

Russell Swan

1925 N 22nd Ave Suite 201
Bozeman, MT 59718

russell.swan@vancethompsonvision.com
406-219-0700

EDUCATION

Vance Thompson Vision

Cornea, Glaucoma, Refractive Surgery Fellowship Jul. '16 – Jun. '17

University of Utah Residency

Internal Medicine/Ophthalmology Integrated Internship Jul. '12 - Jul. '13

Ophthalmology Residency Jul. '13 - Jun. '16

University of Nebraska Medical Center (UNMC), Omaha, NE

Aug. '08 - May '12

Doctor of Medicine; High Distinction

University of Nebraska-Lincoln (UNL), Lincoln, NE

Aug. '03 - Dec. '07

BSBA in Business Administration; Highest Distinction from Honors Program

APPOINTMENTS AND ORGANIZATIONS

University of Utah Department of Ophthalmology, Adjunct Assistant Professor Mar. '17 - Present

American Society of Cataract and Refractive Surgeons Member Jul. '14 - Present

American Academy of Ophthalmology Member Jul. '14 - Present

American Glaucoma Society Member Jul. '16 - Present

EyeCare America Seniors EyeCare Program Committee Member Oct. '16 - Present

Refractive Surgery Alliance Member Sep. '16 – Present

Cornea Society Member Jul. '16 - Present

LICENSURE

State of Montana Physician License Apr. '17 – Mar. '19

State of South Dakota Physician License Jul. '16 - Mar. '18

CLINICAL TRIALS

1. A Prospective Multi-Center Study of Anterior Lens Capsulotomy Using the Mynosys Zepto System.
 - a. Sponsor: Mynosys Cellular Devices, Inc.
 - b. My Role: Sub-Investigator
2. A Randomized Masked, Prospective Pilot Study of the Safety and Performance of the EyeGate Ocular Bandage Gel, A 0.75% Crosslinked Hyaluronic Acid Applied Topically for Accelerating Re-Epithelization of Corneal Epithelia Defects Resulting From Photorefractive Keratectomy (PRK) Used in Combination With and Without A Bandage Contact Lens
 - a. Sponsor: EyeGate Pharma
 - b. My Role: Sub-Investigator
3. A Randomized Masked, Prospective Pilot Study of the Safety and Performance of the EyeGate Ocular Bandage Gel, A 0.75% Crosslinked Hyaluronic Acid Applied Topically for Accelerating Re-Epithelization of Corneal Epithelia Defects Resulting From Laser-Assisted In Situ Keratomileusis (LASIK) Versus Artificial Tears
 - a. Sponsor: EyeGate Pharma
 - b. My Role: Sub-Investigator
4. A Prospective, Randomized, Controlled, Open-Label Study to Evaluate the Safety and Proof of Concept of Negative Pressure Applied to the Periocular Microenvironment Anterior to the Orbital Rim to Lower Intraocular Pressure (IOP)
 - a. Sponsor: Equinox, LLC

- b. My Role: Principal Investigator
- 5. A randomized, vehicle-controlled, subject and investigator-masked, proof-of-concept study to evaluate the use of topical ocular SAF312 in the treatment of postoperative ocular pain in patients undergoing photorefractive keratectomy (PRK) surgery
 - a. Sponsor: Novartis
 - b. My Role: Sub- Investigator
- 6. Prospective, Randomized Phase II Study Comparing Two Elution Rates of Glaukos Travoprost Intraocular Implants to Timolol Maleate Ophthalmic Solution, USP, 0.5%
 - a. Sponsor: Glaukos
 - b. My Role: Sub-Investigator
- 7. Quality of Vision or Patients Implanted with Intraocular Lens After Cataract Surgery
 - a. Sponsor: ClarVista
 - b. My Role: Sub-Investigator
- 8. Clinical Investigation of the TECNIS Next-Generation Intraocular Lenses
 - a. Sponsor: Johnson and Johnson Vision
 - b. My Role: Sub-Investigator
- 9. A Prospective, Open-Label Study to Evaluate the Safety of Negative Pressure Applied in the Periocular Microenvironment Anterior to the Orbital Rim Nightly to Lower Intraocular Pressure (IOP) in Subjects with Ocular Hypertension, Glaucoma Suspect, or Open Angle Glaucoma (OAG)
 - a. Sponsor: Equinox, LLC
 - b. My Role: Principal Investigator
- 10. A Prospective, Randomized, Controlled, Open-Label Study to Evaluate the Safety and Proof of Concept of Negative Pressure Applied to the Periocular Microenvironment Anterior to the Orbital Rim to Alter Spontaneous Venous Pulsations (SVP) by way of Modulating Intraocular Pressure (IOP).
 - a. Sponsor: Equinox, LLC
 - b. My Role: Principal Investigator
- 11. A Controlled, Cohort, Open-Label, Randomized Study to Evaluate the Application of Negative Pressure Applied to the Periocular Microenvironment Anterior to the Orbital Rim to Alter Visual Evoked Potential (VEP) and Pattern Electroretinography (ERG) Readings by way of Modulating Intraocular Pressure (IOP)
 - a. Sponsor: Equinox, LLC
 - b. My Role: Sub-Investigator

