

CURRICULUM VITAE

KRISTINA TARCZY-HORNOCH, M.D., D.Phil.

Revised 08/28/2012

PERSONAL INFORMATION

Born: Berkeley, CA

EDUCATION

1988-1991 University of Oxford, Oxford, U.K., B.A., Physiological Sciences
1991-1993 University of California, San Francisco, School of Medicine, San Francisco, CA, preclinical
1996-1998 University of California, San Francisco, School of Medicine, San Francisco, CA, M.D.
1993-1997 University of Oxford, Oxford, U.K., D.Phil., Neurophysiology
1998-1999 Internal Medicine Internship, University of Washington, School of Medicine, Seattle, WA
1999-2002 Ophthalmology Residency, Doheny Eye Institute, University of Southern California, Keck School of Medicine, Los Angeles, CA
2002-2003 Pediatric Ophthalmology and Strabismus Fellowship, Wilmer Ophthalmological Institute, Johns Hopkins Hospital, Baltimore, MD
2005-2007 University of Southern California, Los Angeles, CA, M.S., Clinical and Biomedical Investigation

FACULTY POSITIONS HELD

2003-2009 Assistant Professor, Ophthalmology, University of Southern California Keck School of Medicine; Division of Ophthalmology, Children's Hospital Los Angeles.
2009- Associate Professor of Clinical Ophthalmology, University of Southern California Keck School of Medicine; Division of Ophthalmology, Children's Hospital Los Angeles.

MEDICAL STAFF APPOINTMENTS

2004-2010 Attending Staff, Huntington Hospital Outpatient Surgery Center.
2003- Attending Staff, Children's Hospital Los Angeles.
2003- Attending Staff, Los Angeles County-University of Southern California Medical Center.
2010- Attending Staff, Arcadia Specialty Surgery Center

HONORS AND AWARDS

1990 Nuffield Science Prize, St. Hilda's College, University of Oxford
1991 Gladys Richardson-Evans Scholarship, St. Hilda's College, University of Oxford
1993 Wellcome Trust Prize Studentship Award, Wellcome Trust, U.K.
1993 Overseas Research Student Award, U.K.
2001 Doheny Eye Institute Resident Research Award
2006 Saban Research Institute Award for Best Research Poster
2008 Award for Excellence in Resident Training, Doheny Eye Institute
2010 Top Doctors in Pasadena Award
2011 Top Doctors in Pasadena Award

2012 Top Doctors in Pasadena Award

BOARD CERTIFICATION

2003- American Board of Ophthalmology

CURRENT LICENSE TO PRACTICE

2000- State of California
2012- State of Washington

PROFESSIONAL ORGANIZATIONS

1999- American Academy of Ophthalmology
2000- Association for Research in Vision and Ophthalmology
2002- American Association for Pediatric Ophthalmology and Strabismus

TEACHING RESPONSIBILITIES

2004-2006 Medical student didactic lectures for clinical students rotating every three weeks (class size 2-4).
2006-2008 Monthly didactic morning conference with clinical fellows
2003- Annual series of 8 didactic lectures in Pediatric Ophthalmology and Strabismus for Keck School of Medicine Ophthalmology residents and fellows (class size 8-12).
2003- Bi-weekly didactic morning conference with first and second-year Ophthalmology residents, and clinical fellows from Keck School of Medicine and Ken Wright Pediatric Ophthalmology fellowship programs.
2003- Weekly supervision and teaching of second-year Ophthalmology residents and Pediatric Ophthalmology fellows on outpatient clinic service, Children's Hospital Los Angeles.
2003- Weekly supervision and teaching of second-year Ophthalmology residents and Pediatric Ophthalmology fellows on inpatient consultation service, Children's Hospital Los Angeles.
2003- Monthly supervision and teaching of first-, second- and third-year Ophthalmology residents in outpatient clinic, LAC-USC Medical Center, Los Angeles County Hospital.
2004- Surgical teaching of second- and third-year Ophthalmology residents and Pediatric Ophthalmology fellows.
2005- Annual series of 2 review lectures for Ophthalmology residents for preparation for national standardized Ophthalmology Knowledge Assessment exams.
2005- Clinical teaching for rotating Pediatric Residents at Children's Hospital Los Angeles, outpatient ophthalmology clinic.
2009 Course organizer, CME Pediatric Ophthalmology course at Doheny Eye Institute, Keck School of Medicine: Evolving Eye Care for Children.
2012 Course organizer, CME Pediatric Ophthalmology course at Doheny Eye Institute, Keck School of Medicine: Developments in Pediatric Ophthalmology.

