

Eastern Virginia Medical School Curriculum Vitae

Eric R. Crouch, M.D.
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Education

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| Fellowship, Pediatric Ophthalmology and Adult Strabismus Children's Hospital National Medical Center, Washington, DC | 07/2003 - 06/2004 |
| Residency, Ophthalmology, Geisinger Medical Center, Danville, PA | 07/2000 - 06/2003 |
| Internship, Greenville Hospital System, Greenville, SC | 07/1999 - 06/2000 |
| M.D., Eastern Virginia Medical School, Norfolk, VA | 08/1995 - 05/1999 |
| B.S., University of Richmond, Richmond, VA | 08/1991 - 05/1995 |

Current Administrative Position

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| Chief of Ophthalmology, Children's Hospital of the King's Daughters, Norfolk, VA | 07/2013 - present |
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Professional Experience

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| Subspecialty Group Practice, Virginia Pediatric Eye Center | 08/2004 - present |
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Academic Appointments

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| Professor Department of Ophthalmology Eastern Virginia Medical School, Norfolk, VA | 2017 - present |
| Professor Department of Pediatrics Eastern Virginia Medical School, Norfolk, VA | 2017 - present |
| Associate Professor Department of Ophthalmology Eastern Virginia Medical School, Norfolk, VA | 2010 - 2017 |
| Associate Professor Department of Pediatrics Eastern Virginia Medical School, Norfolk, VA | 2010 - 2017 |
| Assistant Professor Department of Pediatrics Eastern Virginia Medical School, Norfolk, VA | 2006 - 2010 |
| Assistant Professor Department of Ophthalmology Eastern Virginia Medical School, Norfolk, VA | 2004 - 2010 |

Other Positions and Employment

N/A

Certification and Licensure

Diplomate, American Board of Ophthalmology 2005, 2015
State Medical License: Virginia (active), South Carolina (inactive), Pennsylvania (inactive)

Professional Memberships and Activities

Fellow, American Academy of Ophthalmology 2005 - present
Fellow, American Academy of Pediatrics 2008 - present
Fellow, American College of Surgeons 2010 - present

Virginia Society of Eye Physicians and Surgeons 2006 -present
American Association for Pediatric Ophthalmology and Strabismus (AAPOS) 2004-present
Costenbader Society 2004-present
Tidewater Pediatric Society 2004-present
American Academy of Ophthalmology 2000-present
Pennsylvania Academy of Ophthalmology 200-2003

Honors and Awards

Pediatric Eye Disease Investigator Group (PEDIG), a collaborative network dedicated to facilitating multicenter clinical research in strabismus, amblyopia and other eye disorders that affect children. The network, which was formed in 1997, is funded by the National Eye Institute (NEI). The NEI is a part of the National Institutes of Health. There are currently over 100 participating sites (offices) with over 200 pediatric ophthalmologists and pediatric optometrists in the United States, Canada and the United Kingdom participating in the network.

Vice Chair Service Award 2016
Site of the Month Award 07/2014
Nasolacrimal Duct Steering Committee Appreciation Award 2008
Recruitment Award 2009-2012
Site of the Month Award 2009

EVMS Ophthalmology Residency Program Attending Physician of the Year Award 2013
Best in Show Presentation Award, AAPOS 2008
Geisinger Medical Center Resident Day Research Award 2003
Sigma XI Outstanding Graduate Research Award 1998
EVMS Research Fellow 1996, 1997
EVMS Research Day Presentation Award 1995, 1996
Phi Beta Kappa, University of Richmond 1995
Presidential Academic Scholar, University of Richmond 1991-1995
Biology Research Honors Program, University of Richmond 1994, 1995
Beta Beta Beta Biology Honors Society, University of Richmond 1992
Golden Key Honors Society, University of Richmond 1992
Dean's List (six semesters), University of Richmond 1992-1995

Committee Assignments and Administrative Services

National
PEDIG:
Retinopathy of Prematurity (ROP3) Steering Committee 2016-present
Study of Adult Strabismus (SAS1) Protocol Chair 2015-present
Executive Committee ad hoc member 2016
Network Vice Chair 2014-2015
Operations Committee 2014-2015
Quality Control Committee 2014-2015

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| Executive Committee | 2014-2015, 2010-2012 |
| Amblyopia Treatment Study (ATS10) Writing Committee | 2008 |
| Nasolacrimal Duct Studies Writing Committee | 2006-2007 |
| Nasolacrimal Duct Studies Steering Committee | 2006-2007 |
| Regional N/A | |
| EVMS | |
| Ophthalmology Education Committee | 2005-present |
| Ophthalmology Resident Review Committee | 2005-present |
| Ophthalmology Residency Curriculum Committee | 2005-present |
| Ophthalmology Residency Curriculum Coordinator | 2005-2009 |
| CHKD | |
| NICU Retinopathy of Prematurity Clinical Director | 2011-present |
| Chief of Ophthalmology | 2013-present |
| Peri-Operative Services Committee | 2014-present |
| Surgical Authorities Committee | 2006-present |
| SNGH | |
| Information Technology Committee | 2007-2008 |
| Medical Executive Committee | 2007-2008 |
| Chief of Ophthalmology | 2007-2008 |

Educational Activities

See attached Portfolio

Clinical Activities

See attached Portfolio

Grants and Contract Awards

- List under sections of pending, current, and past in reverse chronological order.
 - Include the title of grant.
 - Identify the granting agency and grant number.
 - Note award total, demarcating total direct and indirect costs.
 - State your role, also identifying the PI if you are not the PI, and percent of effort.
 - If you include contracts use two subheadings, separating contracts from grant awards.
 - If voluminous, truncate this listing to the most recent decade (or past five years) and note the limitation in the heading.
 - Consider using a table, as it provides a concise, visual depiction of this material.
- Include the dates of each award

Editorial Board Appointments or Serving on Boards

N/A

Manuscript Reviewer

Simple Loop Muscle Unions Compared to Partial Tendon Transpositions in Patients with Sixth Cranial Nerve Palsy; *Ophthalmology*; reviewed July 28, 2014.