PUBLICATIONS

Kindle, T. Ferguson, T. Swan, R. *et al.* Safety and Efficacy of Intravitreal Injection of Steroid and Antibiotics in the Setting of Cataract Surgery and Trabecular Microbypass Stent. *JCRS*. 44:56-62, 2018.

Ferguson, T. Swan, R. *et al.* Evaluation of a Trabecular Micro-bypass Stent with Cataract Extraction in Severe Open Angle Glaucoma. *Journal of Glaucoma*. 27(1):71-76, 2018.

Hwang, E. Stagg, B. Swan, R. *et. al.* Corneal Biomechanical Properties After Laser-Assisted In Situ Keratomileusis and Photorefractive Keratectomy. *Clinical Ophthalmology*. 11:1758-1789, 2017.

Choi, R. Swan, R. *et al.* Retinal Manifestations of Juvenile dermatomyositis: Case Report of Bilateral Diffuse Chorioretinopathy with Pericentral Acute Middle Maculopathy and Review of the Literature. *Ocular Immunology and Inflammation*. 27:1-5, 2017.

Ferguson, T. Swan, R. *et al.* Evaluation of a Trabecular Micro-bypass Stent with Cataract Extraction in Pseudoexfoliation Glaucoma. JCRS. 43(5):622-626, 2017.

Ferguson, T. Swan, R. *et al.* Microbypass Stent Implantation with Cataract Extraction and Endocyclophotocoagulation Versus Microbypass Stent and Cataract Extraction in Patients with Glaucoma. JCRS. 43(3):377-382, 2017.

Bell, J. Shulman, J. Swan, R., *et al.* Intravitreal versus Subretinal Tissue Plasminogen Activator (tPA) Injection for Submacular Hemorrhage. OSLI Retina. Jan 48(1):26-32, 2017.

Swan, R., *et al.* Comparing Consistency of Clear Corneal Incisions Using a Traditional Diamond Keratome and a Newly Designed Diamond Keratome. Clinical Ophthalmology. Jul 31: 1399-404. 2015

Stagg, B., Ambati, B., Jarstad, A., Demill, D., Alberti, G., Jorgensen, A., Swan, R., Diagnostic Ophthalmology. Amirsys Publishing Inc. 2014

Kiyota, T., Ingraham, K., Swan, R., *et al.* AAV Serotype 2/1-mediated Gene Delivery of Anti-inflammatory Interleukin-10 Enhances Neurogenesis and Cognitive Function in APP+PS1 Mice. Gene Therapy. 19(7): 724-733, 2012

Xu, J., Sato, S., Okuyama, S., Swan, R., *et al.* Tau-tubulin Kinase 1 Enhances Pre-fibrillar Tau Aggregation and Motor Neuron Degeneration in P301L FTDP-17 Tau Mutant Mice. FASEB Journal, 24 (8): 2904-2915, 2010.

Kiyota, T., Okuyama, S., Swan, R., *et al.* CNS Expression of Anti-Inflammatory Cytokine Interleukin-4 Attenuates Alzheimer's Disease-Like Pathogenesis in APP+PS1 Bigenic Mice. FASEB Journal, 24 (8): 3093-3102, 2010.

Kiyota, T., Yamamoto, M., Schroder, B., Jacobsen, M., Swan, R., *et al.* AAV1/2-mediated CNS Gene Delivery of Dominant-negative CCL2 Mutant Suppresses Gliosis, B-amyloidosis, and Learning Impairment of APP/PS1 Mice. Molecular Therapy, 17 (5): 803-809, 2009.

Sato, S., Xu, J., Okujama, S., Martinez, L., Walsh, S., Jacobsen, M., Swan, R., *et al.* Spatial Learning Impairment, Enhanced CDK5/p35 Activity, and Downregulation of NMDA Receptor Expression in Transgenic Mice Expressing Tau-Tubulin Kinase 1. Journal of Neuroscience. 28 (53): 14511-14521, 2008.

