Mission Statement:

Our mission is to provide quality care for athletes with sports related concussion by utilizing an evidence-based medicine approach, conducting academic and clinical research, and educating athletes, parents, coaches, and healthcare providers on the recognition and management of sports-related concussion.

Highlights

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  Providers (pages 18-19)
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  Concussion Baseline Testing Program (pages 21-22)
  Patient Volumes (pages 22-24)
Leadership

Dr. Allen Sills:

Associate Professor of Neurological Surgery, Orthopedic Surgery & Rehabilitation
Member, Concussion in Sport Group
Consulting Neurosurgeon, Nashville Predators, Vanderbilt University, Belmont University, and Mississippi State University
Consulting Neurosurgeon, Federation Equestrian Internationale
Section Editor, Sports and Rehabilitation, Neurosurgery

Dr. Gary Solomon:

Associate Professor of Neurological Surgery, Orthopedic Surgery & Rehabilitation, and Psychiatry
Consulting Neuropsychologist, Tennessee Titans
Team Neuropsychologist, Nashville Predators
Consulting Neuropsychologist, Tennessee Tech University and National Steeplechase Association
Associate Section Editor, Sports and Rehabilitation, Neurosurgery
Editorial Board, Archives of Clinical Neuropsychology
Principal Reviewer, American Journal of Sports Medicine
Editorial Reviewer: Applied Neuropsychology: Child
                        International Journal of Sports Medicine
                        The Physician and Sportsmedicine
Charter member: NFL Neuropsychology Consultants and NHL Neuropsychology Consultants

Dr. Andrew Gregory:

Associate Professor of Pediatrics, Orthopedic Surgery and Rehabilitation, and Neurological Surgery
Team Physician, Vanderbilt University Athletics, Belmont University Athletics
Team Physician, Nashville Sounds (AAA Affiliate of the Milwaukee Brewers)
Team Physician, USA Volleyball
Program Director, Vanderbilt Sports Medicine Fellowship
Professional Educational Programs

Bold = VSCC member
Bold Red = student
Bold Blue = resident

VUMC Annual Research Forum

“Recovery from Sports-Related Concussion: Days to Return to Baseline in Adolescents vs. Young Adults”

Scott Zuckerman, MD, Young Lee, MD, Gary Solomon, PhD., Jonathan Forbes, MD, Allen Sills, MD.

Nashville, TN

April, 2013

Adolescent Health Care Conference

Sports Medicine Contemporary Forums

Andrew Gregory, MD

Orlando, Florida

May 2, 2013

International Equestrian Foundation Safety Meeting

Allen Sills, MD

Zurich, Switzerland

May 16, 2013

American Academy of Physician Assistants

“Adolescent Sports Medicine Cases”

Andrew Gregory, MD

Washington, District of Columbia

May 25, 2013
International Sports Concussion Symposium

“Neurocognitive Performance of Spanish-speaking Hispanic Athletes on ImPACT.”

Gary Solomon, PhD

Minneapolis, MN

May, 2013

International Sports Concussion Symposium

“Utility of Repeated Assessment Following Invalid Baseline Performance”

Gary Solomon, PhD

Minneapolis, MN

May, 2013

Advances and New Frontiers in Sports Concussion

Hosted by the VSCC@ Vanderbilt Children’s Hospital

Gary Solomon, PhD, Scott Zuckerman, MD, Andrew Gregory, MD, Alex Diamond, DO

May 15, 2013

American Academy of Pediatrics; PREP: The Course

“Concussions in Youth Sports”

Andrew Gregory, MD

Portland, Oregon

June, 2013

American Orthopaedics Society for Sports Medicine

“Baseline Neurocognitive Test Results In Non-concussed Athletes: Does Sleep Matter?”

