

**Prospectus for Fellowship Program In
Pediatric Ophthalmology and Strabismus at
Children's Hospital of Pittsburgh, Division of Pediatric Ophthalmology
University of Pittsburgh Medical Center,
Department of Ophthalmology
University of Pittsburgh School of Medicine**

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1. INTRODUCTION:

It is important that most eye problems presenting in infants and children be corrected as early as feasible during childhood. Failure to correct these problems at an appropriate time early in life may result in permanent visual deficits, eye muscle disorders, and possibly even legal blindness. This early attention to a child's ocular problems should eventually permit him or her to have optimal vision and binocularity (use of both eyes together) in adulthood. It is in the public interest that ophthalmologists who deal exclusively or principally with children be optimally trained to diagnose and treat disorders of the child's eye. In an attempt to assure the highest quality of ophthalmic care for infants and children by ophthalmologists optimally trained in pediatric ophthalmology and strabismus we would like to initiate a Fellowship program within the Department of Ophthalmology here at Children's Hospital of Pittsburgh.

The following is a list of American Association for Pediatric Ophthalmology and Strabismus (AAPOS) Approved Fellowship Programs. There are currently 55 positions at 40 Institutions in the United States and Canada. Most training positions are 12 months in length. There is no "Board" approval/testing for any subspecialty training within the field of Ophthalmology although Board Certification by The American Board of Ophthalmology is a requirement of AAPOS.

Program Name	Program Director	City	State	Country	Position/s
Children's Hospital LA/Cedar's Sinai	Kenneth Wright, MD	Los Angeles	CA	USA	1
USC/LA Children's Hospital	A.Linn Murphree, MD	Los Angeles	CA	USA	1
UCLA/Jules Stein Eye Institute	Sherwin J. Isenberg, MD	Los Angeles	CA	USA	2
UCSD Shiley/Naval Medical Ctr.	David Granet, MD	LaJolla	CA	USA	1
University of Colorado	Arlene V. Drack, MD	Aurora	CO	USA	1
Children's National Medical Ctr.	Mohamad S. Jaafar, MD	Washington	DC	USA	3
Bascom Palmer Eye Institute	Hilda Capo, MD	Miami	FL	USA	1
James Hall	Zane F. Pollard, MD	Atlanta	GA	USA	2
Emory University	Amy Hutchinson, MD	Atlanta	GA	USA	1
Children's Memorial Hospital	Janice Lasky, MD	Chicago	IL	USA	1
University of Illinois Eye & Ear	Jeffrey Bloom, MD	Chicago	IL	USA	2
Indiana University	David Plager, MD	Indianapolis	IN	USA	2
University of Iowa	Ronald Keech, MD	Iowa City	IA	USA	2
University of Kentucky	Robert S. Baker, MD	Lexington	KY	USA	1
Wilmer/John's Hopkins	David Guyton, MD	Baltimore	MD	USA	2

Boston Children's Hospital	Deborah VanderVeen, MD	Boston	MA	USA	1
Children's Hospital of Michigan/Kresge	John D. Baker, MD	Detroit	MI	USA	1
University of Michigan	Monte DelMonte, MD	Ann Arbor	MI	USA	2
University of Minnesota	C. Gail Summers, MD	Minneapolis	MN	USA	1
St. Louis University	Oscar Cruz, MD	St. Louis	MO	USA	1
Washington University	Lawrence Tyschen, MD	St. Louis	MO	USA	2
Children's Mercy Hospital & Clinic	Scott Olitsky, MD	Kansas City	MO	USA	1
Manhattan Eye, Ear, & Throat	Norman Medow, MD	New York	NY	USA	1
SUNY Buffalo/Children's Hospital	Jim Reynolds, MD	Buffalo	NY	USA	1
Duke University	Edward G. Buckley, MD	Durham	NC	USA	2
Cincinnati Children's Hospital	Constance West, MD	Cincinnati	OH	USA	1
Cleveland Clinic Foundation	Elias Traboulsi, MD	Cleveland	OH	USA	1
Ohio State University Children's Hospital	Gary Rogers, MD	Columbus	OH	USA	1
Oregon Health & Science	Earl Palmer, MD	Portland	OR	USA	1
Wills Eye Hospital	Joseph H. Calhoun, MD	Philadelphia	PA	USA	2
Children's Hospital of Philadelphia	Monte Mills, MD	Philadelphia	PA	USA	2
Medical University of South Carolina	Richard Saunders, MD	Charleston	SC	USA	2
Vanderbilt University	Sean Donahue, MD, PhD	Nashville	TN	USA	1
Texas Children's Hospital/Baylor	David K. Coats, MD	Houston	TX	USA	2
University of Texas/Southwestern	David Weakley, Jr, MD	Dallas	TX	USA	1
Children's Hospital Regional Medical Ctr	Mark Greenwald, MD	Seattle	WA	USA	1
University of Wisconsin	Burton Kushner, MD	Madison	WI	USA	1
Dalhousie/IWK	G. Robert LaRoche, MD	Halifax	NS	CAN	1
Hospital for Sick Children	Alex Levin, MD	Toronto	ON	CAN	2
McGill Children's Vision Center	Robert Koenekoop, MD	Montreal	QB	CAN	1

2. GOALS OF THE CHP FELLOWSHIP PROGRAM

- A. To train fellows to provide high quality medical and surgical eye care for all children and adults with strabismus and disorders of ocular motility.
- B. To prepare those fellows interested in an academic career for competitive positions by special education skills transfer regarding research activity, funding applications, teaching and program development in pediatric ophthalmology.
- C. To prepare those fellows interested in community pediatric ophthalmology for competitive positions with emphasis on pediatric eye care consultation and service as well as private office economics and general infrastructure.
- D. To add too, and provide more, resources for the highly qualified house staff that is present in the Departments of Ophthalmology and Pediatrics here at CHP and UPMC.

3. MEASUREABLE OBJECTIVES CONSIDERED MARKERS FOR SUCCESS

A. Graduates of the fellowship will acquire specialty eye care skills for the pediatric population and those adults with strabismus.

