

Michael Vitale, M.D., MPH

Curriculum Vitae

OFFICE ADDRESS Morgan Stanley Children's Hospital of New- York Presbyterian
Columbia University Medical Center
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<http://pediatric scoliosissurgery.com/>

DATE OF PREPARATION September 2019

HOME ADDRESS 34 North Brook Lane, Irvington, New York 10533
DATE OF BIRTH November 4th, 1967
PLACE OF BIRTH New York, New York
CITIZENSHIP USA

ACADEMIC TRAINING

August 1985-May 1989 Trinity College, Hartford, CT
B.S., Biology /Psychology Double Major
Honors Thesis: *Developmental Interactions between the Dopamine and Opioid System*
August 1989-May 1995 M.D., Columbia University College of Physicians and Surgeons, Columbia College, New York, New York
August 1989-May 1995 M.P.H., Columbia University School of Public Health, New York, New York
Concentration in Outcome Studies

POSTDOCTORAL TRAINING

August 1994-August 2000 *Post-Doctoral Orthopaedic Research Fellow*, Columbia University Medical Center, New York, New York
August 1995-August 1996 *Internship*, General Surgery, Columbia University Medical Center, New York, New York
August 1996-August 2000 *Resident*, Department of Orthopaedic Surgery, Columbia University Medical Center, New York, New York
August 2000-August 2001 *Fellow*, Pediatric Orthopaedic Surgery, The Children's Hospital of Los Angeles under Vernon Tolo, MD

LICENSURE

June 30, 1989-Present New York State Medical License #203658-1
April 24, 2007-Present Connecticut State Medical License #045315

BOARD CERTIFICATION

July 11, 2003 American Board of Orthopaedic Surgery

PROFESSIONAL ORGANIZATIONS AND SOCIETIES

1998-Present American Academy of Orthopaedic Surgery
2002-Present Society of Practitioners of the Columbia Presbyterian Medical Society
2002-Present Association of Children's Prosthetic Orthotic Clinics
2003-Present Pediatric Orthopaedic Society of North America (POSNA)
2003-Present Pediatric Orthopaedic Club of New York
2003-Present Brooklyn Orthopaedic Society
2004-Present American Academy of Pediatrics
2005-Present Orthopaedics Today Editorial Board
2005-Present Scoliosis Research Society
2007-Present American Orthopaedic Association
2007-Present New York State Orthopaedic Society

2007-Present	Limb Lengthening and Reconstruction Society
2010-Present	Health Volunteers Overseas
2012-Present	International Pediatric Orthopedic Think Tank (IPOTT)
2016-Present	Academy of Clinical Excellence (Columbia University College of Physicians and Surgeons)
2017-Present	C4K Board of Directors (Crutches for Kids)
2017-Present	SP3

ACADEMIC APPOINTMENTS

January 2011-Present	Ana Lucia Professor of Pediatric Orthopaedic Surgery <i>Columbia University, College of Physicians and Surgeons</i>
September 2007- December 2010	Ana Lucia Associate Professor of Pediatric Orthopaedic Surgery <i>Columbia University, College of Physicians and Surgeons</i>
August 2002- September 2005	Herbert Irving Assistant Professor of Orthopaedic Surgery <i>Columbia University, College of Physicians and Surgeons</i>
August 2001-September 2007	Assistant Professor Orthopaedic Surgery <i>Columbia University, College of Physicians and Surgeons</i>
September 2000- September 2008	Director, Division of Pediatric Outcomes <i>Responsibilities Include: Supervision of full time Research Support Staff, Coordination of Research Activities between the Department of Orthopaedic Surgery and InCHOIR, Organization of Visiting Speakers, Grant Writing, and Data Analysis</i>

HOSPITAL APPOINTMENTS

March 2006-Present	Chief, Pediatric Spine and Scoliosis Surgery <i>Morgan Stanley Children's Hospital of New York Presbyterian</i>
July 2013-Present	Co- Director, Division of Pediatric Orthopaedics <i>Morgan Stanley Children's Hospital of New York Presbyterian</i>
June 2008-Present	Associate Chief, Division of Pediatric Orthopaedics <i>Morgan Stanley Children's Hospital of New York Presbyterian</i>
July 2013-Present	Medical Director, MSCH Initiative to Make Care Better <i>Morgan Stanley Children's Hospital of New York Presbyterian</i>
March 2009-Present	Attending In Pediatric Orthopaedic Surgery <i>Stamford Hospital Stamford, Connecticut</i>
June 2007 -Present	Attending in Pediatric Orthopaedic Surgery <i>Greenwich Hospital Greenwich, Connecticut</i>
September 2001-Present	Attending in Pediatric Orthopaedic Surgery <i>Morgan Stanley Children's Hospital of New York Presbyterian New York, New York</i>
January 2003- October 2007	Attending in Orthopaedic Surgery <i>Methodist Hospital Brooklyn, New York</i>

July 2002- February 2008 Attending in Orthopaedic Surgery
Maimonides Medical Center
Brooklyn, New York

January 2001-January 2008 Attending in Orthopaedic Surgery
Lutheran Medical Center
Brooklyn, New York

HONORS

- 2016 **Orthopedics This Week: 17 of the Top North American Pediatric Orthopedic Surgeons Development**
This list is of the most impressive pediatric orthopedic surgeons in North America. This information was obtained via a survey of thought leaders in the field.
- 2011-2017 **Top Doctors: USNWR**
- 2013 **Becker's Spine Review List: 50 Spine Surgeons Focusing on Scoliosis Development**
The list includes physicians focused on scoliosis and spinal deformity surgery and research. Many spine surgeons included in this list are leaders among scoliosis organizations and academic institutions.
- 2013 **Samburg Scholars in Children's Health Award**
To recognize outstanding achievement in pediatric medicine and to foster the work of young leaders in the field, New York Presbyterian Morgan Stanley Children's Hospital, New York, New York
- 2012 **Arthur H. Huene Memorial Award**
Pediatric Orthopaedic Society of North America
Title: Assessing the Reliability and Validity of an Early Onset Scoliosis Subgroup Classification Schema
Sponsor: Pediatric Orthopaedic Society of North America
June 1, 2012- May 31st, 2013
Principal Investigator: Michael G. Vitale
Co-Investigator: David P. Roye, Benjamin Roye, Hiroko Matsumoto
Amount: \$30,000
- 2009 **First Place Award for Best Resident Paper**
Health Related Quality of Life in Children with Early Onset Scoliosis: Validation of the Early Onset Scoliosis Questionnaire (EOSQ). Corona J, Roye Jr DP, Matsumoto, Avendano J, Vitale MG. Presented at the American Academy of Pediatrics. Washington DC. October 2009. \$1,000 awarded.
- 2008 **First Place Award for Best Resident Paper**
Risk Factors for Spinal Cord Injury during Spinal Deformity Surgery: An Analysis of SEP and MEP Monitoring. Gomez JA, Vitale MG, Moore D, Matsumoto H, Emerson RG, Booker WA, Gallo E, Hyman JE, Roye Jr DP. Presented at the American Academy of Pediatrics. Boston, MA. October 2008. \$1,000 awarded.
- 2007 **Scoliosis Research Society New Investigator Award**
For the study "CT Analysis of Pedicle Screw Placement in Pediatric Patients"
- 2007 **POSNA Angela S. M. Kuo Young Investigator Award**
For the study "Quality of Life, Burden of Care and Parental Impact in Children and Families Undergoing Repetitive Surgery for Early Onset Scoliosis
Principle Investigator: MG Vitale
Co-Investigator: DP Roye Jr, JE Hyman, H Matsumoto
Amount:\$15,000

- 2006 **POSNA 2006 Traveling Fellowship Recipient**
One of three pediatric orthopaedic Surgeons chosen to represent the Pediatric Orthopaedic Society of North American during 3 weeks of visitations to centers of pediatric orthopaedics in Europe
- 2006 **American Academy of Pediatrics, 2006 Section on Orthopaedics, Second Place Resident Research Award**
Patient-based Outcomes in Club Foot Treatment: A Long Term Follow Up Study Presented at the American Academy of Pediatrics, Atlanta, Georgia. Samuel DS, Hyman JE, Matsumoto H, Morcuende J, Vitale, MD. \$1,000 awarded.
- 2005 **Robert N. Hensinger 2005 Clinical Scientific Paper Award**
For presenting the Outstanding Clinical Paper presented at the 2005 POSNA Annual Meeting entitled "Volume of Scoliosis Surgery Among Surgeons with Spine versus Pediatric Fellowship Training in the States of New York and California"
- 2002 **Irving Scholar Award**
Irving Center of Clinical Research, Columbia University, New York, New York
- 2001 **Leadership Fellows Program Award**
AAOS National Fellowship Program designed to select and train those with Leadership potential within the Field of Orthopaedic Surgery
- 2000 **Nominee for Humanism and Excellence in Teaching Award**
Arnold P. Gold Foundation
- 1998, 2000 **Award for Best Resident Research Paper**
*Pediatric Orthopaedic Society of New York
Awarded at the Annual POCNY Research Conference*
- 1995, 1998
2000 **Rosamond Kane, '52 Memorial Award in Pediatric Orthopaedics**
- 1998 **Harrison McLaughlin Award in Orthopaedic Trauma**
- 1998 **Parkinson's Disease Foundation Research Fellowship**
Columbia University, College of Physicians and Surgeons
- 1997 **Frank Stinchfield Award in Orthopaedic Research**
Presented at the Annual NYOH Alumni Reunion
- 1995 **Community Service Award**
Medical Society of State of New York State
- 1994 **Dean's/NIH Award for Basic Science Research**
Supported six months of work in the Biochemistry Section of the Orthopaedic Research Laboratory at the Columbia Presbyterian Medical Center working under Anthony Ratcliffe, PH.D. and Van C. Mow, PH.D.. Responsibilities included cartilage harvest and culture, refinement of in vitro system of mechanical loading, RNA and DNA isolation, and quantitative polymerase chain reaction
- 1990 **Thomas J. Watson Traveling Fellowship**
A national scholarship, which supported one year of independent research. Research focused on an exploration of the cultural context of health care in England, Italy and Japan

FELLOWSHIP AND GRANT SUPPORT

- 2019 -2020 **Scoliosis Research Society Grant**
Title: The Effects of the Axial Vertebral Rotation on Curve Progression after Bracing in Adolescent Idiopathic Scoliosis
Principal Investigator: **Michael Vitale**; Co-Investigators: Lawrence Lenke, Benjamin Roye, Hiroko Matsumoto. Amount: \$25,000.00
- 2019 -2020 **Scoliosis Research Society Grant**
Title: Are Outcomes Affected when Sagittal and Coronal Last Touched Vertebra are Discordant and the More Proximal Level is Selected as LIV
Principal Investigator: Benjamin D. Roye; Co-Investigators: Lawrence Lenke, **Michael Vitale**, Hiroko Matsumoto. Amount: \$25,000.00
- 2018 -2020 **Pediatric Orthopaedic Society of North America 2018 Arthur Huene Memorial Award Research Grant**
Title: Bracing for AIS: What Makes the Difference? Examining the Reciprocity of Quality & Duration
Principal Investigator: Benjamin Roye; Co-Investigators: **Michael Vitale**, Hiroko Matsumoto. Amount: \$30,000.00
- 2018 -2019 **Scoliosis Research Society Grant**
Title: Best Practice Guidelines for Non-Operative Care of AIS
Principal Investigator: **Michael Vitale**; Co-Investigators: Hiroko Matsumoto. Amount: \$25,000.00
- 2018 -2018 **Orthopedic Science Research Foundation Grant**
Title: A Novel Application to Decrease Overall Complications in Pediatric Spine Surgery
Principal Investigator: **Michael Vitale**; Co-Investigators: Hiroko Matsumoto, Kevin Wang. Amount: \$25,000.00
- 2017 -2020 **Children's Spine Foundation Research Grant**
Title: MCGR vs. TGR: A retrospective and prospective comparison of outcomes
Principal Investigator: **Michael Vitale**; Co-Investigators: Hiroko Matsumoto. Amount: \$36,155.00
- 2017 -2018 **Children's Spine Foundation Research Grant**
Title: Development of a Self-Reported Health-Related Quality of Life Questionnaire for Adolescents with EOS
Principal Investigator: **Michael Vitale**; Co-Investigators: Hiroko Matsumoto. Amount: \$15,000.00
- 2016 -2017 **Children's Spine Foundation Research Grant**
Title: Ellipse MCGR Equipoise Project
Principal Investigator: **Michael Vitale**; Co-Investigators: Hiroko Matsumoto. Amount: \$13,935.00
- 2016 -2016 **Orthopedic Science Research Foundation**
Title: Assessing Health-Related Quality of Life after Orthopaedic Surgery Principal Investigator: Joshua Hyman; Co-Investigators: David Roye, **Michael Vitale**, Benjamin Roye, Hiroko Matsumoto. Amount: \$19,200.00
- 2015-2016 **American Association of Orthopaedic Surgeons Board of Specialty Societies Fund**
Title: Development of a Risk Severity Score for the Prediction of Postoperative Complications in EOS Patients Undergoing Spinal Deformity Surgery
Principal Investigator: **Michael Vitale**. Amount: \$31,999.00

- 2015-2016 **North American Spine Foundation Research Grant**
Title: Financial Burden and Parental Impact in Families Dealing with Early Onset Scoliosis
Principal Investigator: **Michael Vitale**. Amount: \$23,060.00
- 2015-2016 **Children's Spine Foundation Research Grant**
Title: Development of a Risk Severity Score for the Prediction of Postoperative Complications in EOS Patients Undergoing Spinal Deformity Surgery
Principal Investigator: **Michael Vitale**; Co-Investigators: Hiroko Matsumoto. Amount: \$8,557.00
- 2014-2015 **BroadWater, LLC Research Grant**
Title: Measuring Variability in Outcomes and Processes and Creating Quality Improvement Feedback Loops for Pediatric Patients Undergoing Spinal Fusion Surgery.
Principal Investigator: **Michael Vitale**; Co-Investigators: Hiroko Matsumoto. Amount: \$12,300.00
- 2013-2014 **Orthopaedic Scientific Research Foundation Research Grant.**
Title: Can the Technology Administration of Research Instruments Benefit Patients, Providers, and Research? Principal Investigator: **Michael Vitale**. Amount: \$3,600.00
- Chest Wall and Spine Deformity Research Foundation Research Grant**
Title: Changes in Quality of Life and Parental Burden of EOS Patients Undergoing Various Treatments.
Principal Investigators: David P. Roye, **Michael Vitale**, Benjamin D. Roye, Hiroko Matsumoto. Amount: \$17,520.00
- 2013-2014 **Pediatric Orthopaedic Society of North America 2013 Globus Medical Research Grant**
Title: Development of a Risk Severity Score for Pediatric Spine Surgical Site Infection.
Principal Investigator: **Michael Vitale**; Co-Investigators: Michael Glotzbecker, John Flynn, David Skaggs, Lisa Saiman, Benjamin D. Roye, Joshua E. Hyman, David P. Roye, Jeanne Franzone, Hiroko Matsumoto. Amount: \$29,466.00
- 2013-2014 **Chest Wall and Spine Deformity Research Foundation Research Grant**
Title: Quality of Life and Pulmonary Function Effects of Growing Instrumentation Surgery for Scoliosis in Spinal Muscular Atrophy Patients.
Principal Investigation: David P. Roye, Jr; Co-Investigation: **Michael Vitale**, Hiroko Matsumoto. Amount: \$24,792.00
- 2012-2015 **Chest Wall and Spine Deformity Research Foundation**
Title: Quality of Life and Pulmonary Function Effects of Growing Instrumentation Surgery for Scoliosis in Spinal Muscular Atrophy Patients.
Principal Investigator: David P. Roye, Jr; Co-Investigator: **Michael Vitale**, Hiroko Matsumoto. Amount: \$24,792.00
- 2012 -2013 **Scoliosis Research Society Grant**
Title: Spine-Based vs. Rib Based Anchors in Growth Sparing Constructs for Young Children with Scoliosis
Principal Investigator: **Michael Vitale**; Co-Investigator: David L. Skaggs, Behrooz A. Akabamia, Randal R. Betz, John T. Smith, Paul D. Sonseller. Amount: \$50,000.00
- 2012 -2013 **Chest Wall and Spine Deformity Research Foundation Research Grant**
Title: Can the Early Onset Scoliosis Predict Outcome?
Principal Investigator: **Michael Vitale**; Co-Investigator: David P. Roye, Hiroko Matsumoto, Benjamin Roye. Amount: \$48,000.00

- 2012 -2013 **Scoliosis Research Society, New Investigator Award**
Title: Validation of a Genetic Test to Predict the Risk of Curve Progression in Adolescent Idiopathic Scoliosis
Principal Investigator: **Michael Vitale**; Co-Investigator: David P. Roye, Hiroko Matsumoto, Benjamin Roye. Amount: \$25,000.00
- 2011-2012 **Chest Wall and Spine Deformity Research Foundation Research Grant**
Title: EOS Classification.
Principal Investigator: **Michael Vitale**; Co-Investigator: David P. Roye, Benjamin Roye, Hiroko Matsumoto. Amount: \$49,359.00
- 2011-2012 **OREF Scientific Forum Grant/Spine Care**
Title: The Conservative Treatment of AIS Revisited: A Randomized Controlled Trial Planning Meeting
Principal Investigator: **Michael Vitale**. Amount: \$20,000.00
- 2011-2012 **OREF Scientific Forum Grant/Spine Care**
Title: An Expert Conference on Pediatric Spine Surgical Site Infection Prevention
Principal Investigator: **Michael Vitale**; Co-Investigator: David P. Roye, Jr.
Amount: \$40,000.00
- 2011-2012 **Orthopaedic Research and Education Foundation**
Title: A Clinical Trial Planning Meeting for Early Onset Scoliosis (EOS)
Principal Investigator: David P. Roye, JR; Co-Investigator: **Michael Vitale**.
Amount: \$49,809.00
- 2011-2012 **The Chest Wall and Spine Deformity Study Group**
Title: Evaluation the Extent of Equipose among Treatment Options for Patients with EOS
Principal Investigator: **Michael Vitale**; Co-Investigator: David P. Roye, Jr, Benjamin Roye, Hiroko Matsumoto. Amount: \$48,155.00
- 2010-2011 **Chest Wall & Spine Deformity Research Foundation Research Grant**
Title: Options for Patients with EOS
Principal Investigator: **Michael Vitale**; Co-Investigator: David P. Roye, Jr, Benjamin Roye, Hiroko Matsumoto. Amount: \$48,155.00
- 2009-2010 **Hansjorg Wyss Research Award**
Title: Psychosocial Effects of Repetitive Surgery on Children and their Caregivers in the Setting of Early Onset Scoliosis
Principal Investigator: **Michael Vitale**; Co-Investigator: David P. Roye, Jr, Benjamin Roye, Hiroko Matsumoto. Amount: \$42,158.00
- 2007-2009 **The Chest Wall & Spine Deformity Study Group**
Title: Quality of Life of Children with Thoracic Insufficiency Syndrome
Principal Investigator: **Michael Vitale**. Amount: \$44,500.00
- 2007-2008 **Orthopedic Science Research Foundation Grant**
Title: Web-based & Computer-Assisted Research Collection and Data Retrieval System
Principal Investigator: **Michael Vitale**. Amount: \$17,390.00
- 2007-2008 **The Chest Wall & Spine Deformity Study Group**
Title: An Evaluation of Pulmonary Function, Radiographic Measures and Quality of Life: A Comparison between Expansion Thoracoplasty using the Vertical Expandable Prosthetic Titanium Rib versus Early Fusion
Principal Investigator: **Michael Vitale**; Co-Investigator: David P. Roye Jr, Hiroko Matsumoto. Amount: \$44,400.00

- 2007-2008 **Scoliosis Research Society New Investigators Grant**
Title: CT Analysis of Pedicle Screw Placement in Pediatric Patients
Principal Investigator: **Michael Vitale**. Amount: \$21,000.00
- 2004-2006 **AO/Synthes**
Title: Pulmonary Function, Radiographic Outcomes, and Quality of Life after Early Fusion for Congenital Scoliosis
Principal Investigator: **Michael Vitale**. Amount: \$52,300.00
- 2002-2006 **Irving Scholar Award, Irving Center of Clinical Research**
Title: Quality of Life, Neurocognitive Function, and Burden of Care of Children with Neuromuscular Disorders; Development of Multi-Disciplinary, Web-Based Registry
Principle Investigator: **Michael Vitale**. Amount: \$150,000.00
- 2005-2006 **Pediatric Orthopaedic Society of North America, Clinical Research Grant**
Title: Towards a Validation of a Burden of Care Instrument for Children with Cerebral Palsy
Principal Investigator: **Michael Vitale**. Amount: \$10,860.00
- 2002-2004 **AO/Synthes**
Title: Outcomes of Scoliosis Surgery in the State of California: A Proposal for a 5 Year Retrospective Research Initiative
Amount: \$18,700 unrestricted research award
- 2002 **Nova Spinal Instruments**
Amount: \$8,000 award to support summer research fellowship
- 2002 **Sofamor Medtronic**
Title: Use of Pedicle Screws in Adolescent Idiopathic Scoliosis
Amount: \$25,000 Unrestricted research award
- 2002-2003 **Office of Clinical Trials Pilot Award**
Title: Outpatient therapy with Parenteral Ceftriaxone Compared to inpatient Therapy with Intravenous Cefotazime compared to inpatient therapy with intravenous cefotazime in febrile infants 28-89 days of age with a gram-negative urinary tract infection (UTI): Efficacy, Safety and caretaker preferences and burden
Principal Investigator: Peter S. Dayan; Co-Investigator: **Michael Vitale**; L Saiman
Amount: \$50,000.00
- 2001-2004 **Orthopaedic Research and Education Foundation Career Development Grant Sponsored by Bristol-Myers Squibb/Zimmer**
Title: Towards a Web Based national Pediatric Orthopaedic Trauma Outcomes Registry
Principal Investigator: **Michael Vitale**. Amount: \$50,000.00
- 2001-2002 **Office of Clinical Trials, Columbia Presbyterian Medical Center, Pilot Award**
Title: Patient-Based Outcomes Following Clubfoot Surgery: A long Term Follow-up
Principal Investigator: **Michael Vitale**; Co-Investigator: David P. Roye
Amount: \$41,460.00
- 2000 **National Orthopaedic Surgery Fellows Foundation (NOSFF) Year 200 Grant Recipient**
Title: Pediatric Pelvic Fractures: An Exploration of Patient Based Outcomes and Practice Patterns
Advisor: Dr. David L. Helfet. Amount: \$5,000.00

- 1998-2001 **Orthopaedic Research and Education Foundation Grant in Prospective Clinical Studies**
Title: Determination of the Responsiveness and Validity of Health Status measure and Quality of Life Measures for Children Applied to Trauma], Musculoskeletal Deformity, and Tumors
Principal Investigator: David P. Roye, Jr; Co-Investigator: **Michael Vitale**;
Amount: \$150,000.00
- 1998 **Ortho BioTech Research Award**
Title: Supporting a Phase I Study of “dose Regimens in Patients with Neurogenic Scoliosis and Development of a statistical model predicting Transfusion Rates in Pediatric Scoliosis
Principal Investigator: David P. Roye, Jr; Co-Investigator: **Michael Vitale**
- 1997 **Ortho BioTech Research Award**
Title: Supporting an investigation of “Use of Preoperative Erythropoietin in Pediatric Patients Undergoing Scoliosis Surgery”
Principal Investigator: David P. Roye, Jr; Co-Investigator: **Michael Vitale**
Amount: \$15,000.00
- 1997 **Ortho BioTech Research Award**
Title: Supporting an investigation of “A Decision Analytic Model Predicting Cost Effectiveness and Long Term Outcomes of Preoperative Erythropoietin”
Principal Investigator: David P. Roye, Jr; Co-Investigator: **Michael Vitale**
Amount: \$15,000.00
- 1996 **Orthopaedic Research and Education Foundation Grant in Prospective Clinical Studies**
Title: Surgical Repair of the Torn Rotator Cuff Tendon: An Analysis of Function. Quality of Life, Costs, and Factors that Affect These Analyses
Principal Investigator: Evan L. Flatow; Co- Investigator: **Michael Vitale**

DEPARTMENTAL AND UNIVERSITY COMMITTEES

UNIVERSITY:

- Columbia University Department of Orthopaedic Surgery**
2005-2008 *Secretary, New York Orthopaedic Society Alumni Society*
2005-Present *Departmental Resident Research Committee*
2005 -2010 *Editor and Chief, Newsletter of the Pediatric Orthopaedic Hospital of New York*
2001-Present *IRB Committee, Department of Orthopaedic Surgery*
2001-Present *Director, Pediatric Orthopaedic Research Group*
Managed all aspects of clinical research group including fundraising, directions of three fulltime research assistants, grants and research retreats.

