Prevalence of Visual Dysfunction Among Division 1 (D1) Baseball Student Athletes
Kara Heying, OD, FCOVD & Sheri Roggy, OD
Contact Author: ☮

Using the Z-Bell® Technique to Prescribe Spatial Neuromodulating Spectacles for a mTBI Collegiate Athlete
Doug Major, OD, FAAO, FCOVD, ABO, ZBell Cert; Nancy J. Major, MS, COVT, ZBell Cert
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Regaining Control of a Divergence Excess Exotropia
Alexandria R. Wiss, OD
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Pediatric Neurological Deficits and Cerebral Vision Impairment
Kirsten Johnson, OD; Barry Kran, OD, FAAO
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Visual Rehabilitation of Homonymous Hemianopia Following Partial Craniotomy
Anna Claire Spradling, OD; Katherine Green, OD, FAAO
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Pediatric Neurological Deficits and Cerebral Vision Impairment
Alayna Larsen, OD; Katherine Green OD, FAAO
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Understanding the Role of Vision Therapy for Patients with Dyspraxia
Pravina P. Patel, OD, FAAO
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Case Examples of Interprofessional Collaboration in Children with Specific Learning Disorder
Heidi Patterson, BSc, OD; Angela Peddle, OD, FCOVD; Lisa W Christian, OD, FCOVD, FAAO
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A Multi-Model Approach in Treatment of Congenital Nystagmus Using Contact Lenses, Visual Biofeedback and Sinewave Vision Therapy
Tara Mahvelati; Elkie Fung; Sonia Singh, OD; Zhenzhen Ye, OD; Amy Steinway, OD; Daniella Rutner, OD

Systematic Approach to Treatment of Binocular Dysfunction Using Virtual Reality
Benjamin T. Backus, PhD, FCVD-A, Assoc. Prof. Emeritas SUNY College of Optometry; Tuan A. Tran, OD; Brian D. Dornbos, OD, FAAO; James J. Blaha, Chief Executive Officer; Manish Z. Gupta, Chief Technology Officer

Sequencing for Success: Developmental consideration for vision therapy
Audra Steiner, OD, FCVO

Early Detection of Visual Dysfunction in 5th and 6th Grade Readers Based on Head Movements and Head Position During Reading Activities
Nikita Katoozi, OD, MEd-VFL; Bradley Coffey, OD, FAAO

Recovering from My Concussion – A Case for Optometry in the Recovery Team
Amanda Nanasy, OD

“Out for Recess” Successive Treatments of Pediatric Post-Surgical Intermittent Exotropia
Katharine Funari, OD; Jo Ann Bailey, OD, FAAO; Erin C. Jenewein, OD, MS, FAAO

Bilaterality to Binocularity
Kristin Adams, OD; Jennifer Janners, Vision Therapist
Successful Implementation of the King-Devick Reading Acceleration Program by School Staff
Alexandra Talaber OD, FCOVD, FAAO; Kiomi Villar, PhD Candidate

Optometrist’s Role in the Multidisciplinary Care of Patients with ASD
Emma Pope, OD; Alicia Groce, OD FAAO

Near Vergence Facility Response in Pre-Presbyopes, with Open-Loop Accommodation
Ronald Gall, OD, MSc, FAAO, FCOVD, Diplomate BVPOPO; Bruce Wick OD, PhD, FAAO, Diplomate BVPOPO

The Pediatric/Vision Therapy Residency at Salus University
Ruth Y. Shoge, OD, FAAO; Erin Jenewein, OD, FAAO, Dipl; Stan Hatch, OD, FAAO, Dipl

Special Considerations When Performing Vision Therapy for Field Loss on Children with Acquired Brain Injury
Alexandria Tilley, OD; Ilana Gelfond, OD, FCOVD; Rebecca Marinoff OD, FAAO; M.H. Esther Han OD, FCOVD, FAAO

Development and Validation of a Mobile Application for the Screening of Visual Dysfunction Following Concussion
Diane Tucker, OD, FAAO, FCOVD; Susan Linder, DP, DPT, NCS; Karen Guzi, CNS; Jay Alberts, PhD
COI statement: Jay Alberts and Susan Linder have filed intellectual property protecting the visual modules used in this study.

Vision Rehabilitation Residencies at Southern College of Optometry
Pamela H. Schnell, OD, FAAO; Marc B. Taub, OD, MS, FAAO, FCOVD, FNAP
Modifying Vision Therapy for a Child with Williams Syndrome
Caitlin Miller, OD

Role of Complicating Medical Conditions in the Management of Accommodative and Vergence Dysfunctions in Patient with Epilepsy
Kelsey Starman, OD; Dan Fortenbacher, OD, FCOVD; Alyssa Bartolini, O.D.

