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**PERSONAL:** Born: March 14, 1958 in Rochester, Minnesota  
Married to Konstance Arnold-> Andrew William (11/26/91) and Laura Ellen [Martin](6/24/96)  
Licensed in Alaska (AA2439), {prior: Minnesota (29,301), Indiana (01036655)}  
Certified: American Board of Ophthalmology 1990  
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**EDUCATION:** Sehome High School, Bellingham, Washington (1971-1976)  
University of Washington, Seattle, Washington (1976-1977)  
University of Alaska, Fairbanks, Alaska (1977-1980) B.S. Chemistry *magna cum laude*  
Yale University School of Medicine, New Haven, Conn. (1980-1984) M.D.  
Mayo Graduate School of Medicine, Rochester, Minnesota  
Internship (medicine, neurology, pediatrics) (1984-1985)  
Ophthalmology Residency (1985-1988) Chief Resident 3/88 to 7/88.  
Indiana University, Indianapolis (Helveston, Ellis & Plager)  
Pediatric Ophthalmology Fellowship (1988-1989)

**WORK:** Commercial Fisherman (salmon, halibut, herring) Alaska (1976-81)  
Resident Advisor, Stevens Hall, University of Alaska (1978-80)  
Arnold Custom Knives (1975-present) - Arnold Custom Reflex Hammers and Occluders (1984-89)  
Ophthalmic Associates Pediatric Ophthalmologist (September 1989-2013)  
Secretary (91-95), Vice President (1/96-06), President (07- 8)  
Alaska Summer Emergency Ophthalmology Program, Coordinator (1992- )  
Glacier Medical Software, Inc, Lead Concept Designer (2005-) President (2010-2023)  
Alaska Children's Eye & Strabismus;- (2014- ), President (2014-2017 )  
PDI Check, LLC (2017- ), President (2018- ),  
Patent US 11,291,362 (4/5/22) "Systems and Methods for Eye Evaluations and Treatment"

**MEMBER:** Alaska State Medical Association (1989-2019)  
Alaska Eye [Education] Meeting (director) 1990-  
American Academy of Ophthalmology, Fellow 1991  
American Academy of Pediatrics- Ophthalmology Section Fellow (2010- )  
American Association for Pediatric Ophthalmology and Strabismus, Fellow 1992-  
Journal of Pediatric Ophthalmology and Strabismus Editorial Board (2002- )Top 10 (2019,20)  
Journal Clinical Ophthalmology Editorial Board (2024- ), CHILDREN Editorial Board (2026- )  
Clear Water Church (2018- ) Missions Chair (2023- ), Myanmar Christian Fellowship (2015- )  
Alaska Surgery Center (2014- ), Physicians Advisory Board (2015- ), Building Committee (2019-21)

**HONORS:** Elks Club scholarship (1976), *magna cum laude*, Phi Kappa Phi, Joel Wiegert graduating man & chemistry awards and captain of ski team, Univ. of Alaska (1980)  
Executive committee and editor, Yale Journal of Biology and Medicine (1980-84)  
National Children's Eye Care Foundation research grant #88-R-001, 1988-89.  
Listed in Best Doctors in America (1996, 2009, 13-16, 17-18, 19-20); www.groupz.net/BestDoctors  
Alaska Infant Learning Community Service Award 2000  
Lions Club "Melvin Jones Fellow" 5/11/00, 4/24/2010  
PEDIG ATS2 (5/7/01, 11/01), ETS-1 (7/04) Recruitment Award  
AAPOS: Honor Award (2000), Senior Honor Award (2014), Lifetime Achievement Award (2021)  
Anchorage Education Association: "Friend of Education 2007-8  
Free Burma Rangers Meritorious Service Award 8/17/2014, Service medal 16-years 2016.  
AAP Special Achievement Award (for ABCD) 11/13/2018  
ATM Reviewer of the Month: <https://atm.amegroups.com/post/view/reviewer-of-the-month-2022>

**INTERESTS:** Cross country ski racing, Bible Study, remote eye missions, personal computing, mountaineering, art, wood-working, meat hunting, cooking and video-photography.

PUBLICATIONS: *H-index RG 28 (25 scopus) RG 38.30*

- Arnold RW: Respiratory Physiology III. International review of physiology, Volume 23. Yale Journal of Biology and Med. 54(3): 237-238, 1980
- Arnold RW: Wood injurious to human health. A manual (book review) Yale Journal of Biology and Med. 55(2), 1982.
- Arnold RW: Airborn and allergic pollen of North America (book review). Yale Journal of Biology and Med. 57(4), 1983.
- Arnold RW: Diving and Asphyxia (Book Review). Yale Journal of Biology and Med. 57: 715-6, 1984
- Arnold RW: "Modifications in the vasomotor component of the human diving response," M.D. Thesis (Yale) 1984.
- Arnold, R.W. Modifications in the vasomotor arm of the human diving response. In The Physiology of Breath-Hold Diving, Lundgren, C.E. and Ferrigno, M. eds., U.H.M.S., Baltimore, pp. 188-199, 1987.
- Arnold, R.W:** Extremes in human breath hold facial immersion bradycardia. Undersea Biomed Res 12:183-190, 1985.
- Arnold, R.W:** A vasomotor comparison of the human diving response and the cold pressor test. Alaska Med 28: 5-8, 1986.
- Arnold, R.W.,** Stickler, G.B., Bourne, W.M., Mellinger, J.F. Corneal crystals, myopathy and nephropathy: a new syndrome? J.Ped.Ophthalmol. & Strab. 24: 151-155, 1987. {Reprinted in Urology Digest: 3-5, April 1988, Ophthalmology Digest: 3-5, April 1988 }
- Arnold, R.W., Dyer, J.A., Low, P.A. The oculo-cardiac reflex: correlations with other cardiac vagal maneuvers. Invest. Ophthalmol(abstr) 28(3): 35, 1987.
- Arnold, R.W., Hoffman, A.D., Brutinel, W.M., "Barbie" Doll Curler Aspiration into the Upper Trachea, Am. J. Dis. Child. 141:1325-1326, 1987.
- Arnold, R.W., Hoffman, A.D., Brutinel, W.M., Inhalation de bigoudi de poupee Barbie dans la trachee haute. J de Peditre. 7: 74-75, 1988.
- [Arnold, R.W., Dyer, J.A., Holton, S.] Contact Lenses: A sight for sore eyes unless you use them properly, Mayo Clinic Health Letter 6(6): 2-4, 1988.
- Arnold, R.W., Hohberger, G.G., Gould, A.B. The Oculocardiac Reflex in Identical Twins.(letter) Archives Ophthalmol. 106:879, 1988.
- Arnold, R.W., Low, P.A., Dyer, J.A., Gould, A.B., Hohberger, G.G. Differential vasovagal sensitivities to several autonomic maneuvers in humans. Ann. Neurol. 24:164, 1988. (abstract)
- Arnold R.W. and Erie, J.C., Magnetic Forceps for Corneal Foreign Bodies(letter). Arch. Ophthalmol. 106:1502, 1988.
- Arnold R.W.,** Adams, B.A., Camoriano, J.K., Dyer, J.A., Acquired Divergent Strabismus: presumed metastatic gastric carcinoma to the medial rectus muscle. J. Ped. Ophthalmol. Strab. 26:50-51, 1989.
- Arnold RW, Stickler GB: Patient follow-up-Cystinosis(letter). J Ped Ophthalmol Strab 26:145, 1989.
- Arnold RW: Shaken Baby Syndrome, Photo of the Month, Ophthalmol Times 15(3):23-24,1990
- Arnold RW: Quantification of afferent pupillary defect by double polarized filter. (letter), Arch Ophthalmol 108:1666-1667, 1990.
- Steiner GC, **Arnold RW**, Roth RR, Ice JS: Stevens-Johnson syndrome secondary to ingestion of salmon berries. Alaska Med 33:57-59,1991.
- Arnold RW**, Dyer JA, Gould AB, Hohberger GG, Low PA: Sensitivity to vasovagal maneuvers in normal teenagers and adults. **Mayo Clin Proc** 66:797-804,1991.
- Arnold RW**, Crouch EE: An Emergency Corneal Ulcer Kit. Alaska Med 33(4):151-153. 1991
- Arnold RW:** Pseudo Slipped Muscle due to medial rectus palsy. J Ped Ophthalmol Strab 29(3):189-190, 1992.
- Arnold RW**, Ellis FD, Helveston EM: Diplopia and Transdermal Scopolamine: A Case Report. Am Orthoptic J 42:183-184, 1992
- Arnold RW**, Sprunger DT, Engel WK, Helveston EM: The effect of wrist rest, caffeine and oral timolol on hand steadiness of ophthalmologists. Ann Ophthalmol. 25(7):250-253, 1993.
- Arnold RW**, Schriever G: Lyme Amaurosis in a Child. J Pediatr Ophthalmol Strab. 30(4):268-270, 1993.
- Arnold RW**, Nadel EN: The attenuating effect of heat and hypovolemia on the human diving response. Alaska Med 35(2):199-203, 1993.
- Arnold RW**, Nadel EN: The effect of peripheral vasodilators on the human diving response. Alaska Med 35(2):204-208, 1993.
- Arnold RW:** Vision screening in Alaska: Experience with Enhanced Brückner Test. Alaska Med 35(2): 212-215, 1993.
- Arnold RW**, Kesler K, Avila E: Susceptibility to ROP in Alaskan Natives. J Pediatr Ophthalmol Strab 31:192-194, 1994
- Arnold RW, Armitage MD: Your Child's Vision- Amblyopia. Alaska Parenting News January: 16, 1994
- Arnold RW: Myopia following scleritis[letter]. Ophthalmic Surgery 25(7):485, 1994.
- Arnold RW**, Gould AB, Mackenzie R, Dyer JA, Low PA: Lack of global vagal propensity in oculocardiac reflex patients. **Ophthalmology** 101(8):1347-1352, 1994. {UI# 94336166}
- Arnold RW:** Posterior Retinopathy of Prematurity cryotherapy from a limbal reference. J Pediatr Ophthalmol Strab 31:303-305,1994.
- Arnold RW, Armitage MD: Your Child's Vision-The importance of tears. Alaska Parenting News. Feb:6, 1995
- Arnold RW:** Bilateral monocular silicone loop: Predictable home removal of nasolacrimal stents. J Pediatr Ophthalmol Strabismus. 32:200-201, 1995.

Arnold RW: ROP: Treating the Vast Expanse. Proceedings of the International Conference on Retinopathy of Prematurity, Chicago, November 18-19, 1993, Ed by Shapiro MJ, Biglan AW, Miller MT, Kugler Publications, Amsterdam/NY, 1995, pp 163-165.

**Arnold RW**, Coon L, Reber P, Armitage MD: Collaborative visual rehabilitation: high astigmatism, esotropia and elevator palsy, *Alaska Medicine* 1995; 37(3):88-90.

Arnold RW: A manicure for difficult Crawford intubations. Ch 2, Sect IX Ocular Adnexa, Anterior Segment, Intraocular Pressure. Update on Strabismus and Pediatric Ophthalmology-Proceedings of the Joint Congress ISA & AAPOS, Gunnar Lennerstrand, Editor, CRC Press, Boca Raton, Florida, 1995, pp 455-457.

Arnold RW: Bilateral, monocular Crawford loop: Simple removal for remote patients. Ch 2, Sect IX Ocular Adnexa, Anterior Segment, Intraocular Pressure. Update on Strabismus and Pediatric Ophthalmology-Proceedings of the Joint Congress ISA & AAPOS, Gunnar Lennerstrand, Editor, CRC Press, Boca Raton, Florida, 1995, pp 458-461.

Arnold RW: Instead of "A spoon full of sugar..." *Binoc Vis Eye Muscle Surgery* 1995; 10(2):95.

Arnold RW, Armitage MD: Your Child's Vision-Warning Signs. *Alaska Parenting News*, April 1995, p 24-25.

Arnold RW, Armitage MD: Photoscreening your toddler. *Alaska Parenting*, April 1996, p22, 29.

**Arnold RW**, Rosen CE, List J, Johnson E, Hoffman RO: Neonatal respiratory distress from bilateral cryptic dacryoceles. *Alaska Med* 38(3):86-88, 1996

**Arnold RW**, Armitage MD, Rosen CE, Younger BR: Head tilt due to See-Saw nystagmus. *Am Orthoptic J* 46: 181-184, 1996.

**Arnold RW**, Wolfe TM, Albrecht W, Haselby KA, McNiece WL, Plager DA, Ellis FD, Helveston EM: Deep inhalational anesthesia without anticholinergic reduces the oculocardiac reflex. *Binocular Vision & Strabismus Quarterly* 11(4):281-288, 1996.

Arnold RW: ROP Blindness: An epidemic among smallest Alaskans. *Alaska Parenting* 5(4): 31-32, April 1997.

**Arnold RW**, Wolfe TM, Ellis FD: Prolonged oculocardiac reflex in strabismus surgery under topical anesthesia. *J Pediatr Ophthalmol Strab* 34(4): 252-254, 1997.

Tychsen L, Wilson E, Hutchinson AK, Arnold RW, Wright KW, Rosenbaum AL: Consultation Section: Bilateral Mature Cataracts, Ed by DD Shepard. *Annals Ophthalmol Glaucoma* 29(4): 214-218, 1997.

**Arnold RW**: Tundra Swan Strabismus Retractor. *JAAPOS* 2(3):184-185, 1998

**Arnold RW**, Little J, Greenwald MJ: Transient visual loss and subconjunctival hemorrhage due to a "Hopper" : *JAAPOS* 3:61-62, 1999.

Arnold RW: Aperature drapes in strabismus surgery-comment (letter). *Binocular Vis Strabismus Qtrly* 13(1): 6, 1988.

**Arnold RW**, Janis B, Wellman S, Crouch E, Rosen C: Palinopsia with bacterial brain abscess and Noonan Syndrome. *Alaska Med* 41(1): 3-7, 1999.

Stump M, **Arnold RW**: Iris color does not predict the oculocardiac reflex. *Binoc Vis Quarterly* 14(2): 111-116, 1999.

Arnold RW, Armitage MD: Keeping a close eye on Alaska's kids. *Alaska Parenting* 7(11):7,9, 1999.

**Arnold RW**: The human heart rate response profiles to five vagal maneuvers. *Yale Journal of Biology and Medicine*, 72:237-44, 2000.

**Arnold RW**, Gionet E, Jastrzebski A, Kovtoun TA, Machida CJ, Armitage MD, Coon LJ: The Alaska Bind Child Discovery Project: rationale, methods and results of 4000 screenings. *Alaska Med.* 42:58-72, 2000.

**Arnold RW**, Sitenga G: The detection of congenital glaucoma by photoscreening. *Alaska Medicine* 42:73-77, 2000.

Arnold RW, Fierstein KF: Are vision screening devices accurate and reliable for use in pediatricians' offices to test children younger than 4 years old?: Con. *Pediatric News (solicited counter-point)* 2000

**Arnold RW**, Barnett M, Limstrom SA, Swanson D: Vision loss associated with a stiff neck complicating strabismus surgery. *Binocular Vis Strabismus Qtrly* 16(3):181-186, 2001.