Andrew Gregory, MD

Chicago, IL

July, 2013
American Academy of Clinical Neuropsychology Conference

“Utility of Repeated Administration of ImPACT following an Invalid Baseline”

Gary Solomon, PhD
Chicago, IL
June, 2013

Tennessee Neurosurgical Society Annual Meeting

“Sports-Related Concussion: How Do Age and Gender Affect Outcomes?”

Scott Zuckerman, MD, Young Lee, MD, Mitch Odom, MD, Gary Solomon, PhD., Jonathan Forbes, MD, Allen Sills, MD
Nashville, TN
August, 2013

Cookeville Regional Medical Center CME Conference

“Concussion and Head Injuries in Sports”

David Liddle, MD
Cookeville, TN
August 26, 2013

Omaha Children’s Hospital Pediatric Grand Rounds

“Concussion in Youth Sports”

Andrew Gregory, MD
Omaha, Nebraska
September, 2013

Vanderbilt Physical Medicine and Rehabilitation Grand Rounds

“Concussion in Youth Sports”

Andrew Gregory, MD
Nashville, Tennessee
September, 2013
Jennie Stuart Medical Center CMF Event

“Concussion in Youth Sports”

Andrew Gregory, MD
Hopkinsville, Kentucky
October, 2013

American Academy of Physical Medicine and Rehabilitation Annual Meeting

“Concussion in Youth Sports”

Andrew Gregory, MD
National Harbor, Maryland
October, 2013

TN Psychological Association Convention

“The Vanderbilt Sports Concussion Center: Clinical, Educational, and Research Activities”

Gary Solomon, PhD
Nashville, TN
October, 2013

Tennessee State School Nurses Association State Meeting

Gary Solomon, PhD, David Liddle, MD, Tim Lee, ATC
Murfreesboro, TN
October 24, 2013

Tennessee Academy of Family Physicians 65th Annual Scientific Assembly

“Concussion Recognition and Management at the K-12 Level”

Alex Diamond, DO
Gatlinburg, TN
October 31, 2013
Joe DiMaggio Children’s Hospital Symposium

“Sports Concussion in Young Athletes”

Andrew Gregory, MD

Hollywood, Florida

November, 2013

American Academy of Pediatrics Practical Pediatrics Course

“Youth Sports Concussion”

Andrew Gregory, MD

Vail, Colorado

December, 2013

TN Athletic Trainer’s Association Annual Meeting

“Chronic Traumatic Encephalopathy in Football: What is the Evidence?”

Gary Solomon, PhD

Nashville, TN

January 14, 2014

Vanderbilt Children’s Hospital Pediatric Grand Rounds

“Sports Concussion in Young Athletes”

Andrew Gregory, MD

Nashville, Tennessee

January, 2014

Annual Meeting of the International Neuropsychological Society

“The Use of Psychostimulants Among Adolescents Athletes with Reported ADHD Impacts Computerized Neuropsychosocial Baseline Test Performance.”

Gary Solomon, PhD

Seattle, Washington

February, 2014
Annual Meeting of the International Neuropsychological Society

“Normative Data for the Neuropsychological Risk Factors Reported on the ImPACT Neurocognitive Test Battery.”

Gary Solomon, PhD
Seattle, Washington
February, 2014

Annual Meeting of the International Neuropsychological Society

“Adolescent Athletes with a History of Seizures Report a Greater Number of Symptoms at Baseline Compared to Matched Controls.”

Gary Solomon, PhD
Seattle, Washington
February, 2014

Southern Neurological Society 65th Annual Meeting

“Survey of High School Football Helmet Condition and Maintenance in Middle Tennessee”

Thomas O’Lynnger, MD, Allen Sills, MD
San Juan, Puerto Rico
February 19-22, 2014

Southern Orthopaedics Association presents Southern at the SEC: Sports Injury Update

“Update on Chronic Traumatic Encephalopathy”

Alex Diamond, DO
Nashville, TN
March 6, 2013

American Academy of Pediatrics Practical Pediatrics Course

“Youth Sports Concussion”