SPECIAL NATIONAL RESPONSIBILITIES

2005-2007 American Academy of Ophthalmology Item-Writing Committee for AAO self-assessment program in pediatric ophthalmology, member
2007-2010 American Academy of Ophthalmology Ophthalmic News and Education Network pediatric ophthalmology subspecialty committee, member
2007 Peer reviewer for *Ophthalmic and Physiological Optics*
2008 **Organizer** and moderator, Special Interest Group meeting on "Accommodation and Lag: Implications for Vision Screening and Refractive Error Management," Assoc. for Research in Vision and Ophthalmology Annual Meeting.
2007- Peer reviewer for *Optometry and Vision Science*
2008- Peer reviewer for *Journal of the American Association for Pediatric Ophthalmology and Strabismus*
2008-2012 American Association for Pediatric Ophthalmology and Strabismus Research Committee, member
2010- Peer reviewer for *Archives of Ophthalmology*
2010- **Editor**, American Academy of Ophthalmology Ophthalmic News and Education Network

pediatric ophthalmology subspecialty committee
2010- **Associate Topical Editor**, *Optometry and Vision Science*
2011- American Association for Pediatric Ophthalmology and Strabismus Task Force member, policy statement for eye examinations for children on vigabatrin
2011- Peer reviewer for *Ophthalmic Epidemiology*
2011- **Instructor**, Bay Area Ophthalmology Course, Stanford University, Optics lecture and lab
2012- **Chair**, American Association for Pediatric Ophthalmology and Strabismus Research Committee

SPECIAL LOCAL RESPONSIBILITIES

2003-2005 Study examiner, Multi-Ethnic Pediatric Eye Disease Study
2005 Ophthalmologist for interdisciplinary Children's Hospital Los Angeles craniosynostosis team
2009 Internal Review Committee for internal Graduate Medical Education ACGME accreditation review
2009 of Pulmonary Medicine Fellowship, member.
2009 Expert witness (*pro bono*) for Department of Children and Family Services, Edelman Children's Court, Los Angeles County, CA.
2011 Ophthalmology liaison for Children's Hospital Los Angeles outpatient electronic medical record development
2006- Pediatric Ophthalmology lecture series organization.
2006- Pediatric Ophthalmology second-year resident Children's Hospital rotation evaluations.
2008- Thesis committee member for Biostatistics Masters student.
2009- Pediatric Ophthalmology resident/fellow Children's Hospital Los Angeles policy manual and Pediatric Ophthalmology resident orientation manual revision and updates.
2009- Coordinator, residency training at Children's Hospital Los Angeles

2009- Ophthalmology Graduate Medical Education Committee, member
2009- Doheny Eye Institute Alumni Association Board, member.
2009- Guest course lecturer, Southern California College of Optometry
2010- Physician Council for Children's Hospital Los Angeles outpatient satellite office, member

RESEARCH FUNDING

Past Support:

2003-2012 **Co-Principal Investigator**, (5%), Multi-Ethnic Pediatric Eye Disease Study.
NIH/NEI U10 EY14472
Rohit Varma, MD, PI \$18,288K

2005-2008 **Principal Investigator**, (7%), Functional Magnetic Resonance Imaging of Binocular Interactions in Visual Cortex.
Research Career Development Award
Saban Research Institute, Children's Hospital Los Angeles
Kristina Tarczy-Hornoch MD DPhil, PI \$100K

2005-2010 **Principal Investigator**, (75%), Early Intervention for Childhood Hypermetropia / Accommodative Lag: Measurement Methods and Characterization in Early Childhood
NIH/NEI K23 EY016699
Kristina Tarczy-Hornoch MD DPhil, PI \$791K

Pending Support:

2012-2017 **Co-Principal Investigator**, (15%), Longitudinal Study of Eye Disease in Children.
Submitted to NIH/NEI May 2012, U10
Rohit Varma, MD, PI

BIBLIOGRAPHY

Peer reviewed articles:

1. Nowak MA, **Tarczy-Hornoch K**, Austyn JM. The optimal number of major histocompatibility complex

- molecules in an individual. Proc. Natl. Acad. Sci. U S A. 89: 10896-9, 1992.
2. Jasmin L, Wang H, **Tarczy-Hornoch K**, Levine JD, Basbaum AI. Differential effects of morphine on noxious stimulus-evoked fos-like immunoreactivity in subpopulations of spinoparabrachial neurons. J. Neurosci. 14: 7252-60, 1994.
 3. Stratford KJ, **Tarczy-Hornoch K**, Martin KA, Bannister NJ, Jack JJ. Excitatory synaptic inputs to spiny stellate cells in cat visual cortex. Nature 382: 258-61, 1996.
 4. **Tarczy-Hornoch K**, Martin KA, Jack JJ, Stratford KJ. Synaptic interactions between smooth and spiny neurones in layer 4 of cat visual cortex *in vitro*. J. Physiol. (Lond.) 508: 351-63, 1998.
 5. **Tarczy-Hornoch K**, Martin KA, Stratford KJ, Jack JJ. Intracortical excitation of spiny neurons in layer 4 of cat striate cortex *in vitro*. Cerebral Cortex. 9: 833-43, 1999.
 6. **Tarczy-Hornoch K** and Repka MX. Superior oblique palsy or paresis in pediatric patients. J AAPOS. 8: 133-40, 2004.
 7. Goldenberg-Cohen N, **Tarczy-Hornoch K**, Klink DF, Guyton DL. Post-operative adjustable surgery of the superior oblique tendon. Strabismus 13: 5-10, 2005.
 8. **Tarczy-Hornoch K**, Ying-Lai M, Varma R, LALES Group. Myopic refractive error in adult Latinos: the Los Angeles Latino Eye Study. IOVS 47:1845-52, 2006.
 9. Varma R, Deneen J, Cotter SA, Paz SH, Azen SP, **Tarczy-Hornoch K**, Zhao P, MEPEDS Group. The Multi-Ethnic Pediatric Eye Disease Study: Design and methods. Ophthalmic Epidemiology 13:253-62, 2006.
 10. **Tarczy-Hornoch K**. The epidemiology of early childhood hyperopia. Optom Vis Sci 84:115-23, 2007.
 11. Cotter SA, **Tarczy-Hornoch K**, Wang Y, Azen SP, DiLauro A, Borchert MS, Varma R, MEPEDS Group. Visual Acuity Testability in African-American & Hispanic Children: The Multi-Ethnic Pediatric Eye Disease Study. Am. J. Ophthalmology 144:663-7, 2007.
 12. Borchert MS, Wang Y, **Tarczy-Hornoch K**, Cotter SA, Deneen J, Azen SP, Varma R, MEPEDS Group. Testability of the Retinomax Autorefractor and IOLMaster® in Preschool Children: The Multi-Ethnic Pediatric Eye Disease Study. Ophthalmology 115:1422-5, 2008.
 13. **Tarczy-Hornoch K**. lead author for writing committee of MEPEDS Group. Prevalence of amblyopia and strabismus in African-American and Hispanic children aged 6 months to 72 months: the Multi-Ethnic Pediatric Eye Disease Study. Ophthalmology 115:1229-36, 2008.
 14. **Tarczy-Hornoch K**, Lin J, Deneen J, Cotter SA, Azen SP, Borchert MS, Varma R, MEPEDS Group. Randot preschool stereoacuity testability in African-American and Hispanic preschool children. Optometry and Vision Science 85:158-63, 2008.
 15. **Tarczy-Hornoch K**, Smith B, Urata M. Amblyogenic anisometropia in the contralateral eye in unicoronal craniosynostosis. J. AAPOS 12:471-6, 2008.
 16. Cotter SA, **Tarczy-Hornoch K**, Song E, Lin JH, Borchert MS, Azen SP, Varma R. Fixation preference and visual acuity testing in a population-based cohort of preschool children with amblyopia risk factors. Ophthalmology 116:145-53, 2009.
 17. Pan Y, **Tarczy-Hornoch K**, Cotter SA, Wen G, Borchert MS, Azen SP, Varma R, MEPEDS Group. Visual acuity norms in preschool children: the Multi-Ethnic Pediatric Eye Disease Study. Optometry and Vision Science 86: 607-12, 2009.
 18. **Tarczy-Hornoch K**. lead author for writing committee of MEPEDS Group. Prevalence and causes of visual impairment in African-American and Hispanic children aged 6 months to 72 months: the Multi-Ethnic Pediatric Eye Disease Study. Ophthalmology 116: 1990-2000.e1, 2009.
 19. **Tarczy-Hornoch K**. Modified bell retinoscopy: quantifying accommodative lag in children. Optometry and Vision Science 86: 1337-45, 2009.
 20. Borchert M, **Tarczy-Hornoch K**, Cotter SA, Liu N, Torres M, Azen SP, Varma R, MEPEDS Group. Anisometropia in Hispanic and African-American infants and young children: the Multi-Ethnic Pediatric Eye Disease Study. Ophthalmology 117:148-53.e1, 2010.
 21. Fozailoff A. lead author for writing committee of MEPEDS Group, including **Tarczy-Hornoch K**. Prevalence of spherical equivalent refractive error in African-American and Hispanic preschool children: the Multi-Ethnic Pediatric Eye Disease Study. Ophthalmology 117:140-7.e3, 2010
 22. Nazarian-Mobin S, Simms K, Hammoudeh JA, **Tarczy-Hornoch K**, Urata MM. Unusual presentation of an orbital lymphangioma. Oral Surg Oral Med Oral Pathol Oral Radiol Endod 109: e82-5, 2010.
 23. Wen G, McKean-Cowdin R, **Tarczy-Hornoch K**, Cotter SA, Borchert MS, Azen SP, Varma R. General health-related quality of life in preschool children with strabismus or amblyopia. Ophthalmology 118:574-80, 2011.
 24. Chen VJ and **Tarczy-Hornoch K**. Functional magnetic resonance imaging of binocular interactions in visual cortex in strabismus. Journal of Pediatric Ophthalmology and Strabismus 48:366-74, 2011.
 25. Fozailoff A, **Tarczy-Hornoch K**, Cotter S, Wen G, Lin J, Borchert M, Azen S, Varma R; Writing Committee for the MEPEDS Study Group. Prevalence of astigmatism in 6- to 72-month-old African-American and Hispanic children: the Multi-Ethnic Pediatric Eye Disease Study. Ophthalmology 118:284-93, 2011.

