discharge After Laparoscopic Donor Nephrectomy Obiyo Osuchukwu, Marizela Savic, Carson Brown, Juan Palma-Vargas, Patrick Hackett <i>Maine Medical Center, Portland, ME</i>

4359	Bibliometric Analysis of The Top 100 Most-Cited Papers in Acute Pain, Perioperative Pain, and Postoperative Pain From 2000 To 2022 Julia F. Reichel, Miriam Sheetz, Marko Popovic, Pa Thor, Alex Illescas, Justas Lauzadis <i>Hospital for Special Surgery, New York, NY</i>
4369	Recorded Patient Pain Scores After Total Joint Replacement Surgery: Does Patients' Primary Spoken Language Make A Difference? Diego Arevalo, Jashvant Poeran, Nicole Zubizarreta, Samuel DeMaria, Garrett W Burnett, Chang Park, Darwin Chen, Brett L Hayden, Calin S. Moucha <i>Icahn School of Medicine at Mount Sinai, New York, NY</i>
4370	Intrathecal Morphine for Postoperative Analgesia in Pediatric Ureteral Reimplantation Patients: A Retrospective Chart Review James West, Natalie Barnett <i>Medical University of South Carolina, Charleston, SC</i>
4388	Observational Study To Map Pain Trajectories Following Fragility Hip Fracture Christina M. Goehl, Katherine S. Becker, Paul Potnuru, Johanna Blair de Haan, Michelle Ge, Sudipta Sen, Norberto Avila, Mengjie Wu, Stephen Warner, Nadia Hernandez <i>McGovern Medical School at UTHealth Houston, Houston, TX</i>
4398	Rct of Ketamine in Mastectomy: Differential Analgesic Efficacy Based On A Qst-Based Measure of Preoperative Central Sensitization Sheila Gokul, Jenna Wilson, Kelsey Flowers, Carin Colebaugh, Angelina Franqueiro, Robert Edwards, Kristin Schreiber <i>Brigham and Women's Hospital, Boston, MA</i>
4399	Optimal Intrathecal Morphine Dose for Retroperitoneal Lymph Node Dissection: A Retrospective Study Johnathan Brenia, Yar Yeap <i>Indiana University School of Medicine, Indianapolis, IN</i>
4460	Analyzing the Effect of Timing of Vertebral Augmentation On Pain Outcomes Reza Ehsanian, Jimmy To, Eugene Koshkin, Timothy Petersen, Aldo Berti, William Rivers, Danielle Sorte <i>University of New Mexico, Albuquerque, NM</i>
Case Series	
3989	Comparison of Adductor Canal Block with and Vs Subartorial Space Block in Primary Total Knee Arthroplasty: A Case Series Arezoo Rajaei, Vendham Ramanujam, Mark Kendall, Chanbinj Lee <i>Brown University, Rhode Island Hospital, Anesthesia department, Providence, RI</i>
4219	Practical Use of Erector Spinae Plane Blocks at a Thoracic Spinal Level for Postoperative Pain in Breast Cancer Surgical Patients Corinne Gibson, Vijay Sinha, Arvind Chandrashekar <i>University of Tennessee Health Science Center, Memphis, TN</i>
4245	Selective Injection of Nerves for Hip Analgesia (Sinha) Block: A Case Series Sean Collins, Sanjay Sinha, Ann Marie Surette, Maureen Helgren <i>Saint Francis Hospital and Medical Center, Hartford, CT</i>
4291	The Use of External Oblique Intercostal Nerve Block for Post-Operative Pain Control in Patients Undergoing Radical Nephrectomy Daniel Mattimore, Eman Nada <i>Stony Brook University Hospital, Stony Brook, NY</i>
4421	Stellate Ganglion Blockade as A Bridge To Surgical Sympathectomy – A Case Series Zachary McHenry, Richard Bryant, Geoffrey Thomas, Clayton Busch, Shana Schwartz <i>Ohio State University Medical Center, Columbus, OH</i>
4459	Unilateral Continuous External Oblique Intercostal (Eoi) Block for Nephrectomies Pain Management Nour El Hage Chehade, Hussein Taleb, Sree Kolli <i>Cleveland Clinic Foundation, Cleveland, OH</i>
Chronic Pain	
4033	Pain Relief After Sacroiliac Joint Injection Andre Marangoni Asperti, Sadaf Mirkarimi, Andrew Dang, Ratan Banik <i>University of Minnesota, Minneapolis, MN</i>
4034	Oxtr Gene Modulation With Usg Guided Transversalis Fascia Plane Block for Chronic Persistent Postsurgical Pain Following Caesarean Diksha Gaur, Geetanjali Chilkoti, Ashok Saxena <i>UCMS & GTBH, Delhi, India</i>
4037	Ultrasound Vs Fluoroscopic Tesi, What Do We Know So Far? Monica Sandu <i>County Hospital Ilfov, Romania</i>
4056	Lifestyle Factors and Long-Term Survival in Patients With Chronic Non-Cancer Pain: A Nationwide Cohort Study in South Korea Tak Kyu Oh, Soo Lyoen Choi <i>Seoul National University Bundang, Republic of Korea</i>

4066	Impact of Socioeconomic Status On Treatment Patterns in Patients With Low Back/Neck Pain: A Population-Based Study in South Korea Tak kyu Oh, Soo Iyoen Choi <i>Seoul National University Bundang Hospital, Seongnam-si, Gyeonggi-do, Republic of Korea</i>