HOSPITAL:

- Morgan Stanley Children’s Hospital of New York Presbyterian**
2013-Present *Co-Director, Division of Pediatric Orthopaedics*
2009-Present *Associate Chief, Division of Pediatric Orthopaedics*
2008-Present *Chief, Pediatric Spine and Scoliosis Service. Morgan Stanley Children’s Hospital*
2008-2009 *Department of Pediatrics, Physician Relations Committee*
2006-2009 *Co-Chairman, CHONY National Visibility Committee*
2006-2008 *Co-Chairman, Subgroup on Strategic Growth; CHONY Leadership Retreat*
2005-Present *Committee on Children’s Hospital Operating Room*
2005-2008 *Committee on Ambulatory Services*
2005-2006 *Black Belt Driven OR “On Time Start” Project*
2004-2008 *CHONY Leadership Retreat*
2004-2005 *Committee on Standards and Policy*
2003-2009 *Committee on Quality Improvement in Pediatrics*

LOCAL:

2006-2008 *President, Brooklyn Orthopaedic Society*
2005-2006 *Vice President, Brooklyn Orthopaedic Society*
2004-2005 *Secretary, Brooklyn Orthopaedic Society*
2003-2004 *Treasurer, Brooklyn Orthopaedic Society*

NATIONAL:

INTERNATIONAL PEDIATRIC ORTHOPAEDIC SYMPOSIUM

2017 *Chair Emeritus*
2015-2016 *Chairman*
2012-2014 *Co-Chairman*

PEDIATRIC ORTHOPAEDIC SOCIETY OF NORTH AMERICA

2020 – 2021 *PRESIDENT*
2018- Present *Vice President*
2013- Present *Senior Advisor, Quality, Safety, Experience and Value Initiative Steering Committee*
2012-Present *IPOS Liaison*
2008-2012 *Chairman, Industry Relations Committee*
2008-2013 *Long Term Planning Committee*
2008-Present *Fellowship Training/Qualifications for Practice AD HOC Committee*
2008-2011 *Awards Committee*
2006-Present *Fellowship Training/Qualifications of Pediatric Orthopaedic Surgery Practice AD HOC Committee*
2006-2008 *Member at Large, Board of Directors*
2005-2006 *Fellowship Training/Qualifications for Practice AD HOC Committee*
2004-2005 *Chairman, Committee on Evidence Based Medicine*
2002-2005 *Committee on Evidence Based Medicine*

AMERICAN ACADEMY OF PEDIATRICS, ORTHOPAEDIC SUBGROUP

2005-Present *Board of Directors*
2005-2008 *Chairman, Programs Committee*
2002-2005 *Co-Chairman, Programs Committee*

AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS

2013- Present **SURGICAL QUALITY ALLIANCE**
2004-2005 *Committee on Evidence Based Medicine*

CHILDREN’S SPINE STUDY GROUP

2010-Present *Executive Committee*

2005 2011 **SPINE DEFORMITY STUDY GROUP**

SCOLIOSIS RESEARCH SOCIETY

2009-Present *Chairman, ADHOC Committee on Pediatric Medical Devices*
2013-Present *Chairman, Committee on Spine Safety*

CHILDREN’S SPINE FOUNDATION

2017-Present *President*
2012-2016 *Board of Directors*

TEACHING EXPERIENCE AND RESPONSIBILITIES

ADVANCED SPINAL DEFORMITY FELLOWSHIP DIRECTOR:

CLINICAL FELLOWS:

2020 – Present	Rajiv Iyer, MD
2019 - 2020	Anand Segar, MD
2018 - 2019	Richard Menger, MD
2017 - 2018	Eduardo Beauchamp, MD
2016 - 2017	Brian Kelley, MD

VICE CHAIR OF QUALITY & STRATEGY; DEPT OF ORTHOPEDIC SURGERY:

QUALITY FELLOWS:

2019 - 2020	Sushrut Arora
2018 - 2019	Danielle Wiggins
2017 - 2018	Jennifer Ringler
2016 - 2017	Danielle Rossi
2015- 2016	Navid Dardashti
2014- 2015	Kevin Wang

COURSE CHAIRMAN:

2012	6 th International Congress on Early Onset Scoliosis and Growing Spine, Dublin, Ireland
2009-2015	Complications in Deformity Surgery, Stryker Spine
2010	Current Techniques in Spinal Deformity Surgery, Biomet Spine Aurora, Colorado
2009	<i>Spine Symposium</i> , Pediatric Orthopaedic Society of North America DaVinci Center Medical Training Facility, Miami, Florida
2009	<i>Spine Symposium</i> , Pediatric Orthopaedic Society of North America Boston, Massachusetts
2009	<i>Spine Symposium</i> , Pediatric Orthopaedic Society of North America Albuquerque Convention Center, Albuquerque, Arizona
2006	Inaugural Symposium on Thoracic Insufficiency and Expansion Thoracoplasty
2005	<i>Treatment options for Pediatric Spine Deformity</i> , Stryker Spine Phoenix, Arizona

- 2005 *Pediatric Neuromuscular Problems in Children*, 3rd Annual Brooklyn Course
Co Instructors: DP Roye, JE Hyman, L Imundo, S Pavlakis, FY Lee, C Scott
- 2004 *Pediatric Neuromuscular Problems in Children*, 2nd Annual Brooklyn Course
Co Instructors: DP Roye, JE Hyman, D Levy, J Pascual, FY Lee, B Roye
- 2003 *Pediatric Neuromuscular Problems in Children*, 1st Annual Brooklyn Course
Co Instructors: DP Roye, JE Hyman, L Imundo, M Patterson, FY Lee, A Strongwater

VISITING PROFESSORSHIPS:

- 2019 Visiting Professor, Department of Orthopedics- Texas Children’s Hospital - Houston, Texas
- 2018 Visiting Professor, Department of Orthopedics- Emory University
Atlanta, Georgia
- Shrine Memorial Lecture Program, Department of Orthopedics, University of Iowa,
Iowa City, Iowa
- 2016 Neurosciences Institute Visiting Professorship – Virginia Mason Medical Center
Seattle, Washington
- Children’s Hospital Los Angeles; John C. Wilson Visiting Professor
Los Angeles, California
- 2015 Hospital for Joint Diseases Visiting Professor
New York, New York
- Hospital for Special Surgeries Visiting Professor
New York, New York
University of Pittsburgh School of Medicine Visiting Professor
Pittsburgh, PA
- 2014 Ann & Robert H. Lurie Children’s Hospital Visiting Professor
Chicago, Illinois
- Shriner’s Hospital Visiting Professor
Philadelphia, Pennsylvania
- 2013 Ann & Robert H. Lurie Children’s Hospital Visiting Professor
Chicago, Illinois
- Northwestern University Visiting Professor
Chicago, Illinois
- 2011 St. Luke’s Hospital
New York, New York
- 2010 Children’s Hospital of Denver Visiting Professor
Denver, Colorado
- 2009, 2011 Children’s Hospital of Boston Visiting Professor
Boston, Massachusetts
- 2008 Cincinnati Children’s Hospital Visiting Professor
Cincinnati, Ohio
- 2008 Arnold Palmer Visiting Professor

Orlando, Florida

2008 15th Annual John Roberts, Shriner's Hospital Visiting Professor
Boston, Massachusetts

COURSE INSTRUCTOR:

2012 - International Pediatric Orthopaedic Society
Present Orlando, Florida

2011 Instructional Course Lecture
Congenital and Early Onset Spinal Deformity
American Academy of Orthopaedic Surgeons
San Diego, California

2011 Instructional Course Lecture
Complications in Spine Surgery
American Academy of Orthopaedic Surgeons
San Diego, California

2011 POSNA Tutorial
Early Onset Scoliosis: Options and Techniques
Pediatric Orthopaedic Society of North America
New York, New York

2010 Instructional Course Lecture
Congenital and Early Onset Spinal Deformity
American Academy of Orthopaedic Surgeons
New Orleans, LA

2010 *Early Onset Scoliosis: Options and Techniques*
Pediatric Orthopaedic Society of North America
New York, New York

2010 *Correcting Complex Spinal Deformities: Direct Vertebral Body Rotation Utilizing the
SUK DVR System*
10th Annual Advanced Technologies in Spinal Treatment
Tokyo, Japan

2009 International Pediatric Orthopaedic Society
Orlando, Florida

2009 International Congress on Early Onset scoliosis and Growing Spine
Istanbul, Turkey

2009 Annual Spine Surgical Techniques and Technology Forum
Boston, Massachusetts

2009 *Growth Strategies for Early Onset Scoliosis: State of the Art*
Early Onset Scoliosis and Growing Spine
Istanbul, Turkey

2009 Pediatric Clinical Trials Workshop
Baltimore, Maryland

2008 International Pediatric Orthopaedic Society

2007 International Pediatric Orthopaedic Society

- 2007 *Pediatric Spinal Deformity*
Medtronic Sofamor Danek Spine Course
Phoenix, Arizona
- 2006 *Pediatric Spinal Deformity*
14th Annual International Pediatric Orthopaedic Society Review Course
Orlando, Florida
- 2006 *The Limping Child*
American Academy of Pediatrics
- 2005 *State of the Art Surgical Management*
2nd Annual operative management of Pediatric Fractures
Hospital for Special Surgery
New York, New York
- 2005 *Pedicle Screws: State of the Art*
Stryker Spine Course
Phoenix, Arizona
- 2005 *Operative and Nonoperative Treatment Options for Children with Spasticity*
Sponsored by YAI
- 2005 *Pedicle Screws: State of the Art*
Stryker Spine Course
Phoenix, Arizona
- 2005 *Bow Legs and Knock Knees*
American Academy of Pediatrics
- 2004 *Pearls and Pitfalls in Diagnosis of Pediatric Orthopaedic Conditions*
American Academy of Pediatrics
- 2003 *The Office Pediatric Orthopaedic Examination*
American Academy of Pediatrics
- 2003 Doctorate in Physical Therapy Program
Columbia University

MODERATOR OR SYMPOSIA CHAIR:

- 2009 *Moderator, Early Onset/Exotic Scoliosis*
International Pediatric Orthopaedic Society
Orlando, Florida
- 2009 *Moderator, 3D Correction with Polaris Spine Deformity System*
International Pediatric Orthopaedic Society
Orlando, Florida
- 2009 *Moderator, VEPTR II for TIS/EOS*
International Pediatric Orthopaedic Society
Orlando, Florida
- 2009 *Moderator, Spine Surgery Complications Prevention and Management*
International Pediatric Orthopaedic Society
Orlando, Florida
- 2009 *Moderator, What is considered a Successful endpoint for EOS Treatment*
International Congress on Early Onset Scoliosis and Growing Spine

- Istanbul, Turkey
- 2004 Symposium on Complex Congenital Spine Deformity
- 2003 *Neuromuscular and Metabolic Disease Section*
America Academy of Pediatrics, Section on Orthopaedic Surgery
- 2003 *Back Pain Management and Assessment Section*
World Spine II

OTHER PROFESSIONAL ACTIVITIES

CONSULTATIVE:

FEDERAL

- Co-Investigator to Government Award: 5 U03 MC00007-04-00
“Emergency Medical Service for Children Network Development Demonstration Project (EMSC-NDDP)”
Funded by Health Resources Service Administration/Maternal child health Bureau (HRSA/MCHB)
Principal Investigator: Peter Dayan, MD
- Consultant to Government Award: 1 U03 MC00007-01-01
“Emergency medical Services for Children Network Development Demonstration Project-Pediatric Emergency Department North East Team (PEDNET)”
Budget Period: 10/1/07-7/30/02, \$988,296
Principal Investigator: Nadine Levick, MD
- Board of Advisors, National Trauma Registry for Children. Grant number 1H&@ MC 00004 01 and 1H72 MC 00002 01 from the Health Resources Service Administration/Maternal Child Health Bureau (HRSA/MCHB) Emergency medical Services for Children Program
“To Promote the Design and Development of a National Trauma Registry for Children”
Principal Investigator: Karen Guice, MD MPP
- Consultant to Association of Pediatric Surgical Association Government Award Grant #H03MC0006
Department of Health and Human Services Maternal and Child Health Bureau
“Partnership for Development and Dissemination of Outcome Measures for Children”
Principal Investigator: Keith Oldham, MD
- American Academy of Orthopaedic Surgery: Invited to Serve as Consultant to “*Summit on the Future of Guidelines*” Chicago, IL. June 2005
- Kenneth Krieger Institute; Osteogenesis Imperfecta Foundation. “Outcomes of Children with Osteogenesis Imperfecta”, March 2004

OTHER CONSULTANT ACTIVITIES:

- Consultant to Multidisciplinary Panel Coordinated by the Orthopaedic Nursing Association to Develop an Evidence Based Approach to Spine Site Care after External Fixation. Consensus Statement Published in Orthopaedic Nursing. March/April 2005
- Consultant to Institute of Medicine: Committee on Post Market Surveillance of Pediatric Medical Devices; 8/31/2005
- Medical Director, Objective Health 2000-2001
- Consultation to an eHealth business whose goal is to improve online communication between patients and physicians. Responsibilities include guiding the development of web-based platform to facilitate the collection of patient-outcomes research data. 1999-Present

- Medical Writer *CBS Healthwatch*, Articles “published” online at CBS.Healthwatch.com. As a freelance writer, I was responsible for providing medical content on a variety of subjects. (1998-2000)
- American pediatric Surgical Association: Assessment of Outcomes in Pediatric Surgery: Deficiencies in the Literature and Needs for the Future, AC Gelijns, MG Vitale, RP Altman. Invited Lecture. Presented at the Association of Pediatric Surgical Association Annual Board of Governors Meeting, 1996
- Consultant to Clinical Advisors LLC. Consultant Group that Specializes in Providing Biomedical Consultative Advice to Industry.2006

ADDITIONAL CLINICAL/EDUCATIONAL TRAINING:

- | | |
|------|--|
| 2009 | Training, American Orthopaedic Association Kellogg Leadership Series- Module 6
Evanston, Illinois
<i>Be Equipped to Better Compete in the Marketplace</i> |
| 2005 | Training, American Orthopaedic Association Kellogg Leadership Series- Module 1
Evanston, Illinois
<i>Using Research to Advance Organizational Success</i> |
| 2006 | Training, American Orthopaedic Association Kellogg Leadership Series- Module 2
Evanston, Illinois
<i>Developing Personal Leadership Skills and Competencies</i> |
| 2006 | Group Leader: “Strategic Growth”
7 th Annual Morgan Stanley Children’s Hospital Leadership Retreat |
| 2006 | New York Presbyterian Physician Leadership Development Program |
| 2002 | American Academy of Orthopaedic Surgeons Leadership Fellows Program Award
<i>National Fellowship Program Designed to Select and Train those with Leadership Potential within the field of Orthopaedic Surgery</i> |

EDITORIAL:

- *Journal of Bone and Joint Surgery*
- *Journal of Children’s Orthopaedics*
International Editorial Board, 2012-2015
- *Pediatrics*
- *American Family Physician*
- *Journal of Pediatric Orthopaedics*
- *Lancet*

INTERNATIONAL EXPERIENCES:

- | | |
|------------------------------------|---|
| 2011, 2012,
2013, 2015,
2016 | Haiti
Adventist Health International
Loma Linda University/ Global Health Institute |
| 2010 | Haiti
Adventist Health International
Loma Linda University/Global Health Institute |
| 2010 | Peru
Health Volunteers Overseas
V Congreso Internacional Del Hogar Clinica San Juan De Dios |

PUBLICATIONS:**ORIGINAL, PEER REVIEWED ARTICLES:**

1. Halsey MF, Myung KS, Ghag A, **Vitale MG**, Newton PO, de Kleuver M. Neurophysiological monitoring of spinal cord function during spinal deformity surgery: 2020 SRS neuromonitoring information statement. *Spine Deform.* 2020;8(4):591-596. doi:10.1007/s43390-020-00140-2. PMID: 32451978
2. Ball JR, Konigsberg MW, Plachta S, Fields MW, Matsumoto H, Roye BD, Arora S, Roye DP, Lenke LG, Skaggs DL, **Vitale MG**. Variability in stable sagittal vertebra (SSV) during full-length biplanar xrays can affect the choice of fusion levels in patients with adolescent idiopathic scoliosis (AIS). *Spine Deformity.* 2020 Jul 14. doi: 10.1007/s43390-020-00166-6. Online ahead of print. PMID: 32666471
3. Roye BD, Fields MW, Matsumoto H, Sponseller P, Pérez-Grueso FJS, Boachie-Adjei O, Hammerberg K, Welborn MC, **Vitale MG**; Pediatric Spine Study Group (PSSG). The Association Between the Utilization of Traction and Postoperative Complications Following Growing Rod Instrumentation for Early-onset Scoliosis. *J Pediatr Orthop.* 2020 Jul 3. doi: 10.1097/BPO.0000000000001628. Online ahead of print. PMID: 32658160
4. Roye BD, Marciano G, Matsumoto H, Fields MW, Campbell M, White KK, Sawyer J, Smith JT, Luhmann S, Sturm P, Sponseller P, **Vitale MG**, Growing Spine Study Group, Children's Spine Study Group. Is rod diameter associated with the rate of rod fracture in patients treated with magnetically controlled growing rods? *Spine Deformity.* 2020 Jun 19. doi: 10.1007/s43390-020-00161-x. Online ahead of print. PMID: 32562099
5. Ramirez N, Olivella G, Rodriguez O, Marrero P, Smith J, Garg S, **Vitale M**, St Hilaire T, Betz R. [Incidence of complications in the management of non-ambulatory neuromuscular early-onset scoliosis with a rib-based growing system: high- versus low-tone patients.](#) *Eur J Orthop Surg Traumatol.* 2020 May;30(4):621-627. doi: 10.1007/s00590-019-02614-0. PMID: 31863270
6. Miller DJ, Cahill PJ, **Vitale MG**, Shah SA. Posterior Correction Techniques for Adolescent Idiopathic Scoliosis. [J Am Acad Orthop Surg.](#) 2020 May 1;28(9):e363-e373. doi: 10.5435/JAAOS-D-18-00399. PMID: 31633657
7. Matsumoto H, Warren S, Simhon ME, Konigsberg MW, Fields MW, Roye BD, Roye DP, **Vitale MG**. It is not just about the frontal plane: sagittal parameters impact curve progression in AIS patients undergoing brace treatment. [Spine Deform.](#) 2020 Apr 27. doi: 10.1007/s43390-020-00122-4. [Epub ahead of print] PMID: 32338342
8. Anari JB, Flynn JM, Cahill PJ, **Vitale MG**, Smith JT, Gomez JA, Garg S, Baldwin KD; Children's Spine Study Group. [Unplanned return to OR \(UPROR\) for children with early onset scoliosis \(EOS\): a comprehensive evaluation of all diagnoses and instrumentation strategies.](#) *Spine Deform.* 2020 Apr;8(2):295-302. doi: 10.1007/s43390-019-00024-0. PMID: 32030640
9. Konigsberg MW, Matsumoto H, Ball JR, Roye BD, **Vitale MG**. Skip constructs in spinal muscular atrophy: outcomes of a novel approach for posterior spinal instrumentation and fusion. *Spine Deform.* 2020 Apr 6. doi: 10.1007/s43390-020-00107-3. [Epub ahead of print] PMID: 32253736
10. Meza BC, Shah SA, **Vitale MG**, Sturm PF, Luhmann SJ, Pediatric Spine Study Group, Anari JB. Proximal anchor fixation in magnetically controlled growing rods (MCGR): preliminary 2-year results of the impact of anchor location and density. *Spine Deform.* 2020 Mar 18. doi: 10.1007/s43390-020-00102-8. [Epub ahead of print] PMID: 32189230
11. Matsumoto H, Simhon ME, Campbell ML, **Vitale MG**, Larson EL. Risk Factors Associated with Surgical Site Infection in Pediatric Patients Undergoing Spinal Deformity Surgery: A Systematic Review and Meta-Analysis. *JBJS Rev.* 2020 Mar;8(3):e0163. doi: 10.2106/JBJS.RVW.19.00163. PMID: 32224638

12. Roye BD, Simhon ME, Matsumoto H, Garg S, Redding G, Samdani A, Smith JT, Sponseller P, **Vitale MG**; Pediatric Spine Study Group; Growing Spine Study Group. [Bigger is Better: Larger Thoracic Height is Associated with Increased Health Related Quality of Life at Skeletal Maturity](#). Spine Deformity. 2020 Aug;8(4):771-779. doi: 10.1007/s43390-020-00095-4. PMID: 32162196
13. Bachabi M, McClung A, Pawelek JB, El Hawary R, Thompson GH, Smith JT, **Vitale MG**, Akbarnia BA, Sponseller PD; Children's Spine Study Group, Growing Spine Study Group. [Idiopathic Early-onset Scoliosis: Growing Rods Versus Vertically Expandable Prosthetic Titanium Ribs at 5-year Follow-up](#). J Pediatr Orthop. 2020 Mar;40(3):142-148. doi: 10.1097/BPO.0000000000001202. PMID: 32028476
14. Bachmann KR, Yaszay B, Bartley CE, **Vitale M**, Roye BD, Marks MC, Sponseller PD, Asghar J, Samdani AF, Newton PO. [The variability in the management of acute surgical site infections: an opportunity for the development of a best practice guideline](#). Spine Deform. 2020 Jun;8(3):463-468. doi: 10.1007/s43390-020-00079-4. PMID: 32077083
15. Roye BD, Simhon ME, Matsumoto H, Bakarania P, Berdishevsky H, Dolan LA, Grimes K, Grivas TB, Hresko MT, Karol LA, Lonner BS, Mendelow M, Negrini S, Newton PO, Parent EC, Rigo M, Strikeleather L, Tunney J, Weinstein SL, Wood G, **Vitale MG**. [Establishing consensus on the best practice guidelines for the use of bracing in adolescent idiopathic scoliosis](#). Spine Deform. 2020 Feb 5. doi: 10.1007/s43390-020-00060-1. [Epub ahead of print] PMID: 32026441
16. Minkara A, Bainton N, Tanaka M, Kung J, DeAllie C, Khaleel A, Matsumoto H, **Vitale M**, Roye B. [High Risk of Mismatch Between Sanders and Risser Staging in Adolescent Idiopathic Scoliosis: Are We Guiding Treatment Using the Wrong Classification?](#) J Pediatr Orthop. 2020 Feb;40(2):60-64. doi: 10.1097/BPO.0000000000001135. PMID: 31923164
17. Roye BD, Campbell ML, Matsumoto H, Pahys JM, Welborn MC, Sawyer J, Fletcher ND, McIntosh AL, Sturm PF, Gomez JA, Roye DP, Lenke LG, **Vitale MG**; Children's Spine Study Group. Establishing Consensus on the Best Practice Guidelines for Use of Halo Gravity Traction for Pediatric Spinal Deformity. J Pediatr Orthop. 2020 Jan;40(1):e42-e48. doi: 10.1097/BPO.0000000000001379. PMID: 30994582
18. Bachabi M, McClung A, Pawelek JB, El Hawary R, Thompson GH, Smith JT, **Vitale MG**, Akbarnia BA, Sponseller PD; Children's Spine Study Group, Growing Spine Study Group. [Idiopathic Early-onset Scoliosis: Growing Rods Versus Vertically Expandable Prosthetic Titanium Ribs at 5-year Follow-up](#). J Pediatr Orthop. 2020 Mar;40(3):142-148. doi: 10.1097/BPO.0000000000001202. PMID:32028476
19. Anari JB, Flynn JM, Cahill PJ, **Vitale MG**, Smith JT, Gomez JA, Garg S, Baldwin KD; Children's Spine Study Group. [Unplanned return to OR \(UPROR\) for children with early onset scoliosis \(EOS\): a comprehensive evaluation of all diagnoses and instrumentation strategies](#). Spine Deform. 2020 Feb 6. doi: 10.1007/s43390-019-00024-0. [Epub ahead of print] PMID:32030640
20. Roye BD, Simhon ME, Matsumoto H, Bakarania P, Berdishevsky H, Dolan LA, Grimes K, Grivas TB, Hresko MT, Karol LA, Lonner BS, Mendelow M, Negrini S, Newton PO, Parent EC, Rigo M, Strikeleather L, Tunney J, Weinstein SL, Wood G, **Vitale MG**. [Establishing consensus on the best practice guidelines for the use of bracing in adolescent idiopathic scoliosis](#). Spine Deform. 2020 Feb 5. doi: 10.1007/s43390-020-00060-1. [Epub ahead of print] PMID:32026441
21. Minkara A, Bainton N, Tanaka M, Kung J, DeAllie C, Khaleel A, Matsumoto H, **Vitale M**, Roye B. [High Risk of Mismatch Between Sanders and Risser Staging in Adolescent Idiopathic Scoliosis: Are We Guiding Treatment Using the Wrong Classification?](#) J Pediatr Orthop. 2020 Feb;40(2):60-64. doi: 10.1097/BPO.0000000000001135. PMID:31923164
22. Bachmann KR, Lu E, Novicoff WM, Newton PO, Abel MF, Buckland A, Samdani A, Jain A, Lonner B, Yaszay B, Reilly C, Hedequist D, Clements D, Miyajima F, Shufflebarger H, Flynn J, Asghar J, Thiong JMM, Pahys J, Harms J, Bachmann K, Lenke L, Glotzbecker M, Kelly M, **Vitale M**, Marks M, Gupta M, Fletcher N, Cahill P, Sponseller P, Gabos P, Newton P, Betz R, Lehman R, George S, Hwang S, Shah S, Errico T, Upasani V; Harms Study Group; Harms Study Group Investigators. [The Lumbosacral Takeoff Angle Can Be Used to Predict the Postoperative Lumbar Cobb Angle Following Selective Thoracic Fusion in Patients with Adolescent Idiopathic Scoliosis](#). J Bone Joint Surg Am. 2020 Jan 15;102(2):143-150. doi: 10.2106/JBJS.19.00287. PMID:31644521