Kushner BJ, Arnold RW, Clarke WN, Marmor MA, Murray ADN, Wheeler DT: Grand Rounds #64: A case of deterioration of ocular motility in a patient with type 1 Duane Syndrome after contralateral orbital decompression. *Binocular Vis Strabismus Qtrly* 16(4):272-279, 2001.

PEDIG. A randomized trial of atropine vs patching for treatment of moderate amblyopia in children. *Arch Ophthalmol* 2002;120(3):268-78.

Lang DM, **Arnold RW**. Severe eye trauma in boys caused by girls' headbands. *Alaska Med* 2002;44(2):27-29.

PEDIG. The clinical profile of moderate amblyopia in children younger than 7 years. *Arch Ophthalmol* 2002;120:281-7.

**Arnold RW**. Use of a consumer video system to enhance low vision in children and adults. *JPOS* 2002;39(4):245-47.

**Arnold RW**, Farah RS, Monroe G: The attenuating effect of intraglossal atropine on the oculocardiac reflex, . *Binocular Vis Strabismus Qtrly* 17(4):313-318, 2002

**Arnold RW**. The phoropter trapeze: portable refractive support for remote clinics. *Binoc Vis Strabis Binocular Vis Strabismus Qtrly* 18(1):26-27, 2003.

Arnold RW: Adverse events in cataract surgery (letter). *Ophthalmol* 110(2):248, 2003.

Machida CJ, **Arnold RW**: The effect of tension and fatigue on the oculocardiac reflex. *Binocular Vision Strabismus Qtrly* 18(2):81-86, 2003.

Donahue SP, **Arnold RW**, Ruben JB: Preschool vision screening: What should we be detecting and how should we report it? Uniform guidelines for reporting results from studies of preschool vision screening. *J AAPOS* 7(5):314-315, 2003.

**Arnold RW**. Highly specific photoscreening at the Alaska State Fair: Valid Alaska Blind Child Discovery photoscreening and interpretation. *Alaska Med* 45(2):34-40, 2003.

**Arnold RW**. Macular hole without hemorrhages and shaken baby syndrome: practical medicolegal documentation of children's eye trauma. *JPOS* 40(6):355-357, 2003.

PEDIG. A randomized trial of patching regimens for treatment of moderate amblyopia in children. *Arch Ophthalmol* 2003;121:603-611.

PEDIG. A comparison of atropine and patching treatments for moderate amblyopia by patient age, cause of amblyopia, depth of amblyopia and other factors. *Ophthalmol* 2003;110:1632-1638.

PEDIG. The course of moderate amblyopia treated with atropine in children: experience of the amblyopia treatment study. *Am J Ophthalmol* 2003;136:630-9.

PEDIG. The course of moderate amblyopia treated with patching in children: experience of the amblyopia treatment study. *Am J Ophthalmol* 2003;136:620-9.

PEDIG, Holmes JM, Beck RW, et al. Impact of patching and atropine treatment on the child and family in the amblyopia treatment study. *Arch Ophthalmol* 2003;121:1625-32.

PEDIG, Holmes JM, Kraker RT, et al. A randomized trial of prescribed patching regimens for treatment of severe amblyopia in children. *Ophthalmology* 2003;110:2075-87.

PEDIG, Repka MX, Beck RW, et al. A randomized trial of patching regimens for treatment of moderate amblyopia in children. *Arch Ophthalmol* 2003;121:603-11.

Kovtoun TA, **Arnold RW**: Calibration of photoscreeners for threshold contact- induced hyperopic anisometropia: Introduction of the JVC photoscreeners. *JPOS* 41(3):150-158, 2004.

**Arnold RW**, Gionet EG, Hickel J, Owen M, Armitage MD. Duration and effect of single-dose atropine: paralysis of accommodation in penalization treatment of functional amblyopia. *Binoc Vis and Strabismus Quart* 19(2):81-86, 2004.

**Arnold RW**: Pseudo-false positive eye/vision photoscreening due to accommodative insufficiency. A serendipitous benefit for poor readers? *Binoc Vis and Strabismus Quart* 19(2):75-80, 2004.

**Arnold RW**, Arnold AW, Stark L, Arnold KK, Leman RE, Armitage MD. Amblyopia detection by camera (ADBC): Gateway to inexpensive, portable vision screening. *Alaska Med* 2004; 46:63-72.

**Arnold RW**, Jensen P, Kovtoun TA, Maurer SA, Schultz J-A. The profound augmentation of the oculocardiac reflex by fast-acting opioids. *Binoc Vis and Strabismus Quart* 2004; 19:215-222.

Wagner R, Donahue S, Arnold R, Granet D. Round Table: Implementation and effectiveness of pediatric photoscreening. *Ocular Surg News*. August 1, 2004 2004;22(15):48-54.

Kerr N, **Arnold RW**: Vision screening for children: current trends, technology and legislative issues. *Curr Opin Ophthalmol* 2004; 15:454-459.

**PEDIG**, Repka MX, Cotter SA, et al. A randomized trial of atropine regimens for treatment of moderate amblyopia in children. *Ophthalmology*. Dec 2004;111(11):2076-2085.

**PEDIG**, Holmes JM, Beck RW, et al. Risk of amblyopia recurrence after cessation of treatment. *J Aapos*. Nov 2004;8(5):420-428.

Nader N, Arnold RW, Byron HM, et al. Emerging technologies for vision must overcome resistance to reach more children: lack of industry support, legislative approval and reimbursement have slowed innovation in vision screening, researchers say (Part 1 of 3). *Ocular Surgery News*. Vol 23; 2005:1, 50, 52-53, 58-59.

Nader N, Arnold RW, Collins MLZ, et al. Recent legislation, HMO backing may add momentum to vision screening: With mandatory screening for preschoolers in two states and federal funding proposed, interest in vision screening picks up (part 2 of 3). *Ocular Surg News*. February 15, 2005 2005;23(4):46-50.

Nader N, Arnold RW, Donahue SP, et al. Issues in Vision Screening: Costs, benefits of vision screening depend on predictive criteria of screening tools. *Ocular Surg News*. 2005;23(5):28-32.

Groves N, Arnold RW. Younger kids may benefit from photoscreening. *Ophthalmology Times*. Vol 30; 2005:76.

**Arnold RW**, Armitage MD, Gionet EG, Jastrzebski A, Kovtoun TA, Machida CJ, Coon LJ: The cost and yield of rural photoscreening: Impact of photoscreening on overall pediatric ophthalmic costs. *JPOS* 2005; 42(2):103-111.

Lang D, Blackledge J, **Arnold R**. Is Pacific Race an ROP risk factor?. *Arch Ped Adol Med* 2005; 159(8):771-773.

Arnold RW, Ruben JB, Donahue SP. Korean kindergarten vision screen programme (letter). *Br J Ophthalmol*. 2005;89(3):392-393. (Letter).

PEDIG, Scheiman MM, Hertle RW, et al. Randomized trial of treatment of amblyopia in children aged 7 to 17 years. *Arch Ophthalmol*. Apr 2005;123(4):437-447.

Blackledge J, Lang DM, **Arnold RW**. The positive prognostic implications of crying during exam on threshold ROP. *Alaska Med*. 2006;47(2):2-4.

Leman RE, Armitage MD, **Arnold RW**. The receiver-operator curve for flip-card surround HOTV in younger school children. *Am Orthopt J*. 2005;55(1):128-135.

Charters, L., & Arnold, R. W. Pediatricians should take the lead in vision screening: AAP guidelines suggest objective testing for acuity, Bruckners test for strabismus. *Ophthalmology Times*, 31, 75-76. 2006

PEDIG, Cotter, S. A., Edwards, A. R., Wallace, D. K., Beck, R. W., **Arnold, R. W.**, et al. (2006). Treatment of anisometropic amblyopia in children with refractive correction. *Ophthalmology*, 113(6), 895-903.

PEDIG, Wallace, D. K., Edwards, A. R., Cotter, S. A., Beck, R. W., **Arnold, R. W.**, et al. (2006). A randomized trial to evaluate 2 hours of daily patching for strabismic and anisometropic amblyopia in children. *Ophthalmology*, 113(6), 904-912.

Leman RE, Clausen MM, Bates J. A, Stark L, , Arnold KK, **Arnold RW**, A comparison of patched HOTV visual acuity and photoscreening. *J School Nursing*. 2006;22(4):237-243.

**Arnold RW**, Donahue SP. The yield and challenges of charitable, state-wide photoscreening. *Binoc Vis Strabismus Q*. 2006: 21(2) 93-100.

Arnold RW, Donahue SP: Guest Editorial: Compared value of amblyopia detection. *Binoc Vis Strabis Q*. 21(2):78, 2006

**Arnold RW**, Stange CA, Ryan C: The compared predictive value of Brückner, Acuity and strabismus from pediatric referrals. *Am Orthopt J* 56(1):15-21, 2006

Lang DM, Arnold AW, Leman RE, **Arnold RW**. Photoscreening, remote autorefraction and patched acuity testing in the Alaska Bush: A VIPS-like study in the Koyukon. *Alaska Med* 2007; 49(1):(2-13).

Holmes JM, Melia M, Bradfield YS, Cruz OA, Forbes B. Factors Associated with Recurrence of Amblyopia on Cessation of Patching. *Ophthalmology*. Mar 14 2007.

Arnold RW: Monocanalicular silastic intubation for the initial correction of congenital nasolacrimal duct obstruction. *J AAPOS* 2007, 11(4):416; author reply 416.

Clausen MM, **Arnold RW**: Pediatric Eye/Vision Screening: Referral Criteria for the PediaVision PlusOptix S04 Photoscreener Compared to Visual Acuity & Digital Photoscreening: "Kindergarten Computer Photoscreening".. *Binoc Vis Strabismus Q* . 2007;22(2):83-89.

Mahon K, **Arnold RW**, Koller HP, Nelson LB. Symptomatic convergence insufficiency (Eye to Eye). *JPOS*. 2007;44(4):202-206.

Wallace DK, Chandler DL, Beck RW, **Arnold RW**, Bacal DA, Birch EE, Felius J, Frazier M, Holmes JM, Hoover D, et al: Treatment of Bilateral Refractive Amblyopia in Children Three to Less Than 10 Years of Age. *Am J Ophthalmol* 2007, 144:487-496.

**Arnold RW**, Clausen M, Ryan H, Leman RE, Armitage D. Predictive Value of Inexpensive Digital Eye and Vision Photoscreening: "PPV of ABCD". *Binocul Vis Strabismus Q* 2007;22:148-52.

**Arnold RW**, Leman RE. Radio-opaque modification/substitute for the Wright superior Oblique Tendon extender for superior oblique muscle overaction strabismus. *Binoc Vis and Strabismus Quart* 2007;22:216-220.

PEDIG, Cotter SA, Edwards AR, **Arnold RW**, et al. Treatment of strabismic amblyopia with refractive correction. *Am J Ophthalmol* 2007;143:1060-3.

Kirk VG, Clausen MM, Armitage MD, **Arnold RW**. Preverbal photoscreening for amblyogenic factors and outcomes in amblyopia treatment: early objective screening and visual acuities. *Arch Ophthalmol* 2008;125:489-492.

PEDIG, Repka MX, Chandler DL, et al. Primary treatment of nasolacrimal duct obstruction with probing in children younger than 4 years. *Ophthalmology* 2008;115:577-584 e3.

Quinn G, Arnold R, Binenbaum G, et al. Why is an evidence base needed for changes in clinical care? *J AAPOS*. 2012;16(1):e36.

Arnold RW. Towards Worldwide Amblyopia Elimination- Vision Screening. . In: *US Ophthalmic Review and European Ophthalmic Review*,. www.touchbriefings; 2008:91-96.s

**Arnold RW**, Stark L, Leman RE, Arnold KK, Armitage MD. Tent photoscreening and patched acuity by school nurses: Validation of ASD-ABCD. *Binoc Vis and Strabismus Quart* 2008;23(3):83-94.

**Arnold RW**, Armitage MD, Limstrom SA. Sutured protective occluder for severe amblyopia. *Arch Ophthalmol* 2008;126(7):891-895.

**Arnold RW**. Optic nerve hypoplasia potentiates retinopathy of prematurity. *JPOS* 2008;45(4):247-249.

Arnold RW, Arnold AW: Refractive error in Myanmar. (Letter), *Ophthalmol* 2008;115(9): 1642-3.

PEDIG, Christiansen SP, Chandler DL, Holmes JM, **Arnold RW**, Birch E, et al. Instability of ocular alignment in childhood esotropia. *Ophthalmology*. 2008;115(12):2266-2274 e2264.

PEDIG, Scheiman MM, Hertle RW, Kraker RT, Beck RW, Birch EE, Felius J, et al. Patching vs atropine to treat amblyopia in children aged 7 to 12 years: a randomized trial. *Arch Ophthalmol*. 2008;126(12):1634-1642.

Clausen MM, Armitage MD, **Arnold RW**. Overcoming barriers to pediatric visual acuity screening through education plus provision of materials. *J AAPOS*. Apr 2009;13(2):151-154.

Pratt L, **Arnold RW**, Jacob J. Frequent ROP Associated with Hypoxic Protocol. *J Pediatr Ophthalmol Strabismus*. Jul-Aug 2009;46(4):253.

Matta NS, **Arnold RW**, Singman EL, Silbert DI. Comparison between the plusoptiX and MTI Photoscreeners. *Arch Ophthalmol*. Dec 2009;127(12):1591-1595.

Arnold RW, Lichtenstein SJ, Nelson LB: Treatment options for dense amblyopia in uncooperative children. *Eye to Eye*. JPOS 2010, 47(3): 134-138.

Maria Patterson, Patrick J. Droste, Robert Gold, Deborah Costakos, Robert Arnold, Eric Lichtenstein JAAPOS Vol. 14, Issue 1, e34 February 2010

Arnold RW: Prevalence of refractive error (Letter). *Ophthalmol* 117(8):1652, 2010.

Matta, N. S., **R. W. Arnold**, Singeman EL, Silbert DI. (2011). "Can a photoscreener help us remotely evaluate and manage amblyopia?" *Am Orthopt J* **61**: 124-127.

Arnold, R. W., S. Davidson, et al. (2011). "Stereopsis and 3-d movies." *J Pediatr Ophthalmol Strabismus* **48**(4): 199-201.

Arnold, R. W., D. N. Duss, et al. (2011). "Diagnosis and management of anisocoria in a 6-month-old child." *J Pediatr Ophthalmol Strabismus* **48**(2): 71-73.

Arnold RW, Neely DE, Donahue SP: Amblyopia refractive risk factors (letter). *Ophthalmol* 2012; 119 (6): 1283 [Varma, Rohit, MD, MPH, MEPEDS, Ophthalmology 119(6):1283-1284]

Arnold, R. W., B. Davis, L.E. Arnold, K.S. Rowe, J.M. Davis. (2012). "Calibration and validation of 9 objective vision screeners with contact-lens induced anisometropia." Retrieved 9/5/2012, 2012, from <http://www.abcd-vision.org/references/Calibrate-9/Calbrate-9.htm>.

