

## CURRICULUM VITAE

### **Rebecca Sands Braverman, M.D.**

Associate Professor

Department of Ophthalmology

University of Colorado School of Medicine/Children's Hospital Colorado

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Rebecca.SandsBraverman@CUAnschutz.edu

#### **PREDOCTORAL EDUCATION:**

Pre-medical: Albion College, Albion MI (1985-88) Biology

Medical: Wayne State University, Detroit MI (1989-93)

#### **POSTDOCTORAL TRAINING:**

Surgical Internship: Naval Medical Center, San Diego, CA (1993-94)

Ophthalmology Residency: University of Florida, Gainesville, FL (1999-02)

Pediatric Ophthalmology and Strabismus Fellowship: Emory University, Atlanta, GA (2002-03)

#### **SPECIALTY BOARD CERTIFICATION:**

2003 - Diplomate, American Board of Ophthalmology

#### **MEDICAL SCHOOL APPOINTMENTS:**

2003 -10 Assistant Professor of Ophthalmology, University of Colorado, Denver, CO

2010 - Associate Professor of Ophthalmology, University of Colorado, Denver, CO

#### **HOSPITAL STAFF MEMBERSHIPS:**

2003 - University of Colorado Hospital, Denver, CO

Children's Hospital Colorado, Aurora, CO

Denver Health Medical Center, Denver, CO

Veteran's Administration Hospital, Denver, CO

#### **HONORARY SOCIETIES:**

1988 Phi Beta Kappa

#### **HONORS AND AWARDS:**

2015 American Association for Pediatric Ophthalmology & Strabismus Honor Award

2016 American Academy of Ophthalmology Secretariat Award for Clinical Education

2018 American Academy of Ophthalmology Achievement Award

#### **PROFESSIONAL/ COMMUNITY SOCIETIES:**

American Academy of Ophthalmology

American Association for Pediatric Ophthalmology and Strabismus

Colorado Society of Eye Physicians and Surgeons:

Member 2012 - present

Board member 2016 - present

AAO State Society Councilor 2017 - present

President Elect 2019

Mountain West Regional Meeting Chair 2019

**NATIONAL COMMITTEES:**

- 2009 -13 American Association for Pediatric Ophthalmology & Strabismus Corporate Relations Committee
- 2009 -13 American Association for Pediatric Ophthalmology & Strabismus Legislative Committee
- 2012 - American Academy of Ophthalmology Online Education Committee
- 2014 -17 American Association for Pediatric Ophthalmology & Strabismus Professional Education Committee
- 2016 - American Academy of Ophthalmology Basic Clinical and Science Course Pediatric Ophthalmology and Strabismus Section Committee
- 2016 - American Academy of Ophthalmology Liaison Committee
- 2017 - American Association for Pediatric Ophthalmology & Strabismus Audit Committee
- 2019 AAO Council Mountain West Regional Meeting - Chair

**LICENSES:**

Colorado Medical License #DR-41891

**ADMINISTRATION/UNIVERSITY SERVICE:**

- 2003 - Department of Ophthalmology Clinical Committee
- 2003 - Pediatric Ophthalmology Fellowship Committee
- 2004 -12 Chair, Department of Ophthalmology Basic Science Course Committee
- 2008 -16 Member, Medical Board of Children's Hospital Colorado, Aurora, CO
- 2012 University of Colorado SOM Admissions Committee
- 2012 -18 University of Colorado SOM Faculty Senate
- 2014 -15 University of Colorado SOM Faculty Senate, Secretary
- 2015 -16 University of Colorado SOM Faculty Senate, President Elect
- 2014 -17 Anschutz Medical Campus Faculty Assembly SOM Representative
- 2015 -17 University of Colorado SOM CME and Professional Development Advisory Committee
- 2016 -19 University Physicians Incorporated Sites of Practice Committee
- 2016 University of Colorado SOM Liaison Committee on Medical Education Task Force
- 2016 -17 University of Colorado SOM Faculty Senate, President

**ADMINISTRATIVE APPOINTMENTS/DEPARTMENT OF OPHTHALMOLOGY:**

- 2003 - Clinical Faculty Promotions Committee, Department of Ophthalmology
- 2003 - 09 Residency Selection Committee, Department of Ophthalmology
- 2003 - Clinical Committee, Department of Ophthalmology
- 2003 - Quality Assurance Committee, Department of Ophthalmology
- 2004 - 12 Chair, Basic Science Course Committee, Department of Ophthalmology
- 2011 Interim Director, Pediatric Ophthalmology & Adult Strabismus Fellowship, Department of Ophthalmology, Aurora, CO
- 2012 - 18 Director, Retinopathy of Prematurity Service, Dept. of Ophthalmology
- 2013 - Clinic Medical Director, Pediatric Ophthalmology, Children's Hospital Colorado, Aurora, CO

## COMMUNITY SERVICE/VOLUNTEER ACTIVITIES

Volunteer - Medical Clinics for the 22<sup>nd</sup> annual SOFT (Support Organization for Trisomy 18, 13 and related disorders) International Conference, The Children's Hospital, Denver, CO, July 24, 2008. Performed complete eye examinations on children with Trisomy 13, 18 and related disorders.

Volunteer Preceptor – 2014, 2016 Colorado Health Professions Development Program for college students. Colorado Area Health Education Center Program Office, 13120 E. 19<sup>th</sup> Avenue, MS-F433, Aurora, CO 80045.

## AMERICAN ACADEMY OF OPHTHALMOLOGY (AAO) APPOINTMENTS

Academy Learning Plans; Editor.

Knights Templar Education Foundation Pediatric Ophthalmology Education Center Amblyopia Section Editor.

Council Member, American Academy of Ophthalmology. 2017-2020.

