





Nepal Netra Jyoti Sangh Hiralal Santudevi Pradhan Institute of Ophthalmic Sciences

BHARATPUR EYE HOSPITAL

ANNUAL REPORT 2023-2024



Annual Report 2023-24

Editorial Committee



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Nepal Netra Jyoti Sangh Bharatpur, Chitwan, Nepal

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Bharatpur Eye Hospital

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तमसोमा ज्योतिर्गमय नेपाल नेत्रज्योति संघ NEPAL NETRA JYOTI SANGH (National Society for Compression Eye Care) CENTRAL कृष्टिहाट



Ref. No.



MESSAGE FROM THE CHAIRMAN

Nepal Netra Jyoti Sangh, Central Executive Committee



It gives me immense pleasure to know that Institute is publishing annual report for the Fiscal Year 2023- 2024. Hira Lal Santudevi Pradhan Eye Institute has established itself as a centre of excellence in the eye care sector and is considered as one of the notable examples of community participation to achieve the noble objective of NNJS in providing high quality and high volume eye care services in affordable form to the rural population. The institute is committed to providing high quality eye care at affordable cost at all levels and places value on evidence-based decision making and findings of research and studies. We are thankful to all INGOs and the concerned stakeholders for their generous support and inputs to NNJS in developing and promoting eye care services in this country. I wish the every success of the Institute and very much look forward to continuing to build on our work together next year. Thanking You.

Prof. Dr. Chet Raj Pant

Chairman

Nepal Netra Jyoti Sangh, Central Executive Committee

Message from

NNJS BAGMATI PROVINCE

It gives me immense pleasure to know that Hiralal Santudevi Pradhan Institute of Ophthalmic Science, Bharatpur Eye Hospital is bringing out its annual progress report for the year 2023-24. On behalf of the Nepal Netra Jyoti Sangh- Bagmati Province I would like to personally congratulate the entire team of Bharatpur Eye Hospital for all the progress and achievement done so far. Bharatpur Eye Hospital is one of the major contributor of eye care service in the province. I am pleased to see the growing progress of the hospital. I would like to thank all those who have contributed directly or indirectly for the development of the hospital.

Rishi Ram Paudel

Chairman Nepal Netra Jyoti Sangh Bagmati Province, Nepal



Message from

CHAIRMAN



I am pleased to know that Hiralal Santudevi Pradhan Institute of Ophthalmic Sciences Bharatpur Eye Hospital is bringing out the annual progress report of the year 2023-24.

This year we have been able to provide OPD service to 2, 77,642 and surgeries to 11,219 patients. In addition to patient care Bharatpur Eye Hospital as an institute is contributing in producing all levels of eye care human manpower to tackle the growing burden of visual problem in the region and the country as a whole. This has only been possible because of the hard working and dedicated staff members, guidance and support from the NNJS members and different stakeholders and donors.

Jay Ram Shrestha Chairman

Hospital Management Committee Bharatpur Eye Hospital

Message from Chief Medical Director

ACKNOWLEDGEMENT

The dedicated teams of staff members are trying hard to attract and serve more and more patients. These team members not only perform their best within the hospital, they also reach the unreached poor population in the remote villages. This year we have been able to serve 2,77,642 OPD patients and provide surgeries to 11,219 patients. Apart from patient care activities, the hospital also runs different level of academic and training programs.

The hospital is in the present state due to the moral, technological & financial support from SEVA foundation & SEVA Canada Society & USA. This has encouraged local social workers for making financial contribution in building construction & renovation as well as other physical facilities to prepare this hospital as an academic Institution. Our work would not have been possible without the support of Central NNJS, NNJS Chitwan, funding partners and different stakeholders.

I am grateful to all for the direct and indirect contribution to the growth and development of the hospital.

Assoc. Prof. Dr. Puspa Giri

Chief Medical Director Bharatpur Eye Hospital

Message from

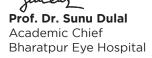
ACADEMIC CHIEF

Dear Esteemed Colleagues, Friends and Supporters,

As we embark on the journey of recounting another remarkable year at our teaching eye hospital, my heart swells with gratitude and pride. It is my privilege to welcome you all to the annual report, a testament to the unwavering dedication and tireless efforts of our extraordinary team. We feel very proud and honoured to mention here that we have been able to follow the right track to provide one of the best quality services to our valued patients and beloved students. The comprehensive services provided by the Community Outreach Department stand as a unique example of our commitment to delivering eye care services to targeted communities.

The academic and clinical performances of our residents and fellows have consistently excelled. Furthermore, the completion of ongoing research activities, along with the publication of scientific articles and the organization of Continuing Medical Education (CME) programs, speaks volumes about the remarkable achievements and progress of the institute

We extend our heartfelt gratitude to our valued patients, who have placed their trust in us for quality service, students who have chosen us for their academic journey, and our well-wishers and donors for their unwavering support. Without your trust and support, achieving our goals would not have been possible.





SR. HOSPITAL ADMINISTRATOR



It is with great pleasure and pride that I present to you the Annual Report for FY 2023.24 for our esteemed hospital. Central to our success is the collaborative effort of our dedicated team comprising 200+ staff members, including skilled ophthalmologists, optometrists, ophthalmic officers, ophthalmic assistants & compassionate nurses, diligent administrative staff, and various other professionals. It is through their unwavering commitment and teamwork that we are able to deliver exceptional care and support to our patients.