Publications

Peer-Reviewed

1. Crouch, ER, Jr.; **Crouch, ER, III**: Vision Screening. American Academy of Pediatrics and American Academy of Ophthalmology Guidelines, 1992.
2. Crouch, ER, Jr; Pressman, SH; **Crouch, ER, III**: Posterior Chamber Intraocular Lenses: Long-term Results in Pediatric Cataract Patients. *J. Ped. Ophth. Strab.* 32: 210, 1995.
3. Crouch, ER, Jr., Pressman, SH, **Crouch, ER, III**: Posterior Chamber Intraocular Lenses: Long-Term Results in Pediatric Cataract Patients. Proceedings of the Joint Congress International Strabismological Association and American Association for Pediatric Ophthalmology and Strabismus. In Lennerstrand, Gunner, Ed.: Update on Strabismus and Pediatric Ophthalmology; Ann Arbor, CRC Press, 515-518, 1995.
4. Crouch, ER, Jr, Williams, PB, **Crouch, ER, III**, Chames, M, and Gray, MK: Topical Aminocaproic Acid in the Treatment of Traumatic Hyphema. *Archives of Ophthalmology.* 115:1106-1112, 1997.
5. **Crouch, ER, III**, Crouch, ER, Jr., Williams, PB: Aminocaproic Acid and Tranexamic Acid Increase the Rate of Acute Corneal Reepithelialization in Sprague Dawley Rats. *Journal of Ocular Pharmacology and Therapeutics.* 14:109-118, 1998.
6. Williams, PB, Crouch, ER, Jr, **Crouch, ER, III**, Mazaheri, M: Topical Aminocaproic Acid Facilitates Reepithelialization of Persistent Epithelial Defects. *Current Eye Research.* 18(2):150-157, 1999.
7. ER Crouch, Jr., **ER Crouch, III**: Management of Traumatic Hyphema: Therapeutic Options. *Journal of Pediatric Ophthalmology and Strabismus.* 36(5):238-250, 1999.
8. **ER Crouch, III**, ER Crouch, Jr., SH Pressman: Prospective Analysis of Pediatric Pseudophakia: Myopic Shift and Postoperative Outcomes. *Journal of AAPOS.* 2002, 6:277-282.
9. Crouch JR, Merriam JC, Crouch ER. Finite element model of cornea deformation. *Med Image Comput Comput Assist Interv Int Conf Med Image. Comput Comput Assist Interv.* 2005;8(Pt 2):591-8.
10. ER. Crouch. Use of botulinum in strabismus. *Current Opinion in Ophthalmology.* October 2006, 17(5): p435-440.
11. Mehryar Taban, Jonathan Sears, **Eric Crouch**, Andrew Schachat, Elias Traboulsi. Acute Idiopathic Frosted Branch Angiitis. *Journal of AAPOS.* June, 11(3):286-287, 2007.
12. Pediatric Eye Disease Investigator Group, Writing Committee: M Repka, D Chandler, R Beck, **E Crouch**, S Donahue, J Holmes, et al. Primary Treatment of Nasolacrimal Duct Obstruction with Probing in Children Younger than 4 Years. *Ophthalmology.* 115:577-84, 2008.
13. Miller MM, Chang T, Keating R, **Crouch E**, Sable C. Blood flow velocities are reduced in the optic nerve of children with elevated intracranial pressure. *J Child Neurol.* 2009 Jan; 24(1):30-5.
14. Pediatric Eye Disease Investigator Group, Writing Committee: M Repka, G Quinn, R Beck, **E Crouch**, J Holmes, et al. A Randomized Trial of Full-time Bangerter Filters versus Part-time Daily Patching for the Treatment of Moderate Amblyopia in Children (Amblyopia Treatment Study 10). *Ophthalmology* 2010; 117(5):998-1004.
15. Pediatric Eye Disease Investigator Group, Writing Committee: Cotter SA, Foster NC, Holmes JM, Melia BM, Wallace DK, Repka MX, Tamkins SM, Kraker RT, Beck RW, Hoover DL, **Crouch ER III**, Miller AM, Morse CL, Suh DW. ATIS13 Spectacles. Optical Treatment of Strabismic and Combined Strabismic-Anisometropic Amblyopia, *Ophthalmology* 2011;119(1):150-8. Epub Sep 29.
16. Pediatric Eye Disease Investigator Group, Writing Committee: Miller AM, Chandler DL, Repka MX, Hoover DL, Lee KA, Melia M, Rychwalski PJ, Silbert DI, Beck RW, **Crouch ER III**, 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. NLD3. Office probing for treatment of nasolacrimal duct obstruction in infants. J AAPOS. Feb 2014;18(1):26-30.