## AD HOC EDITORIAL SERVICES TO SCHOLARLY PUBLICATIONS

Ophthalmology (American Academy of Ophthalmology)

JAMA Ophthalmology

British Journal of Ophthalmology

Journal of the American Association for Pediatric Ophthalmology and Strabismus

## PUBLICATIONS:

1. Monshizadeh R, **Sands RE**, Lara WC, Driebe W. Isolated anterior uveitis as the initial sign of systemic Candidemia. *Arch Ophthalmol* 2003;121:137-138.
2. **Sands RE**, Drack A, Eisenbaum AM. "Eye" in Current Pediatric Diagnosis & Treatment 17<sup>th</sup> edition, McGraw Hill, Inc. Columbus, OH, 2004.
3. **Sands RE**. "Eye" in Current Pediatric Diagnosis & Treatment 18<sup>th</sup> edition, McGraw Hill, Inc. Columbus, OH, 2006.
4. Oliver SCN, Ciardella AP, **Sands RE**, Conway J, Yannuzzi L, Durairaj VD. Posterior scleral choristomas and trigeminal lipoma in the organoid nevus syndrome. *Retinal Cases & Brief Reports* Spring 2007;1(2):82-84.
5. **Braverman RS**. Diagnosis and treatment of refractive errors in the pediatric population. *Curr Opin in Ophthalmol* 2007;8:379-383.
6. Pediatric Eye Disease Investigator Group (site principal investigator). Primary Treatment of Nasolacrimal Duct Obstruction with Probing in Children Younger than 4 years. *Ophthalmology* 2008 Vol. 115, No. 3:577-84.
7. Petersen WC, Schlis KD, **Braverman RS**, Carlson I, Liang X, Wang M. Co-Investigator – Pseudohypopyon: Extramedullary relapse of acute myelogenous leukemia with poor prognosis. *Pediatr Blood Cancer (c)* 2008 Dec 17 (epub).
8. **Braverman RS**. "Eye" in Current Pediatric Diagnosis & Treatment 19<sup>th</sup> edition. McGraw Hill, Inc. Columbus, OH, 2009.
9. Athappily GK, **Braverman RS**. "Congenital alacrima in a patient with blepharophimosis syndrome. *Ophthalmic Genet*. 2009 Mar;30(1):37-9.
10. **Braverman RS**, Enzenauer RW. The socioeconomics of Retinopathy of Prematurity (ROP) in-hospital care. *Arch Ophthalmol*, 2010 Aug; 128(8):1055-8.
11. **Braverman RS**, Enzenauer RW. Incidental detection of bilateral corectopia by photo screening leads to the diagnosis of multiple sclerosis. A case report. *Binocular Vision and Strabismus Quarterly* 2010; 25(1):37-39.
12. **Braverman RS**, "Eye" in Current Pediatric Diagnosis & Treatment 20<sup>th</sup> edition. McGraw Hill, Inc. Columbus, OH, 2010.

13. Patel CC, Mandava N, Oliver SCN, **Braverman RS**, Quiroz-Mercado H, Olson JL. Treatment of Intractable Posterior Uveitis in Pediatric Patients with the Fluocinolone Acetonide Intravitreal Implant (Retisert) *Retina* 2011;10 (10): 1-6.
14. **Braverman RS**, "Eye" in Current Pediatric Diagnosis & Treatment 21<sup>st</sup> edition. McGraw Hill, Inc. Columbus, OH 2012.
15. **Braverman RS**, "Corneal Opacity" in Clinical Decision Support: PEDIATRICS. Decision Support in Medicine, LLC, Wilmington, DE 2013.
16. Patel CC, **Braverman RS**. "Retinopathy of Prematurity" in Clinical Decision Support: PEDIATRICS. Decision Support in Medicine, LLC, Wilmington, DE 2013.
17. **Braverman RS**, "Little Eye, Big Problem" Retinopathy of Prematurity (ROP), Online Academy Grand Rounds for the American Academy of Ophthalmology/The Ophthalmic News Education Network (ONE Network), March 2013.
18. **Braverman RS**, Enzenauer RW. Socioeconomics of retinopathy of prematurity care in the United States. *Am Orthopt J* 2013;63:92-6.
19. SooHoo JR, Davies BW, **Braverman RS**, Enzenauer RW, McCourt EA. Pediatric traumatic hyphema: a review of 138 consecutive cases. *J AAPOS*. 2013 Dec;17(6):565-7.
20. **Braverman RS**. "Eye" in Current Pediatric Diagnosis & Treatment 22<sup>nd</sup> edition. McGraw Hill, Inc. Columbus, OH 2014.
21. Miller AM, Chandler DL, Repka MX, Hoover DL, Lee KA, Melia M, Rychwalski PJ, Silbert DI, Pediatric Eye Disease Investigator Group (**Collaborator Braverman RS**), Beck RW, Crouch ER 3<sup>rd</sup>, Donahue S, Holmes JM, Quinn GE, Sala NA, Schloff S, Wallace DK, Foster NC, Frick KD, Golden RP, Lambert SR, Tien DR, Weakley DR Jr. Office probing for treatment of nasolacrimal duct obstruction in infants. *J AAPOS*. 2014 Feb;18(1):26-30.
22. Caruso Brown AE, Cohen MN, Tong S, **Braverman RS**, Rooney JF, Giller R, Levin MJ. Pharmacokinetics and Safety of Intravenous Cidofovir for Life-Threatening Viral Infections in Pediatric Hematopoietic Stem Cell Transplant Recipients. *Antimicrob Agents Chemother*. 2015 Mar 2. pii: AAC.04348-14.
23. Capitema C, Glazier R, McCourt E, Enzenauer R, **Braverman RS**. Corneal injuries from liquid detergent pods. *J AAPOS*. 2015 Feb;19(1):99-100.
24. Cao JH, Wagner BD, McCourt EA, Cerda A, Sillau S, Palestine A, Enzenauer RW, Mets-Halgrimson RB, Paciuc-Beja M, Gralla J, **Braverman RS**, Lynch A. The Colorado-retinopathy of prematurity model (CO-ROP): postnatal weight gain screening algorithm. *J AAPOS*. 2016 Feb;20(1):19-24
25. Cao JH, Wagner BD, Cerda A, McCourt EA, Palestine A, Enzenauer RW, **Braverman RS**, Wong RK, Tsui I, Gore C, Robbins SL, Puente MA Jr, Kauffman L, Kong L, Morrison DG, Lynch AM. Colorado retinopathy of prematurity model: a multi-institutional validation study. *J AAPOS*, 2016 Jun; 20(3):220-5.
26. **Braverman RS**. "Eye" in Current Pediatric Diagnosis & Treatment 23<sup>rd</sup> edition. McGraw Hill, Inc. Columbus, OH 2016.
27. **Braverman RS**, Bartz SK. "Ocular Manifestations of Endocrinologic Diseases" in The Eye in Pediatric Systemic Disease. Springer Nature, Puducherry, India 2017.
28. **Braverman RS**. Revision author. Ophthalmic Medical Assisting sixth edition. American Academy of Ophthalmology. San Francisco, CA 2017.
29. **Braverman RS**. Revision author. Basic Clinical and Science Course Section 6. Pediatric Ophthalmology and Strabismus 2017-18. American Academy of Ophthalmology. San Francisco, CA 2017.
30. McCourt EA, Wagner B, Jung J, Wymore E, Singh J, Enzenauer R, **Braverman R**, Lynch A. Validation of the CHOP model for detecting severe retinopathy of prematurity in