I extend my heartfelt gratitude to our esteemed hospital management board members for their unwavering support and guidance. I also express my sincere appreciation to our dedicated staff for their tireless efforts and outstanding care, which significantly contributes to our patients' experiences.

Furthermore, I extend my gratitude to our patients, guardians, community members, stakeholders, partners, national and international agencies, and well-wishers for their invaluable contributions and continuous support. It is through our collective efforts and shared vision that we can truly make a difference in the lives of those we serve. Thank you for your unwavering dedication and commitment to our hospital's mission. Together, we will continue to strive for excellence and make meaningful impacts in the field of eye care.

Warm regards,

Daya Shankar Chaudhary
Senior Hospital Administrator
Bharatpur Eye Hospital



TABLE OF CONTENTS	
NNJS Presidents	i
NNJS Executive Committee and Management Committee	ii
Doctors at BEH	iii
Messages	iv-vi
Table of Contents	vii
Background of the Hospital	viii
Bharatpur Eye Hospital Networks Details	1
Performance of Hospital in year 2023-24	2-4
Specialty Services at BEH	5
Retina Department	5-6
Glaucoma Department	6-7
Pediatric Department	7-8
Cornea Department	9
Oculoplasty Department	9-10
Ocular Investigations	11
Low Vision Department	11
Contact Lens Clinic	11-12
Tele-Ophthalmology Services	12
Laboratory Services	12
Prosthetic Unit	12
Performance of Secondary Hospitals, Eye Care Centers & Outreach	13-15
New Eye Care Centers Established in 2023-24	16
Inauguration of the Newly Constructed Pediatric OPD, Ward and OT Building of Bharatpur Eye Hospital by the Prime Minister	17
Research and Publications	18-22
Other Activities (Photo Gallery)	23-30
Hospital Services	31
Acknowledgement	32

BACKGROUND OF THE HOSPITAL

Bharatpur Eye Hospital; BEH (Hiralal Santudevi Pradhan Institute of Ophthalmic Sciences) is located in the Chitwan District of southern central Nepal. BEH is a non-profit making, charitable organization under the umbrella of Nepal Netra Jyoti Sangh (NNJS). Its objective is to provide high-quality comprehensive eye care services at an affordable cost to local as well as patients from neighboring districts like Gorkha, Lamjung, Nawalpur, Tanahau, Makwanpur, Parsa & Dhading which comprises of about two million populations. In addition to Base Hospital located at Bharatpur Metro Municipality, BEH has established 3 secondary level eye hospitals and 1 city clinic and 18 eye care centers at different places in its catchment area.

Bharatpur Eye Hospital was established in 1987. The hospital building was constructed with financial and technical support from the Bank of Commerce and Credits International (BCCI) Foundation Pakistan. The hospital was inaugurated jointly by the Late King Birendra Bir Bikram Shah Dev and the President of Pakistan, Ghulam Ishaq Khan on 31 March 1988. This was the only one eye hospital named after king, which was changed after Nepal attained Republic in 2008. BEH has an academic wing known as Hiralal Santudevi Pradhan Institute of Ophthalmology and is conducting residency in ophthalmology with the affiliation from National Academy of Medical Sciences (NAMS) along with fellowship programs in vitreo-retina and anterior segment. Similarly, it is conducting academic programs like Bachelor in Optometry (B Optom) under NAMS and Certificate Level in Ophthalmic Science under CTEVT Program.



Providing high quality eye care to prevent unnecessary blindness.



OUR VISIONUltimate Destination for Eye Care

OUR VALUES

- . No one should be denied eye care for economic reason.
- 2. Competent and compassionate team.
- Strive for continued improvement in all aspects of patient care.
- 4. Transparency in function.