The clinical, didactic and research curriculum, the Children's Hospital environment, a fully functional in-house Department of Pediatrics, the association with multiple faculty, and a premiere ophthalmology residency program ensure that the Fellow will complete the program with the multiple and diverse skills needed to provide subspecialty care. (See requirements below).

B. Graduates of the fellowship will provide subspecialty pediatric eye care services for community and/or academic practices after graduation.

Although there are no "Board" examinations in the subspecialty of Pediatric Ophthalmology and Strabismus, in order to be a member of the American Association of Pediatric Ophthalmology and Strabismus (AAPOS) an Ophthalmologist must be an Board Certified Ophthalmologist (The American Board of Ophthalmology), have trained in an AAPOS approved fellowship program and have at least 75% of their practice dedicated to pediatric ophthalmology and strabismus. The commitment of the fellowship program is to train future members of AAPOS by fulfilling the requirements of an AAPOS fellowship.

C. Graduates of the fellowship will be able to compete for leadership positions in academics and research in pediatric ophthalmology.

The exposure of the Fellow to the academic environment (i.e., clinical laboratories, multicenter trials, grant and aid acquisition, and resident and student teaching) within the Division of Pediatric Ophthalmology along with the requirement to participate in a research project will allow the Fellow to acquire the skills and background to compete for, and succeed in, academic positions after graduation.

D. We will seek to recruit and fill our fellowship program with highly qualified resident applicants who meet or exceed the National standards for other pediatric ophthalmology fellowship programs. Fellowship applicants will be subject to the same criteria as their categorical counterparts.

- Dr Hertle has a National and International reputation in the field of Pediatric Ophthalmology and has supervised the training of 14 Fellows at three institutions since 1990 (Children’s Hospital of Philadelphia, The National Eye Institute, The National Institutes of Health and Columbus Children’s Hospital). These Fellows are now practicing community and academic pediatric ophthalmology in the USA, Brazil, Turkey and Jordan. Dr.’s Cheng and Hoover are Fellowship trained pediatric ophthalmologists who have also been intimately involved with training Fellows with Dr. Al Biglan in Pittsburgh for many years. This experience and history will attract outstanding Fellow applicants.
- The Children’s Hospital of Pittsburgh environment rather than an “Eye Hospital” environment will attract outstanding Fellow applicants because it provides the Fellow maximum exposure to pediatric diseases, associated pediatric subspecialty service collaboration and up to date diagnostics and treatment modalities.
- The University of Pittsburgh and The University of Pittsburgh Medical Center and the supporting Department of Ophthalmology are Premiere Institutions/Departments and as such will assist in the recruitment of competitive candidates for the fellowship program.

4. QUALIFICATIONS OF THE APPLICANT:

- a. The applicant must have satisfactorily completed a residency program in ophthalmology and be eligible for a PA medical license.

5. QUALIFICATIONS OF THE PROGRAM:

- a. The training program must be based at an institution that is part of an approved ophthalmology residency program.
- b. The institution must be associated with a general pediatric training program.
- c. One position will be available.
- d. The program’s position will be offered through the “Match”.

6. QUALIFICATIONS OF THE FACULTY:

- a. The primary faculty of the program will include at least two voting members of AAPOS.
- b. The program director will have had at least five years of clinical experience following his/her fellowship training, and hold a current appointment in the ophthalmology department of the parent institution.
- c. At least one other faculty member will be an AAPOS member with at least 1 year of post-fellowship clinical experience.
- d. An existing program may replace this faculty member with an AAPO&S-eligible faculty for a period of time not to exceed two years.
- e. The program director will be engaged in ongoing research in the field of pediatric ophthalmology demonstrated by regular publications in refereed journals and/or presentation of research material at national meetings.
- f. The program director will be a voting member of AAPOS whose practice conforms to the minimum requirements for a Member as set forth in section 1.03 of the AAPO&S Bylaws (currently 75% pediatric ophthalmology or strabismus).

7. DURATION AND LOCATION OF FELLOWSHIP TRAINING PROGRAM

- a. A minimum of 12 months training is required.
- b. At least 50% (6 months) of the fellow's time must be spent at the parent institution.
- c. If some of the 12 months experience is to be spent away from the parent institution, verification and documentation of such training is the responsibility of the program director.

8. DUTIES OF THE PROGRAM DIRECTOR

- a. Maintain an active clinical service in pediatric ophthalmology and/or strabismus at the parent institution.
- b. Periodically assess the fellows by means of adequate documentation and make adjustments for areas of deficiency.
- c. Personally supervise the administration and implementation of these fellowship guidelines.
- d. Certify the satisfactory completion of the course of training by the fellow at the end of the training program.
- e. Inform the CHP ACGME Committee within 30 days of any substantive change in the program (such as but not limited to: change in program director, loss of faculty, change in location).
- f. Inform their accepted applicants of the deadlines for application to AAPO&S as members-in-training and regular (post-fellowship) membership.
- g. Distribute to all applicants to the program an "information sheet" (to be supplied by the AAPOS Training & Accreditation Committee) that will include information about "approved" programs and their relationship to AAPO&S membership, a list of "approved" programs, a list of programs on probation, etc, and any other information deemed appropriate by the AAPOS Training & Accreditation Committee.

9. CHARACTERISTICS OF THE PROGRAM

- a. Medical liability coverage will be provided to the fellow by the program during his/her training.
- b. The medical and surgical care provided by the fellow during his/her training will be supervised.
- c. A journal club specific to the pediatric ophthalmology/strabismus program will be held at least six times per annum.
- d. The fellow will prepare and present teaching conferences and participate in the teaching of residents and/or medical students.
- e. The fellow will be involved in the ongoing research activities of the department.
- f. The teaching program will include:
 1. An ongoing program of study of the pertinent literature, guided by the faculty.
 2. Informal and formal didactic teaching.
 3. The provision of appropriate clinical material, i.e., patients for examination, evaluation, treatment, and discussion.
- g. The program will include teaching in at least the following subject areas:
 1. Strabismus
 - a. Anatomy, physiology, neuroanatomy
 - b. Sensory adaptation and testing
 - c. Amblyopia diagnosis and treatment