17. Pediatric Eye Disease Investigator Group, Writing Committee: DB Petersen, DL Chandler, MX Repka, RW Beck, **ER Crouch III**, KA Lee, M Melia, DG Morrison, FH Orge, BH Ticho. NLD3. Resolution of Congenital Nasolacrimal Duct Obstruction with Nonsurgical Management, Arch Ophthalmol. 2012;130(6):730-734

18. Pediatric Eye Disease Investigator Group, Writing Committee: Wallace DK, Lazar EL, **Crouch ER III**, Hoover DL, Kraker RT, Tamkins SM. ATS15, Time course and predictors of amblyopia improvement with 2 hours of daily patching, JAMA Ophthalmol. May 2015;133(5):606-609.

Accepted for Publication

1. Nash, D. **Crouch, ER**, et al. Comparison of EX-PRESS shunt and trabeculectomy with mitomycin-C in congenital and juvenile glaucoma, manuscript accepted, publication pending, Journal of Glaucoma, 2016.
2. Writing Committee, IXT2, Development of Constant Exotropia Over 3-Years in Children 12 to 35 Months Old with Untreated Intermittent Exotropia, accepted American Academy Optometry Annual Meeting, 2016.
3. Writing Committee, ATS18 Younger Cohort, A Randomized Trial of A Binocular iPad Game Versus Part-time Patching In Children 5 to 12 Years Of Age With Amblyopia. JAMA Ophthalmology, publication accepted, publication pending, 2016.

Book Chapters

1. ER Crouch, Jr., **ER Crouch, III**: Trauma: Ruptures and Bleeding. In: Tasman W. Jaeger EA, eds. Duane's Clinical Ophthalmology on CD-ROM, Rev Ed. Vol 4, Philadelphia, Pa: JP Lippincott; 2002: Chapter 61:1-20.
2. ER Crouch, Jr., **ER Crouch, III**, T Grant. Ophthalmology, Textbook of Family Practice (Rakel), 7th Edition, Chapter 41, 2006.
3. Earl Crouch, **Eric Crouch**. Hyphema (Chapter 47). Surgical & Medical Management of Pediatric Ophthalmology, Jaybee Bros, Volume: 1, 2007.
4. **ER Crouch**. Ocular Genetics in Pediatric Ophthalmology (Chapter 3). Surgical & Medical Management of Pediatric Ophthalmology, Jaybee Bros, Volume: 1, 2007.
5. **ER Crouch, III**, ER Crouch, Jr. Vision Screening (Chapter 5). Surgical & Medical Management of Pediatric Ophthalmology, Jaybee Bros, Volume: 1, 2007.
6. **ER Crouch**. Hyphema. Clinical Diagnosis and Management of Ocular Trauma. Jaybee Bros, Volume: 1, 2009.
7. A Garg, E Rosen, editors **ER Crouch**. Clinical Diagnosis in Ophthalmology: Strabismus. Jaypee Bros, Medical Publishers Ltd, 2009.
8. **Eric Crouch**. Strabismus Syndrome. Clinical Diagnosis in Ophthalmology: Strabismus. Jaypee Bros, Medical Publishers, 2009.
9. **Eric Crouch**. Cranial Nerve Palsies in Strabismus. Clinical Diagnosis in Ophthalmology: Strabismus. Jaypee Bros, Medical Publishers, 2009.
10. **Eric Crouch**. Botulinum Toxin in Strabismus. Clinical Diagnosis in Ophthalmology: Strabismus. Jaypee Bros, Medical Publishers, 2009.

11. **Eric Crouch**. Botulinum Toxin in Strabismus. Clinical Diagnosis in Ophthalmology: Pediatric Ophthalmology. Jaypee Bros, Medical Publishers Ltd, 2009.
12. ER Crouch, Jr., **ER Crouch, III**, T Grant. Ophthalmology, Textbook of Family Practice (Rakel), 8th Edition, Chapter 41, 2013.

Educational Materials

1. **ER Crouch, III**, A Garg et al, Video Atlas of Ophthalmic Surgery. Fornix based approach strabismus surgery. Section VIII, Jaybee Bros, Medical Publishers Ltd, 2008.

Non-Print Materials

1. JD Sheppard, **ER Crouch**, PW Williams, ER Crouch, et al. Hyphema Chapter. eMedicine, Volume: 1, Update November 2006, www.emedicine.com/oph/topic765.htm#section~bibliography.
2. JD Sheppard, **ER Crouch**, et al. Hyphema Chapter, eMedicine, Volume 1, Update December 2008.
3. ER Crouch, Jr., **ER Crouch, III**: Trauma: Ruptures and Bleeding. In: Tasman W. Jaeger EA, eds. Duane's Clinical Ophthalmology on CD-ROM, Rev Ed. Vol 5, Philadelphia, Pa: JP Lippincott; 2009: Chapter 61:1-20.
4. **Crouch III ER**, Dozier PM. Reading Learning Disorder. eMedicine from WebMD. Updated March 09, 2011. Available at: <http://emedicine.medscape.com/article/1835801-overview>.
5. Sheppard JD, **Crouch ER**. Hyphema. eMedicine from WebMD. Updated March 09, 2011. Available at: <http://emedicine.medscape.com/article/1190165-overview>.
6. **Crouch III ER**, Dozier PM. Reading Learning Disorder. eMedicine from WebMD. Updated August 2013. Available at: <http://emedicine.medscape.com/article/1835801-overview>.