Hiralal Santudevi Pradhan Institute of Ophthalmic Sciences

BHARATPUR EYE HOSPITAL NETWORKS DETAILS

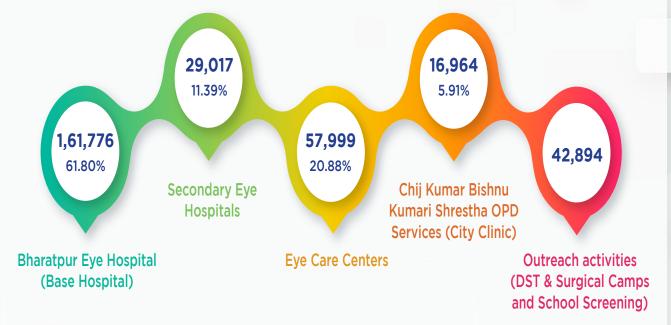
S.N.	Name of Secondary Eye Hospital and Eye Care Centers	Location	Date of Establishment
1.	Bharatpur Eye Hospital, Chitwan	Bharatpur	2044 (1987)
2.	Bharatpur Eye Hospital, Thori	Parsa	2072 (2015)
3.	Bharatpur Eye Hospital, Kawasoti	Nawalpur	2061 (2004)
4.	Bharatpur Eye Hospital, Simrongard	Bara	2073 (2016)
5.	Chij Kumar Bishnu Kumari Shrestha OPD Services (City Clinic) Bharatpur	Chitwan	2067 (2010)
6.	Eye Care Center, Parsa, Khairani	Chitwan	2065 (2008)
7.	Eye Care Center, Madi	Chitwan	2068 (2011)
8.	Eye Care Center, Tandi	Chitwan	2072 (2015)
9.	Narshingdham Eye Care Center, Salyantar	Dhading	2071 (2014)
10.	Eye Care Center, Chaunali	Chitwan	2072 (2015)
11.	Eye Care Center, Kurintar	Chitwan	2077 (2021)
12.	Eye Care Center, Dudhauli	Sindhuli	2077 (2021)
13.	Eye Care Center, Hupsekot	Nawalpur	2078 (2021)
14.	Eye Care Center, Madhyabindu	Nawalpur	2078 (2021)
15.	Bhardakali Kandel Eye Care Center, Benighat	Dhading	2078 (2021)
16.	Eye Care Center, Ishworpur	Sarlahi	2079 (2023)
17.	Eye Care Center, Rapti, Bhandara	Chitwan	2079 (2023)
18.	Eye Care Center, Aabukhairahani	Tanahun	2080 (2023)
19.	Eye Care Center, Bhedabari, Gaindakot	Nawalpur	2080 (2023)
20.	Eye Care Center, Dedgoan, Baudikali	Nawalpur	2080 (2023)
21.	Eye Care Center, Bhanu	Tanahun	2081 (2024)
22.	Eye Care Center, Kalika	Chitwan	2081 (2024)



Performance of Hospital in year 2023-24

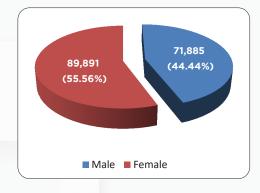
OPD Performance

A total of **2,77,642** patients visits were recorded and received eye care services from out patient department at Bharatpur Eye Hospital (base hospital) and its networks that includes 2 secondary eye hospitals 17 eye care centers and 1 City clinic in the year 2023-24. There is 10% increase in OPD patients at base hospital compared to previous year 2022-23 and 70% more patients were served through eye care centres compared to previous year.



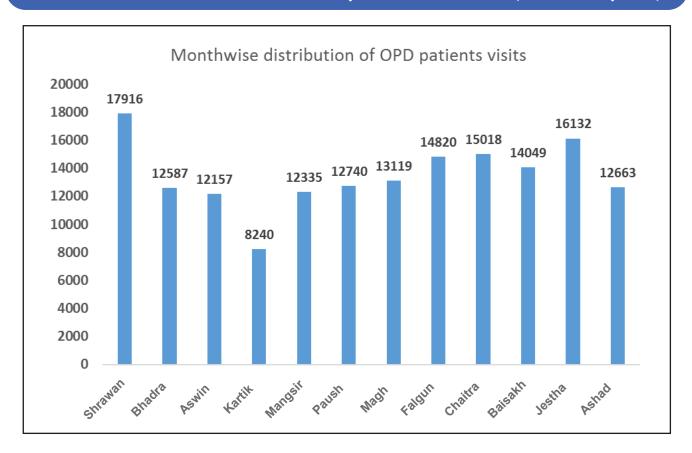
Out of 1,61,776 OPD patients visits in based hospital, 96,582 (59.70%) of patients took the eye services through health insurance policy. More female patients are seeking eye care services than male patients at base hospital.

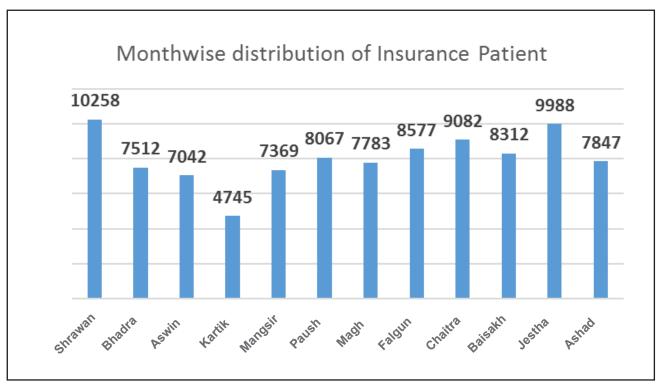
Gender Distribution of OPD Patients at Base Hospital





Monthwise distribution of OPD patients at BEH (base hospital)



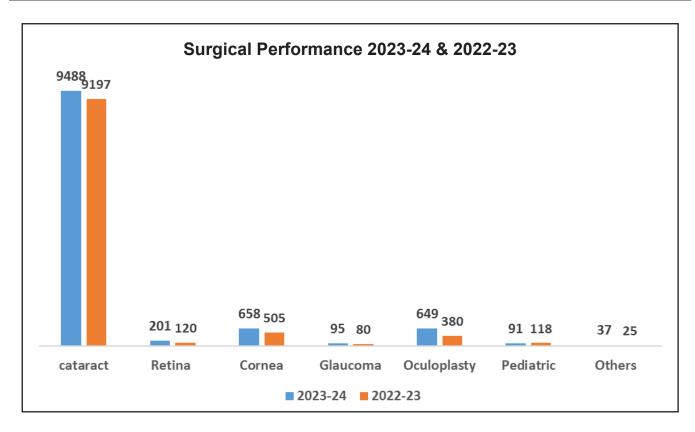


Surgical Performance

A total of **11,219** ocular surgeries of various categories were performed in the year 2023-24 that includes surgeries performed at base hospital, secondary eye hospitals and outreach camps. Of the total surgeries, **9,488** (84.57%) were sight restoring cataract surgeries, including those performed through various DST and surgical camps.