Andrew Gregory, MD
Orlando, Florida
March, 2014
Tennessee Brain Injury Association Annual Meeting

Concussion Panel Member for “Ask the Experts”

Gary Solomon, PhD

Nashville, TN

March 28, 2014

American Association of Neurological Surgeons 82nd Annual Scientific Meeting

“Survey of High School Football Helmet Condition and Maintenance in Middle Tennessee”

Thomas O’Lynneger, MD

San Francisco, CA

April 5-9, 2014

Tennessee Medical Association Annual Meeting

“Concussion in Youth Sports”

Andrew Gregory, MD

Franklin, Tennessee

April, 2014

The International Olympic Committee World Conference on Prevention of Injury in Sport

“Put Me in Coach! The Role of Educational Programming for Coaches on Injury Prevention”

Alex Diamond, DO

Monte Carlo, Principality of Monaco

April 10-11, 2014

The International Olympic Committee World Conference on Prevention of Injury in Sport

“Nature vs Nurture: Is the Prevention of Injury Born or Bred?”

Alex Diamond, DO

Monte Carlo, Principality of Monaco

April 10 -11, 2014
The International Olympic Committee World Conference on Prevention of Injury in Sport


Alex Diamond, DO, Andrew Gregory, MD

Monte Carlo, Principality of Monaco

April 10 – 11, 2014

American College of Sports Medicine International Team Physician Course

"Concussion in Youth Sports"

Andrew Gregory, MD

Orlando, Florida

May, 2014

Vanderbilt Orthopaedics Society Annual Meeting

"Concussion in Athletes"

Alex Diamond, DO

Nashville, TN

May 9, 2014
Community-based Educational Programs

Vanderbilt Sports Concussion Center Community Education Seminar Funded by Rawlings

Allen Sills, MD, Gary Solomon, PhD, Andrew Gregory, MD, James Fiechtl, MD, Alex Diamond, DO, Tim Lee, ATC

Nashville, TN

April 30, 2013

Star Physical Therapy Sports Safety Conference

“Sports Concussions in Young Athletes”

Andrew Gregory, MD

Nashville, Tennessee

July, 2013

Vanderbilt Sports Concussion Center Community Education Seminar Funded by Rawlings

Gary Solomon, PhD, James Fiechtl, MD, Tim Lee, ATC

Chattanooga, TN

August 13, 2013

Vanderbilt Sports Concussion Center Community Education Seminar

Gary Solomon, PhD, Andrew Gregory, MD, Tim Lee, ATC

St. Cecilia Academy

Nashville, TN

September 26, 2013

Chattanooga Traumatic Brain Injury Foundation

“Concussion in Youth Sports”

Andrew Gregory, MD

Chattanooga, Tennessee

October, 2013
Vanderbilt Sports Concussion Center Community Education Seminar Funded by Rawlings

Tim Lee, ATC, Allen Sills, MD, Andrew Gregory, MD, James Fiechtl, MD

Jackson, TN

November 5, 2013

Youth Sports Safety Campaign and Clinic (Hendersonville Soccer Club)

“Concussion in Youth Sports”

Alex Diamond, DO

Hendersonville, TN

February 4, 2013

Sports Fest hosted by 104.5 the Zone

Concussion Panel Member

Allen Sills, MD

Nashville, TN

February 22-23, 2014

Vanderbilt Sports Concussion Center Community Education Seminar Funded by Rawlings

Allen Sills, MD, Gary Solomon, PhD, David Liddle, MD, Tim Lee, ATC

Franklin, TN

April 4, 2014

TSSAA State Athletic Directors Meeting

Tim Lee, ATC

Murfreesboro, TN

April 7-8, 2014

Vanderbilt Sports Concussion Centers Community Education Seminar

Tim Lee, ATC

Belmont University, Nashville, TN

April 9, 2014
Research

Vanderbilt Sports Concussion Research (V-SCoRe)