23. Roye BD, Campbell ML, Matsumoto H, Pahys JM, Welborn MC, Sawyer J, Fletcher ND, McIntosh AL, Sturm PF, Gomez JA, Roye DP, Lenke LG, **Vitale MG**; Children's Spine Study Group. Establishing Consensus on the Best Practice Guidelines for Use of Halo Gravity Traction for Pediatric Spinal Deformity. *J Pediatr Orthop*. 2020 Jan;40(1):e42-e48. doi: 10.1097/BPO.0000000000001379. PMID:30994582
24. Simhon M, Roye B, Matsumoto H, Garg S, Samdani A, Smith J, Sponseller P, **Vitale M**; Pediatric Spine Study Group. [Bigger is Better: Larger Thoracic Height is Associated with Increased Health Related Quality of Life at Skeletal Maturity](#). *Spine Deform*. 2019 Nov;7(6):1012-1013. doi: 10.1016/j.jspd.2019.09.017. No abstract available. PMID:31974974
25. Campbell M, Matsumoto H, St Hilaire T, Roye BD, Roye DP, **Vitale MG**. [Burden of care in families of patients with early onset scoliosis](#). *J Pediatr Orthop B*. 2019 Dec 30. doi: 10.1097/BPB.0000000000000711. PMID: 31895294
26. Ramirez N, Olivella G, Rodriguez O, Marrero P, Smith J, Garg S, **Vitale M**, St Hilaire T, Betz R. [Incidence of complications in the management of non-ambulatory neuromuscular early-onset scoliosis with a rib-based growing system: high- versus low-tone patients](#). *Eur J Orthop Surg Traumatol*. 2019 Dec 20. doi: 10.1007/s00590-019-02614-0. PMID: 31863270
27. Helenius IJ, Saarinen AJ, White KK, McClung A, Yazici M, Garg S, Thompson GH, Johnston CE, Pahys JM, **Vitale MG**, Akbarnia BA, Sponseller PD. Results of growth-friendly management of early-onset scoliosis in children with and without skeletal dysplasias: a matched comparison. *Bone Joint J*. 2019 Dec;101-B(12):1563-1569. doi: 10.1302/0301-620X.101B12.BJJ-2019-0735.R1.
28. Schur M, Andras LM, Murgai R, Siddiqui AA, Gonsalves NR, Sponseller PD, Emans JB, **Vitale MG**, Skaggs DL; Growing Spine Study Group; Children's Spine Study Group. Pelvic Obliquity Correction in Distraction-Based Growth Friendly Implants. *Spine Deform*. 2019 Nov;7(6):985-991. doi: 10.1016/j.jspd.2019.03.003.
29. Miller DJ, Cahill PJ, **Vitale MG**, Shah SA. Posterior Correction Techniques for Adolescent Idiopathic Scoliosis. *J Am Acad Orthop Surg*. 2019 Oct 16. doi: 10.5435/JAAOS-D-18-00399. PMID: 31633657
30. El-Hawary R, Morash K, Kadhim M, **Vitale M**, Smith J, Samdani A, Flynn J, PSSG. VEPTR Treatment of Early Onset Scoliosis in Children Without Rib Abnormalities: Long-term Results of a Prospective, Multicenter Study. *J Pediatr Orthop*. 2019 Sep 20. doi: 10.1097/BPO.0000000000001454. PMID: 31567750
31. Hung CW, **Vitale MG**, Samdani A, Matsumoto H, Smith JT, Sturm PF, Sponseller PD, Luhmann SJ, St Hilaire T, El-Hawary R, Sawyer JR. [Outcomes of Primary and Conversion Magnetically Controlled Growth Rods Are Different at Two-Year Follow-up: Results of North American Release](#). *Spine Deform*. 2019 Sep;7(5):829-835. PMID: 31495485
32. Trupia E, Hsu AC, Mueller JD, Matsumoto H, Bodenstern L, **Vitale M**. [Treatment of Idiopathic Scoliosis With Vertebral Body Stapling](#). *Spine Deform*. 2019 Sep;7(5):720-728. PMID: 31495471
33. Sethi R, Bohl M, **Vitale M**. [State-of-the-Art Reviews: Safety in Complex Spine Surgery](#). *Spine Deform*. 2019 Sep;7(5):657-668. PMID: 31495465
34. Glotzbecker MP, St Hilaire TA, Pawelek JB, Thompson GH, **Vitale MG**; Children's Spine Study Group; Growing Spine Study Group. [Best Practice Guidelines for Surgical Site Infection Prevention With Surgical Treatment of Early Onset Scoliosis](#). *J Pediatr Orthop*. 2019 Sep;39(8):e602-e607. PMID: 31393298
35. Goldstein HE, Shao B, Madsen PJ, Hartnett SM, Blount JP, Brockmeyer DL, Campbell RM, Conklin M, Hankinson TC, Heuer GG, Jea AH, Kennedy BC, Tuite GF, Rodriguez L, Feldstein NA, **Vitale MG**, Anderson RCE. [Increased complications without neurological benefit are associated with prophylactic spinal cord untethering prior to scoliosis surgery in children with myelomeningocele](#). *Childs Nerv Syst*. 2019 Jul 2. PMID: 31267182
36. Minkara AA, Matsumoto H, Glotzbecker M, Samdani A, Flynn J, **Vitale M**, Saiman L, Children's Spine Study Group. A Multicenter Study of the Epidemiology of Deep Surgical Site Infections in Children with Nonidiopathic Early-Onset Scoliosis Including Associated Pathogens. *Spine Deform*. 2019 Jul;7(4):647-651. doi: 10.1016/j.jspd.2018.11.015. PMID: 31202384.

37. Glotzbecker M, Miller P, **Vitale M**, Dewitt L, Grzywana A, Sawyer J, Pahys J, Cahill P, Emans J, Childrens' Spine Study Group. Hemoglobin Levels Pre- and Posttreatment as a Surrogate for Disease Severity in Early- Onset Scoliosis. *Spine Deform.* 2019 Jul;7(4):641-646. PMID: 31202383
38. Roye BD, Campbell ML, Matsumoto H, Pahys JM, Welborn MC, Sawyer J, Fletcher ND, McIntosh AL, Sturm PF, Gomez JA, Roye DP, Lenke LG, **Vitale MG**, Children's Spine Study Group. Establishing Consensus on the Best Practice Guidelines for Use of Halo Gravity Traction for Pediatric Spinal Deformity. *J Pediatr Orthop.* 2019 April 15. PMID: 30994582
39. Polly DW Jr, Ledonio CGT, Diamond B, Labelle H, Sucato DJ, Hresko MT, Emans JB, **Vitale MG**, Erickson MA, Larson AN, Spinal Deformity Study Group. What Are the Indications for Spinal Fusion Surgery in Scheuermann Kyphosis? *J Pediatr Orthop.* 2019 May/June. 39(5):217-221. PMID: 30969249
40. Baranek ES, Maier SP 2nd, Matsumoto H, Hyman JE, **Vitale MG**, Roye DP Jr, Roye BD. Gross Motor Function Classification System Specific Growth Charts-Utility as a Risk Stratification Tool for Surgical Site Infection Following Spine Surgery. *J Pediatr Orthop.* 2019 Apr;39(4):e298-e302. PMID: 30839482
41. Sethi RK, Yanamadala V, Shah SA, Fletcher ND, Flynn J, Lafage V, Schwab F, Heffernan M, DeKleuver M, Mcleod L, Leveque JC, **Vitale M**. Improving Complex Pediatric and Adult Spine Care While Embracing the Value Equation. *Spine Deform.* 2019 March;7(2):228-235. doi: 10.1016/j.jspd.2018.08.006. PMID: 30660216
42. Russo C, Trupia E, Campbell M, Matsumoto H, Smith J, Samdani A, Emans J, Roye D, **Vitale M**, Children's Spine Study Group. The Association Between the Classification of Early-onset Scoliosis and Smith Complications After Initiation of Growth-friendly Spine Surgery: A Preliminary Study. *J Pediatr Orthop.* 2019 January 19. doi: 10.1097/BPO.0000000000001337. [Epub ahead of print] PMID: 30672765
43. Baranek ES, Maier SP 2nd, Matsumoto H, Hyman JE, **Vitale MG**, Roye DP Jr, Roye BD. Gross Motor Function Classification System Specific Growth Charts-Utility as a Risk Stratification Tool for Surgical Site Infection Following Spine Surgery. *J Pediatr Orthop.* 2018 Nov 2. doi: 10.1097/BPO.0000000000001285. [Epub ahead of print] PMID: 30395003
44. Nielsen E, Andras LM, Bellaire L, Fletcher ND, Minkara A, **Vitale MG**, Troy M, Glotzbecker M, Skaggs DL. Don't you wish you had fused to the pelvis the first time: a comparison of reoperation rate and correction of pelvic obliquity. *Spine.* 2018 Oct 5. doi: 10.1097/BRS.0000000000002888. [Epub ahead of print] PMID: 30299416
45. Larson AN, Ledonio CGT, Brearley AM, Sucato DJ, Carreon LY, Crawford AH, Stevenson DA, **Vitale MG**, Moertel CL, Polly DW Jr. Predictive Value and Interrater Reliability of Radiographic Factors in Neurofibromatosis Patients With Dystrophic Scoliosis. *Spine Deform.* 2018 Sept – Oct; 6(5):560-567. PMID: 30122392
46. Roye BD, **Vitale MG**. Nonoperative treatment of infantile spinal deformity. *Current Orthopaedic Practice.* 2018 Sept-Oct; 29(5): 436-39.
47. Beauchamp EC, Anderson RCE, **Vitale MG**. Modern Surgical Management of Early Onset and Adolescent Idiopathic Scoliosis. *Neurosurgery.* 2018 July 17. doi: 10.1093/neuros/nyy267. [Epub ahead of print] PMID: 30016462
48. Imahiyerobo T, Minkara AA, Matsumoto H, **Vitale MG**. Plastic Multilayered Closure in Pediatric Nonidiopathic Scoliosis Is Associated With a Lower Than Expected Incidence of Wound Complications and Surgical Site Infections. *Spine Deform.* 2018 Jul - Aug;6(4):454-459. doi: 10.1016/j.jspd.2017.12.009. PMID:29886919
49. Bachabi M, McClung A, Pawelek JB, El Hawary R, Thompson GH, Smith JT, **Vitale MG**, Akbarnia BA, Sponseller PD, Children's Spine Study Group, Growing Spine Study Group. Idiopathic Early-Onset Scoliosis: Growing Rods Versus Vertically Expandable Prosthetic Titanium Ribs at 5-Year Follow-up. *J Pediatr Orthop.* 2018 June 8. doi: 10.1097/BPO.0000000000001202. [Epub ahead of print] PMID: 29889772
50. Feinberg N, Matsumoto H, Hung CW, St Hilaire T, Pawelek J, Sawyer JR, Akbarnia BA, Skaggs DL, Roye BD, Roye DP Jr, **Vitale MG**. Expert Consensus and Equipose: Planning a Randomized Controlled Trial of Magnetically Controlled Growing Rods. *Spine Deform.* 2018 May - Jun;6(3):303-307. doi: 10.1016/j.jspd.2017.11.002. PMID:29735141

51. Matsumoto H, Williams B, Park HY, Yoshimachi JY, Roye BD, Roye DP Jr, Akbarnia BA, Emans J, Skaggs D, Smith JT, **Vitale MG**. The Final 24-Item Early Onset Scoliosis Questionnaires (EOSQ-24): Validity, Reliability and Responsiveness. *J Pediatr Orthop*. 2018 Mar;38(3):144-151. doi: 10.1097/BPO.0000000000000799.PMID:27299779
52. **Vitale M**, Minkara A, Matsumoto H, Albert T, Anderson R, Angevine P, Buckland A, Cho S, Cunningham M, Errico T, Fischer C, Kim HJ, Lehman R Jr., Lonner B, Passias P, Protosaltis T, Schwab F, Lenke L. Building Consensus: Development of Best Practice Guidelines on Wrong Level Surgery in Spinal Deformity. *Spine Deform*. 2018 Mar - Apr;6(2):121-129. doi: 10.1016/j.jspd.2017.08.005. Epub 2017 Oct 18. PMID: 29413733
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PRESENTATIONS/ABSTRACTS:

1. Simhon ME, Matsumoto H, Fields MW, Marciano GF, Bobby AZ, Roye BD, **Vitale MG**. In-Brace Axial Rotation Magnitude and Improvement is Associated with Lower Rates of Curve Progression in AIS. Scoliosis Research Society (SRS) 55th Annual Meeting & Course. Virtual Online Meeting, September 9-13, 2020. [Podium]

2. Miyanji, F., **Vitale, M.G.**, El-Hawary, R., Murphy, J.S., Fields, M.W., Matsumoto, H., Skaggs, D.L., Parent, S., Pediatric Spine Study Group. Shoulder Balance in Lenke Type 1 and 2 Idiopathic Scoliosis Following Anterior Vertebral Body Tethering of the Spine. Scoliosis Research Society (SRS) 55th Annual Meeting & Course. Virtual Online Meeting, September 9-13, 2020. [Podium]
3. Roye BD, Fields MW, Matsumoto H, Sponseller P, Sánchez Pérez-Grueso FJ, Boachie-Adjei O, Hammerberg K, Welborn MC, **Vitale MG**, Pediatric Spine Study Group. Utilization of Intraoperative Cranial Traction Protects Non-Idiopathic Patients from Postoperative Complications following Growing Rod Instrumentation. Scoliosis Research Society (SRS) 55th Annual Meeting & Course. Virtual Online Meeting, September 9-13, 2020. [ePoster]
4. Simhon ME, Matsumoto M, Marciano G, Roye BD, **Vitale MG**. Improvement in In-Brace Axial Rotation is Associated with Lower Rates of Curve Progression in AIS. 27th International Meeting on Advanced Spine Techniques (IMAST). Virtual Online Meeting, 2020 Live Sessions: July 10, 11, 18, 25 & August 1, 8, 15, 22. [ePoster]
5. Simhon M, Roye BD, Matsumoto H, Berdishevsky H, Dolan L, Grivas T, Hresko MT, Karol L, Mendelow M, Negrini S, Newton P, Parent E, Rigo M, Weinstein SL, **Vitale MG**. Establishing Consensus on the Best Practice Guidelines for the Use of Bracing in Adolescent Idiopathic Scoliosis. 27th International Meeting on Advanced Spine Techniques (IMAST). Virtual Online Meeting, 2020 Live Sessions: July 10, 11, 18, 25 & August 1, 8, 15, 22. [ePoster]
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7. Matsumoto H, Ball J, Roye BD, Garg S, Erickson MA, Samdani AF, Skaggs D, Roye DP, **Vitale MG**, Pediatric Spine Study Group. Uncorrected Pelvic Obliquity is Associated with Lower Health Related Quality of Life (HRQoL) in Ambulatory but not in Non-Ambulatory Patients After Surgical Treatment in Patients with Early Onset Scoliosis (EOS). 27th International Meeting on Advanced Spine Techniques (IMAST). Virtual Online Meeting, 2020 Live Sessions: July 10, 11, 18, 25 & August 1, 8, 15, 22. [ePoster]
8. Simhon M, Roye BD, Matsumoto H, Garg S, Redding G, Samdani AF, Smith J, Sponseller P, **Vitale MG**, Pediatric Spine Study Group. Bigger is Better: Larger Thoracic Height is Associated with Increased Health Related Quality of Life at Skeletal Maturity. 27th International Meeting on Advanced Spine Techniques (IMAST). Virtual Online Meeting, 2020 Live Sessions: July 10, 11, 18, 25 & August 1, 8, 15, 22. [Podium]
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11. Matsumoto H, Ball J, Roye BD, Garg S, Erickson M, Samdani A, Skaggs D, Roye DP, **Vitale MG**, PSSG. Uncorrected Pelvic Obliquity is Associated with Lower Health Related Quality of Life in Ambulatory but not in Non-Ambulatory Patients After Surgical Treatment in Patients with Early Onset Scoliosis. Pediatric Orthopaedic Society of North America Annual Meeting. May 13-16, 2020 [ePoster]
12. Simhon M, Matsumoto H, Garg S, Samdani A, Redding G, Smith J, Sponseller P, **Vitale MG**, Roye BD, PSSG. Bigger is Better: Larger thoracic height is associated with increased health related quality of life at skeletal maturity. Pediatric Orthopaedic Society of North America Annual Meeting. May 13-16, 2020. [Podium Presentation]
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14. Roye BD, Marciano G, Matsumoto H, Campbell M, White K, Sawyer J, Smith J, Luhmann S, Sturm PF, Sponseller P, **Vitale MG**, PSSG. Rod Diameter Does Not Influence Rod Fracture Rate after Surgical Treatment using Magnetically Controlled Growing Rods. International Congress on Early Onset Scoliosis. Atlanta, GA. November 21-22, 2019. [Podium Presentation.][Nominated for Best Abstract]
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16. Hamoor BT, Matsumoto H, Marciano G, Dzieszinski L, Roye DP, Roye BD, **Vitale MG**. Promising but Imperfect: The Effectiveness of Quality Programs for Surgical Site Infections in Pediatric Spinal Surgery Diminishes Over Time. American Academy of Orthopedic Surgeons Annual Meeting. March 24-28, 2020. [Paper Presentation]
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23. Simhon M, Matsumoto H, Garg S, Samdani A, Smith J, Sponseller P, **Vitale MG**, Roye BD, CSSG, GSSG. Bigger is Better: Larger Thoracic Height is Associated with Increased Health Related Quality of Life at Skeletal Maturity. Scoliosis Research Society 54th Annual Meeting and Course. Montreal, Canada. September 18-21, 2019. [Podium Presentation.]
24. Roye BD, Marciano G, Matsumoto H, Campbell M, White K, Sawyer J, Smith J, Luhmann S, Sturm PF, Sponseller P, **Vitale MG**, PSSG. Rod Diameter Does Not Influence Rod Fracture Rate after Surgical Treatment using Magnetically Controlled Growing Rods. International Congress on Early Onset Scoliosis. Atlanta, GA. November 21-22, 2019. [Podium Presentation.]
25. Matsumoto H, Ball J, Roye BD, Garg S, Smith J, Gupta P, Roye DP, **Vitale MG**, PSSG. Uncorrected Pelvic Obliquity is Associated with Lower EOSQ-24 Scores in Ambulatory but not in Non-Ambulatory Patients After Surgical Treatment of EOS. International Congress on Early Onset Scoliosis. Atlanta, GA. November 21-22, 2019. [E-Poster Presentation.]

26. Simhon M, Matsumoto H, Garg S, Samdani A, Smith J, Sponseller P, **Vitale MG**, Roye BD, CSSG, GSSG. Bigger is better: Larger thoracic height is associated with increased health related quality of life at skeletal maturity. American Academy of Pediatric National Conference and Exhibition. New Orleans, LA. October 25-29, 2019. [Oral Presentation]
27. Hammoor B, Matsumoto H, Marciano GF, Dzieszinski L, Roye BD, Roye DP, **Vitale MG**. Surgical Site Infections in Pediatric Spinal Surgery over a Decade of Serial and Iterative Efforts to Eradicate Infection: Timing Matters. 40th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Muscat, Oman. December 4-7, 2019 [Oral Free Paper]
28. Campbell M, DeAllie C, Matsumoto H, Callejo Gbolo F, Bainton N, **Vitale MG**, Roye BD, Hyman JE, Roye DP. Patients with Scoliosis in the Setting of Cerebral Palsy are at a Higher Risk for Needing Assistive Devices. 40th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Muscat, Oman. December 4-7, 2019 [Oral Free Paper]
29. Matsumoto M, Campbell M, Roye BD, Roye DP, Lenke LG, Sponseller PD, Flynn J, Skaggs D, Glotzbecker M, **Vitale MG**, Harms Study Group. Development and Validation of a Risk Severity Score Identifying Patients with Cerebral Palsy at High-Risk for Developing Surgical Site Infection after Spinal Surgery. 40th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Muscat, Oman. December 4-7, 2019 [Oral Free Paper]
30. Hammoor B, Matsumoto H, Marciano G, Wang K, Dzieszinski L, **Vitale MG**. Surgical Site Infections in Pediatric Spinal Surgery over a Decade of Serial and Iterative Efforts to Eradicate Infection: Timing Matters. Pediatric Orthopaedic Society of North America (POSNA) 2019. Charlotte, NC. May 15-18, 2019. [Podium Presentation]
31. Matsumoto H, Warren S, Campbell M, Tunney J, Bainton N, Hyman JE, Roye BD, Roye DP, **Vitale MG**. It's Not Just About the Frontal Plane: Sagittal Parameters Impact Curve Progression in AIS Patients Undergoing Brace Treatment. Pediatric Orthopaedic Society of North America (POSNA) 2019. Charlotte, NC. May 15-18, 2019. [Free Paper Presentation]
32. Matsumoto H, Campbell M, Roye BD, Roye DP, Lenke L, Sponseller P, Flynn J, Skaggs D, Glotzbecker M, **Vitale MG**. Development and Validation of a Risk Severity Score Identifying Patients with Cerebral Palsy at High-Risk for Developing Surgical Site Infection After Spinal Surgery. Pediatric Orthopaedic Society of North America (POSNA) 2019. Charlotte, NC. May 15-18, 2019. [Podium Presentation]
33. Roye BD, Marciano G, Campbell M, Matsumoto H, White K, Sawyer J, Smith J, Luhmann S, Sturm P, Sponseller P, **Vitale MG**, Children's Spine Study Group, Growing Spine Study Group. Relationship Between Body Mass, Rod Diameter and Rod Fracture in Magnetically Controlled Growing Rods. Pediatric Orthopaedic Society of North America (POSNA) 2019. Charlotte, NC. May 15-18, 2019. [Podium Presentation]
34. Hung CW, Campbell M, Matsumoto H, Roye DP, **Vitale MG**, Roye BD. Comparing Risk of Unplanned Returned to the Operating Room (UPROR): Magnetically Controlled Growing Rod (MCGR) System vs Prosthetic Rib Constructs (PRC). Pediatric Orthopaedic Society of North America (POSNA) 2019. Charlotte, NC. May 15-18, 2019. [E-Poster]
35. Baranek E, Maier S, Matsumoto H, Hyman JE, **Vitale MG**, Roye DP, Roye BD. Gross Motor Function Classification System Specific Growth Charts – Utility as a Risk Stratification Tool for Surgical Site Infection Following Spine Surgery in Children with Cerebral Palsy. Pediatric Orthopaedic Society of North America (POSNA) 2019. Charlotte, NC. May 15-18, 2019. [Paper/Poster Presentation]
36. Matsumoto H, Campbell M, Roye BD, Sponseller PD, Flynn J, Skaggs D, Glotzbeker M, Lenke L, **Vitale MG**, Harms Study Group. Development and Validation of a Risk Severity Score for Surgical Site Infection after Spinal Surgery: Identifying High-Risk Patients with Cerebral Palsy. American Academy of Orthopaedic Surgeons (AAOS) 2019 Annual Meeting. Las Vegas, NV. March 12-16, 2019. [Paper/Poster Presentation]
37. Campbell M, DeAllie C, Matsumoto H, Callejo Gbolo F, Bainton N, **Vitale MG**, Roye BD, Hyman JE, Roye DP. Patients with Scoliosis in the setting of Cerebral Palsy are at a higher risk for needing assistive devices. American Academy of Orthopaedic Surgeons (AAOS) 2019 Annual Meeting. Las Vegas, NV. March 12-16, 2019. [Paper/Poster Presentation]