4119	Cervical Medial Branch Radiofrequency Neurotomy in A Patient With Cochlear Implants Joshua Hardy, Matthew Brown, Seth Schwartz, Josiah Perez <i>Virginia Mason Medical Center, Seattle, WA</i>
4156	The Feasibility of A Transitional Pain Service in Spine Surgery Patients To Minimize Opioid Use Sarah Tierney, Marie-Claude Magnan, Amin Zahrai, Daniel McIsaac, Patricia Poulin, Alexandra Stratton <i>University of Ottawa - The Ottawa Hospital, Ottawa, ON, Canada</i>
4187	Back Pain and Quality of Life 10 Years After Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis Linda Helenius, Matti Ahonen, Paul Gerdhem, Johanna Syvänen, Ilkka Helenius <i>Turku University Hospital, Turku, Finland</i>
4270	Virtual Transitional Pain Clinic: Early Identification and Intervention of Post-Op Pain Complications Nicole Cornish, Christopher Spevak, Amy Osik <i>Walter Reed National Military Medical Center, Bethesda, MD</i>
4280	Trigger Points Accompanying Lumbar Transforaminal Stenosis: A Hidden Cause of Remaining Pain Post Tfsi Ricky Ju, Leili Shahgholi <i>Burke Rehabilitation Hospital, White Plains, NY</i>
4290	Utilizing Natural Language Processing and Machine Learning To Identify Persistent Opioid Use From Postoperative Surgical Documents Rodney Gabriel, Brian Park, Sierra Simpson <i>University of California San Diego, San Diego, CA</i>
4334	A Medicare Analysis of Access To Spinal Cord Stimulation Therapy Across the United States Aksal Vashi, Nicholas Peterman, Nafisa Mostofa, Cheng-Ting Lee <i>Carle Illinois College of Medicine at the University of Illinois at Urbana-Champaign, Urbana, IL</i>
4343	Chemotherapy for Pain: Reversing Inflammatory and Neuropathic Pain With the Anticancer Agent Mithramycin A Man-Cheung Lee, Mark Schumacher, Zheyun Xu <i>Stanford University, Stanford, CA</i>
4344	Characterizing Chronic Pain and Adverse Childhood Experiences (Aces) in the Lgbtq+ Community Nikita Shirsat, Nicole Finney, Samantha Strutner, Joseph Rinehart, Shalini Shah <i>University of California Irvine School of Medicine, Irvine, CA</i>
4385	Use of Global Assessment Measures in Clinical Trials of Chronic Pain: Action Systematic Review And Considerations Dale Langford, Remington Mark, Fallon France, Mahd Nishtar, Meghan Park, Sonia Sharma, Philip Conaghan, Thomas Schnitzer, Dennis Turk, Robert Dworkin, Jennifer Gewandter <i>Hospital for Special Surgery, New York, NY</i>
4458	Present and Potential Use of Spinal Cord Stimulation To Control Chronic Pain: An Update Russell Bell, Adrian Popescu, Fangyu Chen <i>University of Pennsylvania, Philadelphia, PA</i>
4461	Medial Branch Blocks as Model To Determine Distribution of Nrs Scores in Patients With Axial Spine Pain Reza Ehsanian, Jordan A Buttner, David J Kennedy, Ameet S Nagpal, Jaymin B Patel, Patricia Zheng, Zachary L McCormick, William E Rivers, Byron J Schneider <i>Division of Pain Medicine, Department of Anesthesiology & Critical Care Medicine, University of New Mexico School of Medicine, Albuquerque, NM</i>
4464	Efficacy of 10 Khz Spinal Cord Stimulation: A Non-Industry Sponsored Single-Center Study Comparison To Industry Sponsored Studies Reza Ehsanian, Victor Wu, Radhika Grandhe, Matthew Valeriano, Lia Hoffner, Evan Rivers, Eugene Koshkin <i>University of New Mexico School of Medicine, Albuquerque, NM</i>
4485	Interventional Management Options for Refractory Migraines: Literature Review Sanjana Janumpally, Sai Kamma, Mayank Gupta <i>Kansas City University, Kansas City, MO</i>
Education	
4013	Pilot Study of Fellow-Driven Regional Anesthesiology Curriculum for Medical Students Utilizing the Flipped Classroom Model Max Zhukovsky, Mandip Kalsi, Mary Hargett, Niharika Thakkar <i>Hospital for Special Surgery, New York, NY</i>

4061	Beyond the Block: Development of An Assessment Tool To Evaluate Communication and Interpersonal Skills in Regional Anesthesia Jahnvi Trivedi, Stuart Grant, Fei Chen, Daniel McMillan, Maxwell Jolly, Jennifer Allan, Randall Coombs, Monika Nanda, Robert Isaak, Xinming An, Andres Rojas <i>University of North Carolina at Chapel Hill School of Medicine, Chapel Hill, NC</i>
4099	Nitric Oxide Versus Epoprostenol for Refractory Hypoxemia in Covid-19 Trong Nguyen, Rebecca Kosciak, Shefali Rikhi, Hung-Mo Lin, Poonam Pai B. H. <i>Icahn School of Medicine at Mount Sinai West and Morningside Hospitals, New York, NY</i>