a cohort of Colorado infants. *Acta Ophthalmol.* 2017 Jun 27. [Epub 12 May 2017] PMID:28653816.

31. **Braverman RS.** Pediatric vision screening: The Colorado School nurse experience. *JNEP.* 2018;8(11):47-49.
32. Ahmad M, Patnaik J, Thevarajah T, Cathcart J, Jung J, Singh J, **Braverman RS**, Lynch A, McCourt E. Delayed resolution of retinopathy of prematurity. *JAAPOS* 2019 Apr;23(2):90.e1-90.e6. PMID: 30772472
33. Strong AD, Sturdy A, McCourt EA, MD, **Braverman RS**, Singh JK, Enzenauer RW, Jung JL. Clinical utility of electroretinograms for evaluating vigabatrin toxicity in children. *J Pediatr Ophthalmol Strabismus.* 2021;58(3):174-179. PMID: 34039156
34. Bhatia SK, Siegel L, **Braverman RS**, Enzenauer RW, Granet DB, Robbins SL. Socioeconomics of retinopathy of prematurity screening and treatment in the United States. *JAAPOS* 2021;25(4):227-9. PMID: 34271210

### PRESENTATIONS:

1. Management of combined rhegmatogenous and tractional retinal detachment in proliferative diabetic retinopathy. Retina Pearls for Practice conference, University of Florida, Gainesville, FL, May 2000.
2. Management of ocular emergencies for the primary care provider. Physician Assistant Program, University of Florida, Gainesville, FL, April 2001.
3. Ocular albinism. Department of Dermatology Grand Rounds, Emory University, Atlanta, GA, May 2002.
4. Diplopia after refractive surgery. 7<sup>th</sup> Annual Ophthalmology Symposium, Rocky Mountain Lions Eye Institute, University of Colorado, Denver, CO, September 20, 2003.
5. Organoid nevus syndrome. Ophthalmic Genetics Study Group, American Academy of Ophthalmology national meeting, Anaheim, CA, November 23, 2003.
6. Retinopathy of prematurity. Multidisciplinary Continuing Education offering. Neonatal Intensive Care Unit, University of Colorado, Denver, CO, February 13, 2004.
7. Retinopathy of prematurity. Multidisciplinary Continuing Education offering. Neonatal Intensive Care Unit, University of Colorado, Denver, CO, February 20, 2004.
8. Dorsal mid-brain syndrome after radiation treatment. Solitude Pediatric Ophthalmology meeting, Solitude, UT, February 28, 2004.
9. Organoid nevus syndrome. Solitude Pediatric Ophthalmology meeting, Solitude, UT, February 28, 2004.
10. Retinopathy of prematurity. Multidisciplinary Continuing Education offering. Neonatal Intensive Care Unit, University of Colorado. Denver, CO, April 7, 2004.
11. Coats disease versus retinoblastoma. Midwest Pediatric Ophthalmology Conference, Detroit, MI, April 17, 2004.
12. Pediatric retinal disorders. Fire on the Mountain meeting sponsored by Rocky Mountain Ophthalmic Personnel, Steamboat Springs, CO, July 24, 2004.
13. Update on ROP, Drack AV, **Sands RE.** Ophthalmology Grand Rounds, Rocky Mountain Lions Eye Institute, University of Colorado, Denver, CO, September 3, 2004.
14. Pediatric Trauma Update. 8<sup>th</sup> Annual Ophthalmology Symposium, Rocky Mountain Lions Eye Institute, University of Colorado, Denver, CO, September 10, 2004.
15. Update on Retinopathy of Prematurity (R.O.P.), Drack AV, **Sands RE.** Colorado Perinatal Care Council 159<sup>th</sup> Meeting, Sky Ridge Medical Center, Lone Tree, CO, November 19, 2004.
16. Microphthalmia. The Anchor Center for the Blind. Denver, CO, June 6, 2005.
17. Pediatric Retinal Disorders, **Sands RE.** AACO Southern Regional Orthoptic Meeting, Hilton University of Florida Conference Center, Gainesville, FL, June 10, 2005.