INVITED ARTICLES

Farid, M. Swan, R. Tauber, S. Cataract After Radiation Treatment in a Posttraumatic Eye. Cataract and Refractive Surgery Today. In Press

Greenwood, M. Swan, R. Postsurgical Progression: Managing progressive glaucoma in patients who have had previous glaucoma surgery. Glaucoma Today. November/December 2017.

Hillman, L. Greenwood, M. Mamalis, N. Swan, R. Considering Intracameral Antibiotics. Eyeworld. November 2017

Lipner, M. Lee, B. Mamalis, N. Miller, K. Swan, R. Pharmaceutical Focus: Edging Out Endophthalmitis. November 2017

Hillman, L. Kanellopoulos, J. Greenwood, M. Swan, R. *et al.* Crosslinking: What the Young Ophthalmologist Needs to Know. Eyeworld. June 2017

Swan, R. Berdahl, J. Cerebrospinal Fluid Pressure (CSFP) and Glaucoma: My Perspective. Vindico Medical Education, 2017.

Swan, R. Berdahl, J. What a Refractive Surgeon Thinks About Astigmatism and Glaucoma Surgery. Vindico Medical Education. 2017

Swan, R. Berdahl, J. Phacoemulsification Techniques for Lens Removal. Cataract360 – Fundamentals, Techniques, and Technology. Vindico Medical Education. 2016

ONLINE PUBLICATIONS

Swan, R. Thompson, V. Superficial Keratectomy Technique Utilizing Femtosecond Spatula for Patients with Salzmann's Nodular Degeneration. *Moran CORE*. In Submission.

Swan, R, Chaya, C. Glaucoma Ahmed Tube Shunt. *Moran CORE*. Available at <http://morancore.med.utah.edu/section-14-ophthalmic-surgery/glaucoma-ahmed-tube-shunt/> Accessed August 29, 2016.

Swan, R, Chaya, C. Phaco-Trabeculectomy. *Moran CORE*. Available at <http://morancore.med.utah.edu/section-14-ophthalmic-surgery/phaco-trabeculectomy/> Accessed August 29, 2016.

Swan, R, Pettet, J. Small Incision Cataract Surgery (SICS). *Moran CORE*. Available at <http://morancore.med.utah.edu/section-13-ophthalmic-refractive-surgery/small-incision-cataract-surgery-sics/> Accessed May 16, 2016.

Swan, R, Ambati, B. IOL Exchange. *Moran CORE*. Available at <http://morancore.med.utah.edu/section-13-ophthalmic-refractive-surgery/iol-exchange/> Accessed April 17, 2016.

Swan, R, Mifflin, M. Conjunctival Nevus Excision. *Moran CORE*. Available at <http://morancore.med.utah.edu/section-13-ophthalmic-refractive-surgery/conjunctival-nevus-excision/>. Accessed March 22, 2016.

Swan, R, Pettet J. Akreos Secondary IOL Placement with Iris Repair. *Moran CORE*. Available at <http://morancore.med.utah.edu/section-13-ophthalmic-refractive-surgery/akreos-secondary-iol-placement-with-iris-repair/>. Accessed March 22, 2016.

Swan, R, Mifflin, M. Laser-Assisted In-Situ Keratomileusis (LASIK). *Moran CORE*. Available at <http://morancore.med.utah.edu/section-13-refractive-surgery/laser-assisted-in-situ-keratomileusis-lasik/>. Accessed March 22, 2016.

Swan, R, Mifflin, M. Photorefractive Keratectomy (PRK). *Moran CORE*. Available at <http://morancore.med.utah.edu/section-13-refractive-surgery/photorefractive-keratectomy-prk/>. Accessed March 22, 2016.

Swan, R, Crandall, A. Iris fixation of dislocated IOL in a patient with pseudoexfoliation. *Moran CORE*. Available at <http://morancore.med.utah.edu/section-13-refractive-surgery/iris-fixation-of-dislocated-iol-in-a-patient-with-pseudoexfoliation/>. Accessed March 22, 2016.

Swan, R, Crandall, A. Marfan syndrome ectopia lentis lens extraction. *Moran CORE*. Available at <http://morancore.med.utah.edu/section-13-refractive-surgery/marfan-syndrome-ectopia-lentis-lens-extraction/>. Accessed March 22, 2016.