**Arnold RW**, Arnold AW, Eby E, Aleshire J: Lay person slit lamp detection of iritis in absence of an Eye MD: Test of a portable model of cells and flare, *Binoc Vis Strab Q* 2012; 27(2):129-134.

**Arnold RW**, Jacob J, Matrix Z: A cloud-based electronic medical record for scheduling, tracking, and documenting examinations and treatment of Retinopathy of Prematurity. *JPOS* 2012 49(6):342-346

Arnold RW: A video educational and consenting system for ROP (letter). *JPOS* 2012, 49(6):382.

**Arnold RW**, Tulip D, McArthur E, Shen J, Tappel J, Arnold LE, Winkle E, Armitage MD: Predictive value from pediatrician PlusoptiX: Impact of refraction and ocular alignment. *Binoc Vis Strab Q*, 2012 27(4):227-232.

Graham Quinn, Robert Arnold, Gil Binenbaum, Patrick Droste, Joost Feliuss, Suqin Guo, Lawrence Kaufman, Danielle Ledoux, and others [Why is an evidence base needed for changes in clinical care?](#) JAAPOS, Vol. 16, Issue 1, e36 February 2012

Miller JM, Lessin HR, AAP [Arnold RW, Matta N, Dobson V, Bateman, B]: Instrument-based pediatric vision screening policy statement. *Pediatrics* 2012, 130(5):983-986.

Crawford CM, Frazier TC, Torres MF, **Arnold RW**, Mazzoli RA, Raymond WRT: Pediatric PRK (PhotoRefractive Keratectomy) with Mitomycin C (MCC) for Persistent Anisometropic Amblyopia. A Case Report. *Binocular vision & strabology quarterly, Simms-Romano's* 2012, 27(4):233-234.

Silbert DI, **Arnold RW**, Matta NS: Comparison of the iScreen and the MTI photoscreeners for the detection of amblyopia risk factors in children. *JAAPOS* 2013, 17(1):34-37.

Donahue SP, Arthur B, Neely DE, **Arnold RW**, Silbert D, Ruben JB: Guidelines for automated preschool vision screening: A 10-year, evidence-based update. *JAAPOS* 2013, 17(1):4-8.

**Arnold RW**, Arnold AW, Armitage MD, Shen JM, Hepler TE, Woodard TL: Pediatric photoscreeners in high risk patients 2012: A comparison study of Plusoptix, iScreen and SPOT. *Binoc Vis and Strabismus Quart* 2013, 28(1):20-28.

Biro A, Arnold RW, Donahue SP, Hered RW, Hunter DG, Neely DE, Stahl ED: Early instrument-based vision screening endorsed for preschool children. In: *Ocular Surgery News*. vol. 31. Thorofare, N.J.: SLACK; 2013: 1, 10-12.

**Arnold RW**, Davis B, Arnold LE, Rowe KS, Davis JM: Calibration and validation of nine objective vision screeners with contact lens-induced anisometropia. *J Pediatr Ophthalmol Strabismus* 2013, 50(3):184-190.

**Arnold RW**: Modified Portable A-Scan Ultrasound Instrument from a USB B-Scan Device. *Binocular vision & strabology quarterly, Simms-Romano's* 2013, 28(2):115-117.

**Arnold RW:** Amblyopia risk factor prevalence. *J Pediatr Ophthalmol Strabismus* 2013, 50(4):213-217.

Kristina Tarczy-Hornoch, Robert Arnold, Gil Binenbaum, Patrick J. Droste, Mays El-Dairi, Sudha Nallasamy, Stacy L. Pineles, Graham E. Quinn, Jingyun Wang [Research Committee workshop: I want to do a research study. Where do I begin?](#) JAAPOS Vol. 18, Issue 4, e46 August 2014

**Arnold RW,** Armitage MD: Performance of four new photoscreeners on patients with high risk amblyopia. *J Pediatr Ophthalmol Strabismus* 2014, 51(1):46-52.

Schwartz RH, Schuman AJ, Wei LL [Arnold RW]. Instrument-based vision screening: Update and Review. *Contemporary Pediatrics*. 2014; 31(2): 39-45.

Kirk SG, Armitage MD, Dunn S, **Arnold RW:** Calibration and validation of the 2WIN photoscreeners compared to the Plusoptix S12 and the SPOT. *J Pediatr Ophthalmol Strabismus*. 2014; 51(5):289-292.

Dalton, M (Arnold R and Silbert D): Smartphones and amblyopia. *Ophthalmology and Business*. 6(4):6-7, 2015

Robert W. Arnold, David I. Silbert Efficacy of a mobile smart phone vision-screening device with automated image-processing analysis in the evaluation of amblyopia risk factors in preschool children JAAPOS, Vol. 19, Issue 4, e9–e10 August 2015

David I. Silbert, Sean Donahue, Alan Greene, Deborah Alcorn, Robert Arnold Use of digital photoscreeners to detect amblyopia risk factors (ARFs): a multidisciplinary evidence-based approach—care and cost implications JAAPOS, Vol. 19, Issue 4, e76 August 2015

Haering, C, Beck KB, **Arnold RW:** A Multi-tool to reduce nasolacrimal stent complications with the home-removeable Farson Crawford tube. *J Pediatr Ophthalmol Strabismus* 2016, 53(1):52-54.

Bond AN, Beerle BJ, **Arnold RW:** Dexmedetomidine Nasal Sedation Produces More Oculocardiac Reflex During Strabismus Surgery. *J Pediatr Ophthalmol Strabismus* 2016, 53(5):318.

**Arnold RW.** Grendahl RL, Winkle RK, Jacob J: Outpatient, widefield, digital imaging of infants with retinopathy of prematurity. *Ophthalmic Surg Lasers Imaging Retina*. 2017, 48:494-497.

**Arnold RW,** Jacob J, Matrix Z: Toward Achieving 100% Adherence for Retinopathy of Prematurity Screening Guidelines. *J Pediatr Ophthalmol Strabismus* 2017, 54(6):356-362.

Tsao Wu M, Armitage MD, Trujillo C, Trujillo A, Arnold LE, Tsao Wu L, **Arnold RW:** Portable acuity screening for any school: validation of patched HOTV with amblyopic patients and Bangerter normals. *BMC Ophthalmol* 2017, 17(1):232.

Swanson D, Limstrom SA, Wilson D, **Arnold RW:** Eagle Retinopathy: Bilateral, symmetric pitched dihedral pattern retinopathy. *Ophthalmology Retina*. 2018 2(3): 251-253, cited *Ophthalmology*, Volume 125, Issue 4, April 2018, Pages 466-470

**Arnold RW,** Biggs RE, Beerle BJ: Intravenous dexmedetomidine augments the oculocardiac reflex. *J AAPOS* 2018, 22(3):211-213.e211.

Jacob J, Matrix Z, Skopec D, Ticho BH, **Arnold RW:** Factors associated with retinopathy of prematurity ophthalmology workload. *J Perinatology* 2018; 38:1588-1593

**Arnold RW,** O'Neil JW, Cooper KL, Silbert DI, Donahue SP: Evaluation of a smartphone photoscreener app to detect refractive amblyopia risk factors in children 1-6 years. *Clin Ophthalmol* 2018, 12:1533-1537.

**Arnold RW,** Arnold AW, Hunt-Smith TT, Grendahl RL, Winkle RK: The Positive Predictive Value of Smartphone Photoscreening in Pediatric Practices. *J Pediatr Ophthalmol Strabismus* 2018;55(6):393-396.

Arnold RW, Damarjian AG, Smith KA: Sensory testing and stereopsis with Nintendo 3DS game. *J AAPOS* 2018, 22(4):e16.

Arnold RW: Novel vision screening tools for children worldwide. In: *Ophthalmology Times*. vol. 44; 2019: 25-26.

Smith KA, Damarjian AG, Molina A, **Arnold RW:** Calibrated measurement of acuity, color and stereopsis on a Nintendo 3DS game console. *Clin Optometry* 2019, 11:47-55

Smith KA, Arnold AW, Sprano JH, Arnold SL, **Arnold RW:** Performance of a quick screening version of Nintendo 3DS “PDI Check” game on patients with ocular suppression. *JPOS* 2019, 56:234-237.

**Arnold RW,** Bond AN, McCall M, Lunoe L: The oculocardiac reflex and depth of anesthesia measured by brain wave. *BMC Anesthesiol* 2019, 19(1):36.

Arnold SL, Arnold AW, Sprano JH, **Arnold RW:** Performance of the 2WIN photoscreener with “CR” strabismus estimation in high risk patients. *Am J Ophthalmol* 2019; 207:195-203.

Martin SJ, Rowe KS, Hser N, Htoo HE, Khin R, Smith KA, **Arnold RW:** Compared near vision testing with the Nintendo 3DS PDI Check game on the Thai-Burma border. *Asia Pac J Ophthalmol* 2019, 8(4):330-334

(Publication # 100)

- Arnold AW, Arnold SL, Sprano JH, **Arnold RW**: School Bus Accommodation Relaxing Skiascopy. *Clin Ophthalmol* 2019, **13**:1841-1851
- Arnold RW**, Damarjian AG, Molina A, Smith KA. Calibrated measurement of acuity, color and stereopsis on a Nintendo 3DS game console. *Clin Optometry*. 2019;11:47-55.
- Arnold RW**, Bond AN. Does topical proparacaine improve postoperative comfort after strabismus surgery? *Clin Ophthalmol*. 2019;13:2279-2283.
- Tolia V, Ahmad KA, Jacob J, Kelleher AS, McLane N, **Arnold R**, Clark RH, Mednax ROP Registry Investigators: Two year outcomes of infants with stage 2 or higher retinopathy of prematurity: results from a large multicenter registry. *Am J Perinatol* 2020;37(2):196-203..
- Arnold RW. Smartphone app correlates well with standard visual screening assessment. *Journal of Pediatrics*. 2020;216(1):242-245.
- Arnold RW**. Comparative AAPOS validation of the blinq birefringent amblyopia screener with isolated small-angle strabismus. *Clin Ophthalmol*. 2020;14:325-329.
- Arnold AW, Eller AM, Smith KA, Grendahl RL, Winkle RK, **Arnold RW**. Direct nerve size determination and prevalent optic nerve hypoplasia in Alaska. *Clin Ophthalmol*. 2020;14:491-499.
- Martin SJ, Htoo HE, Hser N, **Arnold RW**. Performance of two photoscreeners enhanced by protective containers. *Clin Ophthalmol*. 2020;14: 1427-1435.
- Levitt AH, Martin SJ, **Arnold RW**. Performance of glow-fixation GCK and 2WIN photoscreeners and Retinomax to uncover hyperopia. *Clin Ophthalmol*. 2020;14: 2237-2244.
- Robbins SL, Packwood EA, Siegel LM, Committee AS. Economic impact on pediatric ophthalmologists in the time of COVID-19. *J AAPOS*. 2020.
- Arnold RW. Comparative AAPOS Validation of the blinq. Birefringent Amblyopia Screener with Isolated Small-Angle Strabismus [Response to Letter]. *Clin Ophthalmol*. 2020;14:2775-2776.
- Arnold RW**, LaMattina KC, Taylormoore J, Nelson LB. Experiences in Telemedicine for Pediatric Ophthalmology. *JPOS*. 2020;57(6):344-347.
- Arnold RW. Orbital MRI versus fundus photography and OPTOS in the diagnosis of optic nerve hypoplasia and prediction of vision (letter). *Br J Ophthalmol*. 2020;104(11).
- Arnold RW**, Rinner AR, Arnold AW, Beerle BJ. The impact of re-operation, relatives and race on the oculocardiac reflex. *Clin Ophthalmology*. 2020;14:4253-4261..
- Schumacher AC, Ball M, Arnold AW, Grendahl RL, Winkle RK, **Arnold RW**. Oculocardiac reflex during ROP exams. *Clin Ophthalmol*. 2020;14:4263-4269.
- Arnold RW. Comparative AAPOS Validation of the blinq. Birefringent Amblyopia Screener with Isolated Small-Angle Strabismus [Response to Letter]. *Clin Ophthalmol*. 2020;14:2775-2776.
- Beveridge J, Martin SJ, Beveridge N, Smith KA, **Arnold RW**. Grading Spectacle Similarity. *Clinical Optometry*. 2021; 13:23-32.
- Brown SP, Rue CM, Smith KA, **Arnold RW**. Extraordinary dynamic near vision in champion shotgun shooters; PDI Check evaluation of stereo and color without floor effect. *Clinical Ophthalmology*. 2021;15: 575—581
- Heald DL, Devine IM, Smith RL, Holsopple SA, Arasmith JL, **Arnold RW**. Opsoclonus-myoclonus after COVID-19 in an infant.[letter] *Pediatr Neurology*. 2020: 117:34.
- Arnold RW**, Jansen S, Glasionov M, Biggs RE, Beerle BJ. Anesthetic impacts on the oculocardiac reflex: Evidence from a large, observational study. *Clin Ophthalmol* 2021; 15: 973-981.
- Keffalos MA, Martin SJ, **Arnold RW**. Drive-By Photoscreening: plusoptiX, 2WIN and blinq Amblyopia Detection during the COVID-19 pandemic. *Clin Ophthalmol*. 2021;15: 775-782.
- Arnold RW**. Digital values for alpha acuities. *JPOS*. 2021;58(2):132-5.
- Arnold AW, Smith KA, Molina A, Damarjian AG, **Arnold RW**. Trichromatic enhanced dynamic color screening on the PDI Check Nintendo 3DS game. *Clin. Optometry*. 2021;13:137-41.
- Arnold RW, Keffalos MA, Martin SJ: Drive-By Photoscreening Response to Letter, *Clin Ophthalmol* 2021;15:1463-4.
- Arnold RW**. The Oculocardiac Reflex: A Review. *Clin Ophthalmol*. 2021;15:2693-725.
- Arnold RW**, Martin SJ, Beveridge JR, Arnold AW, Arnold SL, Beveridge NR, et al. Ellipsoid Spectacle Comparison of PlusoptiX, Retinomax and 2WIN Autorefractors. *Clin Ophthalmol*. 2021;15:3637-48.
- Mahlen T, **Arnold R**. Pediatric non-refractive vision screening with EyeSwift, PDI Check and blinq. *Clin Ophthalmol*. 2021;16:375-84.

**Arnold RW**, Donahue SP, Silbert DI, Longmuir SQ, Bradford GE, O'Neil J, Peterseim MMW, de alba Camponanes, AJ, Pineles SL. Uniform guidelines for pediatric vision screen validation 2021. *J AAPOS*. 2022; doi: <https://doi.org/10.1016/j.jaapos.2021.09.009>.

Arnold RW. The positive predictive value of photoscreening (Letter). *J AAPOS*. 2022;26:in press. doi: <https://doi.org/10.1016/j.jaapos.2021.12.002>.