18. Aphakic Glaucoma and the Use of the Endoscopic Laser. 9<sup>th</sup> Annual Ophthalmology Symposium, Rocky Mountain Lions Eye Institute, University of Colorado, Denver, CO, September 23, 2005.
19. Aphakic Glaucoma and Treatment with Endoscopic Cyclophotocoagulation -The Children's Hospital in Denver experience. Rocky Mountain Ophthalmic Personnel (RMOP). Denver, CO, December 7, 2005.
20. Perioperative Management of the pediatric glaucoma patient. 9<sup>th</sup> Annual Perioperative Services Workshop. The Children's Hospital, Denver, CO, February 4, 2006.
21. **Sands RE** (workshop coordinator), Drack AV, Kushner BJ, Del Monte MA, Elliott A. Where to Leave It? American Association for Pediatric Ophthalmology and Strabismus, 32<sup>nd</sup> Annual National Meeting, Workshop presentation. Keystone, CO, March 18, 2006.
22. **Sands RE**. Pediatric Ophthalmology for the Child Health Associate/Physician Assistant Program. University of Colorado Health Science Center. Denver, CO, April 12, 2006.
23. The Adult Diplopic Patient. 10<sup>th</sup> Annual Ophthalmology Symposium, Rocky Mountain Lions Eye Institute, University of Colorado, Denver, CO, September 30, 2006.
24. **Braverman RS**, (workshop coordinator) Hutchinson A, Lambert S, Del Monte MA. Where to Leave It? American Association for Pediatric Ophthalmology and Strabismus, 33<sup>rd</sup> Annual National Meeting, Workshop presentation. Seattle WA, April 13, 2007.
25. Pediatric ophthalmic infectious disease update. Ophthalmology for the Primary Care Provider Conference. Denver, CO, April 21, 2007.
26. Pediatric Ophthalmology for the Child Health Associate/Physician Assistant Program. University of Colorado Health Science Center. Denver, CO, April 25, 2007.
27. Diagnosis and Treatment of Refractive Errors in Children. 11<sup>th</sup> Annual Ophthalmology Symposium, Rocky Mountain Lions Eye Institute, University of Colorado School of Medicine. Aurora, CO, October 19 – 20, 2007.
28. The Pediatric Ophthalmology Exam for the Primary Care Provider. 2<sup>nd</sup> Annual Ophthalmology for the Primary Care Provider Symposium. Denver, CO, May 10, 2008.
29. Pediatric Infectious Disease update. 2<sup>nd</sup> Annual Ophthalmology for the Primary Care Provider Symposium. Denver, CO, May 10, 2008.
30. The Adult Diplopic Patient. 12<sup>th</sup> Annual Ophthalmology Symposium, Rocky Mountain Lions Eye Institute, University of Colorado School of Medicine. Aurora, CO, September 20, 2008.
31. Hendrick, A, **Braverman RS**. Pediatric Anisocoria: A 3-year, single institution experience. 13<sup>th</sup> Annual Ophthalmology Resident, Fellow & Faculty Research Day, Rocky Mountain Lions Eye Institute, University of Colorado School of Medicine. Aurora, CO, June 13, 2009.
32. **Braverman RS**, Elias, E. Smith-Lemli-Opitz-Retinal Pigment Epithelial Abnormalities: Photoreceptor Function Detected by ERG, Smith-Lemli-Opitz Syndrome Scientific Symposium. Boston, MA, June 26, 2009.
33. What's New in Pediatric Ophthalmology. 13<sup>th</sup> Annual Ophthalmology Symposium, Rocky Mountain Lions Eye Institute, University of Colorado School of Medicine. Aurora, CO, September 26, 2009.
34. Adult Strabismus, Morning Report, Rocky Mountain Lions Eye Institute, University of Colorado School of Medicine. Aurora, CO, October 21, 2009.
35. Adult Strabismus and systemic disease instructional course, American Association of Certified Orthoptists National Meeting, San Francisco, CA, October 24, 2009.
36. Retinopathy of prematurity. Neonatal Fellow Lecture Series, University of Colorado School of Medicine. Aurora, CO, September 8, 2010.
37. Adult Strabismus. 14<sup>th</sup> Annual Ophthalmology Symposium, Rocky Mountain Lions Eye Institute, University of Colorado School of Medicine. Aurora, CO, October 2, 2010.

38. Treatment of Smith-Lemli-Opitz syndrome and retinal function determined by electroretinogram, Biannual National Smith-Lemli-Opitz Syndrome/RSH Foundation Family and Medical Conference, Aurora, CO, July 15, 2011.
39. Smith-Lemli-Opitz Syndrome and the Eye, Biannual National Smith-Lemli-Opitz Syndrome/RSH Foundation Family and Medical Conference, Aurora, CO, July 15, 2011.
40. Pediatric Corneal Opacities. 15<sup>th</sup> Annual Ophthalmology Symposium, Rocky Mountain Lions Eye Institute, University of Colorado School of Medicine. Aurora, CO, October 14, 2011.
41. Treatment of Smith-Lemli-Opitz Syndrome and Retina Function Determined By Electroretinography. Invited speaker at the 50<sup>th</sup> anniversary of the University of Florida, Department of Ophthalmology Scientific Meeting. Gainesville, FL, March 23, 2012.
42. Ophthalmic challenges of craniofacial disorders. Craniofacial conference, Children's Hospital Colorado. Aurora, CO, May 14, 2012.
43. Retinopathy of Prematurity-today and tomorrow. Invited speaker at the Neonatal Noon Conference, Children's Hospital Colorado. Aurora, CO, May 30, 2012.
44. Treatment of Smith-Lemli-Opitz syndrome and retina function determined by electroretinography. **Braverman RS**. Contributing authors: Naresh Mandava MD, Suhong Tong, Ellen R Elias MD. 16th Annual Ophthalmology Resident, Fellow, Faculty, and Alumni Research Day, University of Colorado School of Medicine. Aurora, CO, June 16, 2012.
45. Retinopathy of Prematurity-Today and Tomorrow. Neonatal Advanced Practice Conference, Children's Hospital Colorado. Aurora, CO, June 22, 2012.
46. Beyond Cholesterol: Antioxidant Treatment for patients with Smith-Lemli-Opitz Syndrome. Ellen R Elias MD, **Braverman RS**, Suhong Tong MS, American Society of Human Genetics (ASHG). San Francisco, CA, October 2012.
47. Amblyopia and Strabismus. **Braverman RS**, Ongoing Housestaff & Faculty Lecture Series, Children's Hospital Colorado. Aurora, CO, February 27, 2013.
48. Foster CS, Dacey M, Tehrani N, Ainsworth J, **Braverman RS**, Workshop coordinator. The new age of medical management of pediatric non-infectious uveitis. American Association of Pediatric Ophthalmology and Strabismus Annual Meeting. Boston, MA, April 5, 2013.
49. The New Age of Medical Management of Pediatric Non-infectious Uveitis. **Braverman RS**, Dacey M, 17<sup>th</sup> Annual Ophthalmology Symposium, University of Colorado School of Medicine. Aurora, CO, October 11, 2013.
50. Retinopathy of Prematurity. **Braverman RS**, Neonatal Fellow Lecture Series, University of Colorado School of Medicine. Aurora, CO, November 13, 2013.
51. Cao JH, McCourt EA, Enzenauer RW, Mets-Halgrimson R, **Braverman RS**, Paciuc-Beja M, Quiroz-Mercado H. Modeling Postnatal Weight Gain and ROP Screening. Oral presentation at American Pediatric Retina Society Annual Meeting. Cabo, Mexico, February 14, 2014.
52. Net Weight Gain from Birth to Time of First Retinopathy of Prematurity (ROP) Examination as Predictor for Developing ROP. Jennifer H. Cao, MD; Anne Lynch, MD, MPH; Brandie Wagner, PhD, MD, MBA; Stefan Sillau, MA; Emily A. McCourt, MD; Rebecca Mets-Halgrimson, MD; Miguel Paciuc-Beja, MD; Robert W. Enzenauer, MD, MBA; **Rebecca S. Braverman, MD**. Paper presentation at American Association for Pediatric Ophthalmology and Strabismus Annual Meeting. Palm Springs, CA, April 3, 2014.
53. Validation of WINROP for Detecting High-Risk Retinopathy of Prematurity in Colorado Preterm Infants. Jung J, Hsu Cao J, McCourt EA, Lynch A, **Braverman RS**, Enzenauer RW. 18<sup>th</sup> Annual Resident, Fellow, Faculty and Alumni Research Day, University of Colorado School of Medicine. Aurora, CO, June 14, 2014.