Clinical Use of Syntonic Phototherapy in Guillian-Barre Syndrome
Elizabeth Nace, OD; Moshe Roth, OD

Convergence Insufficiency Masquerading as Progressing Parkinson’s Disease
Candice DiStefano; Bradley Meltzer, OD, FCOVD; Grace Tan, OD; Shephali Patel, OD, MS, FAAO

Strabismus, Chorioretinal Scarring, and Unexpected Prism: A Case Report
Daniel McIntosh, OD

Results from the 2016 and 2017 National Survey of Children’s Health (NSCH) on Vision Services for Children with Diagnosed Learning Disabilities, Behavior Problems, ADHD, and Autism
Sandra Block OD, MEd, MPH, FAAO, FCOVD, Professor Illinois College of Optometry

Role of Electrophysiologic Testing in the Special Needs Population
Brandon Harnos, Doctor of Optometry Candidate; Erica Schulman, OD, FCOVD; Tamara Petroysan, OD
Convergence Insufficiency Treatment using Virtual Reality
Tressa Malikkal, OD; Tuan Tran, OD; Ben Backus, PhD; Amanda Hauns

Is It Too Soon to Start Vision Therapy? Modifying Therapy for Young and/or Developmentally Delayed Children
Katlyn Martin, OD

How to Modify an Exam and Vision Therapy Procedures for Patients in Wheelchairs
Amber Delly, OD; Pam Schnell, OD, FAAO; Marc Taub, OD, MS, FAAO, FCOVD; Alicia Groce, OD, FAAO

Adding Low Power Vertical Yoked Prism to the Spectacle Prescription in the Management of Exotropia
Jesse Willingham, OD; Ciara McCaffrey, OD

Spectacle Correction and its Effect on Sensory Fusion: Two Case Studies
Jesse Willingham, OD; Sonia Singh, OD

A Case of Pediatric Lyme Disease and Resultant Visual Dysfunction
Shannon Koenders, OD; Jill K. Schultz, OD, FCOVD

Interdisciplinary Approach to Pediatric Rehabilitation
Rebecca Charlop, OD, FAAO

Exo Eyes, Eso Brain. An Interesting Case of Adult Consecutive Exotropia
Tyler Mazur, OD; Jill Schultz, OD
Double Trouble. The Importance of Optometric care in a Rehabilitation Facility
Laura Aelvoet, OD
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Integrating Primitive Reflexes to Enhance Writing Skills and Motor Development
Leanna Dudley, OD, FCOVD; Lori Erickson, COVT

Validity of Wide-range Assessment of Vision-related Essential Skills (WAVES) in Japanese Children with Learning Problems
Tomohito Okumura, MSOptom, MEd, FAAO, FCOVD; Tomoko Miura; Makoto Nakanishi; Miho Fukui, MD, PhD; Mari Toshikawa, MD, PhD; Shuichi Shimakawa, MD, PhD; Eiji Wakamiya, MD, PhD; Hiroshi Tamai, MD, PhD

Making a Case for Annual Eye Examinations in School-Aged Children
Rochelle Mozlin, OD, MPH, FCOVD, FAAO

Amblyopia Until It Isn’t – A Macular Masquerade
Brian Roberts, OD; Rachel “Stacey” Coulter, OD, FCOVD, FAAO

Use of Prisms and Adjunctive Vision Therapy to Manage Homonymous Hemianopia: A Case Report
Ciara McCaffrey, OD; Jesse Willingham; Allen Cohen
All left, not alright: Improved visual function from vision rehabilitation in a patient with right hemianopsia
Emily Aslakson, OD, FAAO; Morgan Ollinger, OD, FAAO

Maximizing Multiple Rehabilitative Therapies Through Co-Management, Identification and Rehabilitation of Visual Dysfunction in a mTBI Patient
Samantha Del Campo, OD; Guillermo Del Campo, OD

Neuro-Optometric Rehabilitation in a Patient with Post-Concussion Syndrome with Amplified Musculoskeletal Pain Syndrome
Sneha Bagavandoss, OD; Barry Tannen, OD, FCOVD, FAAO

Benefits and Challenges of Vision Therapy in Patients with Cerebral Palsy
Sonia Singh, OD; Zhenzhen Ye, OD; Daniella Rutner, OD, MS, FAAO, FCOVD

Vision Therapy for Septo-Optic Dysplasia: A Case Report
Amy Steinway OD, FAAO; Daniella Rutner OD, MS, FAAO, FCOVD

Management of Intermittent Exotropia with DVD and Associated Vertical Deviation
Aaron Salzano, OD; Angela Chen, OD, MS
Clinical Characteristics and Types of Nystagmus in Children
Longqian Liu, MD, FCOVD-A; Yunyang Lei, MD; Hong Wei, PhD