26. Borchert MS, Varma R, Cotter SA, **Tarczy-Hornoch K**, McKean-Cowdin R, Lin JH, Wen G, Azen SP, Torres M, Tielsch JM, Friedman DS, Repka MX, Katz J, Ibrionke J, Giordano L; Multi-Ethnic Pediatric Eye Disease Study and the Baltimore Pediatric Eye Disease Study Groups. Risk factors for hyperopia and myopia in preschool children: the Multi-Ethnic Pediatric Eye Disease Study and Baltimore Pediatric Eye Disease Study. *Ophthalmology* 118:1966-73, 2011.
27. McKean-Cowdin R, Varma R, Cotter SA, **Tarczy-Hornoch K**, Borchert MS, Lin JH, Wen G, Azen SP, Torres M, Tielsch JM, Friedman DS, Repka MX, Katz J, Ibrionke J, Giordano L; Multi-Ethnic Pediatric Eye Disease Study and the Baltimore Pediatric Eye Disease Study Groups. Risk factors for astigmatism in African-American, Hispanic and non-Hispanic White preschool children: the Multi-Ethnic Pediatric Eye Disease Study and Baltimore Pediatric Eye Disease Study. *Ophthalmology* 118:1974-81, 2011.
28. Cotter SA, Varma R, **Tarczy-Hornoch K**, McKean-Cowdin R, Lin J, Wen G, Wei J, Borchert M, Azen SP, Torres M, Tielsch JM, Friedman DS, Repka MX, Katz J, Ibrionke J, Giordano L; The Joint Writing Committee for the Multi-Ethnic Pediatric Eye Disease Study and the Baltimore Pediatric Eye Disease Study Groups. Risk factors associated with childhood strabismus: the Multi-Ethnic Pediatric Eye Disease Study and Baltimore Pediatric Eye Disease Study. *Ophthalmology* 118:2251-2261, 2011.
29. **Tarczy-Hornoch K**, Varma R, Cotter SA, McKean-Cowdin R, Lin JH, Borchert MS, Torres M, Wen G, Azen SP, Tielsch JM, Friedman DS, Repka MX, Katz J, Ibrionke J, Giordano L; The Joint Writing Committee for the Multi-Ethnic Pediatric Eye Disease Study and the Baltimore Pediatric Eye Disease Study Groups. Risk factors for decreased visual acuity in preschool children: the Multi-Ethnic Pediatric Eye Disease and Baltimore Pediatric Eye Disease Studies. *Ophthalmology* 118: 2262-73, 2011.
30. **Tarczy-Hornoch K**. Accommodative lag and refractive error in infants and toddlers. *J AAPOS* 16:112-7, 2012.

Letters to the Editor:

1. **Tarczy-Hornoch K**, Guyton DL. Measuring dissociated vertical deviations. *J. AAPOS* 12:105, 2008.