The purpose of the Vanderbilt Sports Concussion Research (V-SCoRe) is to improve our knowledge in the area of sports-related concussion (SRC) and the outcome of these injuries in athletes. Goals also include identifying pre and post-concussion variables that influence recovery from a SRC and management approaches that can optimize an athlete's return to the pre-injury level of function and performance. We hope to further expand our research efforts to the following areas that affect SRC outcomes:

- Age
- Gender
- Return to play
- Neurocognitive assessment
- Number of prior concussions
- Seizures
- Anxiety/depression

Achieving these goals will be possible by:

- Utilizing a prospective athlete registry of neurocognitive tests to identify factors associated with SRC outcomes.
- Obtaining long-term patient reported outcome measures to evaluate the longitudinal impact of SRC.
- Communicating directly with local coaches and school personnel to identify the important issues surrounding young athletes today

V-SCoRe Research Team:

**Bold Black = faculty**  **Bold Blue = resident**  **Bold Red = student**

**Dr. Gary Solomon**  
Mitch Odom

**Dr. Allen Sills**  
Clint Morgan

**Dr. Andrew Gregory**  
Shawn Love

**Dr. Scott Zuckerman**  
Greg LaChaud

**Dr. Alex Diamond**  
Geoffrey Casimir

**Dr. Rachel Apple**  
Young Lee

Tim Lee

13
Published Manuscripts

Bold = VSCC member
Bold Red = student
Bold Blue = resident
Bold Black = faculty


Poster Presentations

**Bold** = VSCC member  
**Bold Red** = student  
**Bold Blue** = resident  
**Bold Black** = faculty


Current Projects

Bold Red = student
Bold Blue = resident
Bold Black = faculty

Sills et al: Israeli ICP device
Gregory et al.: Age as a modifying factor in SRC
Clint Morgan, Zuckerman, et al: Post concussion headache case control study
Young Lee et al: BMI and response to concussion
Geoffrey Casimir: Gender and LAX
Mitch Odom et al: Parents' knowledge of CTE
Zuckerman & Rubel et al: Mechanisms of concussion injury and resource utilization
Yengo-Kahn & Johnson: Summary of NFL Concussion studies
Sheah: Seizures as a modifying factor (Poster presented AAN Conference 2014)
DeVore: US Equestrian cohort
Golla: Sx resolution post-concussion public vs. private schools
Clinical Practice

Providers

Allen Sills, MD

Associate Professor of Neurosurgery and Orthopedic Surgery & Rehabilitation
Director of Neurosurgery Community Practice
Co-Director, Vanderbilt Sports Concussion Center

Gary Solomon, PhD

Associate Professor of Neurological Surgery, Orthopedic Surgery & Rehabilitation, and Psychiatry
Co-Director, Vanderbilt Sports Concussion Center

Andrew Gregory, MD

Associate Professor of Orthopaedic Surgery & Rehabilitation, Pediatrics, and Neurological Surgery
Vanderbilt Team Physician
Co-Director, Vanderbilt Sports Concussion Center

Alex Diamond, DO

Assistant Professor of Orthopaedics & Rehabilitation
Assistant Professor of Pediatrics
Team Physician: Vanderbilt & Belmont Universities, Nashville Predators, Nashville Sounds

Jim Fiechtl, MD

Assistant Professor of Emergency Medicine
Assistant Professor of Orthopaedics and Rehabilitation

Warne Fitch, MD

Assistant Professor of Emergency Medicine
Assistant Professor of Orthopaedics and Rehabilitation

David Liddle, MD

Assistant Professor
Attending Physician
Team Physician - Vanderbilt University, Belmont University, & Nashville Sounds
Medical Consultant - Nashville Predators

Paul Rummo, MD

Assistant Professor of Orthopaedics and Rehabilitation
Gene Hannah, MD

Assistant Professor Department of Orthopaedics
Assistant Professor Program of Family Medicine