**Arnold R**, Angi M. Multifaceted amblyopia screening with blinq, 2WIN and PDI Check. *Clin Ophthalmol*. 2022;16:411-21.

**Arnold RW**, Silbert DI, Modjesky H. Instrument referral criteria for Plusoptix, SPOT and 2WIN targeting 2021 AAPOS guidelines. *Clin Ophthalmol*. 2022;16. doi: 10.2147/OPTH.S342666.

Erzurum SA, Wu R, Melia BM, Li Z, **Arnold RW**, Silbert DI, et al. Parent-provided photographs as an outcome measure for childhood chalazia. *J AAPOS*. 2022;26:pre-print. Epub 2022. doi: <https://doi.org/10.1016/j.jaapos.2021.11.012>.

Arnold RW. Reply. *J AAPOS*. 2022;26.

Arnold RW. The impact of autostereoscopic screens on assessing depth perception. *Ann Transl Med*. 2022;10(12):653.

**R. W. Arnold**, S. Guo, M. B. Strominger and L. B. Nelson. Management of Strabismus Disorders in Patients with Systemic Diseases (Eye to Eye), *J Pediatr Ophthalmol Strabismus* 2022 Vol. 59(5): 287-290

Siegel LM, Siegel BA, Packwood EA, Robbins SL, Committee AS. The socioeconomic effect of COVID-19 on pediatric ophthalmologists: data from the first 12 months. *J AAPOS*. Sep 16 2022;26(5):230 e1-6.

Arnold RW. The effect of home-based dichoptic therapy on young adults with non-strabismic amblyopia on stereo acuity [letter]. *Clinical Optometry*. December 14, 2022 2022;14:249-250.

Hepler LE, Martin SJ, Fuglseth K, Cuddihee L, Giannulis P, **Arnold RW**. Acuity comparison methods via times Test-Retest precision of matching-card e-ETDRS compared to PDI Check in treated amblyopes and superb normals. *Clin Optometry*. May 2, 2023 2023;15:81-95.

Arnold RW. Re: Goldstein et al: Visual acuity: assessment of data quality and usability in an electronic health record system (*Ophthalmol Sci*. 2023;3(1):100215). *Ophthalmol Sci*. Jun 2023;3(2):100307.

Cobb LB, Arnold RW. Ice Slush Oculocardiac Reflex Reduction. *Anesth Analg*. Jun 1 2023;136(6):e43-e44.

Cuddihee LJ, Giannulis P, Merriner S, Runge PE, Pringels V, McGill V, Johnson MA, Cobb LB, **Arnold RW**. Compared Methods for Reducing Stress in ROP Exams; Stake-Holding Examiner Perspective. *Clin Ophthalmol*. 2023;17:1953-1965

**Arnold RW**, Strominger MB, Vagge A, Nelson LB. Management of Congenital Esotropia. *J Pediatr Ophthalmol Strabismus*. Sep-Oct 2023;60(5):310-311.

Arnold RW. "Surgical and anesthetic influences of the oculocardiac reflex in adults and children during strabismus surgery". *Surv Ophthalmol*. Jun 13 2023;

**Arnold RW**. Dichoptic Rescue for Spectacle-Flip Sabotage of Anisometropia Amblyopia Therapy. *Clinical Optometry* 16:83-87, 2024.

Kanclerz P, Przewlocka K, **Arnold RW**. Agreement in non-cycloplegic and cycloplegic refraction between a photoscreener and a calibrated autorefractor. *BMC Ophthalmol* 2024. Vol. 24(1):130

Schaafsma JD, **Arnold RW**: Pre-cycloplegic exam benefit of photoscreening and accommodation-relaxing skiascopy. *Clinical Ophthalmol* 2024: 18:833-846

Martin SJ, Chiraphatthakun P, Keereemalee AS, Chiraphatthakun W, **Arnold RW**. Impact of Hearing Loss and Restricted Access to Care on the Karen People Living in a Conflict Setting Near the Thai-Burma Border. *Res Rep Trop Med*. 2024;15:99-109

Arnold RW, Smith KA. Evaluation of 3D tablet-based stereoacuity test ASTEROID in children with normal and abnormal visual acuity. *J AAPOS*. Nov 23 2024:104058.

Arnold RW. Late Recurrence of Anisometropic Amblyopia. *J Pediatr Ophthalmol Strabismus*. Jul-Aug 2024;61(4):298.

**Arnold RW**, Herlihy E, Strominger MB, Nelson LB. Fewer Pediatric Ophthalmologists and an Uneven Distribution Affect Access to Pediatric Care. *J Pediatr Ophthalmol Strabismus*. Sep-Oct 2024;61(5):305-308.

Arnold RW. Surgical and anesthetic influences of the oculocardiac reflex in adults and children during strabismus surgery. *Surv Ophthalmol*. Mar-Apr 2024;69(2):295.

### 150 publications

Karlberg LA, Sweeney TR, **Arnold RW**. Validation of the Affordable, Portable International Visionkeys System for Visual Acuity and Stereopsis. *Clin Ophthalmol*. 2024;18:3667-3677.

Arnold R, Silbert D, Modjesky H. Instrument referral criteria for Plusoptix, SPOT and 2WIN targeting 2021 AAPOS guidelines [Corrigendum]. *Clin Ophthalmol*. April 5, 2025 2025;19:1215-1216.

**Arnold RW**, Deutsch JA, Rogers G, Nelson LB. Recent Onset of Diplopia. *J Pediatr Ophthalmol Strabismus*. May-Jun 2025;62(3):157-159.

**Arnold RW**, Birch E, Bradford G, et al. Defining and measuring population-level amblyopia treatment outcomes: a proposal by the AAPOS Vision Screening and Research Committees. *J AAPOS*. May 29 2025:104231

Jacob J, **Arnold RW**. The characteristics of racial disparity in retinopathy of prematurity outcomes. *J Perinatology*. 2025;45:In Press.

Schumacher H, Garaygay G, Ayagalria A, Lauano BI, Marshall D, Townley JR, **Arnold RW**: Comparative validation of Moptim MRT-200 with 2WIN and Retinomax. *Clin Ophthalmol*. 2025;19:3153-3166.

**Arnold RW.** Estimating the prevalence and severity of isolated small-angle strabismic amblyopia. Clin Ophthalmol. 2025;19:3409-3418.

**Arnold RW, Jacob J, Siegel L, Lee TC, Hutchinson A, Adams C.** Safety and Efficiency Reducing Retinopathy of Prematurity Guideline Sensitivity: An External Validation Using a Large US-based Dataset. Am J Ophthalmol 2026;282:266-275

**Arnold RW, Jacob J.** How Race and Birthweight May Influence Gender Differences in Retinopathy of Prematurity 2026: Children. 13:324

[https://www.ncbi.nlm.nih.gov/pubmed/?term=Arnold%20RW%5BAuthor%5D&cauthor=true&cauthor\\_uid=32109985](https://www.ncbi.nlm.nih.gov/pubmed/?term=Arnold%20RW%5BAuthor%5D&cauthor=true&cauthor_uid=32109985)

## BOOK CHAPTERS:

Arnold RW: Towards Worldwide Amblyopia Elimination- Vision Screening. US Ophthalmic Review and European Ophthalmic Review, [www.touchbriefings.com](http://www.touchbriefings.com). P91-96, 2008.

Arnold RW, Olitsky SE, Coats DK: Amblyopia. A Colour Handbook of Pediatric Ophthalmology, Edited by Leonard Nelson and Scott Olitsky, for Manson Publishing Ltd, 73 Corringham Road, London, NW 11 7DL , U.K., [manson@mansonpublishing.com](mailto:manson@mansonpublishing.com), 2009, Softcover, p 43-49 of 320 pages, 234 x 156 mm page size, 350 illustrations, 32 tables, ISBN: 978-1-84076-151-1, Publication year: 2011

Arnold RW: Failed Vision Screen. In Granet DB, Robbins SL, Baber LJ: Challenging Cases in Pediatric Ophthalmology, ISBN-13: 978-1581103052, American Academy of Pediatrics, Chicago. P 381-387, 2012.

Arnold RW: What is Pediatric Office Photoscreening? When Should I use it? Question 2. Curbside Consultation in Pediatric Ophthalmology: 49 Clinical Questions. R. Wagner, Slack, pp. 7-9,

Arnold RW. What is Pediatric Office Photoscreening? When Should I Use It? In: Wagner RS, ed. Curbside Consultation in Pediatric Ophthalmology. 1st ed. CRC Press; 2024:264:chap 2.

## Patent:

[ROBERT WENDELL ARNOLD, ANCHORAGE AK \(US\) AND ALEX DAMARJIAN, CHICAGO IL \(US\): U.S. 11,291,362 \(PROVISIONAL NOV 1, 2017, FILED NOV 1, 2018. ISSUED APR. 5, 2022\) "SYSTEMS AND METHODS FOR EYE EVALUATION AND TREATMENT"](#)

## WEBSITES:

[www.ABCD-Vision.org](http://www.ABCD-Vision.org)

[www.BurmaVision.org](http://www.BurmaVision.org)

[www.RunForReliefBurma.com](http://www.RunForReliefBurma.com)

[www.AlaskaChildrensEye.com](http://www.AlaskaChildrensEye.com)

[www.GraceNordic Program.com](http://www.GraceNordic Program.com)

[www.ArnoldKnives.com](http://www.ArnoldKnives.com)

POWER Vision Screening: Vision Screen Chair, Knights Templar and AAPOS with Faruk Orge and David Epley

<https://www.youtube.com/channel/UC95AP9y9e5KUppma6BEx-Jg>

## PRESENTATIONS:

- Arnold, R.W. and Nadel, E.N., Reduction of the human diving response by heat and hypovolemia. Fed. Am. Soc. Exp. Biol., St. Louis, April, 1984.
- Arnold, R.W. and Troutmann, J.C., Cerebrovascular Visual Complications, Mayo Ophthalmology Grand Rounds, August 19, 1985.
- Arnold, R.W. Modifications in the Vasomotor Arm of the Human Diving Response. Undersea and Hyperbaric Medical Society Workshop, Buffalo, New York, October 29, 1985.
- Arnold, R.W., Troutmann, J.C., Lesions which can Manifest as "Chiasmal" Visual Field Defects. Mayo Ophthalmology Grand Rounds, April 22, 1986.
- Arnold, R.W., Stickler, G.B., Bourne, W.M., Mellinger, J.F., Corneal Crystals. Mayo Ophthalmology Grand Rounds, October 8, 1986.
- Arnold, R.W. and Dyer, J.A., The surgical treatment of exotropia. Mayo Ophthalmology Grand Rounds (Minithesis), November 5, 1986.
- Arnold, R.W. Traumatic Ametropia and Other Acquired Refractive Errors. Minnesota Academy of Ophthalmology, Minneapolis. December 5, 1986.
- Arnold, R.W., Benedett, R., Robertson, D.M., Infectious Retinitis. Mayo Ophthalmology Grand Rounds, September 9, 1987.
- Arnold, R.W. and Campbell, R.J., Conjunctival Pigmentation: Golf Ball Core. Mayo Ophthalmology Grand Rounds, September 24, 1987
- Arnold, R.W., Dyer, J.A., Experience with Exotropia. Ophthalmic Reviews, Rochester, Minnesota, April 24, 1987.
- Arnold, R.W., Dyer, J.A., Low, P.A., The oculo-cardiac reflex: correlations with other cardiac vagal maneuvers. A.R.V.O., Sarasota, Florida, May 4, 1987.
- Arnold, R.W. and Johnson, D.H., Amaurosis Fugax; the Iris Chafe Syndrome. Mayo Ophthalmology Grand Rounds, May 20, 1987.
- Arnold, R.W. and Hohberger, G.G., Infantile Esotropia. Mayo Ophthalmology Strabismus Conference, July 30, 1987.
- Arnold, R.W. and Dyer, J.A., Selected Contact Lens Problems. Mayo Ophthalmology Grand Rounds, October 21, 1987.
- Arnold, R.W., Smith, B.E., Hardwig, P.W. Palinopsia: second thoughts about afterimages. Mayo Ophthalmology Grand Rounds, November 14, 1987.
- Arnold, R.W. The Pre-operative prediction of the Oculocardiac Reflex, Minnesota Academy of Ophthalmology, St. Paul, Minnesota, December 11, 1987.
- Arnold, R.W., and Bartley, G.B. What's Hot in Ophthalmology; fire in the O.R., Mayo Ophthalmology Grand Rounds, December 23, 1987.
- Arnold, R.W., Arnold, K.K., Brehmer, N. Ophthalmic Surgery. Inservice Conference, Dept. of Surgery, Rochester Methodist Hospital, January 6, 1988
- Arnold, R.W. Emergency Eye Care. Mayo Emergency Medicine Core Lectures, St. Mary's Hospital, February 16 and March 31, 1988
- Arnold, R.W. The Oculocardiac Reflex: can we predict it? Mayo Ophthalmology Grand Rounds, May 11, 1988.
- Arnold, R.W., Can we predict the oculocardiac reflex? Mayo Anesthesiology Grand Rounds, June 22, 1988.
- Arnold, R.W., Low, P.A. Differential Vasovagal Sensitivities to Several Autonomic Maneuvers in Man. Am. Neurol. Assoc., Philadelphia, October 4, 1988.
- Arnold, R.W. Rapidly growing orbital masses in children. I.U. Ophthalmology Grand Rounds, November 2, 1988.

Arnold, R.W. Asymmetric ocular dysmorphogenesis. I.U. Ophthalmology Grand Rounds, November 9, 1988.

Arnold, R.W., Can we predict the oculocardiac reflex? LSU Eye Center, February 16, 1989.

Arnold RW. The physiology and pathology of children's eyes. Indiana School for the Blind. April 8, 1989.

Arnold RW, Yung C-W, Engel WK, Plager DA, Helveston EM, Ellis FD: Asymmetric Ocular Dysmorphogenesis. AAPO&S, Kiawa Is, SC, April 17, 1989.

Arnold RW, Gould AB, McKenzie R, Low PA: Exaggerated carotid sinus bradycardia in oculocardiac reflex sensitive patients. ARVO, Sarasota, FL May 1, 1989.

Arnold RW: Clinical application of the Red Reflex. IOPPS, Indianapolis, IN, May 10, 1989.

Arnold RW: The Oculocardiac Reflex. IU Ophthalmology Grand Rounds, May 17, 1989.

Arnold RW, Sprunger DT, Engel WK: The effect of caffeine and oral Timoptic® on hand steadiness in ophthalmic microsurgeons. IU Ophthalmology Resident's Day, June 9, 1989.

Arnold RW: Update in Pediatric Ophthalmology, Mayo Visiting Lecture, August 8, 1989.

Arnold RW: The Ophthalmic Examination. WAMI University of Alaska, Anchorage Feb 16, 1990; March 6, 1991

Arnold RW: Atypical hypobaric ocular trauma from a Popper®, (poster) AAPO&S, Montréal, Québec, May 15-19, 1991.

