

Annex A: details of Short term Projects

Faculty fellows Research			
SN	Principal Investigator (PI)	Research Title	Status
1	Dr. Diwa Hamal	Choroidal melanoma our experience: a case series.	Completed
2	Dr. Diwa Hamal	Spectrums of Lacrimal Gland Tumors: A comprehensive clinicopathologic review of 19 lesions with their management.	Completed
3	Prof. Suman S. Thapa	A Non-Randomized, Open-Label Study to Evaluate Smartphone-based Teleophthalmology at Remote Screening Camps in Nepal using the Paxos Scope system	Completed
4	Dr. Anu Manandhar	Natural course of Seasonal Hyper Acute Panuveitis at Tilganga Institute of Ophthalmology	Ongoing
5	Dr. Eli Pradhan	Acute endophthalmitis after intravitreal Bevacizumab injections at the tertiary centre in Nepal.	Completed
6	Dr Anu Manandhar	Clinical profile and treatment outcomes of acute retinal necrosis in a tertiary eye care centre in Nepal	Ongoing
7	Dr. Raba Thapa	Anatomical and visual outcome following silicon oil removal in rhegmatogenous retinal detachment at a tertiary eye center	Ongoing
8	Dr. Bhim Bahadur Rai	Pattern and presentation of vitreo-retinal diseases: an analysis of hospital records in a tertiary eye care centre in Nepal.	Completed
9	Dr. Keepa Vaidya	Pattern of ocular manifestations of pituitary adenoma-among patients presenting at the Tilganga Institute of Ophthalmology	Ongoing
10	Dr. Neha Chaudhary	Pattern of refractive errors in patients with vernal keratoconjunctivitis patients at Tilganga Institute of Ophthalmology	Ongoing

11	Dr. Triptesh Raj Pandey	Clinical outcome of reconstruction of lacrimal canalicular laceration with monocanalicular intubation system	Completed
12	Dr. Robert Chang	Development and Validation of a Deep Learning System for Eye Care in Nepal	Ongoing
13	Dr. Anu Manandhar	SHAPU study	Ongoing
14	Dr. Srijana Adhakari	Effectiveness of atropine eye drop for the prevention of myopia progression in children.	Ongoing
15	Dr. Srijana Adhakari	Restoration of visual function via perceptual learning that targets specific brain areas.	Ongoing
16	Dr. Leesha Shrestha	Outcomes after Descemet's stripping endothelial keratoplasty in tertiary eye care center.	Ongoing
17	Dr. Sanyam Bajimaya	Scleral Fixation IOL implantation technique study	Ongoing
18	Dr. Anu Manandhar	Clinical and demographic pattern of Behcets Disease cases presenting in a tertiary eye center of Nepal.	Ongoing
19	Dr. Rachana Singh Rana	A Clinical profile on Keratoconus attending at Tertiary Eye Hospital of Nepal – Tilganga Institute of Ophthalmology.	Ongoing
20	Dr Purnima Rajkarnikar	Demographics, clinical presentation and management of malignant ocular tumors at a tertiary care hospital in Nepal.	Ongoing
21	Dr Hom Bahadur Gurung	Retinoblastoma: Changing trend in a Tertiary Eye Centre	Completed
22	Dr Eli Pradhan	Firecracker related ocular trauma during Dipawali in Kathmandu, Nepal	Ongoing
23	Dr Ben Limbu	National survey on Retinoblastoma among Nepalese children in year 2019	Ongoing
24	Dr Sanjita Sharma	Treatment of large sized macular hole with PPV ILM Peeling with flap reversal n autologous serum	Ongoing

25	Dr Poonam Shrestha	Assessment of outcomes of Simple limbal epithelial cell transplantation for limbal stem cell deficiency	Ongoing
26	Dr Malita Amatya	Outcome of injection Botulinum toxin in Blepharospasm	Ongoing
27	Dr Krin	Outcome of lateral tarsal strip and combination of lateral tarsal strip with Quickert (Everting) suture procedure in the correction of involuntional entropion.	Ongoing
28	Dr Pawan Mahat	The effect of intravitreal injection Bevacizumab (avastin) in different types of diabetic macular edema based on OCT pattern	Ongoing

Annex B: List of Research Articles published in 2018

- 1) Khatri A, Pradhan E, Singh S, Rijal R, Khatri BK, Lamichhane G, Kharel M. Going green - treatment outcome and safety profile of chronic central serous chorioretinopathy treated with subthreshold green laser. Clin Ophthalmol. 2018 Oct 5;12:1963-1971. doi: 10.2147/OPHTH.S180663. eCollection 2018.
- 2) Glick P, Luoto J, Orrs MS, Oliva MS, Tabin GC, Sanders DS, Thomas BJ, Ruit S, Belachew T, Tafaw AK. The individual and household impacts of cataract surgery on older blind adults in ethiopia. Ophthalmic Epidemiol. 2018 Sep 7:1-12. doi: 10.1080/09286586.2018.1504310. [Epub ahead of print]
- 3) Reinstein DZ, Carp GI, Pradhan KR, Engelfried C, Archer TJ, Heintz J, Tabin G, Gurung R, Ruit S. Role of laser refractive surgery in cross-subsidization of nonprofit humanitarian eyecare and the burden of uncorrected refractive error in Nepal: Pilot project. J Cataract Refract Surg. 2018 Aug;44(8):1012-1017. doi: 10.1016/j.jcrs.2018.05.023. Epub 2018 Jul 20.