4143	Entering the Medical Metaverse: Residents Feedback On Immersive Reality Learning in Pain Medicine Nicholas Wegener, Kane Pryor, Eric Brumberger, John Rubin, Rohan Jotwani <i>New York Presbyterian-Cornell, New York, NY</i>
4153	An Assessment On the Educational Value of An Usra Cadaver Lab Curriculum for Ra/Apm Fellows Christopher DiMeo, David Kim, Douglas Wetmore, Marko Popovic, George Go, Mary Hargett <i>Hospital for Special Surgery, New York, NY</i>
4204	A Simulation Curriculum in Ultrasound-Guided Subclavian Vein Cannulation Using a Novel 3D Model Sharon Peacock, Jaya Tanwani, Joshua Qua Hiansen, Azad Mashari, Naveed Siddiqui, Cristian Arzola, Alberto Goffi, Sabine Nabecker <i>Mount Sinai Hospital, Sinai Health System, Toronto, ON, Canada</i>
4298	A Stepwise Approach for Point of Care Ultrasound of the Gastric Antrum: A Preliminary Clinical Study of the Rsla Method Brandon Foster, Jeffrey Chen, Carole Lin, Ban Tsui <i>Stanford University School of Medicine, Stanford, CA</i>
4333	Improving Ultrasound Image Interpretation in Regional Anesthesia Residents With An Online Sonoanatomy Learning Platform Kelly Foster, Amy Chen, Erica Gee, Larry Chu, Cynthia Khoo <i>Stanford University/ Stanford Healthcare, Stanford, CA</i>
4391	Quality and Training Metrics for Anesthesiology Residents: A Pilot Study for Regional Anesthesia Skills Development Kevin Lee, Jerry Jones <i>University of Tennessee Health Science Center, Memphis, TN</i>
4440	Development of a Needs Assessment for Point-of-Care Ultrasound Curriculum in Limited Resource Setting Lucia Lee, Erica Tafuro, Swetha Pakala, Niharika Thakkar <i>Hospital for Special Surgery, New York, NY</i>
4454	Incorporating Neuraxial Ultrasound as Part of the Anesthesia Residency Curriculum – a Pilot Study Lei Xu, Jeffrey Chen <i>Stanford University School of Medicine, Stanford, CA</i>
Emerging Technology	
4023	Minimizing Thigh Tourniquet Pressure Using Ultrasound and Color Doppler Analysis of the Superficial Femoral Artery Emily Williamson, Kevin King <i>West Virginia University Department of Anesthesiology, Morgantown, WV</i>
4067	Effect of Flow Rate On Spread of the Injectate in Fascial Plane and Peripheral Nerve Blocks: a Radiologic and Anatomic Assessment Sanjib Adhikary, Blake Wolfe, Kist Madison, Evan Goldman <i>Penn State Milton S. Hershey Medical Center, Hershey, PA</i>
4238	Inception of Robot Technology in Pain Practice Chetna Shamsbery, Anil Agarwal <i>Sanjay Gandhi Post Graduate Institute Of Medical Sciences, Lucknow, Uttar Pradesh, India</i>
4247	A Simple Approach To Improve Inpatient Pain Service Billing Using the Emr Laura Lahaye, Michael Buxhoeveden, Keith May <i>Virginia Commonwealth University Health, Richmond, VA</i>
4266	Perioperative Transthoracic Echocardiography in Patients Undergoing Total Joint Arthroplasty Rutuja Sikachi, Ghislaine Echevarria, Joshua Heller, Meg Rosenblatt, Poonam Pai B.H <i>Icahn School of Medicine at Mount Sinai West and Morningside Hospitals, New York, NY</i>
4276	Gastric Ultrasound as a Risk Assessment Tool in Pediatric Patients Before Surgery Kirti Sahu, Meagan Fuhrmann, Marc Mecoli, Suryakumar Narayanasamy <i>Cincinnati Children's Hospital Medical Center, Cincinnati, OH</i>
4297	Chatgpt Performance Versus Residents On Multiple-Choice Regional and Chronic Pain Assessments Balaji Pandian, Michael Burns, John Rubin, Kane Pryor, Eric Brumberger, Rohan Jotwani <i>New York Presbyterian - Weill Cornell, New York, NY</i>
4465	Utilizing Dynamic Pressure Monitoring To Identify the Thoracic Paravertebral Space: A Technical Report Yatish Ranganath, Qasim Al Hassan, Vendhan Ramanujam, Rakesh Sondekoppam <i>Indiana University School of Medicine, Indianapolis, IN</i>
4482	A Machine Learning Approach To Predicting Postoperative Opioid Use After Outpatient Surgery Dale Norton Bongbong, Brian Park, Soraya Mehdipour, Rodney Gabriel <i>University of California, San Diego, School of Medicine, La Jolla, CA</i>

Regional Anesthesia	
3980	Infraclavicular Versus Costoclavicular Approaches To Ultrasound-Guided Brachial Plexus Block: Review and Meta-Analysis Sara Amaral, Rafael Lombardi, Natalia Drabovski <i>Regional Hospital of Araranguá, Araranguá, Brazil</i>