Arnold RW: Practical Techniques in Ocular Emergencies, Alaska Eye Education Meeting, May 29, 1991

Arnold RW: Christian Vision: Can you believe what you see? Anchorage Grace Brethren Church May 1991

Arnold RW: Esotropia, Adult Squint and ROP, Alaska Eye Meeting, Anchorage, October 23, 1991

Arnold RW: Pediatric Eye and Strabismus, Alaska Optometric Association, Anchorage, December 8, 1991

Arnold RW: Limbal Reference for ROP Cryotherapy, Poster, AAPO&S Maui 2/11/92

Arnold RW: Alaskan Natives: High Risk for ROP, AAPO&S Maui 2/11/92

Arnold RW: Retinopathy of Prematurity in Alaska, 19th Annual Perinatal Symposium, Hotel Cpt. Cook, Anchorage, 3/26/92

Arnold RW: Pediatric Eye Surgery, Dept of Surgery Conference, Providence Hospital, Anchorage 4/7/92

Arnold RW: Neonatal Eyes and ROP, Perinatal Conference, Providence Hospital, Anchorage 4/14/92

Arnold RW: Enhanced Brückner vision screening for Alaska. Public Health Nurse Inservice, Municipal Health Dept Anchorage, 3/16/93.

Arnold RW, Werner R: Orbit and Nasolacrimal Disorders. Alaska Eye Meeting, May 19, 1993.

Arnold RW: Strabismus. JCAHPO Alaska, Providence Hospital, June 30, 1993.

Arnold RW: Pediatric Ophthalmology, Alaska Medicine Conference- Alaska Association of Physician Assistants, Regal Alaska Hotel, October 21, 1993.

Arnold RW: Trauma and Acquired Refractive Errors. Alaska Eye Meeting, Providence Hospital, October 27, 1993.

Arnold RW: Pediatric vision screening with EBT. JCAHPO, AGBC, November 3, 1993

Arnold RW: ROP-Treating the Vast Expanse. (Poster), International conference on ROP, Chicago, November 19, 1993.

Arnold RW: Goopy Eyes, Shaken Kids and Vision Screening. Pediatrics Conference, Alaska Regional Hospital, November 30, 1993.

Arnold RW, Nuttal GA, Pease RJ, Alaska OCR Study Group: The effect of expired CO2 concentration on the oculocardiac reflex. Anesthetic Research Assoc, Orlando Florida, March 6, 1994.

Arnold RW: The oculocardiac reflex: More than you want to know. IU Pediatric Eye Fellows Mtg, Keystone at the Crossing, IN, 4/23/94.

Arnold RW: Oculocardiac Reflex: Report to the AK OCR Study Group (Ak Eye Mtg), Providence Hospital, AK, 5/18/94.

Arnold RW: Bilateral monocalicular Crawford Loop: Easy removal for Remote NLD patients. AAPO&S/ISA Vancouver, BC, June 20, 1994

Arnold RW: A manicure for difficult Crawford intubations (Poster), AAPO&S/ISA Vancouver, BC June 20, 1994

Arnold RW, Droste P: AAPO&S Paperwork Exchange Workshop, AAPO&S/ISA, Vancouver, BC, June 22, 1994.

Arnold RW: Oculocardiac Reflex: Prevalence, Profile, Prediction and Prevention. W-7 Mayo Clinic, Rochester, Minnesota, July 28, 1994

Arnold RW: Vision screening with EBT and Avoidance of Pediatric Eye Pitfalls. W-7 Mayo Clinic, Rochester, Minnesota, July 29, 1994

Arnold RW: LIVE vision screening and Remote amblyopia treatment. Alaska Eye Meeting, Providence Hospital, April 26, 1995.

Arnold RW: Vision Screening with MTI. Pediatric Grand Rounds, Alaska Native Medical Center, May 23, 1995.

Arnold RW, et. al.: Case Report-Astrocytoma, Inferior Rectus Surgery and Myasthenia Gravis. Alaska Eye Meeting, Providence Hospital, May 24, 1995.

Arnold RW: Amblyopia, Vision Screening and Common Problems, Alaska Nurse Practitioners Association, Hilton Hotel, Anchorage, November 10, 1995

Blucher J. Sight-saving images. Anchorage Daily News. Anchorage, Feb 20, 1996:E1-E2.

Arnold RW, the Alaska OCR Study Group: Deep inhalational anesthesia reduces the oculocardiac reflex. (Poster) AAPO&S SnowBird, Utah, March 16, 1996.

Arnold RW: Application of MTI® photoscreening to Bush Alaska. CHA Health Aide Forum 96, Holiday Inn, Anchorage, Alaska April 24, 1996.

Arnold RW: The Bear went over the Mountain: the Graphic ROP Story (Poster), International Conference on Retinopathy of Prematurity, UIC Eye Center (Hyatt), Chicago, Illinois, Nov 1, 1996.

Arnold RW: The effect of surgical hypotonia on pre-threshold ROP (Poster), International Conference on Retinopathy of Prematurity, UIC Eye Center (Hyatt), Chicago, Illinois, Nov 1, 1996.

Arnold RW: Paperwork Exchange. AAPO&S Meeting, Charleston, S.C., April 3-6, 1997

Arnold RW: "Pediatric Eye Wilderness", Alaska Academy of Family Physicians, Fairbanks, Alaska June 21, 1997

Arnold RW, Schaefer C, Harned M, Siemens A, Armitage MD: A.B.C.D. Gold '98 Prospecting. Alaska Eye Meeting, The Children's Hospital @ Providence, Anchorage, October 8, 1997.

Arnold RW, Coon LJ: Alaska Blind Child Discovery Gold 98, Alaska Optometric Association, Girdwood, December 7, 1997.

Arnold RW: Oculocardiac Reflex- Research in ambulatory surgery which makes your heart skip a beat. Alaska Eye Meeting, PAMC, Anchorage December 10, 1997.

Arnold RW: Paperwork Exchange. AAPO&S Meeting, Palm Springs, California, April 4-8, 1998.

Wright K, Arnold RW, the Alaska Eye Meeting, Regal Alaska Hotel, Anchorage June 18, 1998

Byers KA, Arnold RW: Cost Effective Treatment of Nasolacrimal Duct Obstruction in Alaska, the Alaska Eye Meeting, Anchorage (Cedars Sinai C.M.E.) June 18, 1998

Arnold RW: The Alaska Blind Child Discovery Program, District 49-A Lions Meeting, Holiday Inn, Anchorage, Alaska , November 13, 1998.

Arnold RW, Arnold KK, Goodman N: The Alaska Blind Child Discovery, The Norma Goodman Show, KTVA Television Talk Show, Anchorage, January 4, 1999.

Arnold RW: Paperwork Exchange, AAPO&S Meeting, Toronto, Ontario, April 15-18, 1999

Arnold RW: Vision Screening with Photoscreener, Community Health Aid Program, Anchorage, May 12, 1999.

Arnold RW: Rationale for Childhood Vision Screening and the ABCD project. Certified Ophthalmic Techs of Alaska, Anchorage, Sept 25, 1999.

Arnold RW: Photoscreening and the ABCD Program. Pediatric Grand Round, Anchorage Pediatric Group, October 26, 1999

Arnold RW: The forensic implications of refractive error. Alaska Eye Meeting, Anchorage, Alaska. September 29, 1999

Arnold RW: Screening and Telemedicine, Spanning the Millennium: Pediatric Ophthalmology at the Zoo. San Diego, California, April 12, 2000

Arnold RW, Armitage MD, Gionet E, Jastrzebski A, Kovtoun, TA, Machida C, Coon LJ: the cost and yield of rural photoscreening; the Alaska Blind Child Discovery (ABCD), AAPO&S poster, San Diego, California, April 15, 2000.

Arnold RW: Paperwork Exchange, AAPO&S, San Diego, California. April 14, 2000.

Arnold RW: Vision Screening controversy, Screening River and ABCD. District 49 Lions Convention, Sheraton Hotel, Anchorage, Alaska. May 11, 2000.

Arnold RW: Amblyopia: Prevalence, Diagnosis, Treatment and Psychosocial impact. National Association of Vision Professionals (NAVP) conference, Denver, Colorado. July 21, 2000.

Arnold RW: Vision Screening and State-of-the-Art Technology. National Association of Vision Professionals (NAVP) conference, Denver, Colorado. July 21, 2000.

Arnold RW: Alaska Blind Child Discovery Project: Photoscreening in rural Alaska. National Association of Vision Professionals (NAVP) conference, Denver, Colorado. July 21, 2000.

Arnold RW, Davis R, Phelps D: Acquired Blindness in the smallest Alaskans; Retinopathy of Prematurity, (conference: 3CME) Providence Alaska Medical Center, Anchorage, Alaska. August 9, 2000.

Blackledge J, Butler J, Arnold RW: ROP in Alaska: Race and Sex for Crying Out Loud. Acquired Blindness in the smallest Alaskans; Retinopathy of Prematurity, Providence Alaska medical Center, Anchorage, Alaska. August 9, 2000.

Arnold RW: Amblyopia: ABCD with digital JVC photoscreening, the ATS study and the Sew on Occluder for Severe Amblyopia. The Alaska Eye meeting, Anchorage, October 18, 2000.

Arnold RW: The JVC GR-DVM70u, Glasstron and Braille Lite: adaptive low vision technology and Visual Fields. Special Education Service Agency, Anchorage, January 4, 2001

Arnold RW: Photo Screening and Results, Southwest Regional Meeting, Alaska Public Health Nurses, Marriott Courtyard, Anchorage, Alaska. April 24, 2001.

Arnold RW: Amblyopia Treatment Trial and EYE<sup>v</sup>@ 4, Pediatric Grand Rounds (APG), Anchorage, October 30, 2001

Arnold RW: Glasses alone for amblyopia and Amblyopia Detection in Pediatric Office Setting (ADIPOS), PEDIG, Tampa, Florida, January 13, 2002.

Arnold RW: Collaborative Care of ROP in Alaska. Pediatric Grand Rounds (ANMC), Anchorage, January 15, 2002.

Arnold RW: Ophthalmic Tips for School Nurses. APS Workshops for School Nurses, Service High, Anchorage, January 17, 2002.

Arnold RW, Limstrom SA, Armitage MD: Shield Occluder, (poster) AAPOS Annual Meeting, Seattle, Washington March 22-24, 2002.

Arnold RW: Vision screening and eye problems. APS Workshops for School Nurses, Service High, Anchorage, October 2002.

Arnold RW: Infant Learning Conference, Anchorage, December 18, 2002

Arnold RW: Remote pediatric vision screening. Southwest Regional Public Health Nurses, Anchorage. January 9, 2003.

Repka MX, Arnold RW et al: Glasses alone for selected cases of amblyopia. PEDIG, Tampa, Florida. January 12, 2003.

Arnold RW, Woodard T: Pediatric vision screening and amblyopia therapy. Line One KSKA public radio, January 13, 2003.

Machida CJ, Arnold RW: The effect of muscle tension and fatigue on the oculocardiac reflex. (poster) AAPOS Annual meeting, Waikoloa, Hawaii, March 23-27, 2003.

Arnold RW: Paperwork Exchange. AAPOS Annual meeting, Waikoloa, Hawaii, March 23-27, 2003

Donahue SP, Armitage MD, Coon LJ, Arnold RW: History, Rational and Future of Preschool Vision Screening- the Vanderbilt and ABCD Experience. Childrens' Hospital at Providence, May 29, 2003

Pletnikoff, L, Arnold RW: Implementation and yield of photoscreening in Bristol Bay Alaska: High penetration pediatric vision screening in the Alaska Bush. ICCH12, Nuuk, Greenland, September 8-14, 2003. (12<sup>th</sup> International Congress on Circumpolar health)

Arnold RW: Red eyes and Vision Screening. APS Workshops for School Nurses, Service High, Anchorage, October 9, 2003.

Lang D, Blackledge J, and Arnold RW: The influence of Pacific Race, Sex and Ability to cry at 31-week exam on Threshold ROP, Third International Symposium on ROP, An Update on ROP from Lab to Nursery (Poster), Anaheim, California, November 13, 2003.

Arnold RW: Does Optic nerve Hypoplasia exacerbate Retinopathy of Prematurity? Third International Symposium on ROP, An Update on ROP from Lab to Nursery (Poster), Anaheim, California, November 13, 2003

Pletnikoff L, [Arnold R]: Implementation and yield of photoscreening in Bristol Bay Alaska. High penetration pediatric vision screening in the Alaska Bush. Arctic Health Sciences Seminar, Institute for Circumpolar Health Studies, American Society for Circumpolar Health, (UAA MPH Program), 3:30 pm, Anchorage, January 30, 2004.

Arnold RW: Photoscreening plus patched HOTV acuity study in the Anchorage School District, ASD Administrative Board Room, February 4, 2004.

Arnold RW: Vision and Learning, APS School nurse lecture, Service High School, Anchorage, February 12, 2004.

Arnold RW and Stark L: Orientation to ASD-ABCD Pre-K through First Vision Screening, Service High School, Anchorage, February 12, 2004.

Arnold RW and Stark L: Orientation to ASD-ABCD Pre-K through First Vision Screening, East High School, Anchorage, February 18, 2004.

Arnold RW and Stark L: Orientation to ASD-ABCD Pre-K through First Vision Screening, King Career Center, Anchorage, February 19, 2004.

Tulip H, Norman M, Arnold RW: The oculocardiac reflex: influence of re-operation, neurologic status and blood pressure (Poster), AAPOS Annual meeting, Washington, DC, March 27, 2004.

Rosen CE, Arnold RW: Ophthalmic Trauma from the perspective of orbit and strabismus, Connoco Phillips Safety meeting, Anchorage, May 26, 2004.

Arnold RW: Ophthalmic Surgery- Perspectives for perioperative nursing. Providence Hospital, Anchorage, July 1, 2004.

Coopes BJ, Arnold RW: Shaken Baby Syndrome: Retinal manifestations. Pediatric M&M Conference, Providence Hospital, Anchorage, September 23, 2004.

Arnold RW: Neurodevelopmental Issues and the Eye. Pediatric Neuro Conference, Providence Alaska Medical Center, October 1, 2004

Arnold RW: Typical and Terrible Red / Sore eyes in Kids. Alcon Pediatric Lecture, Sullivans' Steak House, Anchorage, October 5, 2004.

Arnold RW: Amblyopia Detection. Alaska Family Practice Residency Lecture, October 8, 2004.

Arnold RW: Compared chalazion prophylaxis and "Does massage work in NLD?" PEDIG section meeting, AAPOS Annual Meeting, Orlando, Florida March 10, 2005.

Arnold, RW, the AAPOS Vision Screen Committee: Pediatric Vision Screening (Workshop), AAPOS Annual Meeting, Orlando, Florida March 11, 2005.

Arnold RW, Stark L, Leman R, Arnold KK, Bates J, Armitage MD: Tent photoscreening and patched acuity by school nurses: validation of ASD-ABCD. AAPOS Annual Meeting, Orlando, Florida March 12, 2005.