Published Abstracts

1. **Crouch, ER, III**; Crouch, ER, Jr., Chames, MA, Williams, PB: Aminocaproic Acid and Tranexamic Acid Accelerates Corneal Reepithelialization in Sprague Dawley Rats. Invest. Ophthalm. and Vis. Sci. 37(3):S862, 1996.
2. **Crouch, ER, III**, Breazeale, RI, Crouch, ER, Jr, Davidson, JC, Lattanzio, FA, Williams, PB: Corneal Wound Healing in a Diabetic Rabbit Model. Invest. Ophthalm. And Vis. Sci. 38:S403, 1997.
3. Crouch, ER, Jr, Williams, PB, **Crouch, ER, III**, Chames, M, Gray, MK: Topical Aminocaproic Acid in the Treatment of Traumatic Hyphema. Invest. Ophthalm. And Vis. Sci. 38:S60, 1997.
4. Williams, PB, Crouch, ER, Breazeale RI, Lattanzio, FA, **Crouch, ER, III**. Aminocaproic Acid Promotes Corneal Epithelial Wound Healing in Diabetic Rabbits. Invest. Ophthalm. and Vis. Sci. 39:S85, 1998.
5. **ER Crouch, III**, DS Miller, ER Crouch, Jr., and SH Pressman: Intraocular Lens Implantation In Pediatric Patients: Bilateral Cataract Extraction versus Unilateral Cataract Extraction. Invest. Ophthalm. and Vis. Sci. 40(4):S298, 1999.
6. Nash D, **Crouch ER**, McCole, S. The Potential Positives in Smartphone Photography using Negative Images, Invest. Ophthalm. Vis. Sci., 2015 Jun; 56:4107.

Pediatric Eye Disease Investigator Group Publications

1. Pediatric Eye Disease Investigator Group. Factors Associated with Recurrence of Amblyopia on Cessation of Patching. Ophthalmology, May, 2006, 1427-1432.

2. Pediatric Eye Disease Investigator Group. Two-year follow-up of a 6-month randomized trial of atropine vs patching for treatment of moderate amblyopia in children. *Arch Ophthalmol* 2005;123(2):149-57.
3. Pediatric Eye Disease Investigator Group. Risk of amblyopia recurrence after cessation of treatment. *J AAPOS* 2004;8(5):420-8.
4. Pediatric Eye Disease Investigator Group. Treatment of bilateral refractive amblyopia in children three to less than 10 years of age. *Am J Ophthalmol* 2007;144(4):487-96.
5. Pediatric Eye Disease Investigator Group. A randomized pilot study of near activities versus non-near activities during patching therapy for amblyopia. *J AAPOS* 2005;9(2):129-36.
6. Pediatric Eye Disease Investigator Group. Interobserver Reliability of the Prism and Alternate Cover Test in Children With Esotropia. *Arch Ophthalmol* 2009;127(1):59-65.
7. Pediatric Eye Disease Investigator Group. A randomized trial to evaluate 2 hours of daily patching for strabismic and anisometropic amblyopia in children. *Ophthalmology* 2006;113(6):904-12.
8. Pediatric Eye Disease Investigator Group. Treatment of anisometropic amblyopia in children with refractive correction. *Ophthalmology* 2006;113(6):895-903.
9. Pediatric Eye Disease Investigator Group. Two-year follow-up of a 6-month randomized trial of atropine vs patching for treatment of moderate amblyopia in children. *Arch Ophthalmol* 2005;123(2):149-57.
10. Pediatric Eye Disease Investigator Group. Primary treatment of nasolacrimal duct obstruction with probing in children younger than 4 years. *Ophthalmology* 2008;115:577-84.
11. Pediatric Eye Disease Investigator Group. Primary treatment of nasolacrimal duct obstruction with balloon catheter dilation in children less than four years old. *J AAPOS* 2008;12:451-5.
12. Pediatric Eye Disease Investigator Group. Primary treatment of nasolacrimal duct obstruction with nasolacrimal duct intubation in children less than four years old. *J AAPOS* 2008;12:445-50.
13. Pediatric Eye Disease Investigator Group. Pharmacologic plus optical penalization treatment for amblyopia: results of a randomized trial. (ATS8) *Arch Ophthalmol* 2009;127(1):22-30.
14. Pediatric Eye Disease Investigator Group. Treatment of bilateral refractive amblyopia in children three to less than 10 years of age. (ATS7) *Am J Ophthalmol* 2007;144(4):487-96.
15. Pediatric Eye Disease Investigator Group. Patching vs atropine to treat amblyopia in children aged 7 to 12 years: a randomized trial.(ATS9) *Arch Ophthalmol* 2008;126:1634-42.
16. Pediatric Eye Disease Investigator Group. A randomized trial of atropine vs patching for treatment of moderate amblyopia: follow-up at age 10 years. (ATS1) *Arch Ophthalmol* 2008;126(8):1039-44.
17. Pediatric Eye Disease Investigator Group. Interobserver Reliability of the Prism and Alternate Cover Test in Children With Esotropia. (ETS1) *Arch Ophthalmol* 2009;127(1):59-65.
18. Pediatric Eye Disease Investigator Group. Primary treatment of nasolacrimal duct obstruction with nasolacrimal duct intubation in children younger than 4 years of age. *J AAPOS* 2008;12(5):445-50.
19. Pediatric Eye Disease Investigator Group. Primary treatment of nasolacrimal duct obstruction with balloon catheter dilation in children younger than 4 years of age. *J AAPOS* 2008;12(5):451-5.
20. Pediatric Eye Disease Investigator Group. Primary treatment of nasolacrimal duct obstruction with probing in children younger than 4 years. *Ophthalmology* 2008;115(3):577-84.
21. Pediatric Eye Disease Investigator Group. Repeat probing for treatment of persistent nasolacrimal duct obstruction. *J AAPOS* 2009;13(3):306-7..