3981	Proximal Vs Distal Adductor Canal Catheters for Total Knee Arthroplasty: A Systematic Review and Meta-Analysis of Rcts Rafael Lombardi, Isabela Marques, Jasmeen Kaur, Ashish Sakharpe, Nicholas Heiser <i>University of Nebraska Medical Center, Omaha, NE</i>
3984	Paravertebral Catheters and the Need for Removal Prior To Enoxaparin Therapy in Children – a Retrospective Chart Review Study Jacob Pickle, Scott Licata, Mihaela Visoiu <i>Children's Hospital of Pittsburgh, Pittsburgh, PA</i>
3988	Retrospective Analysis of Comorbidities in Patients Receiving Erector Spinae Plane Catheters With Lidocaine Infusions Emily Williamson, Nicole Hollis, Kevin King, Adrian Williamson <i>West Virginia University Department of Anesthesiology, Morgantown, WV</i>
3993	Cryoneurolysis of the Medial and Lateral Antebrachial Cutaneous Nerves for Prolonged Analgesia After Radial Forearm Free Flap Mengjie Wu, Engy Said, Sudipta Sen, Johanna de Haan, Sana Khan, Norberto Avila, Christina Goehl, Nadia Hernandez <i>University of Texas Health at McGovern School of Medicine, Houston, TX</i>
4014	External Oblique Intercostal Fascial Plane Block for Subcostal Surgical Incisions in Major Abdominal Surgeries: A Case Series Kishan Patel, Sindhuja Nimma, Ryan Chadha, Andrew Zganjar, Christopher Robards, Hari Kalagara <i>Mayo Clinic, Jacksonville, FL</i>
4017	Clavicle Fracture Analgesia With Liposomal Bupivacaine Mike Guzman <i>Community Surgery Center East, Indianapolis, IN</i>
4018	A Pilot Study To Counter Blood Pressure Reduction During Epidural Analgesia By Adding Epinephrine To the Epidural Infusion Olga Nin, Nicole Premo, Andre Boezaart, Christopher Giordano, Steven Hughes, Hari Parvataneni, Migueal Angel Reina, Terri Vasilopoulos, Abigail Schirmer <i>University of Florida, Gainesville, FL</i>
4027	Analgesia Following Quadratus Lumborum Block in the Patient Undergoing Robotic Intra-Abdominal Surgery: A Retrospective Review Gabriel Sheena, Jaron Pettis, Cora Ianiro, Sarah Budney, Mitchell Temple, Jeff Burton, Russell Brown, John Bolton, Nathan Bolton <i>Ochsner Clinic Foundation, New Orleans, LA</i>
4030	A Novel Method To Measure Diaphragmatic Motion and Excursion Diogo da Conceicao, Anahi Perlas, Jayanta Chowdhury, Vincent Chan <i>Toronto Western Hospital, Toronto, ON, Canada</i>
4031	Migration Rate of Femoral Triangle Catheters Placed Parallel Versus Perpendicular To the Nerve: A Randomised Controlled Study Takashi Fujino, Takayuki Yoshida, Izumi Kawagoe, Akinori Hinotsume, Tsuyoshi Hiratsuka, Tatsuo Nakamoto <i>Juntendo University School of Medicine, Tokyo, Japan</i>
4041	Infectious Complications Following Regional Anesthesia- Contemporary Estimates of Risk Breethaa Janani Selvamani, Hari Kalagara, Aamil Patel, Honorio Benzon, Samer Narouze, Thomas Volk, Rakesh Sondekoppam <i>University of Iowa Hospitals and Clinics, Iowa City, IA</i>
4050	Comparison of Forearm With Supraclavicular Nerve Blocks for Endoscopic Carpal Tunnel Release Michael Cirullo, Jennifer Potter, Aaron Freilich, Ashley Shilling <i>University of Virginia, Charlottesville, VA</i>
4076	A Novel Regional Anesthesia Technique: the Superficial Parasternal Intercostal Plane Block Arvind Chandrashekar, Zachary Lundby <i>University of Tennessee Health Science Center, Memphis, TN</i>
4085	Clavipectoral Fascia Block Associated With Superficial Cervical Plexus Block in Clavicle Surgery: A Randomized Clinical Trial Diogo da Conceicao, Jorge Soares Garcia, Joaquim Edson Vieira <i>Governador Celso Ramos Hospital, Florianopolis, Brazil</i>
4089	Ultrasound Guided Costoclavicular Block in Pediatric Population: A Prospective Observational Study Ashwin M, Kanil Ranjith, Renu Sinha, Sukriti Jha, Debesh Bhoi, Nishant Patel <i>All India Institute of Medical Sciences, New Delhi, India</i>
4098	Unilateral Ultrasound-Guided Subcostal Transversus Abdominis Plane Block in Patients Undergoing Laparoscopic Sleeve Gastrectomy Dat Pham, Garrett Burnett, Ying Ye, Catherine Zhang, Chang Park, Elisha Dickstein, Christina Jeng <i>Icahn School of Medicine at Mount Sinai, New York, NY</i>
4107	Transient Neurological Symptoms in Holmium Laser Enucleation of the Prostate Patients Receiving 1.5% Mepivacaine Spinal Anesthesia Asaf Gans, Kishan Patel, Hari Kalagara, Steven Porter, Chandler Dora <i>Mayo Clinic, Jacksonville, FL</i>

4108	Thoracic Erector Spinae Plane Catheter Analgesia in Bilateral Lung Transplant With Ongoing Extracorporeal Membrane Oxygenation Keleka Blair, Roland Flores, Jason Podolnick <i>University of Colorado, Aurora, CO</i>