Peer reviewed articles submitted:

1. **Tarczy-Hornoch K**. lead author for writing committee of MEPEDS Group. Prevalence of visual impairment in non-Hispanic White and Asian children: the Multi-Ethnic Pediatric Eye Disease Study. Submitted April 2012.
2. McKean-Cowdin R, lead author for writing committee of MEPEDS Group, including **Tarczy-Hornoch K**. Prevalence of amblyopia and strabismus in non-Hispanic White and Asian children: the Multi-Ethnic Pediatric Eye Disease Study. Submitted April 2012.

Abstracts:

1. Woolworth V, **Tarczy-Hornoch K**, Quintanilha A, Claster S. Brief exposure to activated neutrophils induces permanent derangements in red cell cation contents. *Amer. Soc. Hematol. Ann. Mtg.*, 1990
2. Jasmin L, Wang H, **Tarczy-Hornoch K**, Card JP, Basbaum AI. Afferent connection of the amygdaloid complex of the rat. Comparison of two retrograde tracers, fluorogold and pseudorabies virus. *Soc. Neurosci. Ann. Mtg.*, 1992.
3. Jasmin L, **Tarczy-Hornoch K**, Wang H, Levine JD, Basbaum AI. Transneuronal labeling of small diameter trigeminal ganglion neurons after pseudorabies virus injection into the central nucleus of the amygdale. *Soc. Neurosci. Ann. Mtg.*, 1993.
4. Wang H, Jasmin L, **Tarczy-Hornoch K**, Levine JD, Fields HL, Basbaum AI. Morphine does not block noxious stimulus-evoked increases of Fos-like immunoreactivity in laminae I and IIa trigemino-parabrachial neurons. *Soc. Neurosci. Ann. Mtg.*, 1993.
5. Jasmin L, Wang H, **Tarczy-Hornoch K**, Levine JD, Basbaum AI. Noxious stimulus-evoked Fos-like immunoreactivity in spino-parabrachial neurons in lamina I is not affected by morphine. 7th World Congress on Pain, Paris, France, 1993.
6. Jasmin L, **Tarczy-Hornoch K**, Wang H, Levine JD, Basbaum AI. Transneuronal spread of the pseudorabies virus after injection into the central nucleus of the amygdale in the rat. *Gene. Ther.* 1 Suppl 1: S74, 1994.
7. Stratford KJ, Martin KAC, Bannister NJ, **Tarczy-Hornoch K**, Jack JJB. Excitatory synaptic inputs to spiny stellate cells in cat visual cortex. *Congr. Cerebral Cortex, Function and Devt.*, Lyon, France, 1995.
8. Stratford KJ, Martin KAC, Bannister NJ, **Tarczy-Hornoch K**, Jack JJB. Diversity amongst excitatory synaptic synaptic inputs to spiny stellate cells in cat visual cortex *in vitro*. *Soc. Neurosci. Ann. Mtg.*,