Optometric Management Considerations of Two Unique Duane’s Syndrome Cases
Zhenzhen Ye, OD; Ciara McCaffrey, OD; Esther M. H. Han, OD, FAAO, FCOVD

Accommodation Dysfunction in Chinese Traumatic Brain Injury
Na Chen, PhD; Ling Yuan; Longqian Liu, PhD

Optometric Management of Congenital Nystagmus Complicated by Late Onset Visual Field Loss in the Null Position Direction
Zhenzhen Ye, OD; Sonia Singh, OD; Daniella Rutner, OD, MS, FAAO, FCOVD

Implementation and Evaluation of a New School-Based Vision Therapy Program
Paula Kutzner, OD, ME; Anita Zijdemans-Boudreau, PhD; Sarah Martin, OD

Expanding the Role of Neuro-Optometric Rehabilitation Therapy in the Interdisciplinary Management of Moderate Traumatic Brain Injury Patients
Sarah Palmer, OD; Allen Cohen, OD, FCVD, FAAO
49th Annual Meeting Poster Preview

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**Ethical Dilemma in the Therapy Room**
Alissa Proctor, OD, FAAO

Contact Author: [Link]

**Family Practice and Ocular Disease Residency**
Alissa Proctor, OD, FAAO

Contact Author: [Link]

**Multi-modality Optometric Treatment of Deep Amblyopia Secondary to Micro-esotropia and Anisometropia**
Judy Cao, OD, FAAO, FCOVD; Derek Tong, OD, FAAO, FCOVD, FNORA; Jana Giebel, OD
Contact Author: [Link]

**Changes in Near Visual Function from Orthokeratology**
Morgan Ollinger, OD, FAAO; Jessica Lam, OD, FAAO; Sari Schwartz, OD, FAAO; Cori Jones, BS
Contact Author: [Link]

**Treating Eccentric Fixation in the Presence of Refractive Amblyopia**
Allan McCleary, OD
Contact Author: [Link]

**A Marathon Runner with Diplopia**
Elizabeth Lemos, OD, MS

Contact Author: [Link]

**Management of Non-Comitant Hypertropia and Exotropia Following Double Scleral Buckle Surgery: A Case Report**
Ciara McCaffrey, OD; Zhenzhen Ye; Esther M.H. Han

Contact Author: [Link]

**Benefits of Therapeutic Lenses and Sensory Learning Program after Brain Tumor Resection**
Amy Thomas, OD, FCOVD & Kim Ly, OD

Contact Author: [Link]
**49th Annual Meeting Poster Preview**

(Full-size Poster can be accessed by clicking on the poster image.)

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**Chorioretinal Maculopathy in an 8-Year-Old Secondary to Toy Lasers**
Janette Dumas, OD; Morgan McClintic, BS

Contact Author: ☞

**PUCO Pediatric/Rehabilitation Residencies**
Curtis Baxstrom, OD, FCVO, FAAO, FNORA; Pacific University College of Optometry residencies
Contact Author: ☞

**The Effects of Font Style on the Gardner Reversal Frequency Test**
Jennifer Dryden; Breanna Barnes; June Morikawa; Colleen Tejchma; Christina Esposito, OD, FCVO, FAAO; Kelly Varney, OD, FAAO
Contact Author: ☞

**Multiple Orbital Fractures with Inferior Rectus Entrapment Following Blunt Force Trauma**
Aaron Heltunen, OD; Steven Klein, Residency Supervisor

Contact Author: ☞

**Residency in Pediatric Optometry and Vision Therapy at the Southern California College of Optometry at Marshall B. Ketchum University**
Angela Chen, OD, MS

Contact Author: ☞

**Athletes vs. Non-Athletes: Reaction Time, Hand-Eye Coordination Using the SVI**
David Hurd; Blake Zoellner; Dr. Sarah Krein OD

Contact Author: ☞

**Culturally Competent Care of Myopia and Esotropia**
Samantha Rice, OD, FAAO; Melissa Suckow, OD, FAAO

Contact Author: ☞
Effectivity Study of At-Home Sports Vision Training Compared to In-Office Training
Brittany Wolthuizen; Kelsey Buford
Contact Author: ☐

Effectiveness of Chromatic Filters in Digital Devices in Relieving Visual Symptoms in a Patient with History of Multiple Concussions
Chenyi Liu, OD; Dr. Myoung Hee E. Han

Neuro Optometric Rehabilitation in Patient with Acquired Right Hemianopia
Angela C. Howell, OD, FCOVD
Contact Author: ☐

Visual Evaluation of a Non-verbal Patient Who Uses a Picture Device
Angela C. Howell, OD, FCOVD; Christy Lemmons, Speech Language Pathologist
Contact Author: ☐

Vision and the MTHFR Gene Mutation
Joseph N. Trachtman, OD, PhD, FCOVD-A
Contact Author: ☐