Leman R, Bates J, Stark L, Arnold KK, Arnold RW: Photoscreening and patched HOTV acuity in schools: Implementation and Implications of ASD-ABCD (Poster). National Association of School Nursing, Washington, DC, July 1, 2005.

Arnold RW: Role of Pediatricians and FP (Screening for preclinical Vision loss) American Orthoptic Congress, Chicago, Ill, October 16, 2006.

Arnold RW: Stop Spectacles Safely and Chalazia Care, PEDIG, Tampa, Florida, January 21, 2006.

Arnold RW: Amblyopia- Emerging guidelines and Corneal Disease, Pediatric Grand Rounds, ARH Anchorage, AK, February 21, 2006.

Arnold RW, Jacob J: Relational Database Enhances ROP Scheduling, Follow-Up, Record-Keeping and Education, AAPOS, Steamboat Colorado, March 19, 2006

Clausen M, Arnold RW: Update on enhanced patched acuity, VisionQuest and Tent photoscreening. MatSu School Nurses Meeting, Machetanz Conference Center, Wasilla AK, April 19, 2006.

Arnold RW, Clausen M, Regan J: Update on sensory and objective vision screening in schools, Anchorage School Nurses meeting, Capt Cook Hotel, Anchorage, April 22, 2006.

Arnold RW: Influence of Pacific Race on ROP and vision, Distict VIII Neonatology, Alyeska Prince, Alaska, June 30, 2006.

Arnold RW, Schmidt C, Clausen M: Vision Screening and PlusOptiX S04 in Alaska, PAMC Anchorage, August 17, 2006.

Arnold RW: Valid Efficient Pediatric Amblyopia Screening, Providence MatSu Health Care, Wasilla, August 30, 2006.

Arnold RW: Amblyopia- Emerging guidelines and External Disease. Alaska Nurse Practitioner Association 23<sup>rd</sup> Annual, Downtown Marriott, Anchorage, Alaska October 6, 2006.

Arnold RW, Clausen MM: Amblyopia Elimination: The Best We Can Do; Pediatric Grand Rounds, Alaska Regional Hospital, Anchorage October 31, 2006.

Arnold RW: RadioOpaque "Wrights" Superior Oblique Tendon Expander. Pre-AAO Pediatric Eye meeting, Cesar's Palace, Las Vegas, NV November 10, 2006.

Arnold RW, Retinopathy of Prematurity Scheduling and Recording Software: Staff and Parent Initial Acceptance (Poster) AAO PO371 Las Vegas, 11/12/06

Arnold RW, Clausen MM, Ryan HA, Leman RE, Armitage MD: Predictive Value of Inexpensive Digital Photoscreening (AAO Talk PA075), Las Vegas, 11/13/06

Eby E, Aleshire J, Arnold RW: Amateur Iritis Detection- Initial Parent Seminar: Ophthalmic Associates, Anchorage, 1/27/07.

Arnold RW: Vision Screening Update: Providence Alaska Family Practice Residency conference, Anchorage, 2/2/07

Arnold RW: Terminal Amblyopia Care: Safely Stop Spectacles protocol proposal, PEDIG, Tampa Florida, 2/11/07.

Kirk VG, Clausen MM, Armitage MD, Arnold RW: Treatment outcomes following toddler photoscreening, AAPOS, Seattle, Washington, April 12, 2007.

Clausen MM, Armitage MD, Arnold RW: Supply and educate gets patched HOTV acuity testing done (Poster), AAPOS, Seattle, Washington, April 12, 2007.

Arnold RW, Donahue SP, Hered RW: Rationale and technology for vision screening (Workshop), AAPOS, Seattle, Washington, April 13, 2007.

Eby E, Arnold RW: Iritis detection by parents. Ophthalmic Associates, Anchorage May 22, 2007

Arnold RW, Aleshire J, Eby E: Iritis detection for Family Practice. Providence Family Practice Residency Noon Lecture. May 23, 2007

Arnold RW: Ocular manifestations of Child Abuse. Mat Su Medical Center Grand Rounds, Wasilla, May 29, 2007.

Arnold RW: ROP- Nature and Nurture. NIC/Q Pod Visit, The Childrens Hospital at Providence, June 11, 2007.

Arnold RW: NICU ROP Exam Process, NIC/Q Pod Visit, NICU Providence, June 12, 2007.

Arnold RW, West E: Enhanced vision Screening for school nurses: Amblyopia- blurred Vision – Cure – Detection. ASD Inservice, Anchorage, August 17, 2007.

Arnold RW, Palin S, Parnell, S, Kirk VG, Leman R, ABCD: The ABCD Launch- Statewide elimination of Amblyopia. [TCH@P](mailto:TCH@P), Anchorage, August 29, 2007

Christiansen SP, Chandler DL, Holmes JM, Arnold R, Birch EE, Melia M, Repka MX, Suh DW, Ticho BH, Wallace DK, PEDIG: Alignment instability in infantile esotropia. (poster), AAPOS, Washington DC, April 4, 2008.

Pratt L, Arnold RW: Muscle tension and oculocardiac reflex: influence of duration and second muscle. (poster), AAPOS, Washington DC, April 5, 2008.

Arnold RW, West E, Arnold K: Amblyopia reduction in Anchorage and Alaska through objective and sensory school screening. Anchorage School District Nurses; September 9, 2008.

Arnold RW: photoscreening time is ready, Pediatric Subspecialty Day, AAO, Atlanta November 8, 2008

Arnold RW: Practical Portable Clinical Photoscreening, American Orthoptic Association, AAO, Atlanta, November 9, 2008

Arnold RW: Review the Kirk Article, Editor's Choice, AAO, Atlanta, November 10, 2008.

Silbert, David I, Matta NS, Arnold RW, Singman EL: Evaluation of the Plusoptix S04 photoscreener and the MTI photoscreener compared to comprehensive pediatric ophthalmology examination (Poster), AAPOS, San Francisco April 18, 2009.

Arnold RW: Practical Electronic Medical Record Comparison (Workshop), AAPOS, San Francisco April 19, 2009.

Arnold RW, ONeil J: practical experience and future of photoscreening, PediaVision Reception at AAPOS, San Francisco, April 19, 2009.

Matta NS, Arnold, RW, Singman EL, Silbert DI: What do we do when the film runs out? Comparing the PlusOptix to the MTI Photoscreener, World congress of Pediatric Ophthalmology, Poster, Barcelona, Spain September 12-13, 2009.

Silbert, DI, Arnold RW, Matta NS, Singman EL: What do we do when the film runs out? Comparing the PlusOptix to the MTI Photoscreener, European Strabismological Association. Belgrade Serbia, October 4, 2009.

Arnold RW: Management of Pediatric Red eye, and the Iritis Model. Alaska Family Practice Residency Noon Lecture, January 14, 2010, Anchorage, Alaska

Arnold RW: Burma Vision, Alaska Eye Meeting, Anchorage, Alaska April 7, 2010.

Arnold RW, Eby E, Aleshire J, Arnold AW: Home monitoring of JRA iritis; Feasibility of a model. AAPOS (poster), Orlando, Florida, April 17, 2010.

Arnold RW: Eliminate Amblyopia in Alaska- Presentation to Ward Hinger and Stephanie Birch, 17<sup>th</sup> floor Robert Atwood Building, Anchorage, July 12, 2010.

Arnold RW: Vision Screening, optics, refraction and optical dispensing. FBR medic training, Tha Uh Wah Camp, Kawthoolei Jungle School of Medicine, October 25-November 2, 2010.

Arnold RW, Tulip D: Remote vision screen plus provision of spectacles eliminates blindness. AAP Grand Rounds, Anchorage, Alaska (ARH), December 14, 2010.

Arnold RW: Vision screening, optics, refraction and optical dispensing. FBR Medic Training, Leh Tong Ku, Thai-Burma Border, March 7-11, 2011.

Arnold RW: High prevalence of AAPOS amblyopia risk factors, AAPOS. San Diego. March 31, 2011.

Arnold RW: Burma Vision. Sons of Norway, Anchorage. October 13, 2011.

Arnold RW: Eye trauma. Flight Nurse Conference, Alaska Regional Hospital. November 3, 2011.

Arnold RW, Mortensen C: Red eye and iritis, Alaska Family Practice Residency noon conference, November 15, 2011.

Arnold RW: AAPOS, Modified, portable A-scan from an "immersion" USB B-scan (poster). March 25, 2012, San Antonio, Texas

Arnold RW, Trujillo A, Trujillo C, McAllister, R: Eye Lecture and Practical Teaching-3 hours, Alaska Family Practice Residency, Anchorage, Ak, June 29, 2012.

Arnold RW: Burma Vision method for remote missions. Christian Medical and Dental Association, Providence W Aud. Anchorage, Alaska August 25, 2012.

Arnold RW, Nay Hser: Basic eye anatomy and vision screening; FBR Medic Training, Bung Klung, Thai-Burma border, March 12, 2013

Nay Hser, Arnold RW, Therin, M (D): Vision screening, acuity and optics, FBR Medic Training, LehTongKoh, Thai-Burma border, March 14, 2013.

Arnold RW, Armitage MD: iCheckKids, SPOT, iScreen and PlusoptiX performance in a high-risk, young pediatric eye practice. AAPOS. Boston, Mass., April 6, 2013. (Discussed by Sean Donahue, MD, PhD)

Arnold RW: Ocular manifestations of Neurofibromatosis. NF Symposium Alaska. May 19, 2013, Providence Alaska Medical Center.

Arnold RW, Jacob J, Matrix Z: A cloud-based EMR for ROP exams optimizes scheduling, tracking and documentation of ROP exams and treatment (Poster), Vermont Oxford Network, Chicago, October 5-6, 2013.

Arnold RW, Armitage MD: Practical Validation of Plusoptix S12, iScreen, SPOT and iCheckKids. American Academy of pediatrics, Orlando, Florida, October 25 and 28, 2013 (Poster)

Matta N, Silbert D, Arnold R.: Comparison of the iScreen to the MTI photoscreener for the detection of amblyopia risk factors in children. 36<sup>th</sup> meeting of the European Strabismological Association, Marseille France, September 4-7, 2013.

Arnold RW: Practical Photoscreening in Alaska. All Alaska Pediatric Symposium. Girdwood, Alaska November 2, 2013.

Kirk SL, Armitage MD, Arnold RW: Calibration of a new remote autorefractor, the 2WIN compared to PlusoptixS12 and SPOT with amblyopic patients. Poster, AAPOS, Palm Springs, CA, April 5-6, 2014.

Tarczy-Hornoch K, Arnold RW, Bininbaum G, Droste PJ, El-Dairi M, Nallasamy S, Pineles SL, Quinn G: Research Committee Workshop: I want to do a research study. Where do I begin? AAPOS Palm Springs, CA. April 4, 2014.

Arnold RW: What Good is Light? Commencement Address, Grace Christian School. May 13, 2014 at West High Auditorium, Anchorage, AK.

Arnold RW: Nystagmus. Pediatric Grand Rounds, Cancer Conference Room Providence, September 2, 2014.

Arnold, RW: Remote spectacles and optics. FCC Missions outreach, September 11, 2014 Anchorage, Alaska

Arnold RW: Nystagmus. ACES staff noon lecture, September 16, 2014, Anchorage, Alaska

Arnold RW, Wedell Darcy, Pei, Ron: Photoscreening with a Smart phone. September 23, 2014, Anchorage, Alaska.

NayHser, Arnold RW: Detection and treatment of strabismus and amblyopia risk factors using photoscreeners in a Burma war zone. IPOS IV Pre-Academy Meeting, Chicago, Illinois, October 17, 2014.

Arnold RW, West E, Winkle RK, Grendahl RG, : Eliminate Amblyopia Conference. Providence West Auditorium, Anchorage Alaska. January 21, 2015

Arnold RW: Strabismus and cataract surgery. Staff training. Alaska Children's EYE & Strabismus, Anchorage. 1/26/2015.

Arnold RW: Strabismus surgery, Oculocardiac reflex and Burma cataracts. Staff education. Alaska Surgery Center, Anchorage February 3, 2015.

Haering C, Arnold RW: Multi-tool instrument decreases complications with nasolacrimal intubation. E-Poster. AAPOS, New Orleans April 26, 2015.

Silbert DI, Arnold RW: Do we need to directly detect astigmatism when photoscreening for ARFs? E-Poster. AAPOS, New Orleans April 26, 2015.

Arnold RW, Silbert DI: Efficacy of a mobile smart phone vision-screening device with automated image-processing analysis in the evaluation of amblyopia risk factors in preschool children. AAPOS New Orleans, April 28, 2015.

Arnold RW: Photoscreeners Compare and Contrast. In Workshop "Use of Digital Photoscreeners to Detect Amblyopia Risk Factors (ARFs), A Multidisciplinary Evidence-Based Approach; Care and Cost Implications. By Silbert DI, Sponsored by Gobiquity. AAPOS, new Orleans April 28, 2015.

Arnold RW: ROP. Staff Training- Alaska Childrens EYE & Strabismus, Anchorage, Alaska 7-10-2015

Smith K, Arnold RW: Vision and Learning. Pediatric Grand Rounds, ANMC primary Care, Anchorage, Alaska January 19, 2016.

Bond AN, Beerle B, Arnold RW. Dexmedetomidine sedation produces more oculocardiac reflex during strabismus surgery, e-Poster, AAPOS Annual Meeting, Vancouver, BC, Canada April 6-10, 2016.

Arnold RW: ROP and NICU Staff: How to Thrive. NICU nurse conference, Providence Hospital, Anchorage, 4/26/2016.

Arnold RW, Gung Zaw: "Generosity as Stewards (Lk 16:1-9 and 2 Cor 9:8-15) Myanmar Christian Fellowship, Anchorage 5/1/2016.

Arnold RW: Devotion from Luke 4:18- oppressed, blind, poor and imprisoned. Free the Oppressed board meeting, Lake George, Colorado July 9, 2016.

Arnold RW: Arming local providers to do "Spectacular" work. Christian Ophthalmology Society meeting, Portland, OR August 4, 2016.

Arnold RW, Gung Zaw: Always be Prepared (1 Pe 3:15), Myanmar Christian Fellowship September 11, 2016.

Arnold RW: Nystagmus- Classification, Characterization and Care. Latouche Eye Conference for Optometrists, Anchorage, November 29, 2016

Smith K, Arnold RW, Rein Kimala: Update on Childhood vision Screening from developmental viewpoint, Programs for Infants and Children, Anchorage. November 30, 2016.

Arnold RW, Gunt Zaw: Gate and Shepherd (John 10:7-16) Myanmar Christian Fellowship. Anchorage December 4, 2016.

Arnold R and Toh: Introduction to vision, optics and refractive dispensing. Jungle School of Medicine Kawthoolei, Karen State, Burma, December 27, 2016.

Arnold AW, Grendahl RL, Winkle RK, Arnold RW: Direct measurement of optic nerve size with ultrawide digital camera, (Poster), AAPOS, Nashville, April 2-6, 2017.