4110	Neurological Complications After Peripheral Nerve Blocks and the Effect of Ultrasound Guidance: Contemporary Estimates of Risk Ethan Lemke, Matthew Behrens, David Johnston, Brie McConnell, Melinda Seering, Tejinder Singh Swaran Singh, Rakesh Sondekoppam Vijayashankar <i>University of Iowa Hospitals and Clinics, Iowa City, IA</i>
4114	Single Dose Lidocaine Spinals and Incidence of Transient Neurologic Symptoms Emily Chen, Jeffrey Gadsden <i>Duke University Medical Center, Durham, NC</i>
4115	Incidence of Delirium in Patients Receiving Midazolam as Sedation for Nerve Block Procedures Perioperatively Bryan Ray, Jeffrey Gadsden <i>Duke University Medical Center, Durham, NC</i>
4116	Needle-Through-Needle: A Novel Approach To the Placement of Erector Spinae Plane Block Continuous Catheters Laura Lahaye, Doug Arno, Keith May, Matthew Torre <i>Virginia Commonwealth University Health, Richmond, VA</i>
4117	Local Anesthetic Dosing and Toxicity of Truncal Catheters: A Systematic Review and Regression Analysis Michael Fettiplace, Lana Joudeh, Brittani Bungart <i>Massachusetts General Hospital, Boston, MA</i>
4123	Safety and Efficacy of Sympathetic Blockade By Proximal Intercostal Nerve Block in Patients With Electrical Storm Erica Seligson, Uyanga Batnyam, David Janfaza, Brahim Redouane, Victor Nauffall, Usha Tedrow, Kamen Vlassakov <i>Brigham and Women's Hospital, Boston, MA</i>
4126	Comparison of Rectus Sheath Blocks With Liposomal Bupivacaine Versus Epidural Analgesia in Patients Undergoing Radical Cystectomy Ivy Co, Hector Martinez-Wilson <i>Duke University, Durham, NC</i>
4133	Subsartorial Approach To the Adductor Canal and the Risk of Injury To the Nerve To Vastus Medialis Emily Barney Hall, Maggie Holtz, Jeff Gonzales, Mark Hamilton, Gary Schwartz, Roy Winston, Jeff Gadsden <i>Duke University Medical Center, Durham, NC</i>
4148	Analgesic Efficacy of Fascial Plane Blocks for Midline Laparotomy: A Network Meta-Analysis of Randomized Controlled Trials Garrett Barry, Herman Sehmbi, Susanne Retter, Jonathan Bailey, Rose Tablante, Vishal Uppal <i>Dalhousie University, Halifax, NS, Canada</i>
4161	Efficacy of Continuous Adductor Canal Blocks After Discharge From Hospital in Patients Undergoing Primary Total Knee Arthroplasty Jose Chu Luo, Shane Barre, Anwar Alinani, Vraj Shah, Bethany Fink, Dennis Warfield, Sanjib Adhikary <i>The Penn State Milton S. Hershey Medical Center, Hershey, PA</i>
4173	Introduction of An Enhanced Recovery After Cardiac Surgery (Eracs) Program at 2 Tertiary Hospitals: A Retrospective, Cohort Study Luca La Colla, Daniel R Lavage, S. Zach Frabitore, Kathir Subramaniam, Charles Luke <i>University of Pittsburgh Medical Center, Pittsburgh, PA</i>
4183	Mev90 of 2% Lignocaine With Epinephrine and 0.5% Levobupivacaine for Ultrasound-Guided Selective Trunk Block: A Quantal Bioassay Ranjith Kumar Sivakumar, Manoj Kumar Karmakar, Rosinni SL Wong, Winnie Samy <i>The Chinese University of Hong Kong, Shatin, New Territories, Hong Kong S.A.R</i>
4185	High Volume Genicular Blocks Spread Circumferentially Around the Femur and Potentially Eliminate the Need for Ipack Joshua Pyant, Jeremy Armbruster, James Krakowski, Monika Nanda, Jennifer Allan, Sally Stander, Jay Schoenherr, Daniel Mcmillan, Jeffrey Gadsden, Joshua Dooley, Stuart Grant, Andres Rojas <i>University of North Carolina Hospitals, Chapel Hill, NC</i>
4193	Does the Impact of Peripheral Nerve Blocks Vary By Age And Comorbidity Subgroups? A Nationwide Population-Based Study Haoyan Zhong, Marko Popovic, Jashvant Poeran, Crispiana Cozowicz, Alex Illescas, Jiabin Liu, Stavros G Memtsoudis <i>Hospital for Special Surgery, New York, NY</i>
4195	Infectious Complications Following Regional Anesthesia: A Systematic Review of Case Reports Aamil Patel, Hari Kalagara, Breetha Selvamani, Honorio Benzon, Samer Narouze, Thomas Volk, Rakesh Sondekoppam <i>University of Iowa School of Medicine, Department of Anesthesia, Iowa City, IA</i>
4196	Gender, Racial and Ethnic Representation in Regional Anesthesiology Clinical Trials: A Systematic Review From 2010 To 2020 Uchenna O. Umeh, Shivani Mehta, David Kozuch, Caeley Gullett, Navdeep Singh, Bridget Jivanelli, Lisa Doan <i>Hospital for Special Surgery, New York, NY</i>