Swan, R, Mifflin, M. Phaco DSAEK. *Moran CORE*. Available at <http://morancore.med.utah.edu/section-13-refractive-surgery/phaco-dsaek/>. Accessed March 22, 2016.

Swan, R, Ambati, B. PKP with Running Suture. *Moran CORE*. Available at <http://morancore.med.utah.edu/section-13-refractive-surgery/pkp-with-running-suture/>. Accessed March 22, 2016.

Swan, R, Tabin, G. Descemets Membrane Endothelial Keratoplasty (DMEK). *Moran CORE*. Available at <http://morancore.med.utah.edu/section-08-external-disease-and-cornea/descemets-membrane-endothelial-keratoplasty-dmek/>. Accessed March 22, 2016.

Swan, R, Jacoby, R. Susac's Syndrome. *Moran CORE*. Available at <http://morancore.med.utah.edu/section-06-pediatric-ophthalmology-and-strabismus/susacs-syndrome-dr-jacoby-presentation/>. Accessed March 22, 2016.

COURSES/LECTURES

"Top 10 Reasons Glaucoma Treatment is Getting an Upgrade" Vision Foundation Spring Symposium, March 2018

"Know Your Current Events: Refractive Surgery" Vision Foundation Spring Symposium, March 2018

"10 Most Common Patient Questions Addressed" Vision Foundation Spring Symposium, March 2018

"Last Legacy of Love, Cornea Transplantation and Donation" Pecha Kucha Conference Bozeman, MT, February 2018

"Minimally Invasive Glaucoma Surgery: Today and In the Future" Helena Community Optometry Dinner, February 2018

"Advances in Ophthalmology: Something Old, Something New, Something Borrowed, Something Blue" Bozeman Health Education Conference, December 2017

MIGS: Cypass Wet Lab Instructor, Duke University Fellows Glaucoma Day, American Academy of Ophthalmology, November 2017

DMEK Wet Lab Instructor, American Academy of Ophthalmology Instructional Wet Labs, November 2017

"CSF and Glaucoma" iGlaucoma Course, American Academy of Ophthalmology, November 2017

"24 hour IOP Monitors" iGlaucoma Course, American Academy of Ophthalmology, November 2017

"Minimally Invasive Glaucoma Surgery: MIGS" Billings Community Optometry Dinner, November 2017

"Cross-Linking" Great Falls Community Optometry Dinner, October 2017

"The Power of Love: Comprehensive Refractive Surgery" Vision Foundation Bozeman Symposium, September 2017

"There, there now. Just ReLACS: Advanced Cataract Surgery" Vision Foundation Bozeman Symposium, September 2017

"Tales from Space: Managing Glaucoma Now and in the Future" Vision Foundation Bozeman Symposium, September 2017

"I don't know if I could take that kind of rejection: Treating Diseases of the Cornea" Vision Foundation Bozeman Symposium, September 2017

“Advanced Cataract Surgery and the Technology that Surrounds It: Learning Advanced Technologies”
Lindstrom-Durrie-Thompson Fellowship Reunion, May 2017

DMEK Wet Lab Instructor, Sight Life Surgical Wet lab at ASCRS, May 2017

“Mission Vision: Serving Our Community” Vision Foundation Spring Symposium, March 2017

“A Non-Randomized, Open Label Study to Evaluate the Safety of Negative Pressure Applied to the Periocular Microenvironment Anterior to the Orbital Rim” NASA Human Research Program Investigators’ Workshop, January 2017

“Dominant Optic Atrophy: Case and Review” Grand Rounds Presentation, University of Utah Ophthalmology Department, June 2016

“Juvenile Dermatomyositis: Case Report and Review of Literature” Resident Alumni Day Presentation, University of Utah Ophthalmology Department, May 2016

“Susac Syndrome: Case and Review” Grand Rounds Presentation University of Utah Ophthalmology Department, March 2016

“When Carrots Start Looking Like Cones” Grand Rounds Presentation, University of Utah Ophthalmology Department, October 2015

“New Diamond Blade Design for Cataract Surgery” Resident Alumni Day Presentation, University of Utah Ophthalmology Department, May 2015

“Choroidal Melanoma: Case and Clinical Review” Grand Rounds Presentation, University of Utah Ophthalmology Department, May 2015

“This Looks Fishy (Miller Fisher Syndrome)” Grand Rounds Presentation, University of Utah Ophthalmology Department, June 2014

“Hysteria for Hysteresis” Resident Alumni Day Presentation, University of Utah Ophthalmology Department, May 2014

“Future Advancements in Refractive Surgery” Grand Rounds Presentation, University of Utah Ophthalmology Department, February 2013