54. 650g Net Weight Gain from Birth to 1 Month of Age as a Screening Criteria for Retinopathy of Prematurity: the Colorado (CO-ROP) Model. Hsu Cao J, Wagoner B, McCourt EA, Sillau S, Enzenauer RW, Mets-Halgrimson R, Paciuc-Beja M, **Braverman RS**, Lynch A. 18<sup>th</sup> Annual Resident, Fellow, Faculty and Alumni Research Day, University of Colorado School of Medicine. Aurora, CO, June 14, 2014.
55. Pediatric Vision Screening. Aurora Public Schools Nurse Symposium. Aurora, CO, August 13, 2014.
56. Pediatric Vision Screening at Schools in Colorado. 18<sup>th</sup> Annual Ophthalmology Symposium, University of Colorado School of Medicine. Aurora, Co, September 13, 2014.
57. What's New and Important in Pediatric Ophthalmology and Strabismus. 2014 Instruction Course (presenter). American Academy of Ophthalmology Annual Meeting. Chicago, IL, October 20, 2014.
58. "Vision Screening". Colorado Association of School Nurses Fall Conference. Loveland, CO, November 9, 2014.
59. Validation of WINROP for Detecting High Grade Retinopathy of Prematurity in Colorado Preterm infants. Jennifer L. Jung, MD; Jennifer H. Cao, MD; Anne Lynch, MD, MPH; Ashlee Cerda, MPH; Brandie Wagner, PhD, MD, MBA; **Rebecca S. Braverman, MD**; Robert W. Enzenauer, MD, MBA; Jasleen K. Singh, MD; Emily A. McCourt, MD. Paper presentation at American Association for Pediatric Ophthalmology and Strabismus Annual Meeting. New Orleans, LA, March 26, 2015.
60. What's New and Important in Pediatric Ophthalmology and Strabismus Workshop (presenter). American Association for Pediatric Ophthalmology and Strabismus Annual Meeting. New Orleans, LA, March 27, 2015.
61. Pediatric Vision Screening at Schools in Colorado. Joint Regional American Association of Certified Orthoptists Meeting. Denver, CO, May 28, 2015.
62. Vision Screening: Tried and True or is it New? 31<sup>st</sup> Annual Community and School Health Pediatric Conference, Children's Hospital Colorado. Aurora, CO, June 12, 2015.
63. Validation of WINROP for Detecting High Grade Retinopathy of Prematurity in Colorado Preterm Infants. Jennifer L. Jung, MD; Jennifer H. Cao, MD; Emily A. McCourt, MD; Ashlee Cerda, MPH; Brandie D. Wagner, PhD; **Rebecca S. Braverman, MD**; Robert W. Enzenauer, MD, MPH; Jasleen K. Singh, MD; Anne Lynch, MD, MSPH. Presentation at the 19<sup>th</sup> Annual Ophthalmology Resident, Fellow, Faculty and Alumni Research Day, University of Colorado School of Medicine. Aurora, CO, June 20, 2015.
64. Elias ER, Cerda AM, Wagner BM, Lynch AM, **Braverman R**. Beyond Cholesterol: Antioxidant Treatment for Patients with SLOS. Presentation at SLOS Family Medical Conference. Portland, OR, July 31, 2015.
65. "I see you, do you see me?" Vision screening presentation at the Colorado Association of School Nurses Annual Conference. Loveland, CO, November 6, 2015.
66. Pediatric Neuro-imaging: what every ophthalmologist should know. Instruction Course Senior Instructor. American Academy of Ophthalmology Annual Meeting. Las Vegas, NV, November 15, 2015.
67. Validation of the CHOP Model for Detecting High-Grade Retinopathy of Prematurity in a Cohort of Colorado Infants. McCourt EA, Lynch A, Wagner, B Cerda, A, Jung, J, Singh, J, Enzenauer R, **Braverman RS**. American Academy of Pediatric Ophthalmology & Adult Strabismus Annual Meeting. Calgary, Alberta, April 6-10, 2016.
68. Amblyopia – Today and Tomorrow. Invited speaker at the University of Florida College of Medicine, Department of Ophthalmology Pediatric Pearls for Practice Conference. Gainesville, FL, June 3, 2016.
69. Pediatric Neuro-imaging – What You Need to Know. Invited speaker at the