22. Pediatric Eye Disease Investigator Group. Balloon catheter dilation and nasolacrimal duct intubation for treatment of nasolacrimal duct obstruction after failed probing. *Arch Ophthalmol* 2009;127(5):633-9.
23. Pediatric Eye Disease Investigator Group. The relationship between preoperative alignment stability and postoperative motor outcomes in children with esotropia. *J AAPOS* 2009;13(4):335-8.
24. Cost-effectiveness of 2 Approaches to Managing Nasolacrimal Duct Obstruction in Infants: The Importance of the Spontaneous Resolution Rate. *Arch Ophthalmol*. 2011; 129(5):603-9.
25. Pediatric Eye Disease Investigator Group. Effect of Age on Response to Amblyopia Treatment in Children. *Arch Ophthalmol*. 2011;129(11):1451-7. Epub 2011 Jul 11.
26. Pediatric Eye Disease Investigator Group. Stereoacuity in Children with Anisometropic Amblyopia. *J AAPOS* 2011;15(5):455-61.
27. Pediatric Eye Disease Investigator Group. Resolution of Congenital Nasolacrimal Duct Obstruction with Nonsurgical Management. *Arch Ophthalmol*. 2012;130(6):730-734
28. Pediatric Eye Disease Investigator Group. A Randomized Trial to Evaluate Combined Patching and Atropine for Residual Amblyopia. *Arch Ophthalmol* 2011;129(7):960-2
29. Pediatric Eye Disease Investigator Group. A randomized trial of increasing patching for amblyopia. *Ophthalmology*. 2013
30. Pediatric Eye Disease Investigator Group. Resolution of Congenital Nasolacrimal Duct Obstruction with Nonsurgical Management. *Arch Ophthalmol*. 2012;130(6):730-734
31. Pediatric Eye Disease Investigator Group. A Randomized Trial Comparing the Cost-Effectiveness of Two Approaches for Treating Unilateral Nasolacrimal Duct Obstruction. *Arch Ophthalmol* 2012;130(12):1525-33
32. Pediatric Eye Disease Investigator Group. Atropine vs patching for treatment of moderate amblyopia: follow-up at 15 years of age of a randomized clinical trial. *JAMA Ophthalmol*. Jul 2014;132(7):799-805.
33. ATS15 - Increasing Patching for Amblyopia Study. Time course and predictors of amblyopia improvement with 2 hours of daily patching. Wallace DK, Lazar EL, Crouch ER III, Hoover DL, Tamkins SM, on behalf of Pediatric Eye Disease Investigator Group. *JAMA Ophthalmol*. May 2015;133(5):606-609.
34. IXT2 - Intermittent Exotropia Study 2. Evaluation of the Intermittent Exotropia. Questionnaire using Rasch analysis. Leske DA, Holmes JM, Melia BM, on behalf of Pediatric Eye Disease Investigator Group. *JAMA Ophthalmol*. Apr 2015;133(4):461-5.
35. ATS16 - Augmenting Atropine Treatment for Amblyopia Study. A randomized trial of adding a plano lens to atropine for amblyopia. Pediatric Eye Disease Investigator Group. *J AAPOS*. Feb 2015;19(1):42-48.
36. IXT2 - Intermittent Exotropia Study 2. A randomized trial comparing part-time patching with observation for children 3-10 years old with intermittent exotropia. Pediatric Eye Disease Investigator Group. *Ophthalmology*. Dec 2014;121(12):2299-310.
37. Atropine vs patching for treatment of moderate amblyopia: follow-up at 15 years of age of a randomized clinical trial. Pediatric Eye Disease Investigator Group. *JAMA Ophthalmol*. Jul 2014;132(7):799-805.
38. NLD03 - Nasolacrimal Duct Obstruction Study 3. Office probing for treatment of nasolacrimal duct obstruction in infants..Miller AM, Chandler DL, Repka MX, Hoover DL, Lee KA, Melia M, Rychwalski PJ, Silbert DI, on behalf of Pediatric Eye Disease Investigator Group. *J AAPOS*. Feb 2014;18(1):26-30.
39. NLD03 - Nasolacrimal Duct Obstruction Study 3. A Comparison of Treatment Approaches for Bilateral Congenital Nasolacrimal Duct Obstruction. Lee KA, Chandler DL, Repka MX, Melia M, Beck RW, Summers CG, Frick KD, Foster NC, Kraker RT, Atkinson S, Avallone JM, on behalf of PEDIG. *Am J Ophthalmol* Nov 2013;156(5):1045-1050.