4197	Multimodal Analgesia Versus Interscalene Nerve Block for Arthroscopic Shoulder Surgery Steven Orebaugh, Erin Cisney, Miriam Oren <i>University of Pittsburgh Medical Center, Pittsburgh, PA</i>

4203	Quality of Recovery After Peri-Capsular Nerve Group (Peng) Block for Primary Total Hip Arthroplasty Under Spinal Anesthesia Promil Kukreja, Vishal Uppal, Alexander Kofskey, Joel Feinstein, Theresa Nothern, Camille Davis, Charity Morgan, Hari Kalagara <i>University of Alabama-Birmingham Anesthesiology Residency Program, Birmingham, AL</i>
4213	Single Shot Erector Spinae Nerve Blocks for Patients Undergoing Pleuroscopy With Pleurodesis Shireen Nouri, Eric An, Reza Ronaghi, Natale Naim, Pamela Chia, Tristan Gorgan <i>University of California, Los Angeles, CA</i>
4224	Improved Outcomes for Spinal Versus General Anesthesia for Hip Fracture Surgery: A Propensity-Score Matched Analysis of the Nsqip Nicolas Salvatierra, Eliana Weinstein, Jacob Lurie, Richard Boyer, Tiffany Tedore, Robert White, Roniel Weinberg <i>New York Presbyterian - Weill Cornell Medical Center, New York, NY</i>
4229	Real-Time Ultrasound-Guided Spinal Anesthesia: Comparison of Transverse Interspinous and Paramedian Sagittal Oblique Approach Manoj Kumar Karmakar, Ranjith Kumar Sivakumar, Pornpatra Areeruk, Winnie Samy <i>The Chinese University of Hong Kong, Shatin, New Territories, Hong Kong S.A.R</i>
4239	Optimal Time of Iv Dexamethasone Administration for Prolongation of Peripheral Nerve Block – a Preliminary Analysis Michael Busser, Anahi Perlas, Anthony Short, Ariel Grass, Jayanta Chowdhury, Ki Jinn Chin, Vincent Chan <i>University Hospital Network, Toronto, ON, Canada</i>
4246	Ultrasound-Guided Endothoracic Fascial Plane Block for Severe Acute Pain From Tube Thoracostomy Site Norberto Avila, Lauren Nakazawa, Daniel Shoham, Nadia Hernandez, Mengjie “Mellisa” Wu, Christina Goehl, Johanna Blair deHaan <i>University of Texas Health Science Center - McGovern Medical School, Houston, TX</i>
4249	The Impact of Multimodal Analgesia in Coronary Artery Bypass Graft Surgery: A Population-Based Analysis Crispina Cozowicz, Haoyan Zhong, Jashvant Poeran, Alex Illescas, Jiabin Liu, Lazaros Poultsides, Vassilis Athanassoglou, Stavros Mentsoudis <i>Hospital for Special Surgery, New York, NY</i>
4257	The Impact of Sugammadex and Neostigmine On Postoperative Outcome in Total Joint Arthroplasty Surgery Crispina Cozowicz, Haoyan Zhong, Jashvant Poeran, Alex Illescas, Jiabin Liu, Lazaros Poultsides, Vassilis Athanassoglou, Stavros Mentsoudis <i>Hospital for Special Surgery, New York, NY</i>
4258	Midcab (Mid-Calf Block) for Foot and Ankle Surgery: A Pilot Study Marko Popovic, Alex Illescas, Pa Thor, Jacques YaDeau, Constantine Demetrapoulos, Scott Ellis, Vincent LaSala, Matthew Roberts, Anne H. Johnson, Mark Drakos, Enrique Goytizolo <i>Hospital for Special Surgery, New York, NY</i>
4259	Combined Erector Spinae Plane Block and Intercostal Nerve Cryoablation Reduces Opioid Use and Length of Stay After Nuss Procedure Paola Aranda-Valderrama, Robert S. Greenberg, Tricia M. Vecchione, Samuel M. Vanderhoek <i>The Johns Hopkins University School of Medicine, Baltimore, MD</i>
4267	Fascial Plane Blocks Are Not Associated With Decreased Length of Stay Or Opioid Use for Open Colon Surgery Within An Eras Program Stephanie Sutter, Cynthia Campbell, Mubarika Alavi, Edward Yap, Jonathan Khersonsky <i>University of California, San Francisco, CA</i>
4268	Serratus Anterior and Parasternal Intercostal Block: A Cadaveric Study To Evaluate Combined Utility in Breast Surgery William Newmarch, Vivienne Hang, Kody Wolfstadt, Christopher Hansebout, Anne Agur, Karen Boretzky, Timothy Wilson, Abhijit Biswas <i>Western University, London, ON, Canada</i>
4271	The Interaction of Race and Insurance in Outpatient Total Hip Replacements: Analgesic, Patient, and Hospital Level Considerations Christina Chen, GaYoung Park, Ryan McDevitt, Karthik Raghunathan, Vijay Krishnamoorthy, Steve Melton, Stephen Klein, Michael Kent <i>Duke University School of Medicine, Durham, NC</i>
4272	Parasternal Intercostal Plane Block as Perioperative Analgesia in Cardiac Surgery: A Systematic Review and Meta-Analysis Heitor Jose Silva Medeiros, Amanda Cyntia Lima Fonseca Rodrigues, A. Sassan Sabouri <i>Hospital Universitario Onofre Lopes, Natal, Rio Grande do Norte, Brazil</i>