- University of Florida College of Medicine, Department of Ophthalmology Pediatric Pearls for Practice Conference. Gainesville, FL, June 3, 2016.
70. Strabismus. Invited speaker at the University of Florida College of Medicine, Department of Ophthalmology Pediatric Pearls for Practice Conference. Gainesville, FL, June 3, 2016.
  71. 32<sup>nd</sup> Annual Community and School Health Pediatric Conference. Vision Screening Round Table Discussion (Leader). Children's Hospital Colorado. Aurora, CO, June 10, 2016.
  72. Retinopathy of Prematurity. 20<sup>th</sup> Annual Ophthalmology Symposium, University of Colorado School of Medicine. Aurora, CO, September 23, 2016.
  73. What's New and Important in Pediatric Ophthalmology and Strabismus for 2016 Instruction Course. Co-Instructor. American Academy of Ophthalmology Annual Meeting. Chicago, IL, October 17, 2016.
  74. Pediatric Neuroimaging: What Every Ophthalmologist Should Know. Senior Instructor. American Academy of Ophthalmology Annual Meeting. Chicago, IL, October 17, 2016.
  75. Co-Moderator, American Academy of Ophthalmology Webinar "Pearls and Pitfalls in Pediatric Neuro-Ophthalmology" November 10, 2016.
  76. Socioeconomics Committee Contracting and Benchmarking Workshop: Developing Contracts and Safety Nets for Retinopathy of Prematurity Care. Co-Instructor. American Association for Pediatric Ophthalmology and Strabismus Annual Meeting. Nashville, TN, April 5, 2017.
  77. Advocacy Update. 21<sup>st</sup> Annual Ophthalmology Symposium, University of Colorado School of Medicine. Aurora, CO, September 16, 2017.
  78. Colorado Strategic Planning. American Academy of Ophthalmology Spring Council Meeting. Washington, DC, April 21, 2018.
  79. Retinopathy of Prematurity: Little Eyes, Big Problems. 39<sup>th</sup> Annual Perinatal Clinical Update, Children's Hospital Colorado, Aurora, CO, May 11, 2018.

#### **BASIC SCIENCE COURSES:**

1. Embryology: Ocular development and congenital anomalies. Basic and Clinical Science Course, Department of Ophthalmology, University of Colorado, Denver, CO, November 1, 2004
2. Strabismus. Basic and Clinical Science Course, Department of Ophthalmology, University of Colorado, Denver, CO, February 6, 2006.
3. Pediatric development of the eye, congenital anomalies, eyelid disorders and infectious/allergic ocular diseases. University of Colorado, Denver, CO, February 27, 2006.
4. Vitreous, retinal and optic nerve abnormalities in children. University of Colorado, Denver, CO, March 27, 2006.
5. Pediatric Ophthalmology Review to the Residents. Department of Ophthalmology and Visual Sciences, University of Nebraska, Omaha, NE, April 14, 2008.
6. Horizontal, Vertical, and Pattern Strabismus. University of Colorado Denver, Aurora, CO, September 15, 2008.
7. Esodeviations, Exodeviations and Pattern Strabismus, University of Colorado Denver, Aurora, CO, December 1, 2008.
8. Pediatric Cataracts and Retina and Optic Nerve Disorders in Children, University of Colorado Denver, Aurora, CO, February 9, 2009.
9. Pediatric Ophthalmology, University of Colorado Denver, Aurora, CO, April 6, 2009.

10. Direct Ophthalmology Course (practicum preceptor), 35<sup>th</sup> National Primary Care Nurse Practitioner Symposium, University of Colorado Denver College of Nursing, Copper Mountain, CO, July 17, 2010.
11. Pediatric Ophthalmology; Ocular Growth, Congenital Anomalies, Eyelid Disorders. University of Colorado Denver, Aurora, CO, March 4, 2011.
12. Pediatric Ophthalmology; Allergic Conjunctivitis and Ocular Infections, Lens Disorders, Vitreous/Retina/Optic Disc Disorders. University of Colorado Denver, Aurora, CO, March 18, 2011.
13. Strabismus and Pediatric Ophthalmology OKAP Review. University of Colorado Denver, Aurora, CO, April 15, 2011.
14. Anterior segment dysgenesis, iris and optic disc abnormalities. University of Colorado Denver, Aurora, CO, November 30, 2012.
15. Vitreous and retina disorders. University of Colorado Denver, Aurora, CO, December 7, 2012.
16. Pediatric Retina. University of Colorado Denver, Aurora, CO, March 7, 2014.
17. Pediatric Retina. University of Colorado Denver, Aurora, CO, October 16, 2015.
18. Pediatric Retina, University of Colorado Denver, Aurora, CO, September 2, 2016.
19. Pediatric Retina, University of Colorado Denver, Aurora, CO, May 18, 2018.
20. Anterior and posterior segment disease. University of Colorado Denver, Aurora, CO, November 16, 2018.

#### **ABSTRACTS/POSTERS:**

1. IOP and central corneal thickness in premature infants. **Sands RE**, Levine L. University of Florida, Gainesville, FL. Poster presented at AAPOS meeting, Waikoloa, HI, March 23-27, 2003.
2. Early diagnosis of organoid nevus syndrome, a rare phakomatosis: Implications for surgical management. Oliver SCN, Ciardella AP, Durairaj VD, **Sands RE**. Rocky Mountain Lions Eye Institute, University of Colorado, and Denver Health Medical Center, Denver, CO. Poster presented at ARVO meeting, Ft. Lauderdale, FL (3570/B31), April 25-30, 2004.
3. Retinopathy of Prematurity Rate of Regression and Complications Follow Laser Treatment. Carlson I, Drack A, **Sands RE**, Mandava N, Olson J, O'Donnell C. The Children's Hospital, Denver, CO. Poster presented at 2005 Annual Spring Pediatrics Poster Session, Denver, CO. Award: First place, Category: First year Fellow, May 20, 2005.
4. Thomas SA, Drack AV, **Sands RE**, Curtis TH, Yoon P, Friedman N, Chan K. Clinical and histopathologic Features of Congenital Dacryocystoceles Associated with Intranasal Cysts. American Association for Pediatric Ophthalmology and Strabismus, 32<sup>nd</sup> Annual Meeting, Poster presentation. Keystone, CO, March 15-18, 2006.
5. Carlson IA, Drack AV, **Sands RE**, Mandava N, Olson J, O'Donnell C. ROP: Rate of Regression and Complications Following Laser Treatment, American Association for Pediatric Ophthalmology and Strabismus, 32<sup>nd</sup> Annual Meeting. Poster presentation. Keystone, CO, March 15-18, 2006.
6. Drack AV, **Sands RE**, Smith C, Curtis TH, Moore C, O'Donnell C. How Often Are Our Patients' Spectacle Lenses Dispensed as Prescribed? American Association for Pediatric Ophthalmology and Strabismus, 32<sup>nd</sup> Annual Meeting. Poster presentation. Keystone, CO, March 15-18, 2006.
7. **Sands RE**. A Case Series of Children with Colpocephaly and Associated Central Nervous System and Ophthalmic Abnormalities. The Children's Hospital Annual Spring Pediatrics Poster Session. Denver, CO, May 19, 2006.