38. Campbell M, Matsumoto H, Brown C, Callejo Gbolo F, Roye DP, Roye BD, Larson AN, **Vitale MG**, CSSG. To What Degree Does Surgeon Experience Matter? Predicting Risk of Surgical Site Infection in Early Onset Scoliosis. American Academy of Orthopaedic Surgeons (AAOS) 2019 Annual Meeting. Las Vegas, NV. March 12-16, 2019. [Paper/Poster Presentation]
39. Hung CW, Campbell M, Matsumoto H, **Vitale MG**, Roye DP, Roye BD. Magnetically Controlled Growing Rod Systems Have Higher Rate of Adverse Events Compared to Prosthetic Rib Constructs. American Academy of Orthopaedic Surgeons (AAOS) 2019 Annual Meeting. Las Vegas, NV. March 12-16, 2019. [Paper/Poster Presentation]
40. Matsumoto H, Campbell M, Roye BD, Sponseller PD, Flynn J, Skaggs D, Glotzbeker M, Lenke L, **Vitale MG**, Harms Study Group. Development and Validation of a Risk Severity Score for Surgical Site Infection after Spinal Surgery: Identifying High-Risk Patients with Cerebral Palsy. *American Academy of Orthopaedic Surgeons (AAOS) 2019 Annual Meeting. Las Vegas, NV. March 12-16, 2019. [Paper/Poster Presentation]*
41. Campbell M, DeAllie C, Matsumoto H, Callejo Gbolo F, Bainton N, **Vitale MG**, Roye BD, Hyman JE, Roye DP. Patients with Scoliosis in the setting of Cerebral Palsy are at a higher risk for needing assistive devices. *American Academy of Orthopaedic Surgeons (AAOS) 2019 Annual Meeting. Las Vegas, NV. March 12-16, 2019. [Paper/Poster Presentation]*
42. Campbell M, Matsumoto H, Brown C, Callejo Gbolo F, Roye DP, Roye BD, Larson AN, **Vitale MG**, CSSG. To What Degree Does Surgeon Experience Matter? Predicting Risk of Surgical Site Infection in Early Onset Scoliosis. *American Academy of Orthopaedic Surgeons (AAOS) 2019 Annual Meeting. Las Vegas, NV. March 12-16, 2019. [Paper/Poster Presentation]*
43. Hung CW, Campbell M, Matsumoto H, **Vitale MG**, Roye DP, Roye BD. Magnetically Controlled Growing Rod Systems Have Higher Rate of Adverse Events Compared to Prosthetic Rib Constructs. *American Academy of Orthopaedic Surgeons (AAOS) 2019 Annual Meeting. Las Vegas, NV. March 12-16, 2019. [Paper/Poster Presentation]*
44. Roye BD, Campbell M, Matsumoto H, Pahys J, Welborn M, Sawyer J, Fletcher N, McIntosh A, Sturm PF, Gomez JA, Lenke L, **Vitale MG**, Children's Spine Study Group. Consensus-Based Best Practice Guidelines (BPG) for Use of Preoperative Halo Gravity Traction (HGT) for Pediatric Spinal Deformity. *2018 International Congress on Early Onset Scoliosis and Growing Spine (ICEOS). Lisbon, Portugal. November 15-16, 2018. [Oral Presentation]*
45. Roye BD, Matsumoto H, Hung CW, Campbell M, Beauchamp E, Roye DP, **Vitale MG**. Comparing Risk of Unplanned Returned to the Operating Room (UPROR): Magnetically Controlled Growing Rod (MCGR) System vs Prosthetic Rib Constructs (PRC). *2018 International Congress on Early Onset Scoliosis and Growing Spine (ICEOS). Lisbon, Portugal. November 15-16, 2018. [Oral Presentation]*
46. Siddiqui A, Nazareth A, Andras P, Gupta P, **Vitale M**, Smith J, Skaggs D. 18% of EOS patients Treated with MCGR have Minimal Lengthening Episodes Resulting in < 1mm of Distraction. *2018 International Congress on Early Onset Scoliosis and Growing Spine (ICEOS). Lisbon, Portugal. November 15-16, 2018. [Oral Presentation]*
47. Gomez J, Xin R, Lo Y, Hanstein R, Hilaire T, Flynn T, White K, El-Hawary R, Garg S, Cahill P, **Vitale M**, Redding G. Single Fusion (PSF) Vs Growth Friendly (GF) Device in Older EOS Patients. *2018 International Congress on Early Onset Scoliosis and Growing Spine (ICEOS). Lisbon, Portugal. November 15-16, 2018. [Oral Presentation]*
48. Murgai R, Schur M, Andras L, Gonsalves N, Sponseller P, Emans J, **Vitale M**, Skaggs D, Growing Spine Study Group, Children's Spine Study Group. Pelvic Screw Fixation Maintains Lumbar Lordosis in Growing Rod Constructs Better Than S Hooks. *2018 International Congress on Early Onset Scoliosis and Growing Spine (ICEOS). Lisbon, Portugal. November 15-16, 2018. [E-Poster]*
49. Ramirez N, Olivella G, Rodriguez O, Marrero P, Smith J, Garg S, **Vitale M**, Betz RR, Children's Spine Study Group. Repeated lengthening of rib to pelvis distraction devices in Neuromuscular Early Onset Scoliosis patients shows limited spinal alignment correction. *2018 International Congress on Early Onset Scoliosis and Growing Spine (ICEOS). Lisbon, Portugal. November 15-16, 2018. [E-Poster]*

50. Hung CW, Matsumoto H, Campbell M, **Vitale MG**, Roye DP, Roye BD. Magnetically Controlled Growing Rod Systems Have Higher Hazard of Adverse Events Compared to Prosthetic Rib Constructs. *2018 Scoliosis Research Society (SRS) 53rd Annual Meeting & Course. Bologna, Italy. October 10-13, 2018. [Podium Presentation]*
51. DeAllie C, Matsumoto H, Campbell M, Roye BD, **Vitale MG**, Roye DP. Scoliosis severity in cerebral palsy patients is associated with increased need for respiratory assistive aids. *2018 Scoliosis Research Society (SRS) 53rd Annual Meeting & Course. Bologna, Italy. October 10-13, 2018. [E-poster]*
52. Warren S, Matsumoto H, Campbell M, Tunney J, Bainton N, Hope J, Hyman J, Roye DP, Roye BD, **Vitale M**. Rigo Cheneau-Style Orthosis in Adolescent Idiopathic Scoliosis Lowers Risk of Curve Progression Compared to Boston-Style Orthosis by Achieving Higher In-Brace Correction. *2018 Scoliosis Research Society (SRS) 53rd Annual Meeting & Course. Bologna, Italy. October 10-13, 2018. [E-poster]*
53. Matsumoto H, Warren S, Campbell M, Tunney J, Bainton N, Hyman J, Roye BD, Roye DP, **Vitale M**. It's Not Just About the Frontal Plane: Spinopelvic Parameters Impact Curve Progression in AIS Patients Undergoing Brace Treatment. *2018 Scoliosis Research Society (SRS) 53rd Annual Meeting & Course. Bologna, Italy. October 10-13, 2018. [Podium Presentation]*
54. Campbell M, DeAllie C, Matsumoto H, Dziensikski L, Roye BD, **Vitale MG**, Roye DP. Patients with Cerebral Palsy and High Degrees of Scoliosis are at Greater Risk for Needing Food Modifications. *2018 American Academy for Cerebral Palsy and Developmental Medicine (AACPD) 72nd Annual Meeting. Cincinnati, OH. October 9-13, 2018. [Free Paper Presentation]*
55. DeAllie C, Matsumoto H, Campbell M, Roye BD, **Vitale MG**, Roye DP. Scoliosis severity in cerebral palsy patients is associated with increased need for respiratory assistive aids. *2018 American Academy for Cerebral Palsy and Developmental Medicine (AACPD) 72nd Annual Meeting. Cincinnati, OH. October 9-13, 2018. [Free Paper Presentation]*
56. Campbell M, Matsumoto H, Roye BD, Roye DP, Lenke L, **Vitale MG**, Harms Study Group. Validation of a Previously Published Risk Severity Score Predicting Surgical Site Infection after Spinal Deformity Surgery in Patients with Cerebral Palsy Utilizing a Large, Separate Cohort. *2018 American Academy for Cerebral Palsy and Developmental Medicine (AACPD) 72nd Annual Meeting. Cincinnati, OH. October 9-13, 2018. [Free Paper Presentation]*
57. Minkara A, Lindgren A, Grimes K, Callejo F, Khaleel A, Bakarania P, Berdishevsky H, Matsumoto H, Roye BD, Roye DP, Bayomy A, **Vitale M**. Compliance with Scoliosis Specific Exercises in Adolescent Idiopathic Scoliosis Leads to Lower Risk of Curve Progression and Surgery. *Pediatric Orthopaedic Society of North America (POSNA) 2018. Austin, TX. May 9-12, 2018. [E-Poster Presentation]*
58. Roye BD, Minkara A, Matsumoto H, Bainton N, Tanaka M, Callejo F, Kung J, DeAllie C, Roye DP, Beauchamp E, **Vitale M**. High Mismatch between Sanders and Risser Staging in Adolescent Idiopathic Scoliosis: Are We Guiding Treatment Using the Wrong Classification? *Pediatric Orthopaedic Society of North America (POSNA) 2018. Austin, TX. May 9-12, 2018. [E-Poster Presentation]*
59. **Vitale M**, Imahiyerobo T, Beauchamp E, Minkara A, Matsumoto H, Callejo F, Ha J, Roye BD, Roye DP. A Novel Wound Closure Method in Nonidiopathic Scoliosis Significantly Reduces the Risk of Wound Complications. *Pediatric Orthopaedic Society of North America (POSNA) 2018. Austin, TX. May 9-12, 2018. [E-Poster Presentation]*
60. Minkara A, Matsumoto H, Callejo F, Roye BD, Roye DP, **Vitale M**. Improvement of Pulmonary Function Measured by Patient-Reported Outcomes in Patients with Non-Idiopathic Scoliosis after Growth-Friendly Instrumentation. *Pediatric Orthopaedic Society of North America (POSNA) 2018. Austin, TX. May 9-12, 2018. [E-Poster Presentation]*
61. Minkara A, Matsumoto H, Glotzbecker M, Flynn J, Smith J, Samdani A, Saiman L, **Vitale M**, CSSG. Building the Case for Optimal Prophylaxis for Growth-Friendly Surgery for Non-idiopathic Scoliosis: Using Vancomycin and Aminoglycosides. *Pediatric Orthopaedic Society of North America (POSNA) 2018. Austin, TX. May 9-12, 2018. [Poster Presentation]*
62. Hung CW, Campbell M, Matsumoto H, Roye DP, **Vitale M**, Roye BD. Magnetically Controlled Growing Rods have a high rate of complications and return to OR. *Pediatric Orthopaedic Society of North America (POSNA) 2018. Austin, TX. May 9-12, 2018. [Podium Presentation]*

63. Roye BD, Campbell M, Matsumoto H, Callejo Gbolo F, Roye DP, El-Hawary R, Gupta P, Sawyer J, White K, Smith J, **Vitale M**. Smaller Rods in Magnetically Controlled Growing Rods are at Increased Risk of Fracture after 3 Years. *2018 American Academy of Pediatrics (AAP) National Conference and Exhibition. Orlando, FL. November 2-6, 2018. [Podium Presentation]*
64. Baranek E, Maier S, Matsumoto H, Hyman J, **Vitale M**, Roye DP, Roye BD. Gross Motor Function Classification System Specific Growth Charts – Utility as a Risk Stratification Tool for Surgical Site Infection Following Spine Surgery in Children with Cerebral Palsy. *2018 American Academy of Pediatrics (AAP) National Conference and Exhibition. Orlando, FL. November 2-6, 2018. [Podium Presentation]*
65. Matsumoto H, Warren S, Campbell M, Tunney J, Bainton N, Hyman J, Roye BD, Roye DP, **Vitale MG**. In-brace spinopelvic parameters are associated with curve progression at 2 years in patients with adolescent idiopathic scoliosis undergoing brace treatment. *2018 13th Annual Conference of the Society of Scoliosis Orthopaedic and Rehabilitation Treatment (SOSORT). Dubrovnik, Croatia. April 18-21, 2018. [PodiumPresentation]*
66. Warren S, Matsumoto H, Campbell M, Tunney J, Bainton N, Hope J, Hyman J, Roye DP, Roye BD, **Vitale MG**. Rigo System Cheneau Brace in Adolescent Idiopathic Scoliosis: Lower Risk of Curve Progression Compared to Boston-Style Orthosis Through Higher In-Brace Correction. *2018 13th Annual Conference of the Society of Scoliosis Orthopaedic and Rehabilitation Treatment (SOSORT). Dubrovnik, Croatia. April 18-21, 2018. [PodiumPresentation]*
67. Matsumoto H, Campbell M, Minkara A, Roye D, Johnston C, Garg S, Samdani A, Smith J, Sponseller P, Sturm P, **Vitale M**, CSSG, GSSG. Development of a Risk Severity Score (RSS) Predicting Surgical Site Infection in Early Onset Scoliosis: Identifying High-Risk Patients. *2017 International Congress on Early Onset Scoliosis and Growing Spine (ICEOS). San Diego, CA. November 16-17, 2017. [Oral Presentation]*
68. Minkara A, Matsumoto H, Clotzbecker M, Flynn J, Smith J, Samdani A, Saiman L, CSSG, **Vitale M**. Building the Case for Optimal Prophylaxis for Growth-Friendly Surgery for Non-idiopathic Scoliosis: Using Vancomycin and Aminoglycosides. *2017 International Congress on Early Onset Scoliosis and Growing Spine (ICEOS). San Diego, CA. November 16-17, 2017. [Oral Presentation]*
69. Hung C, Matsumoto H, Campbell M, Roye B, Roye D, **Vitale M**. Comparison of Complications and unplanned OR visits between Magnetically Controlled Growing Rods and Vertical Expandable Prosthetic Titanium Rib. *2017 International Congress on Early Onset Scoliosis and Growing Spine (ICEOS). San Diego, CA. November 16-17, 2017. [Oral Presentation]*
70. Sawyer J, Hung CW, Feinberg N, Matsumoto H, Smith J, Phillips J, Sturm P, **Vitale M**, CSSG. Hardware Complications for Early Onset Scoliosis Patients with Magnetically Controlled Growing Rods are Higher than Traditional Growth Rods at 2-years Follow-Up. *2017 American Academy of Pediatrics (AAP) National Conference and Exhibition. Chicago, IL. September 15-19, 2017. [Oral Presentation]*
71. Matsumoto H, Minkara A, Feinberg N, Smith J, Samdani A, Glotzbecker M, Sawyer J, Skaggs D, Roye D, Roye B, **Vitale M**, GSSG, CSSG. Development of a Risk Severity Score for Surgical Site Infection: Identifying High-Risk Non-Idiopathic Patients Undergoing Spinal Fusion and Instrumentation. *2017 American Academy of Pediatrics (AAP) National Conference and Exhibition. Chicago, IL. September 15-19, 2017. [Oral Presentation]*
72. Matsumoto H, Mueller J, Minkara A, Cahill P, Sturm P, Smith J, Thompson G, Sponseller P, Skaggs D, Thompson G, **Vitale M**, Roye D, Growing Spine Study Group, Children’s Spine Study Group. Improvement of Pulmonary Function Measured by Patient-Reported Outcomes in Patients with Spinal Muscular Atrophy after Growth-Friendly Instrumentation. *Scoliosis Research Society 52nd Annual Meeting. Philadelphia, PA. September 6-9, 2017. [Podium Presentation]*
73. Matsumoto H, Auran E, Hung CW, Sturm P, Garg S, Sanders J, Oetgen M, Roye D, **Vitale M**, CSSG, GSSG. All that Glitters is Not Gold – Serial Casting for EOS Negatively Affects Health-Related Quality of Life even after Discontinuation of Serial Casting: A 2 Year Follow-up. *Scoliosis Research Society 52nd Annual Meeting. Philadelphia, PA. September 6-9, 2017. [Podium Presentation]*
74. Matsumoto H, Minkara A, Feinberg N, Smith J, Samdani A, Glotzbecker M, Sawyer J, Skaggs D, Roye D, **Vitale M**, GSSG, CSSG. Development of a Risk Severity Score Predicting Surgical Site Infection in Early Onset Scoliosis.

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75. Nielsen E, Andras L, Bellaire L, Fletcher N, Minkara A, **Vitale M**, Troy M, Glotzbecker M, Skaggs DL. Don't You Wish You Had Fused to the Pelvis the First Time: A Comparison of Complications and Correction of Pelvic Obliquity. *Scoliosis Research Society 52nd Annual Meeting. Philadelphia, PA. September 6-9, 2017. [Podium Presentation]*
76. Minkara A, **Vitale M**, Matsumoto H, Glotzbecker M, Flynn J, Smith J, Samdani A, Saiman L, CSSG. Building the Case for Optimal Prophylaxis for Growth-Friendly Surgery for Non-idiopathic Scoliosis: Using Vancomycin and Aminoglycosides. *Scoliosis Research Society 52nd Annual Meeting. Philadelphia, PA. September 6-9, 2017. [Podium Presentation]*
77. Skaggs D, Akbarnia B, Pawelek J, Matsumoto H, St. Hilaire T, Sturm P, Perez-Grueso F, Luhmann S, Sponseller P, Smith J, White K, **Vitale M**, Children's Spine Study Group, Growing Spine Study Group. Magnetically-Controlled Growing Rod Patients Have Better HRQOL Measures Compared to Traditional Growing Rod Patients: A Multicenter Pilot Study. *24th International Meeting on Advanced Spine Techniques. Cape Town, South Africa. July 12-15, 2017. [Oral Presentation]*
78. Kondratyeva A, Feinberg N, Bloom Z, Hung C, Matsumoto H, Smith J, Pahys J, Garg S, Roye D, **Vitale M**, CSSG. Proximal Rib-Based Constructs in EOS: Survivorship at or near Skeletal Maturity. *24th International Meeting on Advanced Spine Techniques. Cape Town, South Africa. July 12-15, 2017. [Oral Presentation]*
79. Lindgren A, Minkara A, Grimes K, Berdishevsky H, Bakarania P, Matsumoto H, Roye D, **Vitale M**. Physiotherapeutic Scoliosis Specific Exercise (PSSE) Utilizing the Schroth Method in Adolescent Idiopathic Scoliosis: 10 Sessions Predicts Higher Compliance and Home Exercise Duration. *2017 12th Annual Conference of The Society of Scoliosis Orthopaedic and Rehabilitation Treatment (SOSORT). Lyon, France. May 4-6, 2017. [Oral Presentation]*
80. Bakarania P, Feinberg N, Minkara A, Hope J, Tunney J, Berdishevsky H, Grimes K, Swindell H, Yoshimachi J, Roye D, **Vitale M**. RIGO System Cheneau brace: Higher in-brace correction and lower risk of 6-month curve progression compared to TLSO. *2017 12th Annual Conference of The Society of Scoliosis Orthopaedic and Rehabilitation Treatment (SOSORT). Lyon, France. May 4-6, 2017. [Oral Presentation]*
81. Minkara A, Tunney J, **Vitale M**. RIGO System Cheneau Brace in AIS: Radiographic Predictors of Curve Progression. *2017 12th Annual Conference of The Society of Scoliosis Orthopaedic and Rehabilitation Treatment (SOSORT). Lyon, France. May 4-6, 2017. [Oral Presentation]*
82. Matsumoto H, Roye D, Auran E, Sturm P, Garg S, Sanders J, Oetgen M, **Vitale M**. Quality of Life and Burden of Care in Patients with EOS Undergoing Casting. *European Pediatric Orthopaedic Society/Pediatric Orthopaedic Society of North America Combined Annual Meeting. Barcelona, Spain. May 3-6, 2017. [E-Poster]*
83. **Vitale M**, Matsumoto H, Feinberg N, Smith J, Samdani A, Glotzbecker M, Sawyer J, Skaggs D, Roye D, GSSG, CSSG. Development of a Risk Severity Score Predicting Surgical Site Infection in Early Onset Scoliosis. *2017 American Orthopaedic Association (AOA) Annual Leadership Meeting. Charlotte, NC. June 20-24, 2017. [E-Poster]*
84. Kondratyeva A, Feinberg N, Bloom Z, Hung CW, Matsumoto H, Smith J, Samdani A, Pahys J, Garg S, Roye D, **Vitale M**, CSSG. Proximal Rib-Based Constructs in Early Onset Scoliosis: Long-Term Follow up and Survivorship. *2017 American Orthopaedic Association (AOA) Annual Leadership Meeting. Charlotte, NC. June 20-24, 2017. [E-Poster]*
85. Sawyer J, Hung CW, Feinberg N, Matsumoto H, Smith J, Phillips J, Sturm P, Roye D, **Vitale M**, CSSG. Comparison of Newly Implanted versus Converted Magnetically Controlled Growing Rods (MCGR) from the Post-United States Release. *2017 American Orthopaedic Association (AOA) Annual Leadership Meeting. Charlotte, NC. June 20-24, 2017. [E-Poster]*
86. Mueller J, Matsumoto H, Cahill P, Sturm P, Smith J, Roye D, **Vitale M**, CSSG. Improvement of Pulmonary Function Measured by Patient-Reported Outcomes in Patients with Spinal Muscular Atrophy after VEPTR Surgery. *2017 American Orthopaedic Association (AOA) Annual Leadership Meeting. Charlotte, NC. June 20-24, 2017. [E-Poster, Poster]*