- d. Refraction management
- e. Esodeviations and Exodeviations
- f. Vertical and incomitant strabismus
- g. Ophthalmoplegic syndromes
- h. Surgery; primary and complex
- i. Oculinum
- j. Interpretation of eye movement recordings

2. Pediatric Ophthalmology

- a. Vision development in infancy and childhood
- b. Embryological basis of conditions relative to pediatric ophthalmology
- c. Neonatal ophthalmology including retinopathy of prematurity
- d. Genetics, inborn error of metabolism, and syndromes involving the eye
- e. Electrodiagnostic testing
- f. Ocular manifestations of systemic disease in children
- g. Vision and learning; dyslexia
- h. Vision screening
- i. Treating the visually handicapped child; low vision management
- j. Pediatric ocular trauma
- k. Pediatric ocular tumors
- l. Ultrasound, CT scan and MRI in pediatric ophthalmology

3. Areas of the following as related to pediatric ophthalmology and vision development

- a. External ocular disease
- b. Lacrimal disorders
- c. Lid disorders
- d. Corneal disorders
- e. Uveal disorders
- f. Lens disorders
- g. Pediatric glaucoma; primary and secondary
- h. Retina and vitreous
- i. Neuro-ophthalmology

h. Surgery

1. Surgical training is required in this surgical sub-specialty.
2. The fellow must perform and/or assist the primary surgeon in a minimum of 75 major surgical cases. Fifty of these cases must be strabismus and must be done under the direct supervision of an AAPOS member or attending with equivalent qualifications.

10. DOCUMENTATION AND VERIFICATION

- a. Documentation and verification of the program's activities will be required annually and include the following:
 1. A surgical log will be kept by the fellow and reviewed by the program director. The director will keep a summary of the year's surgical experience. The log will include diagnosis, surgery performed, and whether the fellow is first assistant or primary surgeon.
 2. Provide a list of conferences/lectures given by the fellow.

3. Provide a list of journal club subjects.
4. A list of submitted/published papers and papers/research projects presented at national meetings by members of the department including fellows.
5. Representative weekly schedule (multiple schedules, if changes in schedule occur significantly during the year). This shall include descriptions of each activity center, how the fellow functions within that activity, and the staffing or mechanism of supervision.
6. Documentation and verification material will be collected and evaluated by the CHP ACGME committee.

11. SETTING

Children's Hospital of Pittsburgh houses the Department of Pediatric Ophthalmology at The University of Pittsburgh Medical Center, which includes full-time and part time clinical and research faculty representing all ophthalmic specialties. Children's Hospital is the only pediatric tertiary health care provider in western Pennsylvania. The hospital is one of the largest pediatric facilities in the United States. It is certified as a Level I trauma center and serves as the major pediatric referral center for western PA, with a catchment area that extends into West Virginia and Ohio. The hospital serves many children with eye and visual system diseases. Fellows will be able to interact with professionals and patients from urban, suburban, and rural settings.

12. RRC/ACGME REQUIREMENTS

Fellowships in Pediatric Ophthalmology and Strabismus do not require formal RRC/ACGME accreditation. The Fellowship at CHP will meet the standards set by both the CHP and AAPOS guidelines for approved fellowship positions. These principals are parallel those that are used to define ACGME resident and fellow approved programs. This includes regular program, fellow, department and self evaluations

13. PREVIOUS TRAINEES AND POSITIONS

See above, Dr. Hertle has directed fellowships and trained 14 Fellows since 1990 at three institutions. All Fellowship training programs were AAPOS approved. The Fellowship would be a new program here at CHP.

14. MATCHING PROGRAM

The Fellowship will be part a National Matching program administrated by the San Francisco Matching Program (<http://www.sfmatch.org/>).

15. NATIONAL NEED

There are about 650 Fellowship trained physicians practicing full time Pediatric Ophthalmology and Strabismus in North America. Most pediatric eye care in this Country and Canada is provided by primary eye care professionals, i.e., Comprehensive Ophthalmologists and Optometrists. There a great need for formally trained pediatric eye care physicians in almost every US rural area. There is also a paucity of academic pediatric ophthalmologists as evidenced by the presence of multiple open academic positions.

16. CHP FACULTY AND SERVICE

At present there is only one full time Pediatric Ophthalmologist at CHP. This is the first full time Pediatric Ophthalmologist at CHP and The University of Pittsburgh. There is a rich history (decades) of community pediatric ophthalmology support of clinical care, education and research at CHP. There are presently six other community pediatric ophthalmologists who assist with clinical care, education and research at CHP and the University Department of Ophthalmology. They are all AAPOS members with clinical appointments at The University of Pittsburgh Department of Ophthalmology and are willing to participate in the education of the future CHP Fellows. We anticipate that within the next 2-3 years an additional full-time staff Ophthalmologist will be needed at CHP and would like the Fellowship program to be a candidate source for this position.

17. RESEARCH AND GRANT MONEY

We have a long history of successful participation in, and support of, research activity. Dr. Hertle is currently a Professor in the Department of Ophthalmology and has published over 100 papers, 25 chapters and a text book. Dr. Hertle is actively part of almost 10 million dollars of NEI/NIH support (P.I., steering committee, writing committee on NEI/NIH U10 Multicenter Grant, DSMC Committee Member of second NEI/NIH U10 Multicenter Grant, Vice-Chair on Executive Committee of a third U10 Multicenter Grant, Co-Investigator of an RO3 NEI/NIH awarded to Scientist in The Department of Pediatric Ophthalmology at CHP) and the Director of the Laboratory of Visual and Ocular Motor Physiology, in the Department of Pediatric Ophthalmology at CHP. We are active in obtaining grant support locally, and, from private organizations such as Fight for Sight.

18. PRIMARY FACULTY (See Attached Brief C.V.'s)

Richard W. Hertle MD
Kenneth P. Cheng, MD
Darren L. Hoover, MD

19. CONCLUSIONS

Our vision for this Fellowship Program is to create an environment that will provide the fellow with expert professional skills, career development and leadership mentoring in preparation for full time pediatric ophthalmology practice in either an academic or community setting.

ATTACHMENT A
FACULTY PUBLICATIONS (Recent)

Richard W. Hertle, M.D.