Majority of the cataract surgeries performed in the hospital were phaco surgeries (4,312). 2,944 (31.4%) cataract surgeries were performed through various DST and surgical camps. Only 1,731 (15.58%) surgeries were other than cataract surgeries.

Categories	Hospitals	2022-23	2023-24	Variance
	Base Hospital	4,519	5,246	16% increase
Cataract surgeries	BEH- Secondary Hospitals	1,266	1,298	2.46 increase
Jan gerres	BEH Outreach	3,412	2,944	14% decrease
Retina		91	201	120% increase
Cornea		505	658	30% increase
Glaucoma		80	95	19% increase
Oculoplasty		380	649	70% increase
Pediatric		118	91	22% decrease
Others		25	37	48% increase





Specialty Services at BEH

Retina & Uvea Department

The vitreo-retinal and uvea department is one of the first and well established sub specialty department at Bharatpur Eye Hospital. The vitreo-retinal department is combined with the Uveitis and ocular inflammation department and is jointly called the department of uveitis and vitreo-retinal services. We have 2 consultants in the department who are trained in both departments, uveitis and vitreo-retinal surgery. All standard equipment for patient care are available in the department as well as adequate training facilities.

The department has till date trained 6 fellows in vitreo-retinal surgery and has all handson training resources including teaching scopes in both the OPD as well as surgical microscope. It has facilities for green laser photocoagulation with additional facility of indirect laser Ophthalmoscopy. Also, the department of investigative ophthalmology includes a swept source OCT with OCT angiography along with fundus photography, Fundus Fluorescein Angiography (FFA) and high resolution ultrasound B-scan to support diagnosis and research in the department.

In terms of data, the patient flow averages 50-60 per day presently. Diabetic Retinopathy, Age related Macular Degeneration (ARMD) and retinal venous occlusions are the most common retinal conditions. Tabulation of common retinal diseases seen at Vitero-Retina and Uvea department.

Diabetic Retinopathy (DR)	2705
Age Related Macular Degeneration (ARMD)	1261
Retinal Venous Occlusion	1187
Retinal detachment	514
Vitreous Haemorrhage	492
Central Serous Retinopathy (CSR)	291
Posterior Vitreous Degeneration (PVD)	223
Macular Hole	221
Macular Disorders	296
RPE Detachment	187
Hypertensive Retinopathy	158
Retinopathy of Prematurity (ROP)	106



Retinal Dystrophy	1696
Degenerative High Myopia	75
Vitero-Macular Traction	54
Retinal Hemorrhage	41
Retinal Vasculitis	22
Toxoplasmosis	48
Total	9,577

Vitreo-Retina Procedures

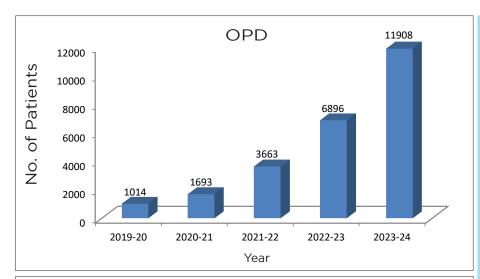
SN	Procedure	Number
1	General OPD- paying only	7701
2	LASER (paying only) a) Sectoral b) Barrage c) Focal d) PRP & fill in PRP	536 37 62 23 414
3	Injection Avastin	572
4	Vitreo-retinal surgery Scleral buckling Buckle with Vitrectomy Vitrectomy Macular hole ERM Surgery	188 11 12 70 95 36

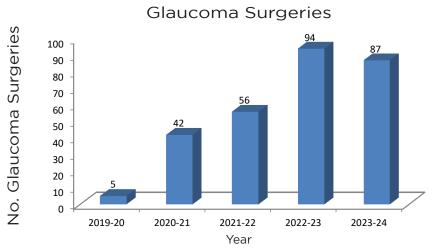
Glaucoma Department

The Glaucoma Clinic remains committed to delivering the highest standard of eye care, research, and education, in line with our mission to preserve sight and improve the quality of life for our patients.

The Glaucoma Clinic at Bharatpur Eye Hospital continues to be a leading center for the management and treatment of glaucoma. Our team of highly skilled glaucoma consultant, glaucoma fellow, residents, optometrists, ophthalmic assistants, and support staff work collaboratively to provide comprehensive and personalized care to patients of all ages. Department of Glaucoma is fully equipped with state-of-the-art diagnostic tools to diagnose and monitor glaucoma disease. During the reporting year, the clinic has grown both in patient volume and reputation.