Jay Wellons, MD

Professor of Neurological Surgery and Chief of Pediatric Neurosurgery

Thomas Whitfield, MD

Assistant Professor of Clinical
Senior Air Medical Examiner

Susan Beaird, NP

Pediatric Neurology

Lauren King, NP

Pediatric Neurology

Ryan Raburn, PA

Adult Neurosurgery
Locations

Vanderbilt Sports Medicine
Medical Center East, South Tower
1215 21st Ave. S. Nashville, TN 37232

Village at Vanderbilt
1500 21st Ave. S., Suite 1506
Nashville, TN 37212

Vanderbilt Pediatric Orthopaedics
Monroe Carell Jr. Children's Hospital at Vanderbilt
2200 Children's Way, Suite 4202 Nashville, TN 37232

Vanderbilt Pediatric Neurology
Monroe Carell Jr. Children's Hospital at Vanderbilt
9th Floor, Doctor's Office Tower
2200 Children's Way, Suite 4202 Nashville, TN 37232

Vanderbilt Adolescent Sports Medicine
One Hundred Oaks
719 Thompson Lane, Suite 36300 Nashville, TN 37204

Vanderbilt Orthopaedics Cool Springs
324 Cool Springs Blvd. Franklin, TN 37067

Cool Springs Neurosurgery
2009 Mallory Lane, Suite 230
Franklin, TN 37067

Vanderbilt Bone & Joint
206 Bedford Way Franklin, TN 37064

Vanderbilt Primary Care Brentwood
343 Franklin Road
Brentwood, TN 37027

Vanderbilt Orthopaedics at Mt. Juliet
5002 Crossings Circle, Suite 230
Mt. Juliet, TN 37122
Concussion Baseline Testing Program

Participating Schools...2,246 baseline tests performed

Antioch High School
Brentwood High School
Cane Ridge High School
Centennial High School
Currey Ingram School
East Literature Magnet
Fairview High School
Glencliff High School
Harpeth High School
Hillsboro High School
Hillwood High School
Hume Fogg Magnet
Hunter's Lane High School
Independence High School
Maplewood High School
McGavock High School
MLK Magnet
Nashville Christian School
Overton High School
Page High School
Pearl-Cohn High School
Ravenwood High School
St. Cecelia's Academy
St. Edward School
Stratford High School
Summit High School
University School Nashville
Whites Creek High School

**Participating Universities...362 baseline tests performed**

Belmont University Athletics
Vanderbilt University Athletics

**Clinical Testing Sites...37 baseline tests performed**

Vanderbilt Orthopedics Institute
Vanderbilt Orthopedics-Mt. Juliet
Vanderbilt Medical Group

**Community Club Sports Teams...193 baseline tests performed**

Brentwood Lacrosse
Centennial Lacrosse
Franklin Lacrosse
Ravenwood Lacrosse
Sunset Lacrosse
Calvary Rugby

**The VSCC performed a total of 2,838 baseline concussion tests in FY14.**
Patient Volumes

The VSCC saw 940 new patients with sports concussions from 14 access points.

<table>
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<tr>
<th>VSCC Access Points</th>
<th>July</th>
<th>Aug</th>
<th>Sept</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>TOTAL</th>
<th>% of pts</th>
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</table>

**FY 14 TOTAL** | **33** | **99** | **147** | **168** | **84** | **55** | **66** | **63** | **65** | **65** | **62** | **33** | **940** |
The VSCC saw a total of 1107 sports-related concussion visits between all 14 access points.

<table>
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<tr>
<th>Total Visits</th>
<th>July</th>
<th>Aug</th>
<th>Sept</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
<th>March</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>TOTAL</th>
<th>% of pts</th>
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<tr>
<td>Neurosurgery Clinic</td>
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<td>3</td>
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<td>0</td>
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<td>3</td>
<td>4</td>
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<tr>
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<td>23</td>
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<td>102</td>
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