87. Auran E, Matsumoto H, Sturm P, Garg S, Sanders J, Oetgan M, Roye D, **Vitale M**, CSSG, GSSG. Quality of Life and Burden of Care in Patients with EOS Undergoing Casting. *2017 American Orthopaedic Association (AOA) Annual Leadership Meeting. Charlotte, NC. June 20-24, 2017. [E-Poster]*
88. Sawyer J, Hung CW, Feinberg N, Matsumoto H, Smith J, Phillips J, Sturm P, **Vitale M**, CSSG. Hardware Complications for Early Onset Scoliosis Patients with Magnetically Controlled Growing Rods are Higher than Traditional Growth Rods at 2-years Follow-Up. *2017 American Academy of Pediatrics (AAP) National Conference and Exhibition. Chicago, IL. September 15-19, 2017. [Oral Presentation]*
89. Matsumoto H, Minkara A, Feinberg N, Smith J, Samdani A, Glotzbecker M, Sawyer J, Skaggs D, Roye D, Roye B, **Vitale M**, GSSG, CSSG. Development of a Risk Severity Score for Surgical Site Infection: Identifying High-Risk Non-Idiopathic Patients Undergoing Spinal Fusion and Instrumentation. *2017 American Academy of Pediatrics (AAP) National Conference and Exhibition. Chicago, IL. September 15-19, 2017. [Oral Presentation]*
90. Kondratyeva A, Feinberg N, Bloom Z, Hung CW, Matsumoto H, Smith J, Pahys J, Garg S, Roye D, **Vitale M**, CSSG. Proximal Rib-Based Constructs in EOS: Survivorship at or near Skeletal Maturity. *Scoliosis Research Society 52nd Annual Meeting. Philadelphia, PA. September 6-9, 2017. [E-Poster]*
91. Sawyer J, Hung CW, Bloom Z, Matsumoto H, Smith J, Phillips J, Sturm P, Sanders J, Jain V, Ramo B, **Vitale M**, Growing Spine Study Group, Children's Spine Study Group. Conversion of Traditional Growth Friendly Instrumentation to Magnetically Controlled Growth Rods Does Not Affect Radiographic Outcomes Nor Increase Hardware Related Complications at Two Years Follow Up. *Scoliosis Research Society 52nd Annual Meeting. Philadelphia, PA. September 6-9, 2017. [E-Poster]*
92. Matsumoto H, Mueller J, Minkara A, Cahill P, Sturm P, Smith J, Thompson G, Sponseller P, Skaggs D, Thompson G, **Vitale M**, Roye D, Growing Spine Study Group, Children's Spine Study Group. Improvement of Pulmonary Function Measured by Patient-Reported Outcomes in Patients with Spinal Muscular Atrophy after Growth-Friendly Instrumentation. *Scoliosis Research Society 52nd Annual Meeting. Philadelphia, PA. September 6-9, 2017. [Podium Presentation]*
93. Matsumoto H, Auran E, Hung CW, Sturm P, Garg S, Sanders J, Oetgan M, Roye D, **Vitale M**, CSSG, GSSG. All that Glitters is Not Gold – Serial Casting for EOS Negatively Affects Health-Related Quality of Life even after Discontinuation of Serial Casting: A 2 Year Follow-up. *Scoliosis Research Society 52nd Annual Meeting. Philadelphia, PA. September 6-9, 2017. [Podium Presentation]*
94. Matsumoto H, Minkara A, Feinberg N, Smith J, Samdani A, Glotzbecker M, Sawyer J, Skaggs D, Roye D, **Vitale M**, GSSG, CSSG. Development of a Risk Severity Score Predicting Surgical Site Infection in Early Onset Scoliosis. *Scoliosis Research Society 52nd Annual Meeting. Philadelphia, PA. September 6-9, 2017. [Podium Presentation]*
95. Nielsen E, Andras L, Bellaire L, Fletcher N, Minkara A, **Vitale M**, Troy M, Glotzbecker M, Skaggs DL. Don't You Wish You Had Fused to the Pelvis the First Time: A Comparison of Complications and Correction of Pelvic Obliquity. *Scoliosis Research Society 52nd Annual Meeting. Philadelphia, PA. September 6-9, 2017. [Podium Presentation]*
96. Minkara A, **Vitale M**, Matsumoto H, Glotzbecker M, Flynn J, Smith J, Samdani A, Saiman L, CSSG. Building the Case for Optimal Prophylaxis for Growth-Friendly Surgery for Non-idiopathic Scoliosis: Using Vancomycin and Aminoglycosides. *Scoliosis Research Society 52nd Annual Meeting. Philadelphia, PA. September 6-9, 2017. [Podium Presentation]*
97. Minkara A, **Vitale M**, Matsumoto H, Glotzbecker M, Flynn J, Smith J, Samdani A, Saiman L, CSSG. Deep Surgical Site Infections (SSIs) Following Growth Friendly Procedures in Children with Non-idiopathic Scoliosis Requiring Repetitive Surgery: Per Patient Risk 6-Fold Higher than Per Procedure Risk. *Scoliosis Research Society 52nd Annual Meeting. Philadelphia, PA. September 6-9, 2017. [Podium Presentation]*
98. Skaggs D, Akbarnia B, Pawelek J, Matsumoto H, St. Hilaire T, Sturm P, Perez-Grueso F, Luhmann S, Sponseller P, Smith J, White K, **Vitale M**, Children's Spine Study Group, Growing Spine Study Group. Magnetically-Controlled Growing Rod Patients Have Better HRQOL Measures Compared to Traditional Growing Rod Patients: A Multicenter Pilot Study. *24th International Meeting on Advanced Spine Techniques. Cape Town, South Africa. July 12-15, 2017. [Oral Presentation]*

99. Kondratyeva A, Feinberg N, Bloom Z, Hung C, Matsumoto H, Smith J, Pahys J, Garg S, Roye D, **Vitale M**, CSSG. Proximal Rib-Based Constructs in EOS: Survivorship at or near Skeletal Maturity. *24th International Meeting on Advanced Spine Techniques. Cape Town, South Africa. July 12-15, 2017. [Oral Presentation]*
100. Matsumoto H, Hung C, Franzone JM, Troy MJ, Barrett KK, Striano B, Flynn JM, Skaggs DL, Glotzbecker MP, **Vitale M**, Roye DP. A Novel Risk Severity Score to Predict Pediatric Spine Surgical Site Infection in Patients with Cerebral Palsy Ranges from 0.88% to 23.3%. *American Academy for Cerebral Palsy and Developmental Medicine 71st Annual Meeting. Montreal, Canada. September 13-16, 2017. [Free Paper Presentation]*
101. Lindgren A, Minkara A, Grimes K, Berdishevsky H, Bakarania P, Matsumoto H, Roye D, **Vitale M**. Physiotherapeutic Scoliosis Specific Exercise (PSSE) Utilizing the Schroth Method in Adolescent Idiopathic Scoliosis: 10 Sessions Predicts Higher Compliance and Home Exercise Duration. *Society on Scoliosis Orthopaedic and Rehabilitation Treatment 2017 Meeting. Lyon, France. May 4-6, 2017. [oral presentation]*
102. Matsumoto H, Auran E, Sturm P, Garg S, Sanders J, Oegen M, Roye DP, **Vitale M**, CSSG, GSSG. All that Glitters is Not Gold – Serial Casting for EOS Negatively Affects Health-Related Quality of Life even after Discontinuation of Serial Casting. *European Pediatric Orthopaedic Society/Pediatric Orthopaedic Society of North America Combined Annual Meeting. Barcelona, Spain May 3-6, 2017. [e-poster]*
103. Kondratyeva A, Feinberg N, Bloom Z, Hung C, Matsumoto H, Smith J, Pahys J, Garg S, **Vitale M**, CSSG. Proximal Rib-Based Constructs (VEPTR) in EOS: Survivorship at or near Skeletal Maturity. *European Pediatric Orthopaedic Society/Pediatric Orthopaedic Society of North America Combined Annual Meeting. Barcelona, Spain May 3-6, 2017. [e-poster]*
104. Sawyer J, Hung C, Bloom Z, Matsumoto H, Smith J, Phillips J, Sturm P, **Vitale M**, CSSG. Expect Minimal Further Correction and Higher Risk of Complications in Revision from Traditional Growth Rods to Magnetically Controlled Growing Rods. *European Pediatric Orthopaedic Society/Pediatric Orthopaedic Society of North America Combined Annual Meeting. Barcelona, Spain May 3-6, 2017. [Poster]*
105. Matsumoto H, Roye DP, Feinberg N, Smith J, Samdani A, Glotzbecker M, Sawyer J, Skaggs DL, **Vitale M**, CSSG, CSSG. Novel Risk Severity Score for Early Onset Scoliosis Predicts SSI Rates Ranging From 5.7% to 79.6%. *European Pediatric Orthopaedic Society/Pediatric Orthopaedic Society of North America Combined Annual Meeting. Barcelona, Spain May 3-6, 2017. [podium presentation]*
106. Roye DP, Matsumoto H, Hung CW; Franzone JM, Feinberg NA, Mackenzie WS, Troy MJ, Barrett KK, Striano B, Flynn JM, Skaggs DL, Glotzbecker MP, **Vitale M**, Growing Spine Study Group, Children's Spine Study Group. A Novel Risk Severity Score to Predict Pediatric Spine Surgical Site Infection in Patients with Cerebral Palsy Ranges from 0.88% to 23.3%. *European Pediatric Orthopaedic Society/Pediatric Orthopaedic Society of North America Combined Annual Meeting. Barcelona, Spain May 3-6, 2017. [podium presentation]*
107. Roye DP, Mueller J, Matsumoto H, Cahill P, Sturm, Smith J, **Vitale M**, Children's Spine Study Group. Improvement of Pulmonary Function Measured by Patient-Reported Outcomes in Patients with Spinal Muscular Atrophy after VEPTR Surgery. *European Pediatric Orthopaedic Society/Pediatric Orthopaedic Society of North America Combined Annual Meeting. Barcelona, Spain May 3-6, 2017. [podium presentation]*
108. Auran E, Matsumoto H, Sturm PF, Garg S, Sanders JO, Oetgen M, Roye DP, **Vitale M**. Children's Spine Study Group, Growing Spine Study Group. Quality of Life and Burden of Care in Patients with EOS Undergoing Casting. *10th International Congress on Early Onset Scoliosis. Utrecht, Holland November 17-18, 2016. Nominated for the Dr. Behrooz Akbarnia Award. [oral presentation]*
109. Kondratyeva A, Feinberg N, Bloom Z, Smith J, Pahys J, Garg S, **Vitale M**, CSSG. Proximal Rib-Based Constructs in EOS: Long-Term Follow up and Survivorship. *10th International Congress on Early Onset Scoliosis. Utrecht, Holland November 17-18, 2016. [e-poster]*
110. Mueller J, Matsumoto H, Cahill P, Sturm P, Smith J, Roye D, **Vitale M**. Children's Spine Study Group. Improvement of Pulmonary Function Measured by Patient-Reported Outcomes in Patients with Spinal Muscular Atrophy after VEPTR Surgery. *10th International Congress on Early Onset Scoliosis. Utrecht, Holland November 17-18, 2016. [oral presentation]*

111. Sawyer JR, Hung CW, Feinberg N, Matsumoto H, Smith J, Phillips J, Sturm P, **Vitale M**. Children's Spine Study Group. Comparison of Newly Implanted versus Converted Magnetically Controlled Growing Rods (MCGR) from the Post-United States Release. *10th International Congress on Early Onset Scoliosis. Utrecht, Holland November 17-18, 2016. [oral presentation]*
112. Matsumoto H, Feinberg N, Smith J, Samdani A, Glotzbecker M, Sawyer J, Skaggs D, Roye D, **Vitale M**. Development of a Risk Severity Score Predicting Surgical Site Infection in Early Onset Scoliosis. *10th International Congress on Early Onset Scoliosis. Utrecht, Holland November 17-18, 2016. Nominated for the Dr. Behrooz Akbarnia Award. [oral presentation]*
113. Mackenzie W, Matsumoto H, Warren S, LaRussa S, Wang K, Franzone J, Roye B, McLeod L, Roye D, **Vitale M**. Predicting Risk of Surgical Site Infection in Neuromuscular Scoliosis Patients Undergoing Correction: Can We Rely On Administrative Data Sets? *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [e-poster]*
114. Russo C, Trupia E, Feinberg N, Matsumoto H, Smith J, Samdani A, Emans J, Roye D, **Vitale M**. Children's Spine Foundation. Classification of Early Onset Scoliosis Correlates with Complications after Initiation of Growth Friendly Spine Surgery. *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [e-poster]*
115. Makhni MC, Lindgren AM, Dardashti N, Matsumoto H, Wang K, Jimenez J, Roye B, Roye DP, **Vitale M**. The Cost of Complexity in Pediatric Scoliosis. *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [e-poster]*
116. Matsumoto H, Franzone J, Mackenzie W, Troy M, Barrett K, Striano B, Glotzbecker M, Flynn J, Skaggs D, Roye D, **Vitale M**. Development of a Risk Severity Scoring System for Surgical Site Infection in Adolescent Idiopathic Scoliosis: What Are We Missing? *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [Oral Presentation]*
117. Lindgren AM, Makhni MC, Shillingford J, Roye B, Hyman JE, Roye DP, **Vitale MG**. Lenke, Suk, Rigo Classification Systems: How Do They Compare? *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [Oral Presentation]*
118. Feinberg N, Matsumoto H, Garg S, Sawyer J, Sturm P, Roye DP, **Vitale M**. Children's Spine Foundation. The Baseline Caregiver and Financial Burden Scores of EOS Patients are Significantly Lower than National Normative Scores. *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [Oral Presentation]*
119. Franzone J, Matsumoto H, Mackenzie W, Troy M, Barrett K, Striano B, Glotzbecker M, Flynn J, Skaggs D, Roye D, **Vitale M**. In Patients with Nonidiopathic Spinal Deformity, Risk of Surgical Site Infection can Range from 2.0% to 54.8% - Results of a Novel Risk Severity Score. *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [e-poster]*
120. Lindgren A, Matsumoto H, Feinberg N, Swindell H, Bloom Z, Berdishevsky H, Grimes K, Bakaranian P, Roye D, Roye B, Hyman J, **Vitale M**. Teen Compliance with Schroth Therapy: Is it Possible? *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [Oral Presentation]*
121. Feinberg N, Matsumoto H, Bloom Z, Flynn J, Sturm P, Garg S, Roye D, **Vitale MG**, CSSG, GSSG. Spinal Muscular Atrophy: Growing Spinal Instrumentation Preserves Lung Volumes and Maintains Quality Of Life. *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [e-poster]*
122. **Vitale MG**, Hope J, Matsumoto H, Feinberg N, Swindell H, Yoshimachi J, Hyman JE, Roye B, Roye D. Rigo System Cheneau Brace Provides Better In-Brace Correction Than Traditional TLSO Brace. *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [Oral Presentation]*
123. Franzone J, Matsumoto H, Mackenzie W, Troy M, Barrett K, Striano B, Glotzbecker M, Flynn J, Skaggs D, **Vitale M**. In Patients with Nonidiopathic Spinal Deformity, Risk of Surgical Site Infection can Range from 2.0% to 54.8% -

Results of a Novel Risk Severity Score. *Scoliosis Research Society 51st Annual Meeting. Prague, Czech Republic. September 21-24, 2016. [Nominated for the John H. Moe Award for Best Basic Science Poster]*

124. Feinberg N, Matsumoto H, Bloom Z, Flynn J, Sturm P, Garg S, Roye D, **Vitale M**, CSSG, GSSG. Spinal Muscular Atrophy: Growing Spinal Instrumentation Preserves Lung Volumes and Maintains Quality of Life. *Scoliosis Research Society 51st Annual Meeting. Prague, Czech Republic. September 21-24, 2016.*
125. Mackenzie W, Matsumoto H, Warren S, LaRussa S, Wang K, Franzone J, Roye B, McLeod L, Roye D, **Vitale M**. Predicting Risk of Surgical Site Infection in Neuromuscular Scoliosis Patients Undergoing Correction: Can We Rely On Administrative Data Sets? *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [e-poster]*
126. Russo C, Trupia E, Feinberg N, Matsumoto H, Smith J, Samdani A, Emans J, Roye D, **Vitale M**, Children's Spine Foundation. Classification of Early Onset Scoliosis Correlates with Complications after Initiation of Growth Friendly Spine Surgery. *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [e-poster]*
127. Makhni M, Lindgren A, Dardashti N, Matsumoto H, Wang K, Jimenez J, Roye B, Roye D, **Vitale M**. The Cost of Complexity in Pediatric Scoliosis. *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [e-poster]*
128. Matsumoto H, Franzone J, Mackenzie W.G., Troy M, Barrett K, Striano B, Glotzbecker M, Flynn J, Skaggs D, Roye D, **Vitale, M**. Development of a Risk Severity Scoring System for Surgical Site Infection in Adolescent Idiopathic Scoliosis: What Are We Missing? *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [Oral Presentation]*
129. Lindgren A, Makhni M, Shillingford J, Roye B, Hyman J, Roye D, **Vitale, M**. Lenke, Suk, Rigo Classification Systems: How Do They Compare? *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [Oral Presentation]*
130. Feinberg N, Matsumoto H, Garg S, Sawyer J, Sturm P, Roye D, **Vitale, M**, Children's Spine Foundation. The Baseline Caregiver and Financial Burden Scores of EOS Patients are Significantly Lower than National Normative Scores. *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [Oral Presentation]*
131. Franzone J, Matsumoto H, Mackenzie W, Troy M, Barrett K, Striano B, Glotzbecker M, Flynn J, Skaggs D, Roye D, **Vitale, M**. In Patients with Nonidiopathic Spinal Deformity, Risk of Surgical Site Infection can Range from 2.0% to 54.8% - Results of a Novel Risk Severity Score. *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [e-poster]*
132. Lindgren A, Matsumoto H, Feinberg N, Swindell H, Bloom Z, Berdishevsky H, Grimes K, Bakarania P, Roye D, Roye B, Hyman J, **Vitale, M**. Teen Compliance with Schroth Therapy: Is it Possible? *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [Oral Presentation]*
133. Feinberg N, Matsumoto H, Bloom Z, Flynn J, Sturm P, Garg S, Roye D, **Vitale, M**, CSSG, GSSG. Spinal Muscular Atrophy: Growing Spinal Instrumentation Preserves Lung Volumes and Maintains Quality Of Life. *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [e-poster]*
134. **Vitale, M**, Hope J, Matsumoto H, Feinberg N, Swindell H, Julie Y, Hyman J, Roye B, Roye D. Rigo System Cheneau Brace Provides Better In-Brace Correction Than Traditional TLSO Brace. *37th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress. Rome, Italy September 8-10, 2016 [Oral Presentation]*
135. **Vitale, M**, Matsumoto H, Feinberg N, Trupia E, Shirley M, Garg S, Flynn J, Sturm PF, Sanchez Perez-Grueso F, Roye DP, Skaggs DL, CSSG, GSSG. Choice of Anchors – Rib vs. Spine: Importance of Proximal Anchor Number. *23rd International Meeting on Advanced Spine Techniques. Washington, D.C. July 13-16, 2016*
136. Franzone J, Matsumoto H, Mackenzie W, Troy M, Barrett K, Striano B, Glotzbecker M, Flynn J, Skaggs D, Roye D, **Vitale, M**. In Patients with Nonidiopathic Spinal Deformity, Risk of Surgical Site Infection can Range from 2.0% to

54.8% - Results of a Novel Risk Severity Score. *23rd International Meeting on Advanced Spine Techniques. Washington, D.C. July 13-16, 2016*

137. Russo C, Feinberg N, Trupia E, Matsumoto H, Smith J, Samdani A, Garg S, Flynn J, **Vitale M**, Children's Spine Study Group and Growing Spine Study Group. Classification of Early Onset Scoliosis Predicts Complications after Initiation of Growth Friendly Spine Surgery. *American Orthopaedic Association. Seattle, WA. June 22-25, 2016*
138. Russo C, Matsumoto H, Feinberg N, Smith J, Samdani A, Garg S, Flynn JM, **Vitale M**. Classification of Early Onset Scoliosis Predicts Complications after Initiation of Growth Friendly Spine Surgery. *American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL. Mar 1-5, 2016*
139. Franzone J, Matsumoto H, Troy M, Barrett K, Striano B, Glotzbecker M, Flynn J, Skaggs D, **Vitale M**. Development of a Risk Severity Score for Nonidiopathic Pediatric Spine Surgical Site Infection. *American Academy of Orthopaedic Surgeons Annual Meeting. Orlando, FL. Mar 1-5, 2016*
140. Matsumoto H, Feinberg N, Yoshimachi J, Roye DP, Akbarnia BA, Garg S, Sanders JO, Skaggs DL, Smith JT, **Vitale MG**, Children's Spine Study Group and Growing Spine Study Group. Short Term Health Related Quality of Life and Family Burden after Surgical or Casting Treatment. *International Congress of Early Onset Scoliosis Annual Meeting. Boston, MA. Nov. 19-20, 2015*
141. Russo C, Feinberg N, Trupia E, Matsumoto H, Smith J, Samdani A, Garg S, Flynn J, **Vitale M**, Children's Spine Study Group and Growing Spine Study Group. Classification of Early Onset Scoliosis Predicts Complications after Initiation of Growth Friendly Spine Surgery. *International Congress of Early Onset Scoliosis Annual Meeting. Boston, MA. Nov. 19-20, 2015*
142. **Vitale MG**, Matsumoto H, Feinberg N, Maier S, Trupia E, Warren S, Shirley M, Garg S, Flynn J, Sturm PF, Sanchez Perez-Gruoso F, Roye DP, Skaggs DL, Children's Spine Study Group and Growing Spine Study Group. Proximal Rib vs Proximal Spine Anchors in Growing Rods: A Multicenter Prospective Cohort Study. *International Congress of Early Onset Scoliosis Annual Meeting. Boston, MA. Nov. 19-20, 2015*
143. Roye BD, Wright ML, Matsumoto H, Yorgova P, McCalla D, Hyman JE, Roye DP, Shah SA, **Vitale MG**. An Independent Evaluation of the Validity of a DNA-Based Prognostic Test for Adolescent Idiopathic Scoliosis. *Scoliosis Research Society Lunchtime Symposium. Minneapolis, MN. Sept. 30-Oct 3, 2015*
144. Hsu A, Matsumoto H, Sullivan M, Trupia EP, Roye BD, Roye DP, **Vitale MG**. Is Serial Derotational Casting an Effective Treatment for Children with Early Onset Scoliosis? *Pediatric Orthopaedic Society of North America. Atlanta, GA. April 29-May 2, 2015*
145. **Vitale MG**, Sullivan M, Trupia EP, Matsumoto H, Flynn J, Sturm PF, Perez-Gruoso FS, Roye DP, Skaggs DL. VEPTR versus Traditional Growing Rods: Preliminary Results from a Collaboration between Two National Databases. *Pediatric Orthopaedic Society of North America. Atlanta, GA. April 29-May 2, 2015*
146. Skaggs DL, Pace GI, Wright M, Anderson R, Flynn JM, Lenke LG, Roye DP, Shah SA, **Vitale MG**. Best Practices in Intraoperative Neuromonitoring in Spine Deformity Surgery: A Consensus-Based Approach. *American Academy of Orthopaedic Surgeons. Las Vegas, NV. March 24-28, 2015*
147. **Vitale MG**, Sullivan MP, Trupia EP, Matsumoto H, Garg S, Flynn J, Sturm PF, Perez-Gruoso FS, Children's Spine Study Group, Growing Spine Study Group, Roye DP. Prospective Study Comparing the Effects of Proximal Rib Anchors versus Proximal Spine Anchors: Examining Complications, Curve Correction, and Quality of Life. *International Congress on Early Onset Scoliosis and Growing Spine (ICEOS). Warsaw, Poland. November 20-21, 2014*
148. Hsu A, Matsumoto H, Sullivan M, Trupia EP, Roye BD, Roye DP, **Vitale MG**. Effectiveness of Serial Derotational Casting for Treatment of Children with Early Onset Scoliosis. *International Congress on Early Onset Scoliosis and Growing Spine (ICEOS). Warsaw, Poland. November 20-21, 2014*
149. Chan CM, Xu N, Park HY, Hyman JE, **Vitale MG**, Matsumoto H, Roye BD, Roye DP. Effect of Preoperative Indications Conference on Procedural Planning for Treatment of Scoliosis. *International Society of Orthopaedic Surgery and Traumatology (SICOT). Rio de Janeiro, Brazil. November 19-22, 2014*