Patient Care:

 Total Number of Glaucoma Patients Treated: 11,908

» Adult male: 5,258» Adult female: 6,370» Child male: 186

» Child female: 94

• Surgeries Conducted: 87

Types of Surgeries:

» Trabeculectomy: **7**

» Phaco +

Trabeculectomy: **80**

Glaucoma Lasers
 Conducted: 757

Types of Lasers:

» Laser peripheral iridotomy (LPI): 684

» Laser suture-lysis (LSL): 16

» Selective LaserTrabeculectomy: **57**

Glaucoma type	Number
Angle Closure Glaucoma	5399
Developmental Glaucoma	88
Primary Open Angle Glaucoma	5208
Glaucoma Suspect	3094
Neovascular Glaucoma	109

Glaucoma type	Number
Normal Tension Glaucoma	135
Ocular Hypertension	267
Acute Angle closure Glaucoma	51
Primary Angle Closure Suspect	1228
Others	40

Pediatric Department

Pediatric Department was started as a separate department (0-16 years) on 2014, and it has come a long way in a decade. It started with 2 Optometrist, now it has expanded its wings and proudly has its own Pediatric Ophthalmologist, an Orthoptist, an Orthoptic trainee.

This department not only caters to the pediatric population (0-16 years), but is also taking care of the people with strabismus, and neuro-ophthalmological issues.

Thus, from one department it has grown its subdivisions as Pediatric OPD, Strabismus and Neuro-ophthalmology clinic and Orthoptic clinic. We are here to serve the most challenging and rewarding population (Children, who are our future).

Performance 2023-24

S.N	Particulars	Year 2022-23	Year 2023-24
1.	OPD	17574	19656
2.	Surgeries	105	91

Distribution of ocular disorders in pediatric population in 2023-24

Disorders	Number
Refractive Errors	5574
Conjunctivitis	3629
Corneal Disorders	658
Squint	633
Amblyopia	613
Disorder of Lacrimal Drainage System	239
Lid Disorders	229
Blepharitis	209
Chalazion/Stye	200
Glaucoma/Glaucoma Suspect	190
Meibomian Gland Dysfunction	189
Pseudophakia	163
Rop	105
Cataract	103
Uveitis	98

Disorders	Number
Episcleritis	88
Aphakia	65
Nystagmus	49
Retinal Detachment	45
Keratoconous	24
Ophthalmia Neonatorum	18
Optic Neuritis	13
Dacryocystitis	13
Dermoid Cyst	11
Coloboma	9
Retinal Dystrophies	7
Degenerative Myopia	6
Oculocuteanous Albinism	3
Retinoblastoma	2

Monthwise Distribution of OPD Patient

Month	СМ	CF	Total
Shrawan	2003	1350	3353
Bhadra	952	745	1697
Aswin	666	509	1175
Kartik	528	438	966
Mangsir	800	612	1412
Paush	590	484	1074
Magh	885	694	1579

Month	СМ	CF	Total
Falgun	844	663	1507
Chaitra	937	742	1679
Baisakh	1148	846	1994
Jestha	1347	1157	2504
Ashad	929	705	1634
TOTAL	11629	8945	20574



Cornea Department

Cornea department is one of the well-established subspecialty department at Bharatpur Eye Hospital. Since corneal diseases is one of the major cause of blindness in developing countries, cornea department at BEH has been providing services not only to the people in Chitwan, but also the its neighboring districts. The department is equipped with major investigative instruments for diagnosis and treatment of ocular diseases. There is also dry eye clinic within this department, providing dry eye therapy for the patients. In the year 2023-24, a total of 443 patient underwent investigations for dry eye and therapy for dry eye was done for 483 patients. The cornea collection center and the facility of cornea transplant has been started since 2017.

In the year 2023-24, a total of 1629 patients were registered under cornea department. The major corneal problems recorded were pterygium, keratitis, corneal ulcers and corneal opacities. 45 pateints were diagnoised as keratoconous. A total of 658 cornea related surgeries were performed. Pterygium with graft was done in 614 patients and corneal transplantation in 10 patients.

Cornea related diseases	Number
Pterygium	4706
Keratitis	1228
Conjunctival/corneal abrasion	629
Corneal opacity	608
Corneal ulcer/corneal perforation	629
Corneal FB	515

Cornea related diseases	Number
Open glob injury	180
Closed glob injury	231
Keratoconous	45
Keratoconjunctivitis Sicca	400
Corneal dystrophies	89
Other corneal disorders	142

Oculoplasty Department

Oculoplasty is one of the subspecialties at BEH, dealing with the diagnosis and management of disorders involving the structures of the orbit, eyelids, tear ducts and adnexa. The Oculoplasty service is being provided by two Oculoplasty surgeons. Chalazion, Entropion correction and DCR are the common surgeries done. In this year a total of 975 were registered under oculoplasty department.