8. Curtis TH, Drack AV, **Braverman RS**. Pediatric Ophthalmology Inpatient Consultations. American Association for Pediatric Ophthalmology and Strabismus 33<sup>rd</sup> Annual Meeting. Seattle, WA, April 11, 2007.
9. **Braverman RS**, Curtis TH, Drack AV, Bateman JB, Elias Ellen. The Children's Hospital Annual Spring Pediatrics Poster Session. Denver, CO, May 15, 2009.
10. Elias ER, **Braverman RS**, Tong S. A Novel Treatment for Retinal Dysfunction in Patients with Smith-Lemli-Opitz Syndrome (SLOS). Annual Clinical Genetics Meeting. Albuquerque, NM, March 25-27, 2010.
11. Hendrick AM, Curtis T, Drack A, **Braverman RS**. Pediatric Anisocoria; A 3 year, Single Institution Experience. The Association for Research in Vision and Ophthalmology Annual Meeting Annual Meeting. Ft. Lauderdale, FL, May 6, 2010.
12. Patel CC, Mandava N, Quiroz-Mercado H, Oliver SC, **Braverman RS**, Olson J. Treatment of Intractable Posterior Uveitis in Pediatric Patients with the Fluocinolone Acetonide Intravitreal Implant (Retisert). The Association for Research in Vision and Ophthalmology Annual Meeting. Ft. Lauderdale, FL, May 6, 2010.
13. Elias ER, **Braverman RS**, Tong S. A Novel Treatment for Retinal Dysfunction in Patients with Smith-Lemli-Opitz Syndrome (SLOS). 2010 Annual Spring Pediatrics Poster Session, The Children's Hospital. Aurora, CO, May 14, 2010.
14. Hendrick AM, Curtis T, Drack A, **Braverman RS**. Pediatric Anisocoria; A 3 year, Single Institution Experience. 2010 Annual Spring Pediatrics Poster Session, The Children's Hospital. Aurora, CO, May 14, 2010.
15. Patel CC, Mandava N, Quiroz-Mercado H, Oliver SC, **Braverman RS**, Olson J. Treatment of Intractable Posterior Uveitis in Pediatric Patients with the Fluocinolone Acetonide Intravitreal Implant (Retisert). 2010 Annual Spring Pediatrics Poster Session, The Children's Hospital. Aurora, CO, May 14, 2010.
16. **Braverman RS**, Enzenauer RW. Socioeconomics of retinopathy of prematurity care in the United States. American Academy of Ophthalmology Annual Meeting, Orlando Convention Center. Orlando, FL, October 24-25, 2011.
17. **Braverman RS**, Tong S, Mandava N, Elias ER. Treatment of Smith-Lemli-Opitz Syndrome and Retina Function Determined by Electroretinography. Best in Show Award, American Association of Pediatric Ophthalmology and Strabismus Annual Meeting. San Antonio, TX, March 26, 2012.
18. SooHoo J, McCourt E, **Braverman RS**, Enzenauer RW. Secondary Glaucoma and Pediatric Traumatic Hyphema. The Association for Research in Vision and Ophthalmology Annual Meeting. Fort Lauderdale, FL, May 10, 2012.
19. SooHoo J, McCourt E, **Braverman RS**, Enzenauer RW. Secondary Glaucoma and Pediatric Traumatic Hyphema. The Spring Poster Session, Children's Hospital Colorado. Aurora, CO, May 18, 2012.
20. McCourt E, SooHoo J, Bratton E, Mets R, **Braverman RS**, Enzenauer RW. Mechanisms and Outcomes of Traumatic Hyphema in Children. 16th Annual Ophthalmology Resident, Fellow, Faculty, and Alumni Research Day, University of Colorado School of Medicine. Aurora, CO, June 16, 2012.
21. Jung J, Laing A, McCourt E, **Braverman RS**. Analysis of Electroretinograms Performed from 2009 to 2011 at Children's Hospital. 16th Annual Ophthalmology Resident, Fellow, Faculty, and Alumni Research Day, University of Colorado School of Medicine. Aurora, CO, June 16, 2012.
22. Laing A, Jung J, McCourt E, **Braverman RS**. Electroretinograms Ordered for Vigabatrin Use at the Children's Hospital Colorado. 16th Annual Ophthalmology Resident, Fellow, Faculty, and Alumni Research Day, University of Colorado School of Medicine. Aurora, CO, June 16, 2012.