1. **Hertle, RW, Wilson MC:** Adjunctive Use of Alpha-chymotrypsin During Infantile Lensectomy and Vitrectomy. J Ped Ophthalmol Strab 2001;38;109-111.
2. Holmes, JM, Beck, RW, Repka, MX, Leske, DA, Kraker, RT, Blair, C, Moke, PS, Birch, EE, Saunders, RA, **Hertle, RW**, Quinn, GE, Simons, KA, Miller, JM for the Pediatric Eye Disease Investigator Group The Amblyopia Treatment Study Visual Acuity Testing Protocol Archives of Ophthalmology 2001;119;1345-1353.
3. **Hertle RW, Avallone JM, Cheeseman E, Tsilou EK,** Late Onset Oscillopsia In Patients with Congenital Nystagmus. Ophthalmology 2001;108;2301-2307.
4. **Hertle, RW, Maybodi, M., Mellow, SD, Yang, D.** Clinical and Oculographic Response to Tenuate Dospan (diethylpropionate) In A Patient With Congenital Nystagmus, American Journal Of Ophthalmology 2002;133;159-160.
5. Cryotherapy for Retinopathy of Prematurity Cooperative Group. Multicenter Trial of Cryotherapy for Retinopathy of Prematurity: Ophthalmologic Outcomes at 10 years of age. Arch Ophthalmol. 2001;119:1110-1118.
6. Cryotherapy for Retinopathy of Prematurity Cooperative Group. Effects of Retinal Ablative Therapy for Threshold Retinopathy of Prematurity: Results of Goldman Perimetry at the age of 10 years. Arch Ophthalmol. 2001;119:1120-1125.
7. Cryotherapy for Retinopathy of Prematurity Cooperative Group. Contrast Sensitivity at age 10 years in children who had Threshold Retinopathy of Prematurity. Arch Ophthalmol. 2001;119:1129-1133.
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12. **Hertle, RW, Dell'Osso, LF, FitzGibbon, EJ, Caruso RC, Butman J, Yang, D, Mellow SD.** Clinical, Radiographic and Electrophysiologic Findings In Patients with Achromia or Hypochromia. Neuro-Ophthalmology 2001, Vol.26, No.1, pp. 043-057
13. The Pediatric Eye Disease Investigator Group. A randomized trial of atropine vs patching for treatment of moderate amblyopia (Writing, Steering Committees). Archives of Ophthalmology 2002;120:268-278.
14. The Pediatric Eye Disease Investigator Group. The Clinical profile of moderate amblyopia in children younger than 7 years of age. Archives of Ophthalmology 2002;120:281-287 (Writing, Steering Committees).

15. **Hertle RW**, Maybodi, M, Reed GF, Guerami AH, Yang D, Fitzgibbon EJ. Latency of Dynamic and Gaze-Dependent Optotype Recognition in Patients with Infantile Nystagmus Syndrome versus Control Subjects. Ann N Y Acad Sci. 2002 Apr;956:601-603.).
16. **Hertle**, RW, Dell’Osso LF, FitzGibbon EJ, Miles FA, Thompson, D, Yang, D. Preliminary Results of Performing the Tenotomy Procedure on Ten Adults with Congenital Nystagmus (CN). Progress in Strabismology, Proceedings of the 9th Meeting of the International Strabismological Association Sydney, Australia – 17-20 April 2002. Editor: Jan-Tjeerd de Faber, Swets & Zeitlinger Publisher, 2003, Exton PA, pp 295-298.
17. **Hertle RW**, Editorial On Behalf of The National Eye Institute Sponsored Classification of Eye Movement Abnormalities and Strabismus Workshop. A Next Step In Naming and Classification of Eye Movement Abnormalities and Strabismus. J AAPOS. 2002 Aug;6(4):201-2
18. **Hertle RW**, Clinical Trials in Medicine and Surgery During the American Civil War (1861-1865). Proceedings of the 2002 Meeting of The Cogan Historical Society (2002)
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22. Stevens, DJ, **Hertle, RW**. Relationships Between Visual Acuity and Anomalous Head Position (AHP) in Patients with Congenital Nystagmus (CN). Journal of Pediatric Ophthalmology and Strabismus 2003;40;259-264.
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29. **Hertle RW**, Dell’Osso LF, FitzGibbon, EJ, Thompson DJ, Yang D, Mellow S. Horizontal Rectus Tenotomy In Patients with Congenital Nystagmus: Results In Ten Adults (Ophthalmology 2003;11;2097-2115)
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32. Depalo C, **Hertle RW**, Yang, D. Eight Muscle Surgical Treatment In A Patient With Acquired Nystagmus And Strabismus (Binocular Vision Quarterly, 2003:18;151-158)
33. **Hertle RW**, Kowal, LM Yeates, KO. The Ophthalmologist and Learning Disabilities, Focal Points (American Academy of Ophthalmology, In-Press, 2003)
34. The Pediatric Eye Disease Investigator Group A Randomized Trial of Prescribed Patching Regimens for Treatment of Severe Amblyopia in Children (Investigator, Writing and Steering Committees) Ophthalmology 2003;11;2075-2087.
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Darren L. Hoover, MD

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Kenneth P. Cheng, MD

1. Cheng KP: When to Prescribe Glasses for Young Children. Review of Ophthalmology 8:70-76, 2001
2. Cheng KP: Pediatric Intraocular Lens Implantation, in Duane's Clinical Ophthalmology 2002 Edition, Editors Tasmin W, and Jaeger EA. Lippincott Williams and Wilkins, Philadelphia, 2002
3. John T, Foulks GN, John ME, Cheng K, Hu D: Amniotic membrane in the surgical management of acute toxic epidermal necrolysis. Ophthalmology 109:351-360, 2002

ATTACHMENT B FACULTY PRESENTATIONS (Recent)