Categories of Oculoplasty surgeries

Type of surgery	Number (2022-23)	2023-24
Chalazion Excision	96	131
Entropion /ectropion correction	52	108
DCR/DCT surgery	56	94



Bharatpur Eye Hospital

Care with Compassion & Competence

Type of surgery	Number (2022-23)	2023-24
Conjunctival cyst/moll removal	63	39
Granuloma/mass excision	17	
Ptosis correction	13	42
Enucleation/Eviceration	18	21
Lid repair	39	163
Electroepilation	-	32
Botox injection	-	6

Common Oculoplasty related conditions in 2023-24

Diagnosis	Number
Meibomian gland dysfunction	4338
Infectious blepharitis	941
Chalazion	584
Entropion of eyelid	299
Nasolacrimal duct obstruction	270
Dacryocystitis	264
Cysts of eyelid	254
Ptosis /blepharoptosis, unspecified	169
Other specified disorders of eyelid/contact dermatits	154
Other specified disorders of eyelid	135
Trichiasis without entropion	130
Other specified disorders of lacrimal drainage system	123
Hordeolum internum	119
Posterior blepharitis	117
Nasolacrimal duct obstruction/nldo	87
Hordeolum	74
Dermoid cyst	73
Dermatitis or eczema of eyelids	70
Congenital malposition of eyelids	63
Lid laceration of eye / laceration without foreign body of head	58
Hordeolum externum	50
Preseptal cellulitis	48

Diagnosis	Number
Ectropion of eyelid	47
Abscess of eyelid	44
Lagophthalmos	41
Presence of artificial eye	40
Melanocytic naevus, unspecified	33
Congenital ptosis	32
Other specified conjunctival vascular disorders	32
Epiblepharon /other specified structural developmental anomalies of eyelids	31
Blepharoptosis	31
Epiphora	30
Pyogenic granuloma/ lobular capillary haemangioma	30
Papilloma of eye lid /other specified benign neoplasm of eye or ocular adnexa	29
Dysthyroid orbitopathy /ted	28
Congenital orbital cyst /dermoid cyst	23
Disorders of eyelid or peri-ocular area, unspecified	23
Dermatitis or eczema of eyelids, type unspecified	17
Xanthelasma of eyelid	15
Others	72



Ocular Investigations

The investigation department is well equipped with almost all necessary investigative instruments for investigating different ocular conditions required for proper diagnosis and management of ocular pathology. Currently we have OCT, Fundus Camera, Corneal topography, Specular microscope, B- scan, A-scan, Keratometer, Anterior segment photography, Pachymetry etc.

Investigation Categories	Number
OCT Macula(BE/one eye)	7,110
OCT Disc(BE/one eye)	4,065
Disc Photo (BE/one eye)	1,026
Fundus Photo (BE/one eye)	3,035
OCT Angiography (BE/one eye)	34
FFA (BE)	1
Corneal Topography(BE)	76
Specular Microscope (BE)	864
B Scan (BE)(Ultrasonography)	2604
Pachymetry	3704
HFA	1529

Other Investigations

Investigation categories	Number
Color vision	1209
Dry eye investigations	443
Hess/diplopia charting	89
Orhtoptic evaluation	1161
Syringing	7533
Schirmer's test	5932

Low Vision Department

The low vision clinic is equipped with common low vision devices like monocular telescope, binocular telescope, spectacle magnifiers, and hand- held magnifiers, stand magnifiers, filters and non- optical devices. Low vision clinic has helped many patients to see better and use the residual vision to perform must needed daily activities. A total of 19 patients were provided low vision services in this year.

Contact Lens Clinic

Contact Lens are thin lenses placed directly on the surface of the eyes for refractive correction, cosmetic and therapeutic purpose. There are variety of contact lenses available based on its primary function, material, wearing and replacement schedule. Vision problems are pretty common in Nepal and people need some kind of vision correction device. Increasingly more people are turning to contact lens vision correction whether it is due to lifestyle or cosmetic reason.

In our hospital we provide services for the patient who wants CL for refractive correction, Keratoconous patient, patient having corneal problem with various lenses like power contact lens, disposable lenses, RGP lens, Bandage lens, and Toric contact lens.

A total of 144 patients took the contact lens service from the clinic this year. The majority of the patients were prescribed soft contact lenses.

Total Patient	Power lens	Bandage lens	Prosthetic lens	Toric lens	RGP lens
144	58	58	17	1	10

Tele-Ophthalmology Services

Tele-Ophthalmology services at Bharatpur Eye Hospital, launched in 2017, have transformed eye care accessibility. Initially using Skype, the service now relies on phone calls and WhatsApp, operating six days a week. Led by Senior Ophthalmic Officer, the service handles around 10 consultations daily, totaling about 2,200 cases annually. With 17 connected eye care centers, this network prevents unnecessary patient visits to the base hospital. The system not only benefits patients but also provides a learning environment for in-charges at the connected centers, enhancing the overall quality and efficiency of eye care in the region.

Laboratory Services

Bharatpur Eye Hospital has a well-equipped and facilitated laboratory services for the patients requiring ocular surgeries to rule out any systemic association. Almost majority of all required laboratory investigations including culture and sensitivity are performed.

Investigation Type	Number of Tests
Biochemistry investigation	10,739
Hematology investigation	11,513
Microbiology investigation	58
Ocular Surgeries Lab Package	7,174
Serology Investigation	708

Prosthetic Unit

This unit was established in 2080 and since then a total of 30 patients have received prosthetic eye service out of which 22 were male and 8 were female.