- 1995.
9. **Tarczy-Hornoch K**, Martin KAC, Jack JJB, Stratford KJ. Paired recording of synaptic interactions involving inhibitory neurones in layer 4 of cat visual cortex *in vitro* Physiological Soc. Ann. Mtg., Edinburgh, Scotland., 1996.
 10. **Tarczy-Hornoch K**, Carelli V, Ross-Cisneros FN, Sadun AA. Morphology and morphometry of cerebellar purkinje cells in a case of Leber's hereditary optic neuropathy. Assoc. Res. Vis. Opth. Ann. Mtg., 2001.
 11. **Tarczy-Hornoch K** and Repka MX. Superior oblique paresis in pediatric patients Amer. Acad. Ped. Opth. Strab. Ann. Mtg., 2003.
 12. Gramatikov BI, **Tarczy-Hornoch K**, Nassif DS, Hunter DG, Guyton DL. Improved fixation target for accommodation in a focus-detection photoscreener. Assoc Res. Vis. Opth. Ann. Mtg., 2003.
 13. **Tarczy-Hornoch K**, Ying-Lai M, Varma R, LALES Study Group. Myopic refractive error in adult Latinos: the Los Angeles Latino Eye Study. Assoc Res. Vis. Opth. Ann. Mtg., 2005.
 14. Varma R, Deneen J, Lin JH, Ying-Lai M, Cotter SA, **Tarczy-Hornoch K**, Borchert M, Azen SP, MEPEDS Group. Determinants of refractive error in preschool children: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Opth. Ann. Mtg., 2006.
 15. Borchert MS, Deneen J, Lin JH, **Tarczy-Hornoch K**, Cotter SA, Azen SP, Varma R, MEPEDS Group. Ability to measure refraction using the Retinomax refractometer in African-American and Hispanic preschool children: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Opth. Ann. Mtg., 2006.
 16. Deneen J, Lin JH, Cotter SA, **Tarczy-Hornoch K**, Borchert MS, Azen SP, Varma R, MEPEDS Group. Ability to measure axial length using the IOLMaster in preschool children: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Opth. Ann. Mtg., 2006.
 17. Cotter SA, Deneen J, Lin JH, **Tarczy-Hornoch K**, Azen SP, Varma R, Borchert MS, MEPEDS Group. ATS HOTV visual acuity testability in African-American and Hispanic preschool children: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Opth. Ann. Mtg., 2006.
 18. Chen VJ and **Tarczy-Hornoch K**. Interpolating light and shadow in V1. Assoc Res. Vis. Opth. Ann. Mtg., 2006.
 19. **Tarczy-Hornoch K**, Lin JH, Deneen JY, Cotter SA, Azen SP, Borchert MS, Varma R, MEPEDS Group. Testability of stereopsis using the Randot Preschool Stereoacuity Test in African-American and Hispanic children: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Opth. Ann. Mtg., 2006.
 20. Varma R, Cotter SA, Deneen J, DiLauro A, **Tarczy-Hornoch K**, Borchert MS, Azen SP, MEPEDS Group. Prevalence of amblyopia and strabismus in a population-based sample of preschool African-American and Hispanic children: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Opth. Ann. Mtg., 2007.
 21. Cotter SA, Varma R, **Tarczy-Hornoch K**, DiLauro A, Torres M, Wang Y, Borchert MS, Azen SP, MEPEDS Group. Relationship of fixation preference to amblyopia in preschool children: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Opth. Ann. Mtg., 2007.
 22. Borchert MS, **Tarczy-Hornoch K**, Wang Y, Cotter SA, Azen SP, Varma R, MEPEDS Group. Randot preschool stereoacuity test results in African-American and Hispanic children: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Opth. Ann. Mtg., 2007.
 23. Foong AW, DiLauro A, Wang Y, Cotter SA, **Tarczy-Hornoch K**, Borchert MS, Azen SP, Varma R, MEPEDS Group. Age-, gender- and ethnicity-related differences in axial length in preschool children: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Opth. Ann. Mtg., 2007.
 24. **Tarczy-Hornoch K**, Wang Y, Cotter SA, Borchert MS, Azen SP, Varma R, MEPEDS Group. ATS HOTV visual acuity test results in African-American and Hispanic children: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Opth. Ann. Mtg., 2007.
 25. Borchert MS, **Tarczy-Hornoch K**, Cotter SA, Lin J, Torres M, Azen S, Varma R, MEPEDS Group. Prevalence of anisometropia in infants and young children: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Opth. Ann. Mtg., 2008.
 26. **Tarczy-Hornoch K**, Lin J, Cotter SA, Borchert MS, Torres M, Azen, Varma R, MEPEDS Group. Prevalence of hyperopia in African-American and Hispanic preschool children: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Opth. Ann. Mtg., 2008.
 27. Kadkhoda A, Torres M, **Tarczy-Hornoch K**, Cotter SA, Borchert MS, Varma R, MEPEDS Group. Prevalence of visual impairment in African-American and Hispanic children aged 30-72 months: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Opth. Ann. Mtg., 2008.
 28. Zhu AM, Lin J, **Tarczy-Hornoch K**, Torres M, Cotter SA, Borchert MS, Azen S, Varma R, MEPEDS Group. Myopia in preschool children: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Opth. Ann. Mtg., 2008.
 29. Cotter SA, **Tarczy-Hornoch K**, Lin J, Borchert MS, Torres M, Azen S, Varma R, MEPEDS Group. Prevalence of astigmatism in infants and young children: the Multi-Ethnic Pediatric Eye Disease Study.