4279	Characterizing Transversus Abdominus and Lateral Quadratus Lumborum Fascial Plane Blocks Through Lidocaine Serum Concentration Jeffrey Chen, Ban Tsui, Ksenia Kasimova, Jonathan Thein <i>Stanford University, Stanford, CA</i>
4283	Use of Pericapsular Nerve Block (Peng) in Total Hip Arthroplasty-A Systematic Review and Meta-Analysis Elizabeth Luebbert, Yan Lai, Ghislaine C. Echevarria, Poonam Pai <i>Mount Sinai West- Morningside Hospitals, New York, NY</i>
4284	Retrospective Matched Case-Control Study of Use of Single Shot Erector Spinae Block On Pain Outcomes After Vats in Children Meaghan Fuhrmann, Hana Mahmoud, Kirti Sahu, Vidya Chidambaran, Suryakumar Narayanasamy <i>Cincinnati Children’s Hospital Medical Center, Cincinnati, OH</i>

4285	Don't Blame the Block: Retrospective Review of First Case Delay Reporting Accuracy Kelsey Kukuruzza, Ophelie Constant, Jean-Louis Horn <i>Stanford University, Stanford, CA</i>
4287	Administering Neuraxial Anesthesia in a "Block Room": Effects On Patient Satisfaction Richard Nadj, Rikesh Raichura, Agnes Crnic, Patrick Wong <i>The Ottawa General Hospital, Ottawa, ON, Canada</i>
4289	Utility of Peripheral Nerve Block in Lower Extremity Amputation Samuel Onyewu, Philip Effraim, David Yanev <i>University of Maryland, School of Medicine, Baltimore City, MD</i>
4305	Evaluation of the Hanging Column Technique for Thoracic Epidural Placement Michael Cole, Keith May, Jay Napoleon <i>The University of Tennessee Health Center, Knoxville, TN</i>
4311	Paravertebral and Erector Spinae Plane Blocks Decrease Length of Stay Compared To Infiltration in Autologous Breast Reconstruction Haripriya Ayyala, Melissa Assel, Joe Aloise, Joanna Serafin, Meghana Mehta, Evan Matros, Emily Lin <i>Memorial Sloan Kettering Cancer Center, New York, NY</i>
4314	Erector Spinae Catheter Migration Determined By Computed Tomography in Patients With Traumatic Rib Fractures Charbel Barrak, Patrick Forrest, Derek Rizzo, Carlos E. Guerra-Londono <i>Henry Ford Hospital, Detroit, MI</i>
4317	General Anesthesia Versus Regional Anesthesia for Hip Fracture Surgery in Elderly Patients: Systematic Review and Meta-Analysis Isadora Salomao, Rafael Ferreira, Sara Amaral, Matheus de Deus, Vanessa Carvalho, Isabela Marques, Rafael Lombardi <i>University of Nebraska Medical Center, Omaha, NE</i>
4327	Continuous Fascia Iliaca Catheters for Donor Site Pain in Burn Surgery: A Retrospective Review of 44 Patients Deepthi Penta, Usha Saldanha, Snehal Raut, Amy Chen, Soman Sen <i>University of California, Davis, Sacramento, CA</i>
4338	Using the Simple Bony Landmark of the Anterior Tubercle of C4 Produces Reliable Deep Cervical Plexus Block: A Cadaveric Dye Study Michael Savilla, Stuart Grant, Andres Rojas, Jeremy Armbruster, Daniel McMillan, Sally Stander, Jennifer Allan, Ty Bullard, Harendra Arora, Monika Nanda <i>University of North Carolina, Chapel Hill, NC</i>
4341	Impact of Race & Socioeconomic Factors On Readmission After Total Knee and Total Hip Arthroplasty: A Retrospective Study Joshua Sadik, Theodora Wingert, Tristan Grogan, Pamela Chia <i>University of California, Los Angeles, CA</i>
4350	Comparative Outcomes After Knee Arthroscopy Under Chloroprocaine Vs. Mepivacaine Spinals: A Retrospective Study Abigail Kerson, Elaine Yang, Sarah Ortolan <i>Hospital for Special Surgery, New York, NY</i>
4362	What Is It Like To Get Blocked? How Psychosocial and Psychophysical Pain Profiles Impact the Peripheral Nerve Block Experience Yun-Yun Chen, Philipp Lirk, K. Mikayla Flowers, Carin Colebaugh, Angelina Franqueiro, Jenna Wilson, Kamen Vlassakov, Jose Zeballos, Kristin Schreiber <i>Brigham and Women's Hospital, Boston, MA</i>
4365	Systematic Review: Evidence for the Use of Ultrasound Imaging in Pediatric Regional Anesthesia Steven Abboud, Ban C.H. Tsui <i>Stanford University, Palo Alto, CA</i>
4376	Safety of a Single Nerve Block in Patients Receiving An Extended-Release Formulation of Bupivacaine and Meloxicam Shiv K Goel, Ann Miller-Burke, Charles Luke, Carley Siedlecki, Brian Tuttle, Jeff Smoulder, Dennis Schilling, Jacques E Chelly <i>University of Pittsburgh, Pittsburgh, PA</i>
4377	Liposomal Bupivacaine Via Sciatic Nerve Block After Bunionectomy: A Randomized, Double-Blind, Active-Controlled, Phase 3 Trial Gary Schwartz, Jeff Gadsden, Jeff Gonzales, Jacob Hutchins, Jia Song, O'Dane Brady, Mary DiGiorgi, Roy Winston <i>Maimonides Medical Center, Brooklyn, NY</i>