Performance of Secondary Eye Hospitals, Eye Care Centers and Outreach Activities

There are 2 secondary eye hospitals and 18 Eye Care Centers. Community outreach activities are the major activities of the hospital being conducted all the year round. In this year a total of 59 DST camps, 16 Surgical Camps, 4 DR camps, 101 school screening, 1 color vision test camps and 8 work place camp were performed. A total of 42,894 patients took their service through these outreach activities. 2,944 sight restoring cataract surgeries were performed through DST and Surgical camps, contributing to 31.4% of total cataract surgeries performed this year. 29,017 OPD patients were served from 2 secondary eye hospitals (Kawasoti and Thori) and 57,999 patients were served through 18 eye care centers.

Secondary Eye Hospitals, ECCs & Outreach OPD

Name	Female	Male	Total
Secondary Eye Hospital, Thori	7344	7870	15214
Secondary Eye Hospital, Kawaswoti	7335	6468	13803
BEH_Simrongard	3098	2747	5845
BEH_ECC Parsa	5362	4050	9412
BEH_ECC Madi	2901	2212	5113
BEH_ECC Salyantar	2068	1602	3670
BEH_ECC Chanauli	1778	1629	3407
BEH_ECC Ratnanagar	4382	4242	8624
BEH_ECC Kurintar	940	941	1881
BEH_ECC Dudhauli	1269	1058	2327
BEH_ECC Madhyabindu	1758	1357	3115
BEH_ECC Hupsekot	758	587	1345
BEH_BKK ECC Benighat	899	905	1804
BEH_ECC Ishworpur	1731	1683	3414
BEH_ECC Rapti	1393	1466	2859
BEH_ECC Aabukhaireni	1344	920	2264
BEH_ECC Gaidakot	1042	711	1753
BEH_ECC Baudikali	334	379	713
BEH_ ECC Bhanu	190	125	315
BEH_ECC Kalika	75	63	138
Outreach Camp	21121	21773	42894
School Screening	16936	18544	35480
Tota	1,65,390		



Bharatpur Eye Hospital

Care with Compassion & Competence













Activities		2022-2	23	2023-24			
Activities	No.	Patients	Surgery	No.	Patients	Surgery	
DST Camp	74	26737	463	59	21483	562	
Surgical Camp	19	15543	2949	16	20071	2382	
DR Camp	11	573	0	4	232	0	
Workplace Camp	1	216	0	8	935	0	
Color Vision Camp	4	346	0	1	173	0	
Total	109	43415	3412	88	42894	2944	
School Screening	136	53342	0	101	35480		
Grand Total	245	96757	3412	189	78374	2944	
Glass Distributed		1278			1026		

Eye Health Education
Training 2023-024

Types of Training	Number of Trained			
FCHVs	225			
School Teachers	165			
Opinion Leader	63			
Total	453			



Nepal Netra Jyoti Sangh Hiralal Santu Devi Pradhan Institute of Ophthalmic Sciences

Bharatpur Eye Hospital Chitwan Nepal OPD Performance BEH_ECCs 2015/016 to 2023/024

SN	SEH & ECC	2015/016	2016/017	2017/018	2018/019	2019/020	2020/021	2021/022	2022/023	2023/024
1	BEH_Thori, Parsa	4075	5359	6652	7930	6023	4130	8523	13092	15214
2	BEH_ Kawaswoti, Nawalpur	4264	4877	4043	4904	4525	4236	9014	11624	13803
3	BEH_ Simrongard, Bara	85	2246	3516	5181	3363	5558	6690	6186	5845
4	ECC_Parsa, Chitwan	3470	5672	6924	9585	6492	5690	6645	7293	9412
5	ECC_Madi, Chitwan	2085	2412	2688	3884	3383	2906	3404	4289	5113
6	Narshingdham ECC Salyantar, Dhading	1110	1713	2875	3121	2322	2599	3038	3215	3670
7	ECC_Chanauli, Chitwan	240	1475	1594	1957	1903	1844	2646	2781	3407
8	ECC_ Ratnanagar, Chitwan	1280	3748	4649	4864	3500	3497	4956	7394	8624
9	ECC_Kurintar, Chitwan 686 1490 1794								1881	
10	ECC_Dudhauli, Sindhuli 413 1167 1788							1788	2327	
11	ECC_Madhyabindu, Nawalpur 1274 1897							3115		
12	ECC_Hupsekot, Nawalpur 760 825							1345		
13	Bhadrakali Kandel ECC_Benighat, Dhading 1364 1210							1804		
14	ECC_Ishworpur, Sarlahi 795							3414		
15	ECC_Rapti Bhandara, Chitwan 279							2859		
16	ECC_Anbukhaireni, Tanahun 307							2264		
17	ECC_Gaidakot Bhedabari, Nawalpur							1753		
18	ECC_Baudikali, Nawalpur							713		
19	ECC_Bhanu, Tanahun								315	
20	ECC_Kalika, Chitwan								138	

New Eye Care Centers Established in 2023-24

Eye care centers are established with the objective of providing eye care service to the community at the door step level and integrate eye care in to the general health care which reduce the opportunity cost of eye care of community and also create eye health awareness in the community.