Richard W. Hertle, MD

1. Lecture and Grand Rounds Presentation: Clinical Trial of Extraocular Muscle Tenotomy on Patients with Congenital Nystagmus (CN): A Gift from “Man’s Best Friend.” **Hertle RW**, Dell’Osso, LF, FitzGibbon, EJ, Miles, FA, Thompson D, Yang, Mellow SD, Departments of Ophthalmology, Walter Reed Army Medical Center and The National Naval Medical Center, Bethesda, MD. 01/12/01
2. **Hertle RW**, Dell’Osso, LF, FitzGibbon EJ, Miles FA, Thompson, D, Yang, D. Horizontal Rectus Tenotomy in the Treatment of Congenital Nystagmus (CN) Results of a Study in Ten Adult Patients (Phase I) (Poster) The Annual Meeting of The American Association for Pediatric Ophthalmology and Strabismus, March 22, 2001 Orlando, FLA
3. Maybodi, M, **Hertle RW**, Reed, GF, Yang, D, Guerami, AH, Fitzgibbon, EJ. Latency of Static and Dynamic Optotype Recognition in Patients with Congenital Nystagmus (CN) Versus Control Subjects. (Poster) The Annual Meeting of The American Association for Pediatric Ophthalmology and Strabismus, March 22, 2001 Orlando, FLA
4. Panel Discussant/Presenter, Workshop, “Difficult Strabismus Problems”, Moderator Edward Buckley, M.D., 3/25/01, The Annual Meeting of The American Association for Pediatric Ophthalmology and Strabismus, Orlando, Florida.
5. Poster Presentation: **Hertle RW**, on Behalf of the CEMAS Working Group, Report of the National Eye Institute Sponsored Classification of Eye Movement Abnormalities and Strabismus (CEMAS) Workshop. 11/11/01, American Academy of Ophthalmology Annual Meeting, New Orleans LA
6. Poster Presentation: **Hertle RW**, Cotter S. on Behalf of the CEMAS Working Group, Report of the National Eye Institute Sponsored Classification of Eye Movement Abnormalities and Strabismus (CEMAS) Workshop. 12/9/01, American Academy of Optometry Annual Meeting, Philadelphia, PA
7. Lecturer: The Ocular Pathology Series Presented by The National Eye Institute, NIH October, 2000 and February, 2001.
8. Poster Presentation: **Hertle RW**, on Behalf of the CEMAS Working Group, Report of the National Eye Institute Sponsored Classification of Eye Movement Abnormalities and Strabismus (CEMAS) Workshop. 3/08/02, Postgraduate Symposium in Ophthalmology, The Ohio State University Department of Ophthalmology, Columbus, Ohio.
9. Poster Presentation: Avallone, JA, **Hertle RW**, on Behalf of the CEMAS Working Group, Report of the National Eye Institute Sponsored Classification of Eye Movement Abnormalities and Strabismus (CEMAS) Workshop. 3/21/02, The American Association for Pediatric Ophthalmology and Strabismus Annual Meeting, Seattle, WA.
10. Paper Presentation: **Hertle RW**, Chan, CC, Galita, DA, Maybodi, M, Crawford MA: Neuroanatomy of the Enthesial Area of Extraocular Muscle Tendons in Humans, Macaque, and Patients with Congenital Nystagmus. 3/21/02, The American Association for Pediatric Ophthalmology and Strabismus Annual Meeting, Seattle, WA.
11. Paper Presentation: Pediatric Eye Disease Investigator Group: The clinical profile of moderate amblyopia in children less than 7 years of age: Experience of the Amblyopia Treatment Study 1. 3/21/02, The American Association for Pediatric Ophthalmology and Strabismus Annual Meeting, Seattle, WA.

12. Workshop: Repka MX, Holmes JM, Beck RW, Birch EE, **Hertle RW**: Amblyopia Treatment Study # 1: Design and Six Month Outcome. 3/22/02, The American Association for Pediatric Ophthalmology and Strabismus Annual Meeting, Seattle, WA.
13. Paper Presentation: **Hertle RW**, Dell'Osso LF, FitzGibbon EJ, Miles FA, Thompson, D, Yang, D. Preliminary Results of Performing the Tenotomy Procedure on Adults with Congenital Nystagmus (CN), Paper Presentation, The 9th International Strabismological Association Meeting, 4/19/02, Sydney, Australia.
14. Seminar Lecture: **Hertle RW**, Nystagmus In Infancy and Childhood: Diagnosis and Treatment, 4/19/02, Sydney Children's Hospital, Sydney, Australia.
15. Workshop: Sprunger, D, Repka MX, **Hertle RW**, Taylor, D, Abel, L: Nystagmus. 4/22/02, XXIXth International Congress of Ophthalmology, Sydney, Australia.
16. Paper Presentation: **Hertle RW**, Chan, CC, Galita, DA, Maybodi, M, Crawford MA: Neuroanatomy of the Enthesial Area of Extraocular Muscle Tendons in Humans, Macaque, and Patients with Congenital Nystagmus. The Association for Research in Vision and Ophthalmology (Paper), Annual Meeting, 5/05/02-5/10/02, Ft. Lauderdale, FLA
17. Paper Presentation: Lerhaupt KE, **Hertle RW**, Mahan J: Ophthalmic Evaluation of Patients with Cystinosis While Using Topical Cysteamine in the Treatment of Corneal Cystine Crystal Accumulation. 2002 Ophthalmology Research Symposium, The Ohio State University Department of Ophthalmology, Columbus Ohio 6/7/02.
18. Paper Presentation: Stevens DJ, **Hertle RW**: Relations Between Visual Acuity and Anomalous Head Position in Patients with Congenital Nystagmus. 2002 Ophthalmology Research Symposium, The Ohio State University Department of Ophthalmology, Columbus Ohio 6/7/02.
19. Faculty: American Academy of Optometry and American Optometric Association Sponsored Summer Research Institute, Southern California College of Optometry, Fullerton, CA 8/7/02 through 8/11/02.
20. Lecture: Nystagmus In Infancy and Childhood, Southern California College of Optometry, Fullerton CA 8/6/02.
21. Lecture: Problems in Pediatric Ophthalmology, Allergan Corporation, Irvine CA, 8/6/02.
22. Lecture: Cortical Mechanisms of Amblyopia, Symposium: An Update on Pediatric Ophthalmology: Amblyopia and Mechanisms of Eye Movement Disorders in Congenital Esotropia, Cleveland Clinic Foundation, The Cole Eye Institute, The Department Of Ophthalmology, 08/24/02.
23. Lecture: Nystagmus In Infantile Esotropia – Types and Pathogenesis, Symposium: An Update on Pediatric Ophthalmology: Amblyopia and Mechanisms of Eye Movement Disorders in Congenital Esotropia, Cleveland Clinic Foundation, The Cole Eye Institute, The Department Of Ophthalmology, 08/24/02.
24. Paper Presentation: Clinical Trial Results of the Tenotomy Procedure on Patients with Congenital Nystagmus, The 22nd Annual Ophthalmological Conference, Grant Medical Center, Continuing Medical Education, 9/13/02, Columbus, Ohio.
25. Paper Presentation: Clinical Trial Results of the Tenotomy Procedure on Patients with Congenital Nystagmus, 10/23/02, American Academy of Ophthalmology Annual Meeting, Orlando, FLA.
26. Paper Presentation: Clinical Trials in Medicine and Surgery During the American Civil War (1861-1865), 10/22/02, American Academy of Ophthalmology Annual Meeting, Orlando, FLA.
27. Faculty, Joint Commission on Allied Health Personnel in Ophthalmology, Orlando, FLA: 10/21//98 course #10MO1, "Assessment of Vision in Preliterare Children". Granet D and **Hertle RW**.