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30. SanchezRN, **Tarczy-Hornoch K**, Cotter SA, Choudhury F, Borchert MS, Azen S, Varma R, MEPEDS Group. Effect of Cyclopentolate vs. Atropine on cycloplegic refraction: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Ophth. Ann. Mtg., 2008.
 31. **Tarczy-Hornoch K**. Dynamic retinoscopy for assessing accommodation in children under two years of age. Assoc. for Pediatric Ophthalmology and Strabismus Ann. Mtg., 2008.
 32. Cotter SA, **Tarczy-Hornoch K**, Liu N, Borchert MS, Torres M, Azen SP, Varma R, MEPEDS Group. Factors Associated with Childhood Esotropia: The Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Ophth. Ann. Mtg., 2009.
 33. Borchert MS, **Tarczy-Hornoch K**, Liu N, Cotter SA, Torres M, Azen SP, Varma R, MEPEDS Group. Risk factors for anisometropia in a population-based sample of preschool children: The Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Ophth. Ann. Mtg., 2009.
 34. Wen G, McKean R, **Tarczy-Hornoch K**, Azen SP, Cotter SA, Borchert MS, Torres M, Varma R, MEPEDS Group. The impact of amblyopia and strabismus on health-related quality of life in young children. Assoc Res. Vis. Ophth. Ann. Mtg., 2009.
 35. FozailoffA, **Tarczy-Hornoch K**, Cotter SA, Lin J, Borchert MS, Azen SP, Varma R. Causes of Visual Impairment in African-American and Hispanic Preschool Children: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Ophth. Ann. Mtg., 2009.
 36. **Tarczy-Hornoch K**, Liu N, Cotter SA, Borchert MS, Torres M, Azen SP, Varma R. Risk factors for decreased visual acuity in preschool children: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Ophth. Ann. Mtg., 2009.
 37. FozailoffA, Oh D, Varma R, MEPEDS Group including **Tarczy-Hornoch K**. Active and inactive outdoor play and refractive error in preschool children: the Multi-Ethnic Pediatric Eye Disease Study. Assoc Res. Vis. Ophth. Ann. Mtg., 2010.
 38. McKean-Cowdin R, Varma R, Wen G, **Tarczy-Hornoch K**, Cotter SA, Borchert MS, Tielsch JM, Friedman DS, Repka MX, Katz J, Multi-ethnic Pediatric Eye Disease Study & Baltimore Pediatric Eye Disease Study Groups. Risk Factors for Astigmatism in a Population-Based Study of Children. The Multiethnic Pediatric Eye Disease and the Baltimore Pediatric Eye Disease Studies. Assoc Res. Vis. Ophth. Ann. Mtg., 2011.
 39. Wei J, Cotter SA, Varma R, **Tarczy-Hornoch K**, McKean-Cowdin R, MS, Tielsch JM, Friedman DS, Repka MX, Katz J, Multi-ethnic Pediatric Eye Disease Study & Baltimore Pediatric Eye Disease Study Groups. Early Life Risk Factors Associated with Childhood Strabismus: The Multi-ethnic Pediatric Eye Disease Study and the Baltimore Pediatric Eye Disease Study. Assoc Res. Vis. Ophth. Ann. Mtg., 2011.
 40. Wen G, McKean-Cowdin R, **Tarczy-Hornoch K**, Cotter SA, Borchert MS, Torres M, Azen SP, Varma R, Multi-Ethnic Pediatric Eye Disease Study Group. The Association of Axial Length with Age and Gender in Preschool Children. Assoc Res. Vis. Ophth. Ann. Mtg., 2011.
 41. **Tarczy-Hornoch K**, Varma R, Cotter SA, McKean-Cowdin R, Borchert MS, Tielsch JM, Friedman DS, Repka MX, Katz J, Multi-ethnic Pediatric Eye Disease Study & Baltimore Pediatric Eye Disease Study Groups. Risk Factors for Decreased Visual Acuity in Preschool Children: the Multi-Ethnic Pediatric Eye Disease Study and the Baltimore Pediatric Eye Disease Study. Assoc Res. Vis. Ophth. Ann. Mtg., 2011.
 42. HammondB, Wen G, Varma R, **Tarczy-Hornoch K** and MEPEDS Group. Laterality of amblyogenic anisometropia in preschool children. Assoc. for Pediatric Ophthalmology and Strabismus Ann. Mtg., 2012.
 43. Chen AM, Wong V, Cotter SA, **Tarczy-Hornoch K**, Candy TR. Accommodative accuracy with patching therapy for amblyopia. Assoc Res. Vis. Ophth. Ann. Mtg., 2012.