- 4) Constructing Item Banks for Measuring Quality of Life in Refractive Error. Kandel H, Khadka J, Fenwick EK, Shrestha MK, Sharma S, Sharma B, Kafle K, Kharal A, Kaiti R, Dhungana P, Nepal BP, Thapa S, Lamoureux E, Pesudovs K. *Optom Vis Sci*. 2018 Jul;95(7):575-587. doi: 10.1097/OPX.0000000000001246. PMID: 10.1097/OPX.0000000000001246. PMID:
- 5) Thapa R, Twyana SN, Paudyal G, Khanal S, van Nispen R, Tan S, Thapa SS, van Rens G. Prevalence and risk factors of diabetic retinopathy among an elderly population with diabetes in Nepal: the Bhaktapur Retina Study. *Clin Ophthalmol*. 2018 Mar 23;12:561-568. doi: 10.2147/OPTH.S157560. eCollection 2018.
- 6) Thapa R, Bajimaya S, Paudyal G, Khanal S, Tan S, Thapa SS, van Rens GHMB. Prevalence and causes of low vision and blindness in an elderly population in Nepal: the Bhaktapur retina study. *BMC Ophthalmol*. 2018 Feb 13;18(1):42. doi: 10.1186/s12886-018-0710-9.
- 7) Adhikari S, Shrestha UD. Pediatric cataract surgery with hydrophilic acrylic intraocular lens implantation in Nepalese children. *Clin Ophthalmol*. 2017 Dec 20;12:7-11. doi: 10.2147/OPTH.S149806. eCollection 2018.
- 8) Ruit S, Gurung R, Vyas S. The role of small incision suture-less cataract surgery in the developed world. *Curr Opin Ophthalmol*. 2018 Jan;29(1):105-109. doi: 10.1097/ICU.0000000000000442. Review.
- 9) Adhikari S, Shrestha U, Shrestha MK, Paudyal M, Thapa B, Shrestha M. Environmental factors associated with ocular morbidity among children in three ecological regions of Nepal: a phase II Nepal Pediatric Ocular Diseases Study. *Int Ophthalmol*. 2018 Dec;38(6):2313-2319. doi: 10.1007/s10792-017-0724-y. Epub 2017 Oct 14.
- 10) Kandel H, Khadka J, Shrestha MK, Sharma S, Neupane Kandel S, Dhungana P, Pradhan K, Nepal BP, Thapa S, Pesudovs K. Uncorrected and corrected refractive error experiences of Nepalese adults: a qualitative study. *Ophthalmic Epidemiol*. 2018 Apr;25(2):147-161. doi: 10.1080/09286586.2017.1376338. Epub 2017 Oct 6.
- 11) Rajya Laxmi Gurung, Srijana Adhikari, Outcome of Paediatric Cataract Surgery at Tilganga Institute of Ophthalmology, Nepal. *Birat Journal of Health Sciences*. Vol 3 No 1 (2018)
- 12) Sharma, S., Thapa, R., Bajimaya, S., Pradhan, E., & Poudyal, G. (2018). Clinical characteristics and visual outcome, prognostic factor, visual acuity and globe survival in posterior segment

intraocular foreign body at Tilganga Institute of Ophthalmology. *Nepalese Journal of Ophthalmology*, 10(1), 66-72. <https://doi.org/10.3126/nepjoph.v10i1.21691>

13) Dan Z.Reinstein, Kishore R.Pradhan, GeoffreyTabin Reeta Gurung Sanduk Ruit. Role of laser refractive surgery in cross-subsidization of nonprofit humanitarian eyecare and the burden of uncorrected refractive error in Nepal: Pilot project. *Journal of Cataract & Refractive Surgery*, Volume 44, Issue 8, August 2018, Pages 1012-1017

14) Pradhan, E., Duwal, S., Bajimaya, S., Thapa, R., Sharma, S., Manandhar, A., Poudel, M., & Paudyal, G. (2018). Acute Endophthalmitis after Intravitreal Bevacizumab Injections at The Tertiary Centre in Nepal. *Nepalese Journal of Ophthalmology*, 10(1), 107-110.

<https://doi.org/10.3126/nepjoph.v10i1.21727>

15) Bajracharya, L., & Lama, A. (2018). A Patient with Keratoconus, Axial Hyperopia and Pigmentary Retinopathy. *Nepalese Journal of Ophthalmology*, 10(1), 82-85.

<https://doi.org/10.3126/nepjoph.v10i1.21718>

16) Manandhar, A., Margolis, T., & Khanal, B. (2018). New Clinical and Laboratory Findings of SHAPU. *Nepalese Journal of Ophthalmology*, 10(1), 23-31.

<https://doi.org/10.3126/nepjoph.v10i1.21684>

17) Johnson M.P. et al. (2019) Genetic Research on Ocular Health and Disease in a Population from Nepal. In: Prakash G., Iwata T. (eds) *Advances in Vision Research, Volume II. Essentials in Ophthalmology*. Springer, Singapore

18) Pradhan, E., Khatri, A., Tuladhar, J., & Shrestha, D. (2018). Diabetic Eye Disease Related Knowledge, Attitudes and Practices among Physicians in Nepal. *Journal of Diabetes and Endocrinology Association of Nepal*, 2(2), 26-36. <https://doi.org/10.3126/jdean.v2i2.22359>

19) Ranjitkar, S., Pradhan, E., Paudel, S., Pradhan, S., & Dhakal, S. (2018). A Diabetic Foot Survey. *Journal of Diabetes and Endocrinology Association of Nepal*, 2(2), 8-18.

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