Arnold RW, Biggs R, Beerle, B: Dexmetadomidine (Precedex) increases oculocardiac reflex (e-Poster), AAPOS, Nashville, April 2-6, 2017.

Arnold RW, Gunt Zaw: "Rolling Stone" Myanmar Christian Fellowship, Anchorage Alaska. April 16, 2017.

Wilson D, Hser Nay, Arnold RW: Retinal Rescues and Burma Vision. Alaska Eye Meeting. May 17, 2017, Anchorage.

Arnold RW: Eye Muscle Surgery: ACES staff training. Anchorage, Alaska September 8, 2017.

Arnold RW: Validation- Pediatric Vision Screening. POWER ONE Network AAO (Pending)

Arnold RW: PPV of Gobiquity- Validation of Vision Screening. Pediatrics Grand Rounds, Anchorage October 17, 2017.

Arnold RW, Gunt Zaw. Talents. Myanmar Christian Fellowship, Anchorage, November 26, 2017.

Arnold RW: Validation and Vision Screening for Alaskan Optometrists. Anchorage. November 30, 2017.

Arnold RW: Remote Nasolacrimal Care for ANMC Optometrists. Anchorage, December 1, 2017.

Arnold RW, Hser Nay: Eye lecture and spectacles, Jungle School of Medicine Kawthoolei, Karen State, Burma December 6, 2017.

Arnold RW, Doh Say: Chapel. ThaUWah Camp, December 10, 2017.

Arnold RW, Damarjian, A, Smith KA: Sensory testing and stereopsis with Nintendo 3DS game. AAPOS-ASA Annual meeting (Poster), Washington DC, March 19, 2018.

Arnold RW, Knotek MJ, Rowe KS: Ten Essentials of Marriage. Wedding Commissioner. Anchorage, Alaska. August 10, 2018

Arnold RW: PDI Check Vision Screening Game. Shark Tank (Awarded 4<sup>th</sup> Place). Christian Ophthalmology Society Annual Meeting. Estes Park, CO. July 20, 2018.

Arnold RW, West E, Garrity J: The science behind school nurse vision screening. Anchorage School District nurses in-service. Anchorage, Alaska. August 16, 2018.

Arnold RW: Calibrating and Validating Novel Conventional and Video Game Vision Screening Technology. American Association of Certified Orthoptists. Sheratin Hotel Chicago, October 27, 2018.

Arnold RW: Near vision testing with the Nintendo 3DS PDI Check game: Burmese versus American Subjects. AACO/AAPOS Joint Symposium, Gunter vonNoorden Tribute. Sheratin Hotel Chicago. October 29, 2018

Arnold RW, Jacob J, Matrix Z, Ticho B, Skopec D: Factors Associated with Retinopathy of Prematurity Work Load. ROP Hot Topic. University Club Chicago, October 31, 2018.

Arnold RW: Pediatric Grand Rounds, Providence, Anchorage, Alaska. November 6, 2018.

Smith K, Arnold R, Martin S, Rowe K, Hser N, Htoo HE, Khin R: Compared near vision testing with the Nintendo 3DS PDI Check game on the Thai-Burma border. (Poster) American Academy of Optometry, San Antonio, Texas, November \_\_ 2018.

Arnold RW: Calibrating and Validating Novel Conventional and Video Game Vision Screening Technology. Optometric Meeting. Anchorage, Alaska December 6, 2018.

Arnold RW: Importance of photoscreening. Skype conference Padova, Italy, Adaptica Academy. January 17, 2019 5:15-5:40 pm Central Europe Time.

Arnold SL, Arnold AW, Sprano JH, Arnold RW: Performance of 2WIN photoscreener with novel C.R. infrared wand strabismus estimation compared to Retinomax and comprehensive examination. (Poster) AAPOS San Diego, March 28-31, 2019.

Smith KA, Arnold AW, Arnold SL, Sprano JH, Arnold RW: Performance of the Nintendo 3DS PDI Check quick screening game on children and adults with and without binocular suppression. (Poster) AAPOS San Diego, March 28-31, 2019.

Arnold AW, Arnold SL, Sprano JH, Arnold RW: Estimating Cycloplegic Retinoscopy by School Bus Accommodation-Relaxing Skiascopy (SBA-RS). (Poster) AAPOS San Diego, March 28-31, 2019.

Arnold RW: Numeric equivalents for alpha acuities: Salvation for EMR research disasters. (Poster) AAPOS San Diego, March 28-31, 2019.

K Ahmad (MEDNAX), V Tolia, J Jacob, A Kelleher, N McLane, R Arnold, R Clark: Two Year Outcomes of Infants with Stage 2 or Higher Retinopathy of Prematurity: Results from a Large Multicenter Registry (Poster). Pediatric Academic Societies. Neonatal Follow-Up: Neonatal Diseases & Neurodevelopmental Outcomes 1, Baltimore, MD, 4/28/2019

Arnold RW: Plusoptix S20 development, Nuremberg, Germany May 7-8, 2019

Arnold RW: AMGO Conference. Palermo, Italy May 10-12, 2019.

Arnold RW: Amblyopia screening in the USA and the importance optical correction early in the age of development. AMGO first session, Palermo 5/10/19

Piozzi E, Arnold R.W.: Amblyopic patient surgical management. AMGO Palermo 5/10/19.

Arnold RW: Practical adaptation of new AAP ROP Guidelines. Vermont Oxford Network, Anchorage, Alaska June 4, 2019.

Arnold RW: Accommodation Relaxing Skiascopy. Shark Tank. Christian Ophthalmology Society Annual Meeting. Kansas City, MO. August 1, 2019

Arnold RW and Leavitt A: Affordable and Fast pediatric vision screening. Alaska Family Practice Residency Didactic Lecture. October 17, 2019

Arnold RW: Chalazia, Hordeolum, Ocular Surface Disorders and Childrens Vision. Pediatric Grand Rounds, Alaska Regional Hospital Administration Conference Room, October 22, 2019.

Arnold RW: Chalazia and ocular surface disorders. KANA, Kodiak Alaska October 25, 2019.

Arnold RW, Smith KA: Pediatric use of OPTOS and video games for children's vision. South Central Foundation Optometry Meeting, Anchorage, December 13, 2019.

Arnold RW: Vision for a Fit Future: PLAAY conference, Anchorage, ANTHC Consortium Bldg, February 14, 2020.

Arnold RW: Detection and treatment of the three types of Amblyopia- Introduction of the Reblion blinq. Pediatric Grand Rounds, Providence Cancer Center Conference room, February 18, 2020.

Arnold RW, Smith KA, Woodruff J: Vision update. Line ONE radio, Anchorage, February 26, 2020.

Weaver DT, Arnold R, Lee K, Murdock TJ, Suh DW: Pediatric Eye in the Wild Blue Yonder. Workshop, AAPOS, San Antonio Texas March 27, 2020. **CANCELED DUE TO COVID-19**

Nischal K, Bradford G, Arnold RW, Suh DW, Herce H, Granet D: Digital Health- Implications for Pediatric Ophthalmology. Workshop, AAPOS, San Antonio, Texas. March 27, 2020. **CANCELED DUE TO COVID-19**

Vaughan J, Arnold RW: Prospective evaluation of a Smartphone application GoCheck Kids to detect amblyopia risk factors in young children. Poster #104, AAPOS San Antonio, Texas. March 28, 2020. **CANCELED DUE TO COVID-19**

Martin SJ, Htoo HE, Arnold RW: Custom housing enhances the performance of two photoscreeners. Poster #105, AAPOS San Antonio, Texas. March 28, 2020. **CANCELED DUE TO COVID-19**

Arnold RW, Rinner A, Beerle B: The impact of re—operation, relatives and race on the oculocardiac reflex. Poster #new 189, AAOS San Antonio, Texas. March 28, 2020. **CANCELED DUE TO COVID-19**

Arnold RW, Rrujta E: Adaptica Webinar Series: Adaptica for Alaska Blind Child Discovery Charitable, WebinarNinja. April 21, 2020, 7:00 am AST.

Arnold RW, Arnold KK: Be Patient. Evening Virtual COVID-19 Devotions, Clearwater Church, Anchorage, Alaska May 7, 2020.

Arnold RW, [Matrix Z, Jacob, J]: ROP-Check helps in Africa, AAO- Conference (virtual), December 5, 2020.

Arnold RW: Prognostic Implications of blinq. PEDIG Winter virtual meeting, January 23, 2021.

Arnold RW, Erzurum A: Chalazia New Study Idea. PEDIG Winter virtual meeting, January 23, 2021.

Arnold RW: Strabismus for the Pediatrician. Kodiak Conference KANA, March 11, 2021 Virtual Zoom.

Arnold RW: Strabismus for the Pediatrician. Alaska Pediatric Grand Rounds. March 23, 2021. Virtual Zoom.

Arnold RW, Smith Larry: Tools to Help You Prevent Blindness. Alaska Family Practice Residency. April 1, 2021.

Arnold RW, Schumacher G, Ball M, Arnold, AW, Grendahl RL, Winkle RK: Oculocardiac reflex during Retinopathy of Prematurity exams. E-Poster, AAPOS Virtual April 9, 2021

Arnold AW, Smith KA, Molina A, Damarjian AG, Arnold RW. Trichromaticenhanced dynamic color screening with a Nintendo 3DS game, E-Poster, AAPOS Virtual April 9, 2021

Beveridge J, Martin SJ, Beveridge N, Metzger EA, Smith KA, Arnold RW. Grading Spectacle Similarity. E-Poster, AAPOS Virtual April 9, 2021

Weaver DT, Arnold R, Lee K, Murdock TJ, Suh DW: Pediatric Eye in the Wild Blue Yonder. Workshop, AAPOS,Virtual, April 10, 2020

Wyganski-Jaffe, Arnold RW, Chiang MF, Demer JL, Hunter DG, Toth CA, Yang P.: New technologies in pediatric ophthalmology: A view from inside. AAPOS Virtual April 10, 2020.

Shira L. Robbins, MD, FAAO, FAAP; Brent A. Siegel; Lance M. Siegel, MD; Eric A. Packwood, MD; Socioeconomic committee: The Strength of Rebound: Patient Care and Financial Consequences of COVID-19 in U.S. Pediatric Ophthalmology (Poster), AAPOS Virtual April 9, 2021.

Arnold RW: Updated International Uniform Guidelines for Pediatric Vision Screening and how they apply to Alaska Practices. Alaska Pediatric Virtual Symposium. October 1, 2021 Anchorage, Alaska.

Arnold, RW: The EYES have it: What to know about Alaskan Pediatric Ophthalmology 2021. Alaska Pediatric Virtual Symposium. October 1, 2021. Anchorage, Alaska.

Arnold, RW: Focus on Amblyopia and Reading for ASD students. Anchorage School District nursing Inservice, November 11, 2021, Anchorage

Arnold RW: Wedding service for Robby and Bridget Sanders, Kona, Hawaii, December 3, 2021.

Siegel L, Arnold RW: Socioeconomic Opportunities and Challenges in Pediatric Ophthalmology, Socioeconomic Committee AAPOS, March 23, 2022, Scottsdale, Arizona.

Mahlen T, Arnold RW: Non-refractive vision screening with two binocular video games and birefringent scanning. Poster. AAPOS March 24, 2022, Scottsdale, Arizona.

Silbert DI, Mojesky H, Arnold RW: 2021 Instrument referral criteria for PlusoptiX, SPOT and 2WIN Targeting AAPOS 2021 Guidelines. Poster, March 24, 2022. AAPOS. Scottsdale, Arizona.

Arnold RW: Curesight- Binocular Amblyopia Therapy. March 24, 2022. Novasight Reception. AAPOS, Scottsdale, Arizona.

Arnold RW, Angi M: Targeting Amblyopia with diverse technologies: birefringent scan, autostereoscopic rivalry and photorefraction. AAPOS. March 25, 2022. Scottsdale, Arizona.

Arnold RW, Mahlen T: Non-refractive vision screening with two binocular video games and birefringent scanning.. Rapid Fire Poster presentation, March 25, 2022. Scottsdale, Arizona.

Arnold RW: Binocular Treatment of Amblyopia. Alaska Eye Meeting. May 3, 2022.

Arnold RW: New Amblyopia Therapy- Binocular Dichoptic offers hope even with minimal compliance. All Alaska Pediatric Symposium, Capt Cook, Anchorage 11:30-12:30 9/30/2022

Arnold RW: Portable digital imaging with Phoenix ICON Go, ACES Tech lunch, Anchorage. October 6, 2022.

Arnold RW, Arnold SL: Remote Retinal Camera Options for the Eye Doctor, Virtual. 5<sup>th</sup> Annual ROP Update, Cleveland, Ohio October 8, 2022.

Arnold RW: Practical Eye doctor utilization of Portable contact retinal photography. Neolight Regional Sales, Pleasanton, CA October 17, 2022.

Arnold RW: The Bear went over the Mountain. Clinical Reviews, NICU Providence Hospital, Anchorage, Alaska October 20, 2022.

Arnold RW: Dichoptic Therapy for Amblyopia and Pediatric Imaging, South Central Foundation Optometry Meeting, Anchorage, December 1 2022

Arnold RW: Cataract surgery- phaco, pediatric and MSICS. ACES staff, Anchorage, December 16, 2022.

Arnold RW: Trigemino-vagal reflexes and the Resurrection. Christian Medical and Dental, Anchorage, Alaska May 19, 2023.

Arnold RW and Delzer, D: Can we eliminate amblyopia? Tanana Valley Pediatric Department Lecture, Fairbanks, January 19, 2024.

Arnold RW: Remote sphero-cylinder spectacles. District 49A 3rd Cabinet meeting,, Eagle River Lions Den, January 27, 2024.

Arnold RW, Arnold KK, Hager E: Burma: Vision, Hearing and Air Ambulance. ClearWater Church, Anchorage. February 25 2024.

Arnold RW. Enhancing Pediatric eye input with Intellichart/Nextech. Alaska Children's EYE & Strabismus lecture, March 1, 2024.

Wu K, Shatten, J, Arnold RW: Glaucoma, Cornea and Dichoptic Rescue. Alaska Eye Meeting. April 3, 2024.

Schaafsma, JD, Arnold RW: Pre-cycloplegic diagnostic value of photoscreening and accommodation-relaxing sciascopy. AAPOS Poster, April 10 2024, Austin Texas.

Wyganski-Jaffe T, Chiang MF Freedman S, deAlba Campomanes A, Silverstein E, Arnold R, He M Silbert D: "Two Rods for Amblyopia Compliance" Technologies reshaping pediatric ophthalmology clinic/operating room: improving patient care and efficiency AAPOS Workshop, April 9, 2024 Austin, Texas.

Hager E, Valentine H, Arnold RW: Air Ambulance, History and Burma Vision. ClearWater Church Missions, 3300 Spenard, April 13, 2024.

Arnold RW: Objective Vision Screening- Applying technology to remote regions of the world. AAO Global Ophthalmology Summit, Portland OR August 9-11 2024.