NATIONAL AND INTERNATIONAL INVITATIONAL LECTURES

1. "Early Intervention for Childhood Hyperopia." Oxyopia Seminar Series, School of Optometry, Indiana University, Bloomington, IN, August 2006.
2. "How Should We Think About Early Childhood Hyperopia?" University of California, San Francisco, Department of Ophthalmology Special Seminar, July 2007.
3. Featured Speaker, Society of Women Engineers, Women in Engineering, Science and Technology annual conference, Harvey Mudd College, Claremont, CA, March 2008.
4. "Case Management of Refractive Error in Pre-school Children: Can We Agree?" American Academy of

- Optometry Annual Meeting, Anaheim, CA, October 2008; symposium panelist.
5. **The 2009 Elizabeth F. Caloroso Lecture in Binocular Vision.** "Crossing Paths with Evidence-Based Medicine." Southern California College of Optometry, Fullerton, CA, June 14, 2009.
 6. **The 2010 Stidham Lecture in Pediatric Ophthalmology.** "Refractive Errors in Disorders of Visual Development." University of Arizona, Tucson, AZ, March 16, 2010.

LOCAL AND REGIONAL INVITATIONAL LECTURES

1. "Eavesdropping on conversations in visual cortex." Isaac Bekhor seminar series lecture. Doheny Eye Institute, Los Angeles, CA, 2001.
2. "Pediatric Eye Trauma." Ophthalmology for the Pediatrician course lecture. Wilmer Eye Institute, Baltimore, MD, 2002
3. "Update on Congenital Esotropia." Current Concepts in Ophthalmology course lecture. Wilmer Eye Institute, Baltimore, MD, 2002
4. "Pain Management and the Pediatric Ophthalmologist or Strabismus Surgeon." Management of Pain, Nausea, Vomiting, Anxiety and End of Life Issues course lecture. Doheny Eye Institute, Los Angeles, CA, February 2005.
5. "Update on Amblyopia Treatment." Current Topics in Pediatric Ophthalmology course lecture. Doheny Eye Institute, Los Angeles, CA, 2005.
6. "Pain Management and the Pediatric Ophthalmologist or Strabismus Surgeon. Management of Pain, Nausea, Vomiting, Anxiety and End of Life Issues course lecture." Doheny Eye Institute, Los Angeles, CA, December 2005.
7. "Strabismus Evaluation and Management: Controversial Questions and Evolving Answers." Pediatric Eye Care course lecture. Southern California College of Optometry, Fullerton, CA, June 2006.
8. "Developmental Aspects of the Visual Brain." Children's Brain Center Conference. Childrens Hospital Los Angeles, Los Angeles, CA, June 2006.
9. "Pain Management and the Pediatric Ophthalmologist or Strabismus Surgeon." Management of Pain, Nausea, Vomiting, Anxiety and End of Life Issues course lecture. Doheny Eye Institute, Los Angeles, CA, September 2006.
10. "Strabismus and the Developing Brain." Childrens Hospital Los Angeles Grand Rounds, Los Angeles, CA, September 2006.
11. "Visual Impairment in Young Children." Junior Blind of America, Los Angeles, Professional Development seminar, October 2007.
12. "Strabismus Management from an Ophthalmological Perspective." Invited guest lecturer for optometry resident lecture series. Southern California College of Optometry, Fullerton, CA, January 2009.
13. "Pediatric Ophthalmology for Pediatricians." Pediatric Grand Rounds, Childrens Hospital Los Angeles, Los Angeles, CA, April 2009.
14. "Update on Amblyopia Treatment." Evolving Eyecare for Children course lecture. Doheny Eye Institute, Los Angeles, CA, May 2009.
15. "Focusing on Accommodation in Pediatric Ophthalmology." Annual Alumni Meeting and CME course lecture, Doheny Eye Institute, Los Angeles, CA, June 2009.
16. "Management of Refractive Error in Preschool Children: Can We Agree?" Southern California College of Optometry Continuing Education seminar, June 2009; panelist.
17. "Strabismus Management from an Ophthalmological Perspective." Invited guest lecturer for optometry resident lecture series. Southern California College of Optometry, Fullerton, CA, January 2010.
18. "Recent Insights from Pediatric Ophthalmic Epidemiology." Pediatric Ophthalmology course lecture. Doheny Eye Institute, Los Angeles, CA, February 2010.
19. "Pediatric Ophthalmology for Pediatricians." Pediatric Grand Rounds, Los Angeles County-University of Southern California Medical Center, Los Angeles, CA, March 2010.
20. "Strabismus Management from an Ophthalmological Perspective." Invited guest lecturer for optometry resident lecture series. Southern California College of Optometry, Fullerton, CA, February 2011.
21. "Strabismus Management from an Ophthalmological Perspective." Invited guest lecturer for optometry resident lecture series. Southern California College of Optometry, Fullerton, CA, February 2012.
22. "Can We Predict Strabismus and Amblyopia?" Developments in Pediatric Ophthalmology and Strabismus course lecture. Doheny Eye Institute, Los Angeles, CA, March 2012.