28. Clinical/Basic Science Lectures, Pediatric Eye Diseases, Ohio State University College of Optometry, 2001-2002 Academic Year to Present.
29. Discussion of Paper by Yang, M et al “Large Vertical Rectus Muscle Surgery for Vertical Null Point Nystagmus”, 3/27/03, The Annual Meeting of The American Association for Pediatric Ophthalmology and Strabismus, Waikoloa, HA.
30. Paper Presentation, Maybodi, M, Hertle RW, Reed, G, Yang, D, Fitzgibbon EJ. “Latency of Dynamic and Gaze Dependent Optotype Recognition in Infantile Nystagmus Syndrome Patients versus Control Subjects”, Fellowship Research Award Winning Paper, The Annual
31. .03Meeting of The American Association for Pediatric Ophthalmology and Strabismus, Waikoloa, HA
32. Course Presentation, 3/25/03, **Hertle RW**, Rogers, GL, Five Operations for Nystagmus You Can Take Home, Indications and Surgical Procedures, The Annual Meeting of The American Association for Pediatric Ophthalmology and Strabismus, Waikoloa, HA
33. Course Presentation, 3/25/03, Amblyopia Treatment Studies, Repka, MX, Holmes J, **Hertle RW**. The Annual Meeting of The American Association for Pediatric Ophthalmology and Strabismus, Waikoloa, HA
34. Poster Presentation, **Hertle RW**, Stevens, D. The Visual Acuity Relationship to Anomalous Head Position (AHP) in Patients with Infantile Nystagmus Syndrome.” The Annual Meeting of The American Association for Pediatric Ophthalmology and Strabismus, Waikoloa, HA
35. Poster Presentation, Cotter, SA, Chu, RH, Chandler, D, Beck RW, Holmes JM, Rice ML, **Hertle RW**, Birch E, Moke, PS. Reliability of the Electronic-ETDRS Testing Protocol in Children 7 to < 13 Years Old. The Annual Meeting of The American Association for Pediatric Ophthalmology and Strabismus, Waikoloa, HA
36. **Hertle RW**, Dell’Osso, LF, FitzGibbon EJ, Miles FA, Thompson, D, Yang, D. Horizontal Rectus Tenotomy in the Treatment of Congenital Nystagmus Results of a Phase I Study in Ten Adult Patients (Paper)ARVO Annual Meeting, May 8, 2003, Fort Lauderdale, FLA.
37. Jacobs, JB, Dell’Osso, LF, **Hertle RW**, Bennett J, Acland G, Gene Therapy to abolish congenital nystagmus in RPE65-Deficient Canines, (Paper)ARVO Annual Meeting, May 8, 2003, Fort Lauderdale, FLA
38. Yang, D, **Hertle RW**, Gaze Dependent optotype recognition in Infantile Nystagmus (INS) Patients, (Poster)ARVO Annual Meeting, May 6, 2003, Fort Lauderdale, FLA.
39. Stevens DJ, **Hertle RW**, The visual acuity relationship to anomalous head position in patients with congenital nystagmus. (Paper)ARVO Annual Meeting, May 6, 2003, Fort Lauderdale, FLA
40. **Hertle RW**, Moderator for Platform Session; Clinical Trials at ARVO Annual Meeting, May 8, 2003, Fort Lauderdale, FLA
41. **Hertle RW**, Course 2061, Visual Rehabilitation of Pediatric Cataracts, East-West Eye Conference 2003, 10/24/03, Cleveland, Ohio .
42. **Hertle RW**, Course 2063, Diagnosis and Management of Pediatric Glaucoma, East-West Eye Conference 2003, 10/24/03, Cleveland, Ohio
43. **Hertle RW**, Course 2056, Nystagmus and Eye Movement Disorders In Infancy and Childhood, East-West Eye Conference 2003, 10/24/03, Cleveland, Ohio
44. **Hertle RW**, Nystagmus in Infancy and Childhood, Association for Education and Rehabilitation of the Blind and Visually Impaired, Regional Meeting, Deer Creek State Park, November 7, 2003
45. Course Presentation, #533, 11/17/03, **Hertle RW**, Sprunger, D. Five Operations for Nystagmus You Can Take Home, Indications and Surgical Procedures, The Annual Meeting of The American Academy of Ophthalmology, Anaheim CA.