40. ATS15 - Increasing Patching for Amblyopia Study. A randomized trial of increasing patching for amblyopia. Pediatric Eye Disease Investigator Group. Ophthalmology. 2013 Nov;120(11):2270-7. Epub 2013 Jun 4.

Abstracts and Presentations

Oral Presentations

National/International Meetings

1. PEDIG Studies, American Association of Pediatric Ophthalmology and Strabismus, Webinar, Interactive International Symposium, Case Western University, August 23, 2014.
2. Genetic complexity in Senior-Loken syndrome, a ciliopathy: Report of a patient with nephronophthisis, pigmentary retinopathy, and metaphyseal dysplasia associated with multiple gene mutations and microarray homozygosity. E Chisholm, MS, CGC, B Helm, MS, E Crouch, MD, R Raafat, MD, V Proud, MD, National Society of Genetic Counselors, 2012.
3. ER Crouch III. Express shunt in Pediatric Glaucoma. American Association of Pediatric Ophthalmology and Strabismus, Orlando, FL, 2010.
4. ER Crouch, ER Crouch III, S Johnston. Innovative Technique for Transposition Procedure in Duane's Syndrome. American Assoc. of Pediatric Ophthalmology and Strabismus, 2008, Washington, DC.
5. ER Crouch III. Cranial Nerve III Palsy. Angeline Parks Lecture Series. Costenbader Annual Meeting. Washington, DC. 2004.
6. ER Crouch, Jr., ER Crouch, III: Pediatric Cataracts: From A to Z. Joint Commission on Allied Health Personnel in Ophthalmology 29th Annual Meeting, November 10, 2001, New Orleans, Louisiana.
7. ER Crouch, III, ER Crouch, Jr., SH Pressman: Prospective Analysis of Pediatric Pseudophakia: Myopic Shift and Postoperative Outcomes. with ER Crouch, Jr. and SH Pressman, American Assoc. of Pediatric Ophthalmology and Strabismus, May 22, 2001, Orlando, Florida.
8. ER Crouch. " Adherence of Corneal Epithelium is Improved by Administration of Aminocaproic Acid and Tranexamic Acid," with SG Caruthers, ER Crouch, Jr., D Barnes, M Chames, P Williams. National Medical Student Research Forum. April 6, 1995, Galveston, Texas.

PEDIG Writing Committee Presentations During Tenure as Vice-Chair of PEDIG Network:

1. Wallace DK, Lazar EL, Suh DW, Roberts JT, Repka MX, Petersen DB, Lorenzana IJ, Kraker RT, Holmes JM, Cotter SA, Clarke MP, Chen AM, Beck RW, on behalf of PEDIG. A Randomized Trial of Increased Patching for Amblyopia. AAPOS Annual Meeting in Boston, MA. April 2013.
2. Chandler DL, Melia M, Leske DA, Holmes JM, Kraker RT, on behalf of PEDIG. Development of a Parent Informational Video to Aid Recruitment in a Pediatric Surgical Randomized Trial. Society of Clinical Trials Annual Meeting in Boston, MA. May 2013.
3. Wallace DK, Lazar EL, Hoover DL, Tamkins SM, on behalf of PEDIG. Time Course and Predictors of Amblyopia Improvement with 2 Hours of Daily Patching. ARVO Annual Meeting in Seattle, WA. May 2013.
4. Repka MX, on behalf of PEDIG. Amblyopia Treatment Study 1: Long-term Follow-up Results at 15 Years of Age. European Strabismus Association Annual Meeting in Marseille, France. September 2013.
5. Cotter SA, Mohny BG, Chandler DL, Holmes JM, on behalf of PEDIG. A Randomized Trial Comparing

Part-time Patching with Observation for Children with Intermittent Exotropia. American Academy of Optometry Annual Meeting in Seattle, WA. October 2013.

6. Barnhardt CN, Repka MX, Kraker RT, on behalf of PEDIG. A Randomized Trial of Atropine versus Patching for Treatment of Moderate Amblyopia: Follow-up at 15 Years of Age. American Academy of Optometry Annual Meeting in Seattle, WA. October 2013.

7. Mohny BG, Cotter SA, Chandler DL, Holmes JM, on behalf of PEDIG. A Randomized Trial Comparing Part-time Patching with Observation for Children with Intermittent Exotropia. American Academy of Ophthalmology Annual Meeting in New Orleans, LA. November 2013.

8. Cotter SA, on behalf of PEDIG. Lessons Learned from the Amblyopia Treatment Studies. Optical Society of America Meeting in Houston, TX October 2013.

9. What a Research Network Teaches about Amblyopia Therapy. British Isles Pediatric Ophthalmology and Strabismus Association, October 2013.

10. Wallace DK, on behalf of PEDIG. A Randomized Trial of Increased Patching for Amblyopia. Annual Meeting of the American Association of Certified Orthoptists in New Orleans, LA. November 2013.