23. McCourt EA, **Braverman RS**, Davies BW. Traumatic hyphema in children: a review of 137 consecutive cases. American Association of Pediatric Ophthalmology and Strabismus Annual Meeting. Boston, MA, April 4, 2013.
24. Hsu JL, Sillau S, **Braverman RS**, Enzenauer RE. Incidence of retinopathy of prematurity (ROP) in infants greater than 31 weeks gestational age undergoing screening examinations for ROP. American Association of Pediatric Ophthalmology and Strabismus Annual Meeting. Boston, MA, April 4, 2013.
25. Hsu JL, Enzenauer RW, **Braverman RS**. Net Weight Gain from Birth to Time of First Retinopathy of Prematurity (ROP) Examination as Sole Inclusion Criteria for Screening Examinations for ROP. Poster presentation at Association for Research in Vision and Ophthalmology Annual Meeting. Seattle, WA, May 5, 2013. (129/D0149)
26. Jung JL, Laing AE, McCourt EA, **Braverman RS**. Analysis of electroretinograms performed from 2009 to 2011 at Children's Hospital Colorado. Poster presentation at Association for Research in Vision and Ophthalmology Annual Meeting. Seattle, WA, May 8, 2013. (470/B0077)
27. Laing AE, McCourt EA, **Braverman RS**. Electroretinograms Ordered for Vigabatrin Use at the Children's Hospital Colorado. Poster presentation at Association for Research in Vision and Ophthalmology Annual Meeting. Seattle, WA, May 8, 2013. (470/B0061)
28. McCourt EA, **Braverman RS**, Davies BW. Traumatic hyphema in children: a review of 137 consecutive cases. Spring 2013 Pediatric Research Poster Session, Children's Hospital Colorado. Aurora, CO, May 17, 2013.
29. Hsu JL, Enzenauer RW, **Braverman RS**. Net Weight Gain from Birth to Time of First Retinopathy of Prematurity (ROP) Examination as Sole Inclusion Criteria for Screening Examinations for ROP. Spring 2013 Pediatric Research Poster Session, Children's Hospital Colorado. Aurora, CO, May 17, 2013.
30. Hsu JL, Sillau S, **Braverman RS**, Enzenauer RW. Incidence of retinopathy of prematurity (ROP) in infants greater than 31 weeks gestational age undergoing screening examinations for ROP. Spring 2013 Pediatric Research Poster Session, Children's Hospital Colorado. Aurora, CO, May 17, 2013.
31. Jung JL, Laing AE, McCourt EA, **Braverman RS**. Analysis of electroretinograms performed from 2009 to 2011 at Children's Hospital Colorado, Spring 2013 Pediatric Research Poster Session, Children's Hospital Colorado. Aurora, CO, May 17, 2013.
32. Laing AE, McCourt EA, **Braverman RS**. Electroretinograms Ordered for Vigabatrin Use at the Children's Hospital Colorado. Spring 2013 Pediatric Research Poster Session, Children's Hospital Colorado. Aurora, CO, May 17, 2013.
33. Glazier RU, McCourt EA, Enzenauer RW, Mets-Halgrimson R, **Braverman RS**. Detergent capsule ocular injuries; an emerging risk in the United States. Poster presentation at Association for Research in Vision and Ophthalmology Annual Meeting. Orlando, FL, May 8, 2014. 5485/A0059.
34. **Braverman RS**. Pediatric Vision Screening: The Colorado School Nurse Experience. Poster presentation at American Association for Pediatric Ophthalmology and Strabismus Annual Meeting. New Orleans, LA, March 28, 2015.
35. Singh J, Cerda A, Wagner BD, McCourt EA, Cao J, Jung J, **Braverman RS**, Enzenauer R, Lynch A. Risk of Retinopathy of Prematurity in Singleton Versus Twins in a Colorado Cohort. Poster presented at the Association for Research in Vision and Ophthalmology Annual Meeting. Denver, CO, May 2-6, 2015.
36. McCourt EA, Kim YC, Cerda A, Singh J, Wagner BD, Jung J, Cao J, **Braverman RS**, Enzenauer R, Lynch A. Relationship Between Maternal Race/Ethnicity and Retinopathy of Prematurity in a Colorado Cohort. Poster presented at the Association for Research in Vision and Ophthalmology Annual Meeting. Denver, CO, May 2-6, 2015.

37. Singh J, Cerda A, Wagner BD, McCourt EA, Cao J, Jung J, **Braverman RS**, Enzenauer R, Lynch A. Risk of Retinopathy of Prematurity in Singleton Versus Twins in a Colorado Cohort. Poster presented at the American Association for Pediatric Ophthalmology and Strabismus Annual Meeting. Vancouver, Calgary, April 6-10, 2016.
38. **Braverman RS**, McCourt EA, Jung JL, Singh J, Wagner BD, Cerda AM, Enzenauer RW, Lynch AM. High rate of strabismus in a cohort of infants screened for ROP. Electronic Poster presented at the American Academy of Pediatric Ophthalmology and Adult Strabismus Annual Meeting. Nashville, TN, April 2-6, 2017.
39. Imbornoni LM, Oliver S, Jung J, Enzenauer RW, Singh JK, **Braverman RS**, Foreman N, Hemenway M, McCourt, EA. Incidence of Mitogen-Activated Protein Kinase Inhibitor-Associated Retinopathy in Pediatric Patients. American Association for Pediatric Ophthalmology and Strabismus Annual Meeting. San Diego, CA, March 27, 2019.

#### **RESEARCH:**

1. Principal Investigator – Pediatric Eye Disease Investigator Group. A prospective study of the primary surgical treatment of nasolacrimal duct obstruction in children less than four years old.
2. Sub-investigator – A Randomized, Double-Blind, Placebo-Controlled, Dose Ranging, Parallel Group Study of Oral Sildenafil in the Treatment of Children, Aged 1-17 Years, with Pulmonary Arterial Hypertension.
3. Sub-investigator – A Multicenter, Long-Term Extension Study to Assess the Safety of Oral Sildenafil in the Treatment of Subjects Who Have Completed A1481131.
4. Co-Investigator – Cholesterol Treatment in Patients with the Smith-Lemli-Opitz Syndrome (SLOS).
5. Sub-Investigator – Biliary Atresia Clinical Research Consortium (BARC), A Randomized, Double Blinded, Placebo-Controlled Trial of Corticosteroid Therapy Following Portoenterostomy in Infants with Biliary Atresia.
6. Co-Investigator – A Phase I/II Open Label Study of the Safety and Pharmacokinetics of a Single Infusion of Vistide® (cidofovir injection) in Children and Adolescents with Life Threatening Viral Infection Following Hematopoietic Stem Cell Transplantation.
7. Sub-investigator – A Multiple Ascending Dose Study of Tadalafil to Assess the Pharmacokinetics and Safety in a Pediatric Population with Pulmonary Arterial Hypertension.
8. Designated Ophthalmologist – A Phase 3, 2-Part, Open-Label Study to Evaluate the Safety, Pharmacokinetics, and Pharmacodynamics of Ivacaftor in Subjects With Cystic Fibrosis Who are 2 Through 5 Years of Age and Have a CFTR Gatng Mutation.
9. Retinopathy of Prematurity Study Group. Department of Ophthalmology. University of Colorado School of Medicine.