46. Breakfast with the experts, B131, Surgical Treatment of Nystagmus, 11/16/03, **Hertle RW**, The Annual Meeting of the American Academy of Ophthalmology, Anaheim, CA.
47. Faculty, Joint Commission on Allied Health Personnel in Ophthalmology, Orlando, FLA: 11/16//03 course #83084, "Assessment of Vision in Preliterare Children". Granet D and **Hertle RW**.
48. Faculty, Symposium on Amblyopia, Pathophysiology and Classification of Amblyopia, SYM10, 11/17/03, **Hertle RW**, The Annual Meeting of the American Academy of Ophthalmology, Anaheim, CA.
49. Paper Presentation, **Hertle RW**, Clinical and Ocular Motor Response to EOM Surgery In Patients with Congenital Nystagmus, International Pediatric Ophthalmology and Strabismus Meeting, Anaheim Coast Hotel, 11/15/03.
50. Paper Presentation: **Hertle RW**, Dell’Osso, LF, FitzGibbon, EJ, Thompson, D Yang, D, Mellow SD. Horizontal Rectus Tenotomy in the Treatment of Infantile Nystagmus Syndrome. The Annual Meeting of The American Association for Pediatric Ophthalmology and Strabismus, Washington D.C., 2004.
51. Paper Presentation, **Hertle RW**, Yang, D, Hill VM. Clinical and Electrophysiological Effects of Extraocular Muscle Surgery on 75 Patients with Infantile Nystagmus Syndrome (INS), ARVO Annual Meeting, April 27, 2004, Fort Lauderdale, FLA
52. Paper Presentation, Yang D, **Hertle RW**, Hill VM. Vertical Optokinetic Nystagmus (OKN) and Binocular Motion Rivalry: Role of OKN Internal Gain, ARVO Annual Meeting, April 27, 2004, Fort Lauderdale, FLA
53. Poster Presentation, Hill VM, Yang, D **Hertle RW**. Gaze-Dependent, Time Restricted Visual Acuity In Patients with Infantile Nystagmus Syndrome, ARVO Annual Meeting, April 27, 2004, Fort Lauderdale, FLA
54. Moderator, Scientific Session, #329, Nystagmus and Saccadic Oscillations, ARVO Annual Meeting, April 27, 2004, Fort Lauderdale, FLA
55. Paper Presentation, Kelly, K, **Hertle RW**, Yang, D, Atkin J, Seward A, Shatnawi R, Hill, V. X-Linked Infantile Periodic Alternating Nystagmus, The Department of Ophthalmology Annual Research Symposium, June 4, 2004, The Ohio State University Columbus, Ohio.
56. Paper Presentation, Anninger W, **Hertle RW**, Yang, D, Hill, V. Clinical and Electrophysiological Effects of Extraocular Muscle Surgery on 15 Patients with Oculo-Cutaneous Albinism and Infantile Nystagmus Syndrome, The Department of Ophthalmology Annual Research Symposium, June 4, 2004, The Ohio State University Columbus, Ohio.
57. Paper Presentation, Deasy, R, **Hertle RW**, Yang, D, Hill, V. The Use Of Infrared Digital Photography To Detect Iris Transillumination In Patients with Albinism, The Department of Ophthalmology Annual Research Symposium, June 4, 2004, The Ohio State University Columbus, Ohio.
58. January 18, 2001 “Ophthalmic Injuries and Civil War Medicine.” The Washington Historical Society, Quarterly Meeting, The Uniformed Services Health Science Center, Bethesda, MD.
59. February 21, 2001 “Acquired Esotropias” The Washington Ophthalmology Residency Consortium, The Washington Hospital Center, Washington, D.C.
60. June 23, 2001 – Keynote Address, “Nystagmus In Infancy and Childhood: Understanding Diagnosis, Treatment and Visual Implications” American Nystagmus Network, 2001 Conference Bloomington, MN.
61. August 23, 2001 - Grand Rounds and Lecture, “Nystagmus in Infancy and Childhood – New treatment Approaches”, The Ohio State University, Department of Ophthalmology, The William Havener Eye Center, Columbus, Ohio.

62. September 19, 2001 – Visiting Professor Series, Children’s Hospital of Columbus and The Central Ohio Pediatric Society Meeting, COPS Dinner Meeting, “Ocular Torticollis or Anomalous Head Postures Due To Visual System Disease”, Columbus, Ohio.
63. September 20, 2001 – Visiting Professor Series, Children’s Hospital of Columbus and The Central Ohio Pediatric Society Meeting, Medical Grand Rounds, “Primary Care Vision Testing and Screening: Policies and Procedures”, Columbus, Ohio.
64. September 20, 2001 – Visiting Professor Series, Children’s Hospital of Columbus and The Central Ohio Pediatric Society Meeting, Visiting Professor Luncheon, “The Emergency Eye Exam in a Crying Baby”, Columbus, Ohio.
65. September 28, 2001 – Conference, “New Horizons in Pediatric and Adolescent Plastic Surgery”, Sponsored By The Cleveland Clinic, Department of Plastic and Reconstructive Surgery – Lecture “Advance Concepts in Pediatric Eye Disease and Vision Rehabilitation Strategies in Children with Major Craniofacial Malformations”, Cleveland, Ohio.
66. December 1, 2001, Lecture: “Infant Anterior Segment Disease” Optometric Educators, Inc. Conference Sponsored By The Ohio State University College of Optometry, The Holiday Inn, Columbus Ohio.
67. April 7, 2002 – Lecture, “Clinical Trials in Medicine and Surgery During The Civil War” Cogan Ophthalmic History Society Meeting, Harriman New York.
68. July 31, 2002_ Lecturer-Moderator, Walter Reed Army Medical Center Department of Ophthalmology Sponsored, Pediatric Ophthalmology Journal Club, “Nystagmus In Infancy and Childhood”, Washington, D.C.
69. December 2, 2002 – Visiting Scholar - Lecturer, The University of Alabama in Birmingham School of Optometry, “Nystagmus In Infancy and Childhood”, Birmingham , Alabama.
70. February 1, 2003 – Lecturer, The Ohio Ophthalmological Society Annual Meeting, “Ocular Syndromes with Systemic Involvement,” Dublin, Ohio.
71. January 13, 2004 – Visiting Professor of Ophthalmology, Wills Eye Hospital, Philadelphia PA.
72. May 5, 2004 – Arthur W. Stickle, M.D., Pediatric Ophthalmology Lecture and Visiting Professor, Department of Ophthalmology and Children’s Hospital, Washington University Medical Center, St. Louis, MO