150. Matsumoto H, Park HY, Trupia EP, Swindell HW, Roye DP, Garg S, Sanders JO, **Vitale M**. Quality of Life and Pulmonary Function is Decreased in Early Onset Scoliosis (EOS) Patients Undergoing Casting; Validating the Early Onset Scoliosis 24 item Questionnaire (EOSQ-24). *International Society of Orthopaedic Surgery and Traumatology (SICOT)*. Rio de Janeiro, Brazil. November 19-22, 2014
151. **Vitale MG**, Matsumoto H, The Children's Spine Study Group, The Growing Spine Study Group, Park HY, McCalla D, Trupia EP, Swindell HW, Roye DP, Flynn JM. Predictive Validity of the Classification for Early Onset Scoliosis (C-EOS): Examining the Timing, Rate, and Severity of Post-Operative Complications. *International Society of Orthopaedic Surgery and Traumatology (SICOT)*. Rio de Janeiro, Brazil. November 19-22, 2014
152. **Vitale MG**, Skaggs DL, Pace GI, Wright ML, Matsumoto H, Anderson RCE, Brockmeyer DL, Dormans JP, Emans JB, Erickson MA, Flynn JM, Glotzbecker MP, Ibrahim KN, Lewis SJ, Luhmann SJ, Mendiratta A, Richards BS, Sanders JO, Shah SA, Smith JT, Song KM, Sponseller PD, Sucato DJ, Lenke LG, Roye DP. Best Practices in Intraoperative Neuromonitoring (IONM) in Spine Deformity Surgery: Development of a Checklist to Optimize Response. *International Society of Orthopaedic Surgery and Traumatology (SICOT)*. Rio de Janeiro, Brazil. November 19-22, 2014
153. Roye BD, Wright ML, Matsumoto H, Yorgova P, Neiss G, Hyman JE, Shah SA, **Vitale MG**, Roye DP. An Evaluation of the Validity of a DNA-Based Prognostic Test for Adolescent Idiopathic Scoliosis. *International Society of Orthopaedic Surgery and Traumatology (SICOT)*. Rio de Janeiro, Brazil. November 19-22, 2014
154. Wright ML, Matsumoto H, Woon R, Flynn JM, **Vitale MG**, Skaggs DL, Roye DP. Titanium Spine Implants are Not Associated with Lower Infection Rates. *International Society of Orthopaedic Surgery and Traumatology (SICOT)*. Rio de Janeiro, Brazil. November 19-22, 2014
155. **Vitale MG**, Matsumoto H, The Children's Spine Study Group, The Growing Spine Study Group, Park HY, McCalla D, Trupia EP, Swindell HW, Roye DP, Flynn JM. Predictive Validity of the Classification for Early-Onset Scoliosis (C-EOS): Examining the Timing, Rate, and Severity of Post-Operative Complications. *Scoliosis Research Society Annual Meeting*. Anchorage, AK. September 10-13, 2014
156. **Vitale MG**, Pace GI, Wright ML, Matsumoto H, Erickson M, Flynn JM, Glotzbecker M, Ibrahim K, Lewis S, Luhmann S, Richards BS, Sanders JO, Shah SA, Skaggs DL, Smith JT, Song KM, Sponseller PD, Sucato DJ, Roye DP, Lenke LG. Creation of a Consensus-Based Checklist for the Response to Intraoperative Neuromonitoring Changes in Spine Deformity Surgery. *Scoliosis Research Society Annual Meeting*. Anchorage, AK. September 10 – September 13, 2014
157. Wright ML, Matsumoto H, Woon R, Flynn JM, **Vitale MG**, Skaggs DL. Titanium Spine Implants Are Not Associated with Lower Infection Rates. *Scoliosis Research Society Annual Meeting*. Anchorage, AK. September 10 – September 13, 2014
158. Roye BD, Wright ML, Matsumoto H, Yorgova P, Neiss G, Hyman JE, Roye DP, Shah SA, **Vitale MG**. An Evaluation of the Validity of a DNA-Based Prognostic Test for Adolescent Idiopathic Scoliosis. *Annual Meeting of the Pediatric Orthopaedic Society of North America*. Hollywood, CA. April 30 - May 3, 2014
159. **Vitale MG**, Pace GI, Wright ML, Matsumoto H, Akbarnia B, Dormans JP, Emans JB, Erickson M, Flynn JM, Glassman SD, Glotzbecker M, Ibrahim KN, Lewis SJ, Luhman SJ, McCarthy J, Newton PO, Polly DW, Richards III S, Sanders JO, Shah SA, Skaggs DL, Smith JT, Song KM, Sponseller PD, Sucato DJ, Zeller RD, Roye DP, Lenke LG. Creation of a Consensus-Based Checklist for the Response to Intraoperative Neuromonitoring Changes in Pediatric Spine Surgery. *Annual Meeting of the Pediatric Orthopaedic Society of North America*. Hollywood, CA. April 30 - May 3, 2014
160. **Vitale MG**, Matsumoto H, The Children's Spine Study Group, The Growing Spine Study Group, Park HY, McCalla D, Trupia EP, Swindell HW, Roye DP, Flynn JW. Predictive Validity of the Classification of Early Onset Scoliosis (C-EOS): Examining the Timing, Rate, and Severity of Post-Operative Complications. *Annual Meeting of the Pediatric Orthopaedic Society of North America*. Hollywood, CA. April 30 - May 3, 2014
161. Roye BD, Wright ML, Matsumoto H, Yorgova P, Neiss G, Hyman JE, Roye DP, Shah SA, **Vitale MG**. An Evaluation of the Validity of a DNA-Based Prognostic Test for Adolescent Idiopathic Scoliosis. *American Academy of Orthopaedic Surgeons Annual Meeting*. New Orleans, LA. March 11-15, 2014

162. **Vitale MG**, Matsumoto H, The Children's Spine Study Group, The Growing Spine Study Group, Park HY, McCalla D, Trupia EP, Swindell HW, Roye DP, Flynn JW. Predictive Validity of the Classification of Early Onset Scoliosis (C-EOS): Examining the Timing, Rate, and Severity of Post-Operative Complications. *Annual Meeting of the Pediatric Orthopaedic Society of North America. Hollywood, CA. April 30 - May 3, 2014*
163. **Vitale MG**, Pace GI, Wright ML, Matsumoto H, Akbarnia B, Dormans JP, Emans JB, Erickson M, Flynn JM, Glassman SD, Glotzbecker M, Ibrahim KN, Lewis SJ, Luhman SJ, McCarthy J, Newton PO, Polly DW, Richards III S, Sanders JO, Shah SA, Skaggs, DL, Smith JT, Song KM, Sponseller PD, Sucato DJ, Zeller RD, Roye DP, Lenke LG. Creation of a Consensus-Based Checklist for the Response to Intraoperative Neuromonitoring Changes in Pediatric Spine Surgery. *Annual Meeting of the Pediatric Orthopaedic Society of North America. Hollywood, CA. April 30 - May 3, 2014*
164. Roye BD, Wright ML, Matsumoto H, Yorgova P, Neiss G, Hyman JE, Roye DP, Shah SA, **Vitale MG**. An Evaluation of the Validity of a DNA-Based Prognostic Test for Adolescent Idiopathic Scoliosis. *Annual Meeting of the Pediatric Orthopaedic Society of North America. Hollywood, CA. April 30 - May 3, 2014*
165. Park HY, Matsumoto H, St. Hilaire T, Pawelek JB, Trupia EP, Swindell HW, Flynn JM, Skaggs DL, Roye DP, **Vitale MG**. The Classification for Early Onset Scoliosis (C-EOS) Identifies Patients at Higher Risk for Complications at 5 Years of Follow Up. *The 7th International Congress on Early Onset Scoliosis and Growing Spine. Sand Diego, CA. November 21-22, 2013*
166. Matsumoto H, Park HY, Trupia EP, Roye DP, Akbarnia BA, Campbell RM, Flynn JM, Garg S, Sanders JO, Smith JT, Yaszay B, Vitale MG. Criterion Validity, Test-Retest Reliability and Internal Consistency Reliability of the Early-Onset Scoliosis 24 Item Questionnaire (EOSQ-24). *The 7th International Congress on Early Onset Scoliosis and Growing Spine. Sand Diego, CA. November 21-22, 2013*
167. Matsumoto H, Trupia EP, Swindell HW, Flynn T, Pawelek JB, Garg S, Glotzbecker MP, Roye DP, Sanders JO, Sturm PF, **Vitale MG**. Quality of Life and Burden of Care in Patients with Early Onset Scoliosis (EOS) Undergoing Casting. *The 7th International Congress on Early Onset Scoliosis and Growing Spine. Sand Diego, CA. November 21-22, 2013*
168. Roye BD, Wright ML, Matsumoto H, Yorgova P, Neiss G, McCalla D, Hyman JE, Roye DP, Shah SA, **Vitale MG**. An Independent Evaluation of the Validity of a DNA-Based Prognostic Test for Adolescent Idiopathic Scoliosis (AIS). *Société Internationale de Chirurgie Orthopédique et de Traumatologie. Hyderabad, India. October 17-19, 2013*
169. **Vitale MG**, Hyman JE, Matsumoto H, Park HY, McCalla D, Roye DP, Kanj WJ, Roye DP, Betz RR, Cahill PJ, Glotzbecker MP, Luhmann SJ, Garg S, Sawyer JR, Smith JT, Flynn JM. The Classification for Early Onset Scoliosis (C-EOS) Predicts Timing of VEPTR Anchor Failure. *Société Internationale de Chirurgie Orthopédique et de Traumatologie. Hyderabad, India. October 17-19, 2013*
170. Chan CM, Park HY, Hyman JE, **Vitale MG**, Roye DP, Matsumoto H, Roye BD. Effect of Preoperative Indications Conference on Procedural Planning for Treatment of Scoliosis. *Scoliosis Research Society Annual Meeting. Lyon, France. September 18-21, 2013*
171. **Vitale MG**, Park HY, Matsumoto H, McCalla D, Roye DP, Skaggs DL, Akbarnia, BA. Correction and Complications in the Treatment of EOS: Is there a Difference Between Spine vs. Rib-Based Proximal Anchors? *Scoliosis Research Society Annual Meeting. Lyon, France. September 18-21, 2013*
172. **Vitale MG**, Matsumoto H, Park HY, McCalla D, Roye DP, Kanj WJ, Roye DP, Betz RR, Cahill PJ, Glotzbecker MP, Luhmann SJ, Garg S, Sawyer JR, Smith JT, Flynn JM. The Classification for Early Onset Scoliosis (C-EOS) Predicts Timing of VEPTR Anchor Failure. *Scoliosis Research Society Annual Meeting. Lyon, France. September 18-21, 2013*
173. Roye BD, Wright ML, Matsumoto H, Yorgova P, Neiss G, McCalla D, Hyman JE, Roye DP, Shah SA, **Vitale MG**. An Independent Evaluation of the Validity of a DNA-Based Prognostic Test for Adolescent Idiopathic Scoliosis. *Scoliosis Research Society Annual Meeting. Lyon France. September 18-21, 2013*

174. Farrington DM, **Vitale M**, Matsumoto H, Tatay Diaz A. Adaptación transcultural y validación de la versión española del EOSQ-24. *XII Congreso Iberoamericano de Columna (SILACO) 2013. Valencia España. 30 de mayo-1 de junio*
175. Park HY, Matsumoto H, St. Hilaire T, Pawelek J, Flynn JM, Skaggs DL, Roye DP, **Vitale MG**. The Classification for Early Onset Scoliosis (C-EOS) Identified Patients at Higher Risk for Complications at 5 Years of Follow Up. *20th International Meeting Advances Spine Techniques (IMAST). Vancouver, BC. July 10-13, 2013*
176. **Vitale MG**, Park HY, Matsumoto H, McCalla DJ, Roye DP, Skaggs DL, Akbarnia BA. Correction and Complications in the Treatment of EOS: Is There a Difference Between Spine vs. Rib-based Proximal Anchors? *Pediatric Orthopaedic Society of North America Annual Meeting. Toronto, CA. May1-4, 2013*
177. Matsumoto H, McCalla D, Park HY, Julie Yoshimachi, Roye BD, Roye DP, Akbarnia BA, Emans J, Skaggs D, Smith JT, **Vitale MG**. The Early-Onset Scoliosis Questionnaire (EOSQ) Reflects Improvement in Quality of Life After Growth Rod Surgery. *2013 Pediatric Orthopaedic Society of North America Annual Meeting. Toronto, CA. May1-4, 2013*
178. Matsumoto H, Tobert D, Romney E, Roye BD, Hyman JE, **Vitale MG**, Roye DP. Cerebral Palsy in the United States: Changing patient Demographics necessitate Transitional and Multidisciplinary Care. *2013 Pediatric Orthopaedic Society of North America Annual Meeting. Toronto, CA. May1-4, 2013*
179. **Vitale MG**, Riedel MD, Glotzbecker M, Matsumoto H, Roye DP, Saiman L. Building Consensus: “Best Practice Guideline” for High Risk Pediatric Spine Surgical Site Infection. *2013 Pediatric Orthopaedic Society of North America Annual Meeting. Toronto, CA. May1-4, 2013*
180. Matsumoto H, Tobert D, Romney E, Roye BD, Hyman J, **Vitale MG**, Roye DP. “An Urgent Need for Multidisciplinary, Transitional and Adult Care in Cerebral Palsy: National and Single Institution Trends.” *6th Triennial Congress of the International Federation of Paediatric Orthopaedic Societies. Toronto, ON, CN. May 2013*
181. **Vitale MG**, Park HY, Matsumoto H, McCalla DJ, Roye DP, Skaggs DL, Akbarnia BA. Correction and Complications in the Treatment of EOS: Is There a Difference Between Spine vs. Rib-based Proximal Anchors? *6th Triennial Congress of the International Federation of Pediatric Orthopaedic Societies. Toronto, ON, CN. May 2013*
182. **Vitale MG**. Conservative Therapy of Scoliosis Revisited. *Hudson Valley New York Physical Therapy Association Mini- Conference. Dobbs Ferry, NY. April 2013*
183. **Vitale MG**, Riedel MD, Glotzbecker M, Matsumoto H, Roye DP, Saiman L. Building Consensus: “Best Practice Guideline” for High Risk Pediatric Spine Surgical Site Infection. *American Academy of Orthopaedic Surgeons Annual Meeting. Chicago, IL. March 2013*
184. **Vitale MG**, Riedel MD, Saiman L, Matsumoto H, Glotzbecker M, Emans JB, Erickson M, Flynn JM, Akbarnia B, Anderson RCE, Brockmeyer DL, Lenke LG, Luhmann SJ, Lewis SJ, Newton PO, Richards BS, Sucato DJ, Shah SA, Skaggs DL, Smith JT, Sponseller PD, Zeller RD, Nyquist A, McLeod L, Roye DP. Building Consensus – Development of a Best Practice Guideline (BPG) in Pediatric Spine SSI Prevention. *Chinese Orthopaedic Association. Beijing, China. November 2012*
185. Matsumoto H, McCalla D, Nair K, Williams BA, Corona J, Roye BD, Roye DP, Akbarnia BA, Emans J, Skaggs D, Smith JT, **Vitale MG**. The Early-Onset Scoliosis Questionnaire (EOSQ) Reflects Improvement in Quality of Life After Growth Rod Surgery. *American Academy of Pediatrics Annual Meeting. New Orleans, LA. October 2012*
186. **Vitale MG**, Riedel MD, Saiman L, Matsumoto H, Glotzbecker M, Emans JB, Erickson M, Flynn JM, Akbarnia B, Anderson RCE, Brockmeyer DL, Lenke LG, Luhmann SJ, Lewis SJ, Newton PO, Richards BS, Sucato DJ, Shah SA, Skaggs DL, Smith JT, Sponseller PD, Zeller RD, Nyquist A, McLeod L, Roye DP. Building Consensus – Development of a Best Practice Guideline (BPG) in Pediatric Spine SSI Prevention. *American Academy of Pediatrics Annual Meeting. New Orleans, LA. October 2012*

187. Riedel MD, Glotzbecker M, **Vitale MG**, Roye DP, Matsumoto H, Erickson M, Flynn J, Saiman L. What's the Evidence? - Systematic Literature Review of Risk Factors and Preventive Strategies for Surgical Site Infections following Pediatric Spine Surgery. *American Academy of Pediatrics Annual Meeting. New Orleans, LA. October 2012*
188. Riedel MD, Matsumoto H, Murray M, Covington L, Saiman L, Hyman JE, Roye BD, Roye DP, **Vitale MG**. Do We Comply? – Monitoring Antibiotic Prophylaxis in Pediatric Spine Surgery. *American Academy of Pediatrics Annual Meeting. New Orleans, LA. October 2012*
189. Matsumoto H, Tobert D, Romney E, Roye B, Hyman J, **Vitale M**, Roye D. An Urgent Need for Multidisciplinary, Transitional and Adult Care in Cerebral Palsy: National and Single Institution Trends. *Combined 33rd International Society of Orthopaedic Surgery and Traumatology and 17th Pan Arab Orthopaedic Association World Conference. Dubai, United Arab Emirates. November 28-30, 2012*
190. Riedel M, Matsumoto H, Murray M, Covington L, Roye B, Hyman J, Roye D, **Vitale M**. Do We Comply? - Antibiotic Prophylaxis in Pediatric Spine Surgery. *Combined 33rd International Society of Orthopaedic Surgery and Traumatology and 17th Pan Arab Orthopaedic Association World Conference. Dubai, United Arab Emirates. November 28-30, 2012*
191. Williams BA, McCalla D, Matsumoto H, Akbarnia BA, Blakemore LC, Betz RR, Flynn JM, Johnston CE, McCarthy RE, Roye DP, Skaggs DL, Smith JT, Snyder BD, Sponseller PD, Sturm PF, Thompson GH, Yazici M, **Vitale M**. Introducing the Early Onset Scoliosis Classification System. *Combined 33rd International Society of Orthopaedic Surgery and Traumatology and 17th Pan Arab Orthopaedic Association World Conference. Dubai, United Arab Emirates. November 28-30, 2012*
192. Matsumoto H, McCalla D, Nair K, Williams B, Corona J, Roye BD, Roye DP, Akbarnia B, Smith J, Emans J, Skaggs D, Smith JT, **Vitale M**. The Early-Onset Scoliosis Questionnaire (EOSQ) Reflects Improvement in Quality of Life After Growth Rod Surgery. *Combined 33rd International Society of Orthopaedic Surgery and Traumatology and 17th Pan Arab Orthopaedic Association World Conference. Dubai, United Arab Emirates. November 28-30, 2012*
193. Riedel M, Matsumoto H, Glotzbecker M, Roye D, Erickson M, Flynn J, **Vitale M**. What's the Evidence? - Systematic Literature Review of Pediatric Spine Surgical Site Infection. *Combined 33rd International Society of Orthopaedic Surgery and Traumatology and 17th Pan Arab Orthopaedic Association World Conference. Dubai, United Arab Emirates. November 28-30, 2012*
194. Matsumoto H, McCalla D, Park H, Yoshimachi J, Roye D, Akbarnia BA, Emans J, Skaggs D, Smith J, **Vitale M**. The Early-Onset Scoliosis 24 Item Questionnaire (EOSQ-24) Reflects Changes in Quality of Life and Parental Burden after Growing Rod Surgery. *The 6th International Congress on Early Onset Scoliosis and Growing Spine. November 15-16, 2012*
195. **Vitale MG**, Park HY, Matsumoto H, McCalla DJ, Roye DP, Skaggs D; Akbarnia BA. Correction and Complications in the Treatment of EOS: Is There a Difference Between Spine vs. Rib-based Proximal Anchors? *The 6th International Congress on Early Onset Scoliosis and Growing Spine. November 15-16, 2012*
196. **Vitale, MG**, McCalla, DJ, Matsumoto H, Park HY, Kanj WJ, Roye DP, Betz RR, Cahill PJ, Glotzbecker MP, Luhmann SJ, Garg S, Sawyer JR, Smith JT, Flynn JM. The Classification for Early Onset Scoliosis (C-EOS) Predicts Timing of VEPTR Anchor Failure. *The 6th International Congress on Early Onset Scoliosis and Growing Spine. November 15-16, 2012*
197. Matsumoto H, Tobert D, Romney E, Roye B, Hyman J, **Vitale MG**, Roye DP. An Urgent Need for Multidisciplinary, Transitional/Adult Care in Cerebral Palsy: National and Single Institution Trends. *4th International Cerebral Palsy Conference. Pisa, Italy. October 10-13, 2012*
198. Matsumoto H, Tobert D, McCalla D, Hyman J, Roye B, **Vitale M**. Quality of Life Improves After Spinal Deformity Correction in Children with Neuromuscular Disease. *4th International Cerebral Palsy Conference. Pisa, Italy. October 10-13, 2012*
199. Matsumoto H, Tobert D, Romney E, Roye B, Hyman J, **Vitale MG**, Roye DP. An Urgent Need for Multidisciplinary, Transitional and Adult Care in Cerebral Palsy: National and Single Institution Trends. *66th Annual*

Meeting of the American Academy for Cerebral Palsy and Developmental Medicine. *Toronto, Ontario, Canada. September 12-15, 2012*

200. Williams B, McCalla D, Akbarnia BA, Betz RR, Blakemore L, Flynn JM, Johnston C, McCarthy R, Smith JT, Snyder B, Sponseller P, Sturm P, Thompson G, Yazici M, **Vitale MG**. Introducing the Early Onset Scoliosis Classification System. *19th International Meeting on Advanced Spine Techniques (IMAST), Istanbul, Turkey. July 18-21, 2012*
201. Tobert D, Matsumoto H, Hyman JE, Roye BD, Roye Jr. DP, **Vitale MG**. Avoiding Spinal Fusion: Is it Time to Revisit Conservative Therapy? *19th International Meeting on Advanced Spine Techniques (IMAST), Istanbul, Turkey. July 18-21, 2012*
202. Riedel M, Matsumoto H, Murray M, Covington L, Roye BD, Hyman JE, Roye Jr. DP, **Vitale MG**. Do We Comply? Antibiotic Prophylaxis in Pediatric Spine Surgery. *19th International Meeting on Advanced Spine Techniques (IMAST), Istanbul, Turkey. July 18-21, 2012*
203. Riedel M, Matsumoto H, Glotzbecker M, Roye Jr. DP, Erickson M, Flynn J, **Vitale MG**. What's the Evidence? – Systematic Literature Review of Pediatric Spinal Surgical Site Infection. *19th International Meeting on Advanced Spine Techniques (IMAST), Istanbul, Turkey. July 18-21, 2012*
204. Matsumoto H, Tobert D, Romney E, Roye BD, Hyman JE, **Vitale MG**, Roye Jr. DP. An Urgent Need for Multidisciplinary, Translational and Adult Care in Cerebral Palsy: National and Single Institution Trends. *66th Annual Meeting of the American Academy for Cerebral Palsy and Developmental Medicine*
205. Matsumoto H, McCalla D, Nair K, Williams B, Corona J, Akbarnia BA, Smith J, Emans J, Skaggs DL, **Vitale MG**. The Early-Onset Scoliosis Questionnaire (EOSQ) Reflects Improvement in Quality of Life After Growing Rod Surgery. *4th Annual Meeting & Course, Scoliosis Research Society, Chicago, IL. September 5-8, 2012*
206. Matsumoto H, Romney ED, Roye BD, Hyman JE, **Vitale MG**, Roye DP. Hospitalization among patients with cerebral palsy in the United States: An exploration of 37 years of inpatient care. *AAOS Annual Meeting, San Francisco, CA. February 7-11, 2012*
207. Matsumoto H, Nair K, McCalla D, Williams B, Corona J, Roye BD, Roye JR. DP, Akbarnia BA, Emans J, Skaggs DL, Smith JT, **Vitale MG**. Validation of the Early-Onset Scoliosis Questionnaire (EOSQ): Responsiveness and Comparison with Normative Subjects. *5th International Congress on Early Onset Scoliosis, Orlando, FL. November 18-19, 2011 & 31st Annual Meeting of European Paediatric Orthopaedic Society, April 18-21, 2012*
208. Williams BA, Akbarnia BA, Blakemore LC, Betz RR, Flynn, JM, Johnston II CE, McCarthy RE, Roye Jr. DP, Skaggs DL, Smith JT, Synder BD, Sponseller PD, Sturm PF, Thompson GH, Yazici M, **Vitale MG**. Organizing Chaos: Development of a Consensus-Based Early Onset Scoliosis Schema. *5th International Congress on Early Onset Scoliosis, Orlando, FL. November 18-19, 2011*
209. Colacchio ND, Schwab FJ, Matsumoto H, Lafarge V, Roye Jr. DP, **Vitale MG**. Unintended Change of Physiological Lumbar Lordosis and Pelvic Tilt after PSIF: How much is too much? *AAP National Conference and Exhibition, Boston, MA. October 14-18, 2011, 125th Annual Meeting of American Orthopaedic Association. Washington, DC. June 27-30, 2012 & Pediatric Orthopaedic Society of North America. Denver, CO. May 16-19, 2012*
210. Gomez JA, Matsumoto H, Colacchio N, Miller D, Roye Jr. DP, Sucato D, Richards S, Emans JB, Erickson M, Sanders J, Lenke L, **Vitale MG**. Characteristics of Patients with Adolescent Idiopathic Scoliosis who Experience Coronal Decompensation Following Posterior Spinal Instrumentation and Fusion. *46th Annual Meeting, Scoliosis Research Society. Louisville, KY. September 14-17, 2011 & AAOS Annual Meeting, San Francisco, CA. February 7-11, 2012*
211. Roye BD, Wright M, Williams B, Matsumoto H, Corona J, Hyman JE, Roye DP, **Vitale MG**. Does the Scoliscore Provide More Information than Traditional Estimates of Curve Progression? *46th Annual Meeting, Scoliosis Research Society. Louisville, KY. September 14-17, 2011 & AAP National Conference and Exhibition, Boston, MA. October 14-18, 2011*