PEDIG Abstracts and Presentations List During Tenure as Vice-Chair of PEDIG Network:

1. Wallace DK, Lazar EL, Repka MX, Holmes JM, Kraker RT, Hoover DL, Waters AL, Rice ML, Peter RJ, on behalf of PEDIG. "A Randomized Trial of Adding a Plano Lens to Atropine for Treatment of Residual Amblyopia." American Association for Pediatric Ophthalmology and Strabismus Annual Meeting in Rancho Mirage, CA. April 2014

2. Mohny BG, Cotter SA, Chandler DL, Holmes JM, on behalf of PEDIG. "The Effect of Part-time Patching on Near Stereoacuity, Control, and Angle in Childhood Intermittent Exotropia." American Association for Pediatric Ophthalmology and Strabismus Annual Meeting in Rancho Mirage, CA. April 2014

3. Repka MX, Kraker RT, Holmes JM, Summers AI, Glaser SR, Barnhardt, Tien DR, on behalf of PEDIG. "A Randomized Trial of Atropine versus Patching for Treatment of Moderate Amblyopia: Follow-up at 15 Years of Age." American Association for Pediatric Ophthalmology and Strabismus Annual Meeting in Rancho Mirage, CA. April 2014

4. Repka MX, Dean TW, Lazar EL, Freedman SF, Hug D, Lenhart P, Rahmani B, Wang SX, Yen KG, Kraker RT, on behalf of PEDIG. "Pediatric Cataract Surgery: Baseline Characteristics of a North American Pediatric Eye Disease Registry." Association for Research in Vision and Ophthalmology Annual Meeting in Orlando, FL. May 2014

5. Holmes JM, Leske DA, Chandler DL, on behalf of PEDIG. "Effect of Patching Versus Observation on Intermittent Exotropia-Specific Health-Related Quality of Life in Children and their Parents." Association for Research in Vision and Ophthalmology Annual Meeting in Orlando, FL. May 2014

6. Wallace DK, Repka MX, Cotter SA, Lee KA, Crouch ER III, Holmes JM, on behalf of PEDIG. "PEDIG Studies." Interactive International Web Symposium hosted by American Association for Pediatric Ophthalmology and Strabismus. August 23, 2014.

7. Repka MX. "New Medical Treatment Modalities for Amblyopia." Academy of Ophthalmology Annual Meeting in Chicago, IL. October 2014 2015

8. Repka MX, Dean TW, Lazar EL, Freedman SF, Hug D, Lenhart P, Rahmani B, Wang SX, Yen KG, Kraker RT, on behalf of PEDIG. "Pediatric Cataract Surgery: Baseline Characteristics of a North American Pediatric Eye Disease Registry." American Association for Pediatric Ophthalmology and Strabismus Annual Meeting in New Orleans, LA. March 2015

9. Christiansen SP, Chandler DL, Lee KA, Superstein R, De Alba Campomanes AG, Bothun ED, Wallace DK,

Kraker RT, on behalf of PEDIG. "Complications of Botulinum Toxin-A for Treatment of Esotropia in Children." Association of Research in Vision and Ophthalmology Annual Meeting in Denver, CO. May 2015

10. Suh DW, Kulp MT, Dean TW, Kraker RT, Erzurum SA, Wallace DK, Pang Y, Shea CJ, Avallone JM, on behalf of PEDIG. "The Clinical Profile of Moderate Hyperopia in Children Three to Five Years of Age." Association of Research in Vision and Ophthalmology Annual Meeting in Denver, CO. May 2015

Local/Regional Meetings

1. ER Crouch, III: "What's the Sed Rate?" at the Eye-to-Eye with Ophthalmology Conference, Geisinger Medical Center, April 12, 2001, Danville, PA.
2. ER Crouch. "Aminocaproic Acid and Tranexamic Acid Facilitates Corneal Reepithelialization in Sprague Dawley Rats," presented at Eastern Virginia Medical School, ER Crouch, III; PB Williams. October 20, 1995.
3. ER Crouch. " Adherence of Corneal Epithelium is Improved by Administration of Aminocaproic Acid and Tranexamic Acid," presented at Eastern Virginia Medical School, SG Caruthers; ER Crouch, III; D Barnes; M Chames; ER Crouch, Jr.; PB Williams. 1995.
4. PM Griffey; PB Williams; ER Crouch, III. "Does Aminocaproic Acid, Epidermal Growth Factor, and Basic Fibroblast Growth Factor Increase the Rate of Corneal Epithelialization in Rats?" at Eastern Virginia Medical School Research Day,; October 17, 1997.
5. ER Crouch. Pediatric Ophthalmology. Grand Rounds, Department of Ophthalmology, SNGH. 2005.
6. ER Crouch, III. Strabismus and Amblyopia. Chronic Illness Conference. 10th Annual Chronic Illness Conference, sponsored by Children's Hospital of Kings Daughters, Chesapeake, VA, Nov. 2005.
7. ER Crouch III. OKAP Lecture Review Series. Department of Ophthalmology, March 2005.
8. ER Crouch III. Ophthalmology and Otolaryngology – Eyes and Ears, Syndromes Associated with Hearing and Vision Loss. Grand Rounds, Department of Otolaryngology. April, 2006.
9. ER Crouch. Pediatric Ophthalmology. Grand Rounds, Department of Ophthalmology, SNGH. 2005.
10. ER Crouch III. Leukocoria. Grand Rounds Presentation. Department of Pediatrics. CHKD. 2005.
11. ER Crouch III. OKAP Lecture Review Series. (9-hours) Department of Ophthalmology, March 2006.
12. ER Crouch III. Ocular Pathophysiology. Medical Student Lecture for Pathophysiology Course. E.V.M.S. April 2007.
13. ER Crouch III. OKAP Lecture Review Series. (9-hours) Department of Ophthalmology, 2007.
14. ER Crouch, Pediatric Retina Pathology. CME course series for Hampton Roads Optometrist Network, Downtown Virginia Beach, VA. Oct, 2008.
15. ER Crouch III. Ocular Pathophysiology. Medical Student Lecture for Pathophysiology Course. E.V.M.S. April 2009.
16. ER Crouch III. Ocular Pathophysiology Lab – Direct Ophthalmoscopy, Tonometry, and Visual Fields. E.V.M.S. April 2009.
17. ER Crouch III. Pediatric Ophthalmology Review Course for Pediatric Residents, Part 1 and Part 2. E.V.M.S. April 2009.
18. ER Crouch III. Pediatric Ophthalmology - Red Eye Lecture. E.V.M.S. July 2009.