AWARDS

Resident Speaker of the Year 2014-2015, University of Utah	Jun. '15
Alpha Omega Alpha Inductee	Mar. '11
UNMC Regents Scholarship	Aug. '08 – May '12
Dunlap Scholarship awarded for outstanding character and leadership	May '11
Asher Scholarship awarded for outstanding character and leadership	Aug. '10
UNL Outstanding Male Leader of the Year Award	Apr. '06
UNL Regents Top Scholar	Aug. '03 – May '07
UNL Honors Textbook Scholarship	Aug. '03 - May '07
Peter Kiewit Distinguished Scholar Award	Aug. '03 - May '07
Innocents Society Member	Feb. '06 – Feb. '07
U.S Naval Academy Leadership Conference Participant	Feb. '06
James S. Pittenger Freshman Innocents Society Scholarship	May '04
UNL Pepsi Service Scholarship	Aug. '03

WORK EXPERIENCE

Cornea, Glaucoma, Refractive, Cataract Surgeon, Vance Thompson Vision, Bozeman, MT	Aug. '17 - Present
Fellow, Vance Thompson Vision, Sioux Falls, SD	Jul. '16 – Jun. '17
Resident, University of Utah Medical Center	Jul. '13 - Jun. '16
Tutor for medical students through UNMC	Sep. '09 - May '10
Research Assistant for Dr Tsuneya Ikezu (UNMC)	May '07 - Aug. '08
Lutheran Camp Perkins, Stanley, ID	Summer '04, '05, Jan. '08 - May '08
Sunny Knolls Farms	Summers '98 - '03

ACTIVITIES/SERVICE

University of Utah

Tilganga Institute of Ophthalmology SICS Rotation; Kathmandu, Nepal	May '16
Operation Sight Volunteer Surgeon	Jul. '15 - Jun. '16
Provide free screening exams for patients requiring surgery as well as semi-annual charity surgery day and follow-up examinations	
4 th St Homeless Ophthalmology Clinic Volunteer Physician	Jul. '15 - Jun. '16
Advocacy Ambassador Program Participant with AAO, Washington DC	Apr. '15
Cataract-Ophthalmic Resident Education (CORE) Training Participant; Chicago, IL	Mar. '15
Navajo Outreach:	Nov. '14, Jun. '15
Volunteered with my wife and team members from the Moran Eye Center conducting screening exams and surgery for members of the Navajo Nation	
Student Housestaff Academic Committee Member	Jul. '14 – Jun. '16
Serve on committee that evaluates faculty members for retention, promotion and tenure	
Medical Student Education	Jul. '13- Jun. '16
Coordinate M3/M4 medical student rotation learning modules including introduction to the slit lamp sessions	
Lead examination skills session for the basic eye exam and use of the direct ophthalmoscope for M2 students at the University of Utah	
Other Volunteer Activities	
Bible School co-leader at Capital Church in Salt Lake City	Nov. '14 - Jan. '16

UNMC

Tilganga Eye Center Ophthalmology Rotation	Apr. '12
4 th year medical school rotation focused on observing their sustainable eye care delivery system both at Tilganga and on an outreach trip	
SHARING Clinic	Dec. '08 – May '12
Co-president (April '09-'10) for inter-professional student-run free clinic that provides over \$300,000 in health care services per year to the underserved community in Omaha.	
Served on Education, Quality, and Pediatric Committees	Apr. '09 – April '10
Volunteer at all four SHARING clinics	Dec. '08 – May '12
Continuity student provider overseeing the inter- professional care of two patients	Aug. '09 – May '10
Organized and assisted with health booth at quarterly Family Nights at Jackson and Liberty Elementary Schools	Mar. '09 – May '10
VISION Clinic	Mar. '10 – May '12
Helped develop and coordinate monthly eye clinic that was staffed by medical students, residents and a supervising staff member. This clinic provides vision,	

glaucoma, and diabetic eye screening, management, and treatment to SHARING
Clinic patients.

Teaching Assistant for M1 Integrated Clinical Experience Aug. '11 – Apr. '12
Met weekly with M1 students to review proper physical examination skills. Also
provided feedback for Objective Structural Clinical Exam and H&P and SOAP note write-ups

Other Volunteer Activities

Volunteered at food shelter through Beautiful Savior Church Mar. '11 – May'12
House Call for Kids volunteer educator Oct. '08, '09
Assisted with school physicals at MARS Middle School Aug. '09
Presented Tar Wars program to local middle school Feb. '09