Vision Rehabilitation for Diplopia Post-Traumatic Brain Injury
Amber Cumings, OD
Contact Author: ☐

Reliability and Normative Data of Computerized Dynamic Visual Acuity Tests
Melissa Hunfalvay, PhD, Chief Science Officer; Nicholas Murray, PhD, Associate Professor, Department of Kinesiology, East Carolina; Claire-Marie Roberts, Senior Lecturer, Department of Psychology, University of the West of England, Bristol; Belinda Lange, Associate Professor, Flinders University, Adelaide, South Australia
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The Reliability, Validity, and Normative Data of Interpupillary Distance and Pupil Diameter Using EyeTracking Technology
Melissa Hunfalvay, PhD, Chief Science Officer; Nicholas Murray, PhD, Associate Professor, Department of Kinesiology, East Carolina; Takumi Bolte, RightEye, LLC, Computer Scientist
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Developmental Changes in Oculomotor Behavior Across the Lifespan
Melissa Hunfalvay, PhD, Chief Science Officer; Nicholas Murray, PhD, Associate Professor, Department of Kinesiology, East Carolina; Karla Kubitz, PhD, Associate Professor, Department of Kinesiology, Towson University; Claire-Marie Roberts, Senior Lecturer, Department of Psychology, University of the West of England, Bristol; Takumi Bolte, RightEye, LLC, Computer Scientist; Ankur Tyagi, RightEye, LLC, Data Analyst
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Effect of Monocular Blur on Basketball Free Throw Performance
Kennedy Simmons; Jenny Rider; Dr. PM Cisarik
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Treatment for a Case of Accommodation Spasm
Fuhao Zheng; Yuwen Wang; Yipao Li; Pingping Huang; Hao Chen
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Non-strabismic Binocular Vision Anomalies in Subjects with and without Asthenopia
Hira Nath Dahal; Ritu Bhandari, M. Optom; Mohammad Nooruz Zaman, M. Optom
Contact Author: 

Evaluation of Primitive Reflexes in Children with Special Education
Ethelvina Gallegos, OD/Student MRV Universidad Autónoma de Aguascalientes, México; Elizabeth Casillas, OD/MCO
Contact Author: 

A Prospective Observational Study of Adult Divergence Insufficiency Esotropia
Paula A. Luke, OD; Trevano W. Dean, MPH; Jonathan M. Holmes MD; Raymond T. Kraker, MSPH; Eric R. Crouch MD; Aaron M. Miller MD; Courtney Kraus MD; Kammi B. Gunton MD; Michael X. Repka MD; Justin D. Marsh MD; Monte A. Del Monte MD; Jason H. Peragallo MD; David K. Wallace, MD, MPH; on behalf of the Pediatric Eye Disease Investigator Group (PEDIG)
Contact Author: 

A Prospective Observational Study of Adult Convergence Insufficiency
Ingryd Lorenzana, OD; Elizabeth L. Lazar MSPH; Susan A. Cotter, OD, MS; S. Ayse Erzurum, MD; Jonathan M. Holmes, MD; Raymond T. Kraker, MSPH; Eric R. Crouch, MD; Christina A. Esposito, OD; Erin C. Jenewein, OD, MS; Yi Pang, OD, PhD; Dashaini V. Retnasothie, OD, MS; David K. Wallace, MD, MPH; on behalf of the Pediatric Eye Disease Investigator Group (PEDIG)
Contact Author:
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**Pediatric Optometry & Vision Therapy/Neuro-Optometry Residency Program at the Center for Vision Development Optometry Inc.** Derek Tong, OD, FAAO, FCOVD, FNORA

**Prevalence of Non-Strabismic Binocular Vision Dysfunction Among Optometry Students in Bangalore, India**
Manish Dahal; Bikash Khatri
Contact Author:

**Fellowship Program of the Neuro-Optometric Rehabilitation Association (FNORA)**
Derek Tong, OD, FAAO, FCOVD, FNORA; Curtis Baxstrom, OD, FAAO, FCOVD, FNORA; Willard Bleything OD, MS, FAAO, FCOVD

**Effect of Optometric Visual Rehabilitation on a Cohort of Children with Reading-based Learning Difficulties**
Patrick Quaid, MCOptom, FCOVD, PhD; Daniel Cunningham OD, FCOVD
Contact Author:

**Pacific University Affiliated Vision Therapy, Rehabilitation and Pediatric Optometry Residencies: Pacific University Oregon**
Jill K. Schultz, OD, FCOVD, FAAO, FNORA; Dawn A. Dunford OD, FCOVD; Bruce Wojciechowski, OD, FCOVD; Curtis R. Baxstrom, OD, FCOVD, FAAO, FNORA; Graham B. Erickson, OD, FAAO, FCOVD
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