19. ER Crouch III. Visual Development, Vision Screening, and Pediatric Ophthalmology Cases. Hampton School Nurses, Hampton Museum, August 2009.

20. ER Crouch III. Pediatric Ophthalmology - Leukocoria Lecture, Retinoblastoma Patient Presentation. E.V.M.S. September 2009.

Posters

National/International Meetings

1. ER Crouch, Jr, S Johnston, ER Crouch III. Innovative Technique for Transposition Procedure in Duane's Syndrome. Association for Research in Vision and Ophthalmology, 2006, Florida.
2. ER Crouch. "Aminocaproic Acid, Epidermal Growth Factor, and Basic Fibroblast Growth Factor and Their Effects Upon Corneal Reepithelialization After Severe Alkali Burns," with FA Lattanzio, PM Griffey, V Sharma, E Hein, PB Williams. Association for Research in Vision and Ophthalmology, May 11, 1999, Ft. Lauderdale, Florida.
3. ER Crouch. "Intraocular Lens Implantation in Pediatric Patients: Bilateral Cataract Extraction versus Unilateral Cataract Extraction," with DS Miller, SH Pressman, ER Crouch, Jr. Association for Research in Vision and Ophthalmology, May 10, 1999, Ft. Lauderdale, Florida.
4. ER Crouch. "Aminocaproic Acid Promotes Wound Healing in Diabetic Rabbits," with PB Williams, E Crouch, R Breazeale, F Lattanzio. Association for Research in Vision and Ophthalmology. May 10, 1998. Ft. Lauderdale, Florida.
5. ER Crouch III. "Corneal Wound Healing in a Diabetic Rabbit Model" with E Crouch, R Breazeale, P Williams, F Lattanzio, J Davidson. Association for Research in Vision and Ophthalmology. May 12, 1997. Ft. Lauderdale, Florida.
6. ER Crouch. "Topical Aminocaproic Acid in the Treatment of Traumatic Hyphema," with PB Williams, M Chames, E Crouch, K Gray. Association for Research in Vision and Ophthalmology, May 12, 1997. Ft. Lauderdale, Florida.
7. ER Crouch. "Aminocaproic Acid and Tranexamic Acid Accelerate Corneal Reepithelialization in Sprague Dawley Rats," with PB Williams. Association for Research in Vision and Ophthalmology. April 24, 1996. Ft. Lauderdale, Florida.
8. ER Crouch. "Aminocaproic Acid and Tranexamic Acid Facilitate Corneal Reepithelialization in Sprague Dawley Rats," with PB Williams, E Crouch, Jr. Association for Research in Vision and Ophthalmology. May 14, 1995. Ft. Lauderdale, Florida

Local/Regional Meetings

N/A

Other Creative Products

N/A

Patents and Technology Transfer

N/A

Professional Development

CITI Human Research and Biomedical Responsible Conduct of Research Curriculum, September, 2016
46th Costenbader Society annual meeting, October 17-18, 2015
EVMS 13th Annual Advances in Ophthalmology: Ophthalmic Ultrasound Workshop, April 24, 2015
IPMA Phase 2 Clinical Documentation of ICD-10 by Specialty: Principles and Practice, March 19, 2015
IPMA Clinical Documentation for ICD-10 by Specialty: Principles and Practice, June 24, 2014
American Academy of Ophthalmology annual meeting, November 16-19, 2013
Virginia Society of Eye Physicians and Surgeons annual meeting, June 14, 2013
EVMS John Dickerson Pathology Series, May 3, 2013
Costenbader Society annual meeting, October 1, 2012
American Academy of Ophthalmology annual meeting, October 22-25, 2011
Virginia Society of Ophthalmology annual meeting, June 3, 2011
American Association of Pediatric Ophthalmology and Strabismus annual meeting, April 14, 2010
Costenbader Society annual meeting, September 1, 2009
Virginia Society of Ophthalmology annual meeting, July 11, 2009
American Academy of Ophthalmology annual meeting, November 9-11, 2008
EVMS John Dickerson Pathology Series, March 1, 2008
American Academy of Ophthalmology annual meeting, November 8-13, 2007
EVMS John Dickerson Pathology Series, May 5, 2007
Virginia Society of Ophthalmology annual meeting, June 24, 2006
American Association of Pediatric Ophthalmology and Strabismus annual meeting, March 19, 2006

Community Service

EVMS Unite for Sight Faculty Advisor
International medical mission projects to Mexico and Honduras

Signature

Date