Arnold RW, Karlberg L, Sweeney T: . AAPOS Salt Lake City March 2025

Arnold RW, Hutchinson, A: Vision Screening Workshop, AAPOS Salt Lake City. March 7, 2025.

Arnold RW: Moptim MRT-200, 2WIN and Retinomax refraction comparison. ACES Research Lunch, 4/29/2025 Anchorage.

Arnold RW, Townley JR: Estimating and comparing refractive error for pediatric ophthalmology and medical missions, and corneal cross linking, Alaska Optometric Association, Marriott, Anchorage. May 3, 2025 10 am.

Arnold RW: Burma Vision update. Christian Medical and Dental, Eagle River, Alaska. May 3, 2025.

Arnold RW: The prevalence and severity of isolated strabismic amblyopia. IU Fellows 50<sup>th</sup> meeting, Indianapolis, IN September 27, 2025

Arnold RW: Dry Refraction from Alaska and Burma. IU Fellows 50<sup>th</sup> meeting, Indianapolis, IN September 27, 2025

Reicks BJ, Arnold RW: Trigeminal afferent oculocardiac reflex comparison between conjunctival incision and rectus tension. [poster A85] AAPOS Boston, Mass. March 20, 2026

Arnold, RW, Reicks BJ: Comparative validation of the new photoscreener for pediatric pre-cycloplegic exams. [poster A55] AAPOS Boston, Mass. March 19, 2026

Mehta U, Arnold RW, Jacob J, Hutchinson A, Hubbard GB, Adams C: "Incidence and Early Course of Retinopathy of Prematurity in Micro-Premature Infants: The ROP-Check Cohort Study" Resident Talk, AAPOS Boston, Mass. March 21, 2026

Arnold RW: Vision for Burma. Alaska Medical Missions, BP Energy Center Anchorage, Alaska. April 21, 2026.

Jacob J, Arnold RW: Update on ROP. Pediatric Grand Rounds, Anchorage, Alaska April 28, 2026.

Arnold RW: Afferent Stimuli for the oculocardiac reflex. Alaska Eye Meeting, Anchorage, Alaska April 28, 2026.

Jacob J, Arnold RW: ROP for the NICU. Neonatology Rounds, Providence Hospital, Anchorage, Alaska April 30, 2026.

**In Progress or stagnation:**

*Arnold, R.W., Bartley, G.B. Intraoperative fire.*

*Arnold, R.W., Yung, C.W., Engel, W.K., Plager, D.A., Helveston, E.M., Ellis, F.D. Ocular polydysmorphogenesis: With and without the CNS defects of the Walker-Warburg Syndrome.*

*Hughes R, Davidson J, Arnold RW, Helveston EM: A comparison of the Mentor BVAT® stereo test with Titmus®, Randot® and TNO®.*

*Arnold RW: Desaggitized rectus muscles: intraoperative evidence of retraequatorial muscle pulleys?*

*Longitudinal Infant Visual Exams (Providence IRB)*

*Arnold RW, Steiner G: PTK for deprivational amblyopia in Alaska.*

*Rosen CE, Arnold RW: Alaska experience with pediatric orbital masses*

## AFFILIATIONS:

Providence Hospital, Anchorage, Alaska (Section Chief, Ophthalmology;Surgery '92-92)  
Alaska Regional Hospital, Anchorage, Alaska  
The Surgery Center, Anchorage, Alaska  
Geneva Woods Surgery Center, Anchorage, Alaska  
Cordova Hospital, Cordova, Alaska- lapsed  
Kodiak Island Hospital, Kodiak, Alaska  
Alaska Native Hospital, Anchorage, Alaska (1990-2011; 20  
Elmendorf Airforce Base Hospital consulting surgeon- lapsed  
*Providence MatSu Medical Clinic, Wasilla, Alaska*  
*The Spine Institute- Surgery Center (2011-2013)*  
*Surgery Center of Anchorage (2010-2015)*  
*Creekside Surgery Center (lapsed)*  
*Geneva Woods Surgery Center (lapsed)*  
The Alaska Surgery Center (1990s, 2013- ) Shareholder (8/2014 - ) PAB (2015- ), Building  
Committee (2019- 21)  
Valley Hospital, Palmer, Alaska (withdrawn anytime they allow abortion)  
South Penninsula Hospital, Homer, Alaska

Scopus Author ID: 7401731156

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One Research: One Index 676

Research Gate: **1,596** Research Interest Score

ScholarGPS® ID: 69790417077019

American Academy of Ophthalmology (Fellow '91, Life Member 2020)  
American Association for Pediatric Ophthalmology and Strabismus (Member 2/11/92)  
Socio-Economic Committee (93-96, 2011-20)  
Vision Screening Committee (97- ) Chair (2003-6)  
Consultant (2007- 2012-2020)  
Nominating Committee (97-98)  
Research Committee (2012-2015)  
American Academy of Pediatrics- Ophthalmology Section (2012-  
Alaska Physicians and Surgeons (96-2013) Steering Committee Secretary (3/96-2/98)  
Alaska Eye Meeting (coordinator '92-)  
Anchorage Grace Brethren Church (Member (1990-2012), Deacon 1996-9)  
Faith Christian Community (2011- 2019) (Missions Council 2011-4, Chair 2012- 4)  
Clear Water Church (2015- )  
Myanmar Christian Fellowship (2014-  
Grace Christian School Board (1999-2005, Treasurer 2000-01, President 2001-5) ), Capital  
Campaign (2005- 2008)  
Anchorage Crisis Pregnancy Center, Medical Advisory Board (90-93)  
Alaska State Medical Association (1989-2019)  
Alaska Medicine Editorial Board (1999-2008)  
Alaska Biathlon Association (USBA # 2962)  
Binocular Vision and Strabismus Quarterly, editorial board (2002-2014)  
Yale Journal of Biology and Medicine, student editor (1982-1984)  
Bible Study Fellowship (1990-96)  
Nordic Ski Association of Anchorage  
Anchorage Trail Patrol-founder (1995-  
Promise Keepers (ID# 503391: 1995-)  
Alaska Parenting Ophthalmic Advisory Board: 1993-9  
Pediatric Eye Screening Study Group (1999-0)  
Eye Screening Project (2000-2)  
Pediatric Eye Disease Investigator Group (PEDIG) (1999-2010, 2019-)  
Amblyopia Treatment Study (1999-2012)  
Esotropia Treatment Study (2005-2007)

Chalazia Treatment Study (X0- 2018-)  
Alaska Men's Ministry (Board of Directors, VP; 2006-2014)  
Free Burma Rangers (2004- )  
Thai Christian Foundation  
Free the Oppressed (Advisory Board Member 2015- )  
Glacier Medical Software (president 2010- )  
542 Medical Office Building Corporation( <2000 - ?2026)  
PDI Alaska Medical Office Building Corporation (2015-)  
Alaska Surgery Center 1.06 +.5% shareholder (2014- ) MAB (2015- )  
AAO POWER Section Head: Pediatric Ophthalmology- Vision Screening (2015-  
Gobiquity Medical Advisory (2016-  
SRS CAB (Clinical advisory Board- 2017-2021)  
iScreen Advisory Board (2018- )  
PlusoptiX Advisory Board (2019- )  
Alaska Physicians and Surgeons (Surgery Center Landlord, 2021- )  
Neolight Advisor (2023- )  
Clinical Ophthalmology- Editorial Board (2024- )

## **Students and Research Associates:**

- '90 **Griff Steiner, MD** (Univ of Nevada Medical School, Reno)
- '92 Shachar Tauber, M.D., (Tulane) ASEO#1
- '93 William Gruzensky, M.D. (Loma Linda/U.C. Davis) ASEO#2
- '94 Stanley Pletcher, M.D. (U Indiana) ASEO#3
- '95 Robert Wolf, M.D. (U Minn) ASEO#4
- '96 **Scott A. Limstrom, M.D.** (U Arizona) ASEO#5
- '97 **Kara Ann Byers** [Beck] (Dimond High School, UAF)
- '98 **Matt Stump** (Seattle Pacific University)
- '98 **Adam Jastrzebski Ballinger, MD** (Service High School, University of Washington)
- '99 **Elisha [Gionet] Brownson, MD** (Grace Christian School, Univ of Washington)
- '99 **John Blackledge, DDS** (UAA, U Penn Dental)
- '99 **Jason Hicel** (Grace Christian School)
- '99 **Michael Owen** (Grace Christian School)
- '99 **Tatiana A. Kovtoun, MD** (UAA, Ben Gurian; BGCU Medical School, Syracuse General Surgery)
- '99 **Christy Machida, MD** (Grace Christian School, Columbia U, U off Washington)
- '00 Jenny Hultquist (Grace Christian School, Westmont)
- '00 **Andrew W. Arnold, DO** (Grace Christian School, UAF, UAA, PNWU)
- '01 Heather March (Grace Christian School)
- '01 **Dustin Lang, MD** (Wheaton, Univ. Wash Medical School)
- '01 Valla Jafari, M.D. ASEO#6
- '02 Patricia Manhire (UHS-COM)
- '03 Hans Tulip, MD (Grace Christian School, Masters College, U of W)
- '04 **Rachel [Leman] Brandt, RN** (Grace Christian School, UAA)
- '04 Charles Chiang (ASEO #7)
- '05 Matt Hammons, MD (ASEO #8)
- '05 **Holly Ryan, MD** (Grace Christian School)
- '06 **Michelle M. [Clausen] Sanders, RN** (Westmont, GCS, Johns Hopkins)
- '06 **Valerie G [Kirk] Goulet, BSN** (South and GCS, Peperdine)
- '06 **Erin Eby** (South, Polaris, UPS, Johns Hopkins)
- '06 **Jennifer [Aleshire] Mangandi** (Dimond, Homeschool)
- '07 Matt Madsen (Midwestern Osteopathic University, Phoenix, Arizona)
- '07 **Lucas E Pratt, PT** (Covenant College)
- '08 Seth Kresovsky, MD (ASEO #9) IU Residency
- '09 Matthew Guess, MD (ASEO #10), IU Residency
- '10 **Elizabeth Winkle** (Grace, Dartmouth)
- '11 **Aleah [Bond] Noel,** (Westmond College, Creighton Med, Wake Forrest Anesthesia residency)
- '11 **Laura Ellen [Arnold] Martin** (Grace, Westmont)
- '11 **Bethanne [Davis] Wilder, RN** (Grace, Union)
- '11 Curtis Mortensen, MD (Alaska Family Practice Residency)
- '11 **Kayla [Rowe] Knotek,** (Grace, MSU)
- '11 **Jodi [Davis] Johnson** (Grace, Cedarville)
- '11 Brian Cresap (Grace, Colorado School of Mines, UAF)
- '12 **Claire Trujillo** (Grace, Claremont )
- '12 **Anna Trujillo** (Grace, Wheaton)
- '13 Becky Clark, MD (Ak Family Practice Residency)
- '13 **Maya Tsao-Wu** (Grace, Claremont)
- '13 **Lauren Tsao-Wu** (Grace, Wheaton)
- '13 **Andrew Eller** (Univ Arkansas Med School, Grace- Harding)
- '13 **Nay Hser** (Karen Eye Medic, Judson hon doctor '17)
- '13 **Stephanie [Kirk] Arnold, DO,** (U of Vermont, PNWU)
- '13 **Celia Haering** (APU, UCSF)
- '13 **Shelley Dunn** (OA)
- '15 **Josh Beverage** (GCS, Gordon College, Idaho SOM)
- '13 Talisha Jackson Hinton (OA-ACES)
- '15 Alexander Foster (UW Med, San Antonio Eye)
- '16 Erin Swieter (PNWU)
- '17 Emma Mayfield (PNWU) 9/17
- '17 Hans Wilhelm (PNWU) 9/17
- '17 Jason Osborn (PNWU) 10/16
- '18 Michael Franklin (PNWU) 1/18

'18 Anthony Recidoro (PNWU) 7/18  
 '18 **Taryn Hunt-Smith** (Service, Dartmouth)  
 '18 **Hser Eh Htoo** (JSMK) 5/18  
 '18 **Ray Khin** (JSMK) 5/18  
 '18 **Sam Martin** (Westmont, Loma Linda) 5/18  
 '18 **Gus Schumacher** (Service, USST, Olympic Silver medalist 2026)  
 '18 **Jacob H Sprano**, (Grace, Kansas City College of Osteopathic Medicine)  
 '19 **Ainsley Rinner** (Grace)  
 '19 Alex Polston (Alaska Family Practice Resident)  
 '19 **Elise Metzger** (Grace)  
 '19 Jessica Kester (Grace, UAA, Nova Southeastern University - Osteopathic Medicine)  
 '19 **Alexa Leavitt** (Vanderbilt/GoCheck Kids)  
 '20 Blake Hoerdeman (PNWU) 1/2020  
 '20 Meagan Lange (PNWU, UAA, Chugiak High) 2/2020  
 '20 Vaishnavi Pochincherla (PNWU, UW, Redmond) 2/2020  
 '20 **Nathaniel Beverage** (GCS, USAF Academy)  
 '20 Emily K Davis (Linfield College, PNWU) (7/2020)  
 '20 **Steven P. Brown** (Grace, Martin Methodist)  
 '20 **Darion Heald**, (UAA, WWAMI)  
 '20 **Mason Keffalos** (Boise State- Creighton Medical School)  
 '21 Clara Monheit, MD (Providence Family Practice)  
 '21 Alex Dean (PNWU)  
 '21 Erica Burmood (PNWU, Arizona ER)  
 '21 **Tsaina Mahlen** (PNWU, New Mexico Anesthesiology)  
 '22 Eric Wartman (WWAMI- Providence Family Medicine)  
 '22 **Lucas Hepler** (PNWU)  
 '22 **Kennedy Fuglseth** (PNWU)  
 '22 **Laney Cuddihee**  
 '22 **Peter Giannulis (WAMI)**  
 '23 Finnian Moon (PNWU- ER medicine)  
 '23 **David Htoo** (Chaing Mai nursing, MPH Chaing Rai University 2026 )  
 '23 **Poe du Kirimalee** (JSMK)  
 '23 **Jacob D Schaafsma** (Wheaton, Milan)  
 '24 Kirsten Tucker (PNWU- OB-Gyn)  
 '24 Yelena Petric (PNWU- Pediatrics)  
 '24 **Lily Sessum Karlberg** (WWAMI)  
 '25 **Heidi Schumacher** (Service High)  
 '25 **Giancarlo Garaygay**, MD  
 '25 **Aana Ayagarlia**  
 '25 **Bryant Ikaika Luano**  
 #100  
 '25 **Breckin J. Reicks** (Wichita, Kansas)  
 '25 Raybelis Guzman  
 '26 Megan Roberts

### **Research Experience (2026):**

Alaska Blind Child Discovery  
 The Alaska Oculocardiac Reflex Study  
 Retinopathy of Prematurity from the ROP Check database  
 PDI Check comparative validation  
 PEDIG: UV-1 (uveitis) and CH-1 (chalazia)



Robert W. Arnold, MD • April 15, 2026