4379	Enhanced Recovery After Surgery Utilization Among Various Racial Populations -- a Retrospective Cohort Trend Analysis Michael Reynolds, Haoyan Zhong, Christopher Wu, Alex Illescas, Crispiana Cozowicz, Jashvant Poeran, Stavros Memtsoudis, Jiabin Lu <i>Hospital for Special Surgery, New York, NY</i>
4381	Liposomal Bupivacaine Via Adductor Canal Block After Total Knee Arthroplasty: A Randomized, Double-Blind, Phase 3 Trial Jeff Gadsden, Mark Hamilton, Gary Schwartz, Jeff Gonzales, Jacob Hutchins, Partha Saha, Jia Song, Mary DiGiorgi, Roy Winston <i>Maimonides Medical Center, Brooklyn, NY</i>
4400	Mid-Femoral Triangle Block: Interfascial Injection Between Vastus Intermedius And Sartorius (Visa) Plane Block Ann-Marie Surette, Maureen Helgren, Robert Petrillo, Louisa Darko, Daniel Arce <i>Saint Francis Hospital and Medical Center, Hartford, CT</i>

4401	Comparison of Postoperative Analgesia From Preoperative Taps With Liposomal Vs. Plain Bupivacaine for Diep Flap Reconstruction Tara Notarianni, John-Paul Pozek, Marion Gillcrist, Niaman Nazir <i>University of Kansas, Kansas City, KS</i>
4408	Anesthesia Practice Among Joint Arthroplasty Patients With a Previous Lumbar Spine Surgery Alex Illescas, Haoyan Zhong, Jiabin Liu, Crispiana Cozowicz, Jashvant Poeran, Stavros Memtsoudis <i>Hospital for Special Surgery, New York, NY</i>
4411	Staged Versus Simultaneous Cervical and Lumbar Fusions: A Nationwide Comparative Study Alex Illescas, Jashvant Poeran, Haoyan Zhong, Crispiana Cozowicz, Federico Girardi, Stavros Memtsoudis, Jiabin Liu <i>Hospital for Special Surgery, New York, NY</i>
4412	Analgesic Efficacy of Ipack Block On Recovery After Total Knee Arthroplasty: A Randomized, Double-Blinded Study Andrew Kolomensky, Gregg Dexter, Anthony Xu, Elliot Schwartz, Jonathan Hausman, Tony Chiang, Brian Mendelson, Shawn Coleman, Andrew Spitzer, Jun Tang <i>Cedars-Sinai Medical Center, Los Angeles, CA</i>
4430	Re-Dosing of Truncal Catheters: An Exploratory Analysis Brittani Bungart, Lana Joudeh, Michael Fettiplace <i>Massachusetts General Hospital, Boston, MA</i>
4432	Evaluation of Isafe Approach for Placement of Adductor Canal Catheter Using Sonographic Assessment Tural Alekberli, Hermann dos Santos Fernandes, Naved Siddiqui, Sharon Peacock, Jesse Wolfstadt, John Matelsky, Yehoshua Gleicher <i>Mount Sinai Hospital, University of Toronto, Toronto, ON, Canada</i>
4433	Intrarticular Local Anesthetic for Arthroscopic Knee Surgery: “The Knee Block” Keith May, Phillip Cato, Logan Patton <i>The University of Tennessee Health System, Knoxville, TN</i>
4449	Covid-19 as a Market Accelerator for Outpatient Total Hip Replacement: Changes To Patient, Hospital, and Analgesic Characteristics Christina Chen, GaYoung Park, Ryan McDevitt, Karthik Raghunathan, Vijay Krishnamoorthy, Steve Melton, Stephen Klein, Michael Kent <i>Duke University School of Medicine, Durham, NC</i>
4469	A Retrospective Chart Review Into Unexpected Removal of Regional Block Catheters Prior To Intended Treatment Duration Jeffrey Mimbs, Ryan Clevenger, Blake Winston, Andrew Pham, Allan Parr, Bryan Lynn, Malcolm Magovern, Jonathan Cohen, Michael Libsack, Ben Kravis, Hunter Douglas, Jenna Ransom, Katherine Cox, Peter Foldes <i>Tulane University School of Medicine, New Orleans, LA</i>
4470	Severe Hiccups Following Interscalene Catheter Placement for Reverse Total Shoulder Arthroplasty Otto Thomas, Hayk Manuk-Hakobyan, Gabriel Pollock, Michael Kissen <i>Cedars-Sinai Medical Center, Los Angeles, CA</i>
4477	Paravertebral Block for Analgesia Following Excision of Osteochondroma of the Scapula - a Case Report Deepthi Penta, Usha Saldanha <i>University of California, Davis, Sacramento, CA</i>
4478	Opioid-Sparing Effects of Suprazygomatic Maxillary Nerve Blocks for Pediatric Adenotonsillectomy: A Randomized Control Trial Veronica Zoghbi, Carole Lin, Steven Abboud, Ksenia Kasimova, Jonathan Thein, Stephanie Pan, Kara Meister, Doug Sidell, Karthik Balakrishnan, Ban C.H. Tsui <i>Lucile Packard Children’s Hospital at Stanford, Stanford, CA</i>
4481	Electrical Stimulation Pattern With Erector Spinae Plane and Quadratus Lumborum Plane Catheters Merrick Tan, Jean-Louis Horn, Ban Tsui, Jeffrey Chen, Jan Boublik <i>Stanford University, Stanford, CA</i>