212. **Vitale MG**, Colacchio N, Matsumoto H, Schwab F, Lafage V, Roye Jr. DP. Flatback Revisited: Reciprocal Loss of Lumbar Lordosis Following Selective Thoracic Fusion. *46th Annual Meeting, Scoliosis Research Society. Louisville, KY. September 14-17, 2011, AAOS Annual Meeting, San Francisco, CA. February 7-11, 2012, 125th Annual Meeting of American Orthopaedic Association. Washington, DC. June 27-30, 2012 & Pediatric Orthopaedic Society of North America. Denver, CO. May 16-19, 2012*
213. Matsumoto H, Clayton-Krasinski DA, Klinge SA, Gomez JA, Booker WA, Colacchio ND, Roye Jr. DP, **Vitale MG**, Hyman JE. Development and Initial Validation of the Assessment of Caregiver Experience with Neuromuscular Disease (ACEND). *XXV Triennial World Congress, International Society of Orthopaedic Surgery and Traumatology 2011. Prague Czech Republic. September 6-9, 2011*
214. Gomez JA, Matsumoto H, **Vitale MG**, Colacchio N, Sucato, DJ, Richards III BS, Eman, JB, Erickson MA; Sanders, JO, Lenke LG, Hyman JE. Higher Degrees of Curve Correction Correlate with Worsened Sagittal Balance. *XXV Triennial World Congress, International Society of Orthopaedic Surgery and Traumatology 2011. Prague Czech Republic. September 6-9, 2011 & AAP National Conference and Exhibition, Boston, MA. October 14-18, 2011*
215. Miller DJ, Corona J, Downs J, Akbarnia BA, Blakemore LC, Betz RR, Rampbell RM, Johnston CE, McCarthy RE, Roye DP, Skaggs DL, Smith JT, Snyder BD, Sponseller PD, Sturm PF, Thompson GH, Yazici M, **Vitale MG**, Flynn JM. To Operate or Not Operate? Determining the Optimal Timing of Surgical Intervention for Patients with Early Onset Neuromuscular. *The 30th Meeting of the European Pediatric Orthopaedic Society. Basel, Switzerland. April 6-9, 2011*
216. Corona J, Miller DJ, Downs J, Akbarnia BA, Blakemore LC, Betz RR, Campbell RM, Johnston CE, McCarthy RE, Roye DP, Skaggs DL, Smith JT, Snyder BD, Sponseller PD, Sturm PF, Thompson GH, Yazici M, Flynn JM, **Vitale MG**. Finding the Tipping Point: When should Surgery be Performed in Children with Early Onset Idiopathic Scoliosis? *124th Annual Meeting of American Orthopaedic Association. Boston, MA. June 22-25, 2011*
217. Matsumoto H, Miller DJ, Franzone JM, Hyman JE, Roye DP, **Vitale MG**. Electronic Monitoring Improves Brace Compliance in Patients with Adolescent Idiopathic Scoliosis: A Randomized Clinical Trial. *Pediatric Orthopaedic Society of North America. Montreal, Quebec, Canada. May 11-14, 2011 & European Pediatric Orthopaedic Society, Basel, Switzerland. April 6-9, 2011*
218. Corona J, Williams BA, Matsumoto H, Comer JS, Fisher PW, Neria Y, Roye BD, **Vitale MG**. Psychological Effects of Repetitive Surgeries in Children with Early Onset Scoliosis: Are We Putting Them At Risk? *Pediatric Orthopaedic Society of North America, Montreal, Quebec, Canada. May 11-14, 2011, The 30th Meeting of the European Pediatric Orthopaedic Society. Basel, Switzerland. April 6-9, 2011, AAP National Conference and Exhibition, Boston, MA. October 14-18, 2011 & 125th Annual Meeting of American Orthopaedic Association. Washington, DC. June 27-30, 2012*
219. **Vitale MG**, Jameel OF, Matsumoto H, Roye DP, Sucato DJ, Richards SB, Emans JB, Erickson MA, Sanders JO, Lenke JO. How Much is Too Much? Higher Degrees of Curve Correction Correlate with Worsened Sagittal Balance. *Pediatric Orthopaedic Society of North America, Montreal, Quebec, Canada. May 11-14, 2011 & European Pediatric Orthopaedic Society, Basel Switzerland, April 6-9, 2011*
220. Mackenzie WGS, Miller DJ, Matsumoto H, Roye BD, Hyman JE, Roye DP, **Vitale MG**. Frontal or Sagittal Spinal Imbalance does not Affect Quality of Life Two Years after Posterior Spinal Instrumentation and Fusion for Adolescent idiopathic Scoliosis. *Pediatric Orthopaedic Society of North America, Montreal, Quebec, Canada. May 11-14, 2011 & European Pediatric Orthopaedic Society, Basel Switzerland, April 6-9, 2011*
221. Mackenzie WGS, Matsumoto H, Corona J, Lee C, Cody ST, Covington L, Saiman L, Flynn JM, Skaggs DL, **Vitale MG**. Surgical Site Infection Following Spinal Instrumentation for Scoliosis: Lessons Learned from an Analysis of 1352 Procedures at three Centers. *Pediatric Orthopaedic Society of North America, Montreal, Quebec, Canada. May 11-14, 2011, European Pediatric Orthopaedic Society, Basel Switzerland, April 6-9, 2011 & 46th Annual Meeting, Scoliosis Research Society. Louisville, KY. September 14-17, 2011*
222. Horan MP, Williams BA, Mackenzie WGS, Matsumoto H, Covington L, Saiman LR, **Vitale MG**. Can Infection Following Scoliosis Instrumentation Surgery be a "Never Event"?: Dramatic Reduction in Infection Rates at one Institution after Implementation of a Multimodal Prevention Protocol. *Pediatric Orthopaedic Society of North America, Montreal, Quebec, Canada. May 11-14, 2011, European Pediatric Orthopaedic Society, Basel Switzerland, April 6-9, 2011 & AAP National Conference and Exhibition, Boston, MA. October 14-18, 2011*

223. **Vitale MG**, Miller DJ, Jameel OF, Schwab FJ, Roye DP. Factors Affecting Distal Junctional Kyphosis after Spinal Fusion for Adolescent Idiopathic Scoliosis. *Pediatric Orthopaedic Society of North America, Montreal, Quebec, Canada. May 11-14, 2011, European Pediatric Orthopaedic Society, Basel Switzerland, April 6-9, 2011 & American Academy of Orthopaedic Surgeons Annual Meeting, San Diego, CA. February 15-19, 2011*
224. **Vitale MG**, Miller D, Sucato D, Emans J, Erickson M, Sanders J, Lenke L. Factors Predicting Coronal Decomposition of Lenke 1 Curves Following Selective Fusion. *17th International Meeting on Advanced Spine Techniques. Toronto, Ontario, Canada. July 21-24, 2010, The Scoliosis Research Society Annual Meeting. Kyoto, Japan. September 21-24, 2010 & Pediatric Orthopaedic Society of North America, Montreal, Quebec, Canada. May 11-14, 2011*
225. Corona J, Williams BA, Matsumoto H, Comer JS, Fisher PW, Neria Y, Roye BD, **Vitale MG**. Psychosocial Effects of Repetitive Surgeries in Children with Early Onset Scoliosis: Are We Putting Them At Risk? *European Pediatric Orthopaedic Society, Basel Switzerland, April 6-9, 2011 & 46th Annual Meeting, Scoliosis Research Society. Louisville, KY. September 14-17, 2011*
226. Corona J, Miller DJ, Downs J, Akbarnia BA, Blakemore LC, Betz RR, Campbell RM, Johnston CE, McCarthy RE, Roye DP, Skaggs DL, Smith JT, Snyder BD, Sponseller PD, Sturm PF, Thompson GH, Yazici M, Flynn JM, **Vitale MG**. Finding the Tipping Point: When Should Surgery Be Performed in Children with Early Onset Idiopathic Scoliosis? *4th International Congress on Early Onset Scoliosis and Growing Spine, Toronto, Canada. November 19-20, 2010 & European Pediatric Orthopaedic Society, Basel Switzerland, April 6-9, 2011*
227. Miller DJ, Corona J, Downs J, Akbarnia BA, Blakemore LC, Betz RR, Campbell Rm, Johnston CE, McCarthy RE, Roye Dp, Skaggs Dl, Smith JT, Snyder BD, Sponseller PD, Sturm PF, Thompson GH, Yazici M, **Vitale MG**, Flynn JM. To Operate or Not to Operate? Determining the Optimal Timing of Surgical Intervention for Patients with Early Onset Neuromuscular. *4th International Congress on Early Onset Scoliosis and Growing Spine, Toronto, Canada. November 19-20, 2010 & European Pediatric Orthopaedic Society, Basel Switzerland, April 6-9, 2011*
228. Corona J, Sanders JO, Luhmann SJ, Roye Jr. DP, Diab M, Matsumoto H, **Vitale MG**. The Rib Vertebral Angle Difference Is it a Reliable Measure? *The Annual Meeting of the Pediatric Orthopaedic Society of North America; Waikoloa, Hawaii May 4-7, 2010*
229. Corona J, Sanders JO, Luhmann SJ, Roye BD, Diab M, **Vitale MG**. The Rib Vertebral Angle Difference- Is it a Reliable Measure? *American Academy of Pediatrics National Conference and Exhibition. San Francisco, CA. October 2-5, 2010*
230. **Vitale MG**, Jameel O, Sucato D, Richards S, Emans J, Erickson M, Sanders J, Lenke L. How Much is Too Much? Higher Degrees of Curve Correction Correlate with Worsened Sagittal Balance. *The Scoliosis Research Society Annual Meeting. Kyoto, Japan. September 21-24, 2010*
231. Miller DJ, Franzone JM, Matsumoto H, Hyman JE, Roye Jr. DP, **Vitale MG**. Electronic Monitoring Improves Brace Wearing Compliance in Patients with Adolescent Idiopathic Scoliosis. *The 17th International meeting on Advanced Spine Techniques (IMAST); Toronto, Canada July 21-24 2010 & 124th Annual Meeting of American Orthopaedic Association. Boston, MA. June 22-25, 2011*
232. **Vitale MG**, Privitera DM, Gomez JA, Matsumoto H, Klinge SA, Corona J, Hyman JE, Roye Jr. DP. Pedicle Screw Placement in Pediatric Scoliosis Surgery: Do non-Idiopathic Patients Have Higher Misplacement Rates? *American Academy of Pediatrics National Conference and Exhibition. Boston, MA. October 11-14, 2008, European Pediatric Orthopaedic Society; Lisbon, Portugal. April 1-4, 2009 & Meeting of the International Research Society of spinal Deformities; Montreal, Canada July 1-3 2010*
233. **Vitale MG**, Jameel O, Roye BD, Matsumoto H, Poon SC, Gomez JA, Hyman JE, Roye Jr. DP. Can Spine Sagittal Measures be assessed dependably from MRI? *123rd Annual Meeting of the American Orthopaedic Association; San Diego, CA, June 9-12, 2010*
234. **Vitale MG**, Avendano J, Jameel OF, Matsumoto H, Roye BD, Hyman JE, Roye DP. Can Spine Sagittal Measures be assessed dependably from MRI? *The 2010 Meeting of the International Research Society of Spinal Deformities. Montreal Canada July 1-3, 2010*

235. **Vitale MG**, Miller DJ, Ramirez-Lluch NF, Torres FC, Matsumoto H, Mulcahey MJ, Flynn JM. Psychosocial Disability in Patients Undergoing Repetitive Surgery for Early Onset Scoliosis: We Should be Worried! *17th International Meeting on Advanced Spine Techniques. Toronto Ontario, Canada. July 21-24, 2010*
236. Roye DP, Jameel O, Miller DJ, Matsumoto H, Schwab FJ, Hyman JE, **Vitale MG**. Factors Affecting Distal End and Global Decomposition in Coronal and Sagittal Planes 2 years after Fusion for Adolescent Idiopathic Scoliosis. *AAOS Annual Meeting; New Orleans, LA, March 9-13, 2010 & International Research Society of Spinal Deformities; Montreal, Canada, July 1-3 2010*
237. **Vitale MG**, Corona J, Matsumoto H, Avendano J, Roye, Jr DP. Development and Initial Validation of a Disease Specific Outcome Measure for Early Onset Scoliosis. *Meeting of the International Research Society of Spinal Deformities. Montreal, Canada. July 1-3 2010 & European Pediatric Orthopaedic Society Annual Meeting. Lisbon, Portugal. April 1-4, 2009*
238. **Vitale MG**, Miller DJ, Emans JB, Erickson MA, Sanders JO, Lenke LG, Richards BS. Factors Predicting Coronal Decomposition of Lenke 1 Curves Following Selective Fusion. *17th International Meeting on Advanced Spine; Toronto, Canada, July 21-24, 2010*
239. **Vitale MG**, Miller DJ, Ramirez-Lluch NF, Frances T, Matsumoto H, Mulcahey MJ, Flynn JM. Anxiety and Psychosocial Disability in Patients Undergoing Repetitive Surgery for Early Onset Scoliosis: We should be Worried! *17th International Meeting on Advanced Spine Techniques; Toronto, Canada, July 21-24, 2010*
240. **Vitale MG**, Jameel OF, Avendano J, Matsumoto H, Roye BD, Hyman JE, Roye DP Jr. Assessment of Sagittal Plane: Should a Screening MRI be Standard? *17th International Meeting on Advanced Spine Techniques; Toronto, Canada, July 21-24, 2010*
241. **Vitale MG**. Adolescent and Neuromuscular Scoliosis Techniques I. *Biomet Spine Current Techniques in Spinal Deformity Surgery; Denver, Colorado, April, 2010*
242. **Vitale MG**, Jameel OF, Roye BD, Matsumoto H, Poon SC, Gomez JA, Hyman JE, Roye DP Jr. Does Intraoperative Electromyography Monitoring Result in Lowered Misplacement Rates in Pediatric Spinal Deformity Surgery? *The 123rd Annual Meeting of the American Orthopaedic Association; San Diego, CA. June 9-12, 2010, The 8th International Research Society of Spinal Deformities. Montreal, Quebec, Canada. July 1-3, 2010 & 17th International Meeting on Advanced Spine Techniques, Toronto, Canada, July 21-24, 2010*
243. **Vitale MG**. Clinical Implications of Derotation and Current Techniques for Derotation. *Biomet Spine Current Techniques in Spinal Deformity Surgery; Denver, Colorado, April, 2010*
244. **Vitale MG**. AIS Outcomes: An Evidence Base Review. *Biomet Spine Current Techniques in Spinal Deformity Surgery; Denver, Colorado, April 2010*
245. Roye DP Jr, Jameel OF, **Vitale MG**, Roye BD, Hyman JE. Factors affecting Distal End & Global Decomposition in Coronal/Sagittal Planes 2 year after Fusion. *American Academy of Orthopaedic Surgeons Annual Meeting, at the Morial Convention; New Orleans, Louisiana, March 9-13, 2010*
246. **Vitale MG**, Avendano J, Jameel OF, Matsumoto H, Roye BD, Hyman JE, Roye DP. The Value of MRI in Assessing Thoracic Kyphosis. *American Orthopaedic Association. San Diego, CA. June 9-12, 2010*
247. Corona J, Sanders J, Juhmann S, Diab M, Matsumoto H, **Vitale M**. The Rib Vertebral Angle Difference- Is It a Reliable Measure? *3rd International Congress on Early Onset Scoliosis and Growing Spine. Istanbul, Turkey. November 20-21, 2009*
248. Matsumoto H, Corona J, **Vitale MG**, Clayton-Krasinski D, Gomez JA, Hyman JE, Roye DP. Impact on Personal Time in Parents of Children with Neuromuscular Disease. *American Academy of Pediatrics National Conference and Exhibition. Washington, DC. October 17-20, 2009 & European Pediatric Orthopaedic Society Annual Meeting Lisbon, Portugal. April 1-4, 2009*

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251. Jameel OF, Matsumoto H, **Vitale MG**, Roye BD, Gomez JA, Hyman JE, Roye DP. Pedicle Screw Misplacement in Pediatric Scoliosis Surgery: Does Intraoperative Electromyography (EMG) Monitoring Result in Lower Misplacement Rates? *Academy of Pediatrics National Conference and Exhibition. Washington, DC. October 17-20, 2009*
252. Matsumoto H, Roye DP, Corona J, **Vitale MG**. Development and Initial Validation of an Early Onset Scoliosis Questionnaire (EOSQ). *American Academy of Pediatrics National Conference and Exhibition. Washington, DC. October 17-20, 2009*
253. **Vitale MG**, Privitera Dm, Gomez JA, Matsumoto H, Klinge SA, Hyman JE, Roye DP. Pedicle Screw Placement in Pediatric Scoliosis Surgery: Do Non-Idiopathic Patients Have Higher Misplacement Rates? *Pediatric Orthopaedic Society of North America. Boston, MA, April 30-May, 2009*
254. Roye DP, **Vitale MG**, Matsumoto H, Clayton-Krasinski D, Klinge SA, Hyman JE. Development and Initial Validation of the Neuromuscular Disease caregiver Impact Questionnaire (Neurociq). *European Pediatric Orthopaedic Society. Lisbon, Portugal. April 1-4, 2009*
255. Roye DP, Privitera DM, Matsumoto H, Gomez JA, Klinge S, Hyman JE, **Vitale MG**. Misplacement Rates of Pedicle Screws after Surgical Intervention for Pediatric Spinal Deformity. *American Academy of Orthopaedic Surgeons; Las Vegas, Nevada. February 25-28, 2009*
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257. **Vitale, MG**. Syndromes and Bad Bone Concepts and Controversies. *International Pediatric Orthopaedic Society Annual Meeting; Orlando, Florida, December 1-5, 2009*
258. **Vitale, MG**. Making the Spine “Loose.” How to and How Much? *Pediatric Orthopaedic Society of North America. Boston, MA, April 2009*
259. **Vitale, MG**. Early Onset Scoliosis: Obstacles to Innovation. *AdvaMed’s Medical Technology Learning Institute Conference on Pediatric Medical Device Innovation, Regulation, and Legislation. April 2008*
260. **Vitale MG**, Emerson RR, Booker WA, Matsumoto H, Gomez JA, Moore D, Gallo E, Hyman JE, Klinge JE, Klinge S, Roye DP. Risk Factors for Spinal Cord Injury During Deformity Surgery: A Detailed Analysis of Somatosensory (SSEP) and Motor Evoked Potential (MEP) in 162 Consecutive Patients. *North American Spine Society Annual Meeting. Toronto, Ontario, Canada. October 14-18, 2008*
261. Gomez JA, Matsumoto H, Moore D, Hyman JE, Roye DP, **Vitale MG**. Risk Factors for Spinal Cord Injury During Spinal Deformity Surgery: An Analysis of SEP and MEP Monitoring. *American Academy of Pediatrics National Conference and Exhibition. Boston, MA, October 11-14, 2008*
262. Kaufman BE, Klinge SA, Avendano J, **Vitale MG**, Gomez JA, Hyman JE, Matsumoto H, Roye DP. Femoral Valgus with or Without Salter Osteotomy is Effective for Advanced Femoral Head Osteonecrosis in Pediatric Patients. *American Academy of Pediatrics National Conference and Exhibition. Boston, MA. October 11-14, 2008*
263. **Vitale MG**, Matsumoto H, Clayton-Krasinski D, Hyman JE, Klinge SA, Gomez JA, Avendano J, Roye DP. Quantifying the “Burden of Care” for parents with Children With Neuromuscular Disease. *American Academy for Cerebral Palsy & Developmental Medicine Annual Meeting. Atlanta, GA September 17-20, 2008*

264. **Vitale MG**, Klinge SA, Matsumoto H, Clayton-Krasinski D, Hyman JE, Klinge SA, Gomez JA, Avendano J, Roye DP. A Rapid Comprehensive Quality of Life Assessment in Children with Neuromuscular Disease. *American Academy for Cerebral Palsy & Developmental Medicine Annual Meeting. Atlanta, GA. September 17-20, 2008*
265. **Vitale MG**, Matsumoto H, Prince DE, Gomez JA, Avellino BA, Roye DP, Spinal Deformity Study Group. Rod Diameter affects Sagittal but Not Frontal Plane Curve Correction: An Analysis of Post-Operative Outcomes of 1,019 Patients with Adolescent Idiopathic Scoliosis. *15th International Meeting on Advanced Spine Techniques. Hong Kong, China. July 8-11, 2008*
266. Roye DP, **Vitale MG**, Privitera DM, Matsumoto H, Gomez JA, Hyman JE. Pedicle Screw Placement in Pediatric Scoliosis Surgery: Do non-Idiopathic Patients Have Higher Misplacement Rates? *International Meeting on Advanced Spine Techniques Meeting, Hong Kong, July 8-11, 2008*
267. Avendano J, Klinge SA, Matsumoto H, Roye DP, Hyman JE, **Vitale MG**. Brace Wearing in Adolescents with Idiopathic Scoliosis: A Randomized Evaluation of Compliance Monitoring. *American Academy of Pediatrics National Conference and Exhibition; Boston, MA. October 11-14, 2008*
268. Klinge SA, **Vitale MG**, Matsumoto H, Clayton-Krasinski D, Avendano J, Hyman JE, Roye DP. Development and Initial Validation of the Neuromuscular Disease Caregiver Administered Rapid Evaluation (MD-Care). *American Academy of Pediatrics National Conference Exhibition; Boston, MA, October 11-14, 2008*
269. **Vitale MG**, Gomez JA, Matsumoto H, Betz RR, Campbell RM, Emans JB, Flynn J, Ramirez N, Snyder BD, Sturm PF, Song K, Smith JT, Shilt J, Roye DP. Variability in Treatment Decision for early Onset Scoliosis. *15th International Meeting on Advanced Spine Techniques. Hong Kong, China. July 8-11, 2008*
270. **Vitale MG**, Moore DW, Emerson RG, Matsumoto H, Gomez JA, Booker WA, Chambers KL, Spencer HT, Gallo EJ, Hymen JE, Roye DP. Risk Factors for Spinal Cord Injury During Spinal Deformity Surgery: A Detailed Analysis of Somatosensory and Motor Evoked Potential (SEP and MEP) in 162 Consecutive Patients. *15th International Meeting on Advanced Spine Techniques. Hong Kong, China. July 8-11, 2008*
271. **Vitale MG**, Gomez JA, Roye DP, Hyman JE, Matsumoto H, Marangoz S, Van Bosse HJP, Feldman DA. Hip Distraction Arthroplasty: Treatment for Devastating Hip Pathology of the Pediatric Femoral Head. *Annual Meeting of the American Academy of Orthopaedic Surgeons. San Francisco, CA. March 5-9, 2008*
272. Roye DP Jr, **Vitale MG**, Matsumoto H, Prince DE, Gomez JA, Avellino AA, Hyman JE, and the Spinal Deformity Group. Retrospective Cohort Study of Rod Diameter: Outcomes after Correction of Spinal Deformity. *International Meeting on Advanced Spine Technique Meeting; Hong Kong, July 8-11, 2008*
273. **Vitale MG**, Matsumoto H, Gomez JA, Betz R, Campbell R, Emans J, Flynn J, Ramirez N, Snyder B, Sturm P, Song K, Smith J, Shilt J, Roye DP Jr. Treatment Decision Variability for Congenital Scoliosis and Thoracic Insufficiency Syndrome. *American Academy of Pediatrics National Conference and Exhibition. San Francisco, CA. October 27-30, 2007, 1st International Congress on Early Onset Scoliosis & Growing Spine. Madrid, Spain. November 2-3, 2007 & International Meeting on Advanced Spine Techniques. 15th International Meeting, July 8-11, 2008, Hong Kong*
274. **Vitale MG**, Gomez JA, Roye DP Jr, Hyman JE, Matsumoto H, Marangoz SA, Van Bosse HJP, Feldman DS. Articulated Hip Distraction Arthroplasty: A Treatment Option for Avascular Necrosis of the Femoral Head: Case Series. *Limb Lengthening & Reconstruction Society Annual Scientific Meeting. Chicago, IL. July 20-22, 2007, American Academy of Pediatrics National Conference and Exhibition. San Francisco, CA. October 27-30, 2007, American Academy of Orthopaedic Surgeons Annual Meeting; San Francisco, CA, March 5-9, 2008, European Pediatric Orthopaedic Society 28th Annual Meeting; Poland, Warsaw, April 9-12th, 2008, Pediatric Orthopaedic Society of North America Annual Meeting. Albuquerque, NM. April-May 3, 2008 & 2nd Combined meeting of the American Orthopaedic Association and the Canadian Orthopaedic Association; Quebec City, Quebec, June 4-7 2008*
275. **Vitale MG**, Moor DW, Emerson RG, Matsumoto H, Gomez JA, Booker WA, Hyman JE, Roye DP Jr. MEP/SSEP Monitoring in Spinal Deformity Surgery: Incidence and Factors Leading to Significant Electrophysiologic Events. *2nd Combined Meeting of the American Orthopaedic Association and Canadian Orthopaedic Association; Quebec City, Quebec, June 4-7, 2008 & European Pediatric Orthopaedic Society 28th Annual Meeting; Warsaw, Poland, April 9th-12th, 2008*