Darren L. Hoover, MD

1. Diagnoses You Don't Want to Miss: Ocular Clues to Systemic Diseases, Grand Rounds, Alleghany General Hospital Department of Pediatrics, Pittsburgh, PA, 16/26/2001.
2. Acquired Esotropia in a 12 Year Old Female. Case Report to the Pediatric Ophthalmology Conference, Migis Lodhe, Lake Sebago, ME, 9/28/2002.
3. Childhood Esodeviations. Pediatric Update 2002. The Western Pennsylvania Hospital Department of Pediatrics. 10/3/2002.
4. Childhood Esodeviations. Primary Care Through the Lifespan. UPMC Health System, Sheraton Station Square, Pittsburgh PA 10/4/2002.
5. Third and Fourth Cranial Nerve Palsies. Spring Update on Ocular Disease. Ohio Valley General Hospital, Pittsburgh PA, 4/25/2004.
6. Introduction of Pediatric Ophthalmology. Noon Conference, Children's Hospital of Pittsburgh, Pittsburgh PA, 6/15/2004.

Kenneth P. Cheng, MD

1. Ophthalmology for the School Nurse Practitioner KP Cheng Inservice: Pittsburgh Public School District Pittsburgh, PA February 1, 2001
2. Cataract: Complications and Solutions (How to Get Out of Trouble) E Crouch, KP Cheng, E Buckley, M Del Monte, D Plager, ME Wilson American Association for Pediatric Ophthalmology and Strabismus (AAPOS) 2001 Annual Meeting Orlando, FL March 23, 2001
3. Common Pediatric Eye Disorders in Primary Care KP Cheng Management of the Childbearing-Age family in Health and Illness Duquesne University (Nurse Practitioner Program) Pittsburgh, PA April 12, 2001
4. Timely Trauma Topics: Ocular Trauma KP Cheng Children's Hospital of Pittsburgh, PA October 5, 2001
5. Retinopathy of Prematurity – Review and Current Research KP Cheng Pediatrics Grand Rounds Children's Hospital of Pittsburgh, PA October 25, 2001
6. Lectures in Pediatric Ophthalmology KP Cheng University of Pittsburgh Ophthalmology Resident Lecture Series , 2001
7. Cataract: Complications and Solutions (How to Get Out of Trouble) E Crouch, KP Cheng, E Buckley, M Del Monte, D Plager, S Pressman American Association for Pediatric Ophthalmology and Strabismus (AAPOS) 2002 Annual Meeting Seattle, WA March 22, 2002
8. Common Pediatric Eye Disorders in Primary Care KP Cheng Management of the Childbearing Age Family in Health and Illness Duquesne University – Graduate Nursing Course April 4, 2002
9. Lectures in Pediatric Ophthalmology KP Cheng University of Pittsburgh Ophthalmology Resident Lecture Series , 2002
10. Pediatric Ocular Trauma Guidelines for Pediatricians KP Cheng Children's Hospital of Pittsburgh Adolescent Medicine Program – Department of Pediatrics March 13, 2003
11. Common Pediatric Eye Disorders in Primary Care KP Cheng Management of the Childbearing Age Family in Health and Illness Duquesne University – Graduate Nursing Course April 24, 2003
12. Strabismus and Common Problems in Pediatric Ophthalmology KP Cheng Family Nurse Practitioner Course University of Pittsburgh – School of Nursing July 7, 2003

13. Ocular Trauma and Common Problems in Pediatric Ophthalmology KP Cheng Pediatrics Grand Rounds Mercy Hospital – Department of Pediatrics August 5, 2003
14. Lectures in Pediatric Ophthalmology KP Cheng University of Pittsburgh Ophthalmology Resident Lecture Series, 2003
15. If My ROP is Resolved, Why Can't my Baby See Well? KP Cheng Conference – Low Vision and Blindness in Infants and Children with Special Emphasis on Cortical Vision Impairment Pittsburgh, PA June 3 – 6, 2004
16. Strabismus and Common Problems in Pediatric Ophthalmology KP Cheng Family Nurse Practitioner Course University of Pittsburgh – School of Nursing June 14, 2004
17. Lectures in Pediatric Ophthalmology KP Cheng University of Pittsburgh Ophthalmology Resident Lecture Series, 2004

ATTACHMENT C
REPRESENTATIVE MONTHLY SCHEDULE FOR FELLOW

	MONDAY 1 & 5	TUESDAY 1 & 5	WEDNESDAY 1 & 5	THURSDAY 1 & 5	FRIDAY 1 & 5
AM	SURGERY	OFFICE	OFFICE	RESEARCH	ADULT SURGERY
PM	OFFICE/ROP	SURGERY	SURGERY	ADULT MOTILITY	OFFICE
	MONDAY 2	TUESDAY 2	WEDNESDAY 2	THURSDAY 2	FRIDAY 2
AM	SURGERY	SURGERY	OFFICE	RESEARCH	OFFICE
PM	OFFICE/ROP	OFFICE	SURGERY	ADULT MOTILITY	SURGERY
	MONDAY 3	TUESDAY 3	WEDNESDAY 3	THURSDAY 3	FRIDAY 3
AM	SURGERY	SURGERY	OFFICE	RESEARCH	ADULT SURGERY
PM	OFFICE/ROP	OFFICE	SURGERY	ADULT MOTILITY	ADULT SURGERY
	MONDAY 4	TUESDAY 4	WEDNESDAY 4	THURSDAY 4	FRIDAY 4
AM	SURGERY	SURGERY	OFFICE	RESEARCH	OFFICE
PM	OFFICE/ROP	OFFICE/JOURNL CLUB	SURGERY	ADULT MOTILITY	SURGERY
	WEEK 1 AND 5	5 OUTPT SESSIONS	4 SURGERY	1 RESEARCH	
	WEEK 2	5 OUTPT SESSIONS	4 SURGERY	1 RESEARCH	
	WEEK 3	4 OUTPT SESSIONS	5 SURGERY	1 RESEARCH	
	WEEK 4	5 OUTPT SESSIONS	4 SURGERY	1 RESEARCH	JOURNAL CLUB
	40 PER/MONTH	19 CLINIC SESSIONS	17 SURGERY	4 RESEARCH	1 JOURNAL CLUB