276. Feldman DS, Van Bosse HJP, **Vitale MG**, Hyman JE, Gomez JA, Sala DA, Stein MI. Correction of Femoral Deformity using Six-Axis Analysis and Circular External Fixator. 2nd Combined meeting of the American Orthopaedic Association and the Canadian Orthopaedic Association; Quebec City, Quebec, June 4-7, 2008 & Pediatric Orthopaedic Society of North America Annual Meeting; Albuquerque, New Mexico, April 30th- May 3rd, 2008
277. Hyman JE, Gomez JA, Matsumoto H, **Vitale MG**, Kaufman BE, Roye DP Jr. Femoral Valgus Osteotomy for Advanced Femoral Head Osteonecrosis ad Perthes Disease in Children and Adolescents. 2nd Annual Orthopaedic Association and the Canadian Orthopaedic Association; Quebec City, Quebec, June 4-7, 2008, European Pediatric Orthopaedic Society 28th Annual Meeting, Warsaw, Poland. April 9th-12th, 2008 & Pediatric Orthopaedic Society of North America Annual Meeting April 30th – May 3rd, 2008, Albuquerque, New Mexico
278. Roye DP Jr, Gomez JA, Kaufman B, Addonizio L, Hyman JE, **Vitale MG**. Surgical Correction of Spinal Deformities after Heart Transplantation: A Case Series Report. *European Pediatric Orthopaedic Society 28th Annual Meeting; Warsaw, Poland, April 9th-12th, 2008*
279. **Vitale MG**, Gomez JA, Matsumoto H, Roye DP Jr and Chest Wall and Spine Deformity Group. Assessment of Construct Variability Among Experienced Vertical Expandable Prosthetic titanium Rib (VEPTR) users. *Early Onset Scoliosis & Growing Spine; Madrid, Spain, November 2-3, 2007, International Meeting on Advanced Spine Techniques Annual Meeting Paradise Island, The Bahamas, July 11-14, 2007 & American Academy of Pediatrics Annual Meeting; Boston MA. October 11-14, 2008*
280. Matsumoto H, Hyman JE, **Vitale MG**, Roye DP. Epidemiology of Hospitalization Among Patients with Cerebral Palsy in the United States from 1979 through 2003, *Annual Meeting of the American Academy of Orthopaedic Surgeons Annual Meeting in Vancouver, Canada 2007, American Academy of Pediatrics National Conference and Exhibition. San Francisco, CA. October 27-30, 2007, European Pediatric Orthopaedic Society 28th Annual Meeting; Poland, Warsaw, April 9th-12th, 2008, Pediatric Orthopaedic Society of North America Annual Meeting; Albuquerque, New Mexico, April 30-May 3rd, 2008 & 2nd Combined Meeting of the American Orthopaedic Association and the Canadian Orthopaedic Association, Quebec City, Quebec. Jun 4-7th, 2008*
281. **Vitale MG**, Roye DP Jr, Matsumoto H, Randal BR, Emans JB, Skags DL, Smith JT, Song KM, Compbell RM. Health Related Quality of Life in Children with Thoracic Insufficiency Syndrome. *International Meeting on Advanced Spine Techniques Annual Meeting Athens, Greece July 2006, International Society of Quality of Life Research Annual Meeting Lisbon, Portugal, October, 2006, American Academy of Orthopaedic Society Annual Meeting; San Diego, California, Feb 14-18, 2007, European Pediatric Orthopaedic Society Annual Meeting; Sorrento, Italy, April 2007, American Orthopaedic Association Annual Meeting; Asheville, NC, June 2007, Scoliosis Research Society Annual Meeting; Edinburgh, Scotland, September 5-8, 2007 & 1st International Congress on Early Onset Scoliosis & Growing Spine; Madrid Spain, November 2-3, 2007*
282. Dellenbaugh S, Hyman JH, Matsumoto H, Morcuende J, **Vitale MG**. A Comparison of Patient-Based Outcomes in Clubfoot Treatment: A Long Term Follow up Study. *American Academy of Pediatrics; Atlanta, Georgia, October 7-10, 2006– Second Place Award for Best Resident Paper, American Academy of Pediatrics National Conference and Exhibition; Atlanta, Georgia, October 7-10, 2006, International Society of Quality of Life Research Annual Meeting, Lisbon, Portugal, October 2006, American Academy of Orthopaedic Surgeons Annual Meeting; San Diego, California, February 2007, European Pediatric Orthopaedic Society Annual Meeting; Sorrento, Italy, April 2007 Pediatric Orthopaedic Society of North America Annual Meeting; Hollywood, Florida. May 2007 & American Orthopaedic Association Annual Meeting; Asheville, North Carolina. June 2007*
283. **Vitale MG**, Matsumoto H, Privitera David, Hyman JEH, Waters LM, Roye DP Jr. The Efficacy of Preoperative Erythropoietin Administration in Pediatric Neurogenic Scoliosis Patients. *International Meeting on Advanced Spine Techniques Annual Meeting, Athens, Greece, July 2006, Scoliosis Research Society, Monterey, California, September 2006, American Academy of Pediatrics National Conference and Exhibition, Atlanta, Georgia, October 2006, American Academy of Orthopaedic Surgeons Annual Meeting San Diego, California, February 2007, European Pediatric Orthopaedic Society Annual Meeting, Sorrento, Italy, April 2007 & Pediatric Orthopaedic Society of North America Annual Meeting, Hollywood, FL, May 2007*
284. Roye DP, Matsumoto H, Bye MR, Hyman JH, Gomez JA, Booker WA, **Vitale MG**. A Retrospective Cohort Study of Pulmonary Function, Radiographic Measures and Quality of Life in Children with Congenital Scoliosis: An Evaluation of Patient Outcomes after Traditional Spine Surgery. *International Meeting on Advanced Spine*

Techniques Annual Meeting, Athens, Greece, July 2006, Scoliosis Research Society Annual Meeting, Monterey, California, September 2006, American Academy of Pediatrics National Conference and Exhibition, Atlanta, GA, October 2006, International Society of Quality of Life Research Annual Meeting, Lisbon, Portugal, October 2006, Annual Meeting of the European Spine Society. Istanbul, Turkey. October 25-28, 2006, European Pediatric Orthopaedic Society Annual meeting, Sorrento, Italy, April 2007, Pediatric Orthopaedic Society of North America Annual Meeting Hollywood, FL, May 2007, Eurospine Meeting, Brussels, Belgium, October 3-6, 2007 & 1st International Congress on Early Onset Scoliosis & Growing Spine Madrid, Spain, November 2-3, 2007

285. Kurylo J, Hyman JE, Matsumoto H, **Vitale MG**, Spellman M. The Effect of Child Temperament on the Outcome of Idiopathic Clubfoot Treatment by the Ponseti Method. *American Academy of Pediatrics National Conference and Exhibition; Atlanta, Georgia, October 7-10, 2006*
286. Skaggs DL, Ramachandran M, Crawford H, Eastwood D, Lalonde F, **Vitale MG**, Tharani R, Kay R. Delaying the Treatment of Supracondylar Fractures: Has the Pendulum Swung too Far? *Pediatric Orthopaedic Society of North America; San Diego, California, May 3rd, 2006*
287. Vitale MA, Heyworth BE, Skaggs DL, Roye DP Jr, Lipton CB, **Vitale MG**. Comparison of the Volume of Scoliosis Surgery Between Spine and Pediatric Orthopaedic Fellowship-Trained Surgeons in New York and California. *European Pediatric Orthopaedic Society Annual Meeting; Dresden, Germany, April 5-8, 2006*
288. Lowenstein JE, Matsumoto MA, **Vitale MG**, Weidenbaum MD, Lee FY, Hyman JE, Roye DP Jr. Coronal Sagittal Plane Correction in Adolescent idiopathic Scoliosis: A Comparison Between Thoracic Pedicle Screw and Hook Constructs. 12th International Meeting on Advanced Spine Techniques. Banff, Canada. July 7-9, 2005, *American Academy of Pediatrics national Conference and Exhibition. Washington, DC. October 8-11, 2005, American Academy of Orthopaedic Surgeons Annual Meeting. Chicago, IL, March 22-26, 2006, European Pediatric Orthopaedic Society Annual Meeting; Dresden, Germany, April 5-8, 2006 & Pediatric Orthopaedic Society of North America Annual Meeting; San Diego, California, May 3, 2006*
289. **Vitale, MG**. Matsumoto H, Privitera DM, Hyman JE, Waters LM, Roye DP Jr. The Efficacy of Preoperative Erythropoietin Administration in Pediatric Neurogenic Scoliosis Patients. *American Academic of Orthopaedic Surgeons Annual Meeting; Chicago, Illinois, March 2006, American Academy of Pediatrics National Conference and Exhibition. Atlanta, GA. October 7-10, 2006 & European Pediatric Orthopaedic Society Annual Meeting. Sorrento, Italy. April 11-14, 2007*
290. Gross JM, **Vitale MG**. The Epidemiology of Pediatric Spinal Cord Injury in the US. *Pediatric Orthopaedic Society of North America. Ottawa, Ontario, Canada. May 13-15, 2005, World Spine III: An Interdisciplinary Congress on Spine Care. Rio De Janeiro, Brazil. July 31-August 3, 2005, American Academy of Pediatrics National Conference and Exhibition. Washington, DC. October 8-11, 2005 & American Academy of Orthopaedic Surgery Annual Meeting; Chicago, Illinois, March 2006*
291. **Vitale MG**, Roye DP Jr, Matsumoto H, Roye E. Perspectives on Pediatric Orthopaedic Outcomes; A Comparison of Parents' and Children's Quality of Life. *Annual Assistant Professor Pediatric Research Symposium, New York, New York, November 30, 2005 & Pediatric Research Symposium Annual Meeting, 2006*
292. **Vitale, MG**, Lehmann CL, Skaggs DL, Rice CN, Kay RM, Killelea BK, Bauer RM. Access to Orthopaedic Care for Children with Medicaid Versus Private Insurance: Results of a National Survey. *Pediatric Research Symposium, Annual Meeting, 2006*
293. Hyman JE, Jawetz St, Matsumoto H, Choe JC, **Vitale MG**. Impact of Pediatric Orthopaedic Injuries and Treatment on School Attendance. *Pediatric Orthopaedic Society of North America. Ottawa, Ontario, Canada. May 13-15, 2005 & American Academy of Orthopaedic Surgeons. Chicago IL, March 22-26, 2006*
294. Lehmann, Loder R, **Vitale MG**. The Epidemiology of SCFE: An Update. *American Academy of Pediatrics; San Francisco, California, 2004 & American Academy of Orthopaedic Surgeons Annual meeting; Washington, DC. March, 2005*
295. Vitale MG, Matsumoto H, Roye DP. Quality of Life as Measured by the CHQ in Patients Undergoing VEPTR: A Preliminary Review of Available IDE Data. *Pediatric Orthopaedic Society of North America Annual Meeting. Ottawa, Ontario, Canada. May 13-15, 2005*

296. Subeh M, Hyman JE, Choe J, Roye DP, **Vitale MG**. Use of rhEPO in Patients with Neurogenic Scoliosis: A Randomized Controlled Trial. *American Academy of Pediatrics; San Francisco, California, 2004*
297. Heyworth BE, Galano GJ, Vitale MA, **Vitale MG**. Treatment of Closed Femoral Shaft Fractures in Children, Ages 6-10: National Practice Patterns & Emerging Trends. *American Academy of Orthopaedic Surgeons Annual Meeting; San Francisco, California, 2004*
298. Heyworth BE, Lipton CB, Skaggs DL, Vitale MA, **Vitale MG**. Operative Treatment of Scoliosis in New York State by Surgeons with Pediatric cs. Spine Fellowship Training. *American Academy of Pediatrics Annual Meeting; New Orleans, Louisiana, November, 2003, American Academy of Orthopaedic Surgeons Annual Meeting; San Francisco, California, 2004 & Pediatric Orthopaedic Society of North America Annual Meeting; Ottawa, California, 2005 Winner of Best Clinical Scientific Paper*
299. Galano GJ, Vitale MA, Kessler MW, Hyman JE, **Vitale MG**. In-Patient Pediatric Trauma: The Most Frequent Traumatic Orthopaedic Injuries from a National Pediatric Inpatient Population. *American Academy of Pediatrics; New Orleans, Louisiana, November 2003 & American Academy of Orthopaedic Surgeons Annual Meeting; San Francisco, California, 2004*
300. Vitale MA, Skaggs DL, Heyworth BE, Roye DP Jr, **Vitale MG**. What is the “Best” Setting for Training for Scoliosis Surgery? A Comparison of Surgical Experience of Spine vs. Pediatric Fellows in California. *American Academy of Pediatrics Annual Meeting; New Orleans, Louisiana, November 2003 & American Academy of Orthopaedic Surgeons Annual Meeting; San Francisco, California, 2004*
301. Heyworth BE, Galano GJ, Vitale MA, **Vitale MG**. Treatment of Closed Femoral Shaft Fractures in Children, Ages 6-10: National Practice Patterns & Emerging Trends. *American Academy of Pediatrics; New Orleans, Louisiana, November 2003*
302. **Vitale MG**, Choe JC, Vitale MA, Hyman JE, Roye DP Jr, Skaggs DL, Schmitz ML, Sponseller PD, Flynn JM. Towards a National Pediatric Musculoskeletal Trauma Outcomes Registry. *American Academy of Pediatrics Annual Meeting; New Orleans, Louisiana, November 2003 & American Academy of Orthopaedic Surgeons Annual Meeting; San Francisco, California, February, 2004*
303. Dayan PS, **Vitale MG**, Ruzal-Shapiro C, Langsam D, Kuppermann N, Miller SZ. Derivation of Clinical Prediction Rules for Identifying Children with Significant Fractures after Twisting Injuries of the Ankle. *American Academy of Pediatrics Annual Meeting; New Orleans, Louisiana, November, 2003*
304. Klepps S, Lin J, Cahlon O, Kramer A, Hayes P, **Vitale MG**, Bigliani LU, Flatow E. Assessment of the Effect of Rotator Cuff Integrity on the Outcome Following Open Rotator Cuff Repair. *AOSSM Annual Meeting; San Diego, California, July 20-23, 2003 & American Academy of Orthopaedic Surgeons Annual Meeting; New Orleans, Louisiana, Feb5-9, 2003*
305. Skaggs DL, Bauer S, Clemons S, Kay R, **Vitale MG**. Access to Timely Orthopaedic Care: results from a National Survey. *American Academy of Pediatrics, 2nd place Award for Best Paper; Boston, Massachusetts, October 20, 2002 & American Academy of Orthopaedic Surgeons Annual Meeting; New Orleans, Louisiana, February 5-9, 2003*
306. Vitale MA, Choe J, Sesko A, Hyman JE, Lee FY, Roye DP, **Vitale MG**. Effect of Leg Length Discrepancy on Health Related Quality of Life: Is the 2cm Rule Appropriate? *American Academy of Pediatrics- 3rd Place Award for Best Paper; Boston, Massachusetts, October 20, 2002 & American Academy of Orthopaedic Surgeons Annual Meeting; New Orleans, Louisiana, February 5-9, 2003*
307. **Vitale MG**, Ugwonalu O, Lomas G, Choe JC, Hyman JE, Lee FY, Roye DP. Effect of Bracing on the Quality of Life of Adolescents with idiopathic Scoliosis. *American Academy of Pediatrics; Boston, Massachusetts, October 20, 2002 & 6th International Congress on Spinal Surgery Ankara; Ankara, Turkey, September 5-7th, 2000*
308. **Vitale MG**, Storer SK, Choe JC, Hyman JE, Lee FY, Roye DP. Correction of Adolescent Idiopathic Scoliosis Using Thoracic Pedicle Screws Versus Traditional Hook Constructs. *6th International Congress on Spinal Surgery; Ankara, Turkey, September 5-7th, 2000*

309. Vitale MA, Arons RA, Choe JC, Hyman JE, Skaggs DL, Roye DP Jr, **Vitale MG**. Practice Patterns and Surgical Outcomes of Spinal Fusion in the State of California: A Five Year Review of 92,372 Spinal Fusions. *6th International Congress on Spinal Surgery; Ankara, Turkey, September 5-7th, 2000, American Academy of Pediatrics; Boston, Massachusetts, October 20, 2002 & World Spine II; Chicago, Illinois, August 10-13, 2002*
310. **Vitale MG**, Vitale MA, Choe L, Hyman JE, Lee FY, Roye DP. Patient Based Outcomes Following Clubfoot Surgery: A Long Term Follow up Study. *American Academy of Pediatric; San Francisco, California, November 2001 & American Academy of Orthopaedic Surgeons Annual Meeting; Dallas, Texas, February 13-18, 2002*
311. **Vitale MG**, Nanda R, Skaggs DL, Kay R, Reynolds RA, Tolo VT. Pediatric Pelvic Fractures: An Exploration of Patient Based Outcomes. *American Academy of Pediatrics; San Francisco, California, November 2001 & American Academy of Orthopaedic Surgeons Annual Meeting; Dallas, Texas, February 13-18, 2002*
312. **Vitale MG**, Kay, Reynold R, Tolo VR, Skaggs DL. Volume Outcome Relationships in Pediatric Pelvic Fractures: An Analysis of 1196 Pediatric Pelvic Fractures in the National Pediatric trauma Registry. *American Academy of Pediatrics; San Francisco, California, November 2001*
313. Choe J, **Vitale MG**, Spellman M, Roye DP Jr. Perspectives on Pediatric Outcomes: A Comparison of Physician's Parent's and Pediatric Patient's Rating of Outcomes Following Orthopaedic Intervention. *American Academy of Pediatrics; San Francisco, California, November 2001*
314. **Vitale MG**, Levy DE, Choe J, Choi H, Parks M, Roye DP Jr. A Risk Adjusted Model for Predicting Blood Transfusion in Pediatric Patients Undergoing Spine Surgery: A Review of 400 Patients. *American Academy of Pediatrics; Chicago, Illinois, October 2000*
315. **Vitale MG**, Bauer B, J Choe, Huang M, Hyman JE, Lee FL, Roye DP Jr. Perioperative use of Toradol In Adolescent Spine Surgery : An Examination of Complications and Fusion Rates. *Pediatric Orthopaedic Club of New York Society, 2000 & American Academy of Pediatrics; Chicago, Illinois, October 2000*
316. **Vitale MG**, Levy DE, Gelijns AC, Moskowitz AJ, Hyman JE, Roye DP Jr. Pediatric Spine Deformity: How Do we Assess Quality of Life Impact? *American Academy of Pediatrics; Washington, DC, October 1999 & 6th international Congress on Spinal Surgery; Ankara, Turkey, September 5-7th, 2002*
317. **Vitale MG**, Levy DE, Gelijns AC, Moskowitz AJ, Hyman JE, Roye DP Jr. Assessment of health Status in patients with Cerebral Palsy: What is the Role of Quality of Life Measures? *Scoliosis Research Society; San Diego, California, September, 1999 & European Pediatric Orthopaedic Society Annual Meeting; Milan, Italy, April 2000*
318. **Vitale MG**, Levy DE, Moskowitz AH, Gelijns AC, Spellman M, Verdisco L, Roye DP. Capturing Quality of Life in Pediatric Orthopaedics: Two Recent Measures Compared. *National Association of Spine Surgeons; San Francisco, California, October 1998 & 14th Annual meeting of the International Society of Technology Assessment in Health Care; Ottawa, California, May 1998*
319. **Vitale MG**, Roye B, Gelijns AC, Roye DP. Measurement of Health Status in Adolescent Orthopaedic Patients: An Exploration of Two Different Measures. *13th Annual Meeting of the International Society of Technology Assessment in Health Care; Barcelona, Spain, May 1997 & Biannual Meeting of the Association of Orthopaedic Associations of The English Speaking World; Auckland, New Zealand, March 1998*
320. **Vitale MG**, Levy DE, Gelijns AC, Clifford E, Pollack RG, Bigliani LU, Flatow EL. Rotator Cuff Repair: An Analysis of In-Hospital Costs and Cost-Effectiveness. *American Academy of Orthopaedic Surgeons Annual Meeting; San Francisco, California, February 13- 18, 1997*
321. **Vitale MG**, Schweppe MW, Levy DE, Gelijns AC, Clifford E, Pollack RG, Bigliani, LU, Flatow EL. Rotator Cuff Repair: Assessing the Impact on Quality of Life. *American Academy of Orthopaedic Surgeons Annual Meeting; San Francisco, California, February 13- 18, 1997*
322. **Vitale MG**, Stazzone EJ, Gelijns AC, Moskowitz AH, Roye DP. The Effectiveness of Preoperative Erythropoietin in Avoiding Allogeneic Blood Transfusion among Children undergoing Scoliosis Surgery. *European Pediatric*

Orthopaedic Society Annual Meeting; Heidelberg, Germany, April 1997 & American Academy of Orthopaedic Surgeon Annual Meeting; Boca Raton, Florida, June 12-15, 1997

323. Roye B, **Vitale MG**, Roye DP, Gelijns AC, Moskowitz AJ. Preoperative Erythropoietin: A Decision Model for Long Term Outcomes. *13th Annual Meeting of the International Society of Technology Assessment in Health Care; Barcelona, Spain, May 1997 & American Academy of Orthopaedic Surgeons Annual Meeting; San Francisco, California, February 13-18th, 1997*
324. **Vitale MG**, Higgs GB, Roth N, Liebling MS, Roye DP. Superior Mesenteric Artery Syndrome After Segmental Spinal Instrumentation; A Biomechanical Analysis. *Scoliosis Research Society; Portland, Oregon, September 1994 & European Pediatrics Orthopaedic Surgeons Annual Meeting, Brussels, Belgium; April 1995*
325. Schweppe MW, **Vitale MG**, Michelsen CB, Rosenwasser MP. Cannulated Screws vs. Sliding Hip Screw for Femoral Neck Fracture: A functional Outcome Analysis. *American Academy of Orthopaedic Surgeons Annual Meeting; San Francisco, California, February 13-18, 1997*
326. Schweppe MW, **Vitale MG**, Sollano J, Michelsen CB, Rosenwasser MP. Unipolar vs. Bipolar Hemiarthroplasty for Femoral Neck Fracture in Elderly Patients. A Functional Outcome Analysis. *International Society for Fracture Repair 5th Biennial Meeting; Ottawa-Aylmer, Canada, September 18-21, 1996 & American Academy of Orthopaedic Surgeons Annual Meeting; San Diego, California, February 13-18th, 1997*
327. Schweppe MW, Sollano JA, **Vitale MG**, Michelson CB, Rosenwasser MP. Unipolar vs. Bipolar Hemiarthroplasty for Femoral Neck Fracture in Elderly Patients: Factors Affecting Mortality. *Orthopaedic Trauma Association Annual Meeting, 1996*
328. **Vitale MG**, Gelijns AC, Roye B, Roye DP. Assessment of Patient Outcome Following Pediatric Orthopaedic Intervention: The Case of Clubfoot Surgery. *European Pediatric Orthopaedic Society Annual Meeting, April 1995 & International Society of Technology Assessment in Health Care; Stockholm Sweden, June 1995*
329. Colman WW, **Vitale MG**, Cannon WD. Interactive Orthopaedic Education: The Case of Meniscal Repair. *American Academy of Orthopaedic Surgeons Annual Meeting; Orlando, Florida, February 1995*
330. Stazzone E, **Vitale MG**, Mow VC, Ratcliffe A. Effects of Mechanical Load on Gene Expression in Bovine Articular Cartilage. *12th Annual Eastern Conference in Proteoglycan Metabolism; Edison, New Jersey, September 1994*