Eye Care Centre, Bhedabari, Nawalpur: It was established 1st Nov., 2023 at Gaindakot-11, Nawalpur which is almost 17 km from the base hospital and covers the service population of around 58.836.

Eye Care Centre, Baudikali, Nawalpur: This eye care center was established at Baudikali Rural Municipality-2, Dedgoan, Baudikali in 3rd Nov., 2023 which is around 75 km from the base hospital and covers service population of around 25,500.

Eye Care Centre, Bhaanu, Tanahun: This eye care center was established at Bhanu Municipality-2, Nareshwortaar, Tanahun in 6th June, 2024 which is around 66 km from the base hospital and covers service population of around 42,795.

Eye Care Centre, Kalika, Chitwan: This eye care center was established at Kalika Municipality-6, Chitwan in 12th June, 2024 which is around 16 km from the base hospital and covers service population of around 52,164.











Inauguration of the Newly Constructed Pediatric OPD, Ward and OT Building of Bharatpur Eye Hospital by the Prime Minister













Research and Publications

Village Integrated Eye Workers Trial (VIEW)

This research project started in 2014 in collaboration with University of California San Francisco, F. I. Proctor Foundation, SEVA foundation and Bharatpur Eye Hospital. Starting from the year 2014, VIEW has implemented different phase of its study activities (VIEW-I, VIEW-II Pilot, VIEW-II Screening, VIEW-II Final Exam- ongoing and SightLife blindness prevention program- ongoing). VIEW-I and VIEW-II Pilot is already completed and some of the papers have been published.

Census Progress: July 17 2023 - July 15 2024

Census completion places

Bharatpur Municipality, Kalika Municipality, Khairani Municipality, Ratanagar Municipality, Gaidakot Municipality, Devchuli Municipality

Total people enumerated- 3,28,700 Total people 50 years and above- 87,019 Total people whose VA has been taken- 69,615

VIEW-II Final Exam

VIEW-II Final Exam is the wrap up exam of VIEW-II screening started from June 2023. A repeat census is conducted in all clusters 4years after implementation of the screening intervention. Census workers update vital status and demographic data collected at baseline and add all new community members. Visual acuity is assessed for all participants ≥50 years old following the same procedures employed at baseline. Participants who have pinhole visual acuity worse than logMAR 0.48 (Snellen equivalent 20/60) in either eye at the time of the final census are offered an eye examination consisting of VA/refraction, IOP assessment, visual field assessment and anterior and posterior segment visualization at the community, performed by a trained team of optometrist and ophthalmic assistant masked to treatment assignment.

Statistics: July 17 2023 - July 15 2024

Total people 60 years and above- 51,352

Total people 60 years and above whose VA is taken- 41,081

Total participants eligible for final exams- 6,072

Total people enrolled- 5,072 (84%)

Total people referred-3,016 (59.4%)

Total people attended referral visit- 420 (14%)



Vision Testing with Portable Eye Examination Kit (PEEK) Acuity at census



Vision/Refraction







OCT Scan

Visual Field Testing

Slit Lamp Evaluation





Fundus Photography

Indirect Ophthalmoscopy

Participants offered sunglass after exam







Cureblindness Project (Blindness Prevention Program)

This aim to find the effectiveness of Female Community Volunteers (FCHVs) in preventing corneal blindness due to trauma. This was a three years study which ended in 2017 with the result that FCHVs intervention was effective in reducing corneal opacities due to ocular trauma in the rural communities than peri- urban or urban communities. Latter since September 2017 SightLife took this research as a corneal prevention program, where trained 117 FCHVs from 12 VDCs (Kathar, Kumroj, Birendranagar, Amarapuri, Pragatinagar, Devchuli, Agyauli, Deurali, Dhaubadi, Narayani, Nayabelhani and Kolhuwa) are involved in detecting and treating corneal abrasion due to trauma with prophylactic antibiotic ointment in their communities and appropriate referrals to eye care centers or eye hospitals. 4 field supervisors involved in monitoring those FCHVs. The HCP and SighLife International merged to creat a new program called Cureblindness Project.

Statistics: July 17, 2023 - July 15, 2024

Total cases seen by FCHVs - 5,470 Total abrasion detected and treated by FCHVs - 2,932 (53.6%) Total referrals done by FCHVs - 212 (3.87%)

FCHV Refresher Training



Supervisor Monitoring FCHV at Field



FCHV Performing Fluorescein Stain



FCHV Monthly Meeting



Publications

- Shrestha M, Bhandari G, Kamalakannan S, Murthy GVS, Rathi SK, Gudlavalleti AG, Agiwal V, Pant H, Pandey B, Ghimire R, Ale D, Kayastha S, Karki R, Chaudhary DS, Byanju R; Operational Research Capacity Building Study Group. Evaluating the Effectiveness of Interventions to Improve the Follow-up Rate for Children With Visual Disabilities in an Eye Hospital in Nepal: Nonrandomized Study. JMIR Pediatr Parent. 2023 Feb 23;6:e43814. doi: 10.2196/43814. PMID: 36821366.
- 2. **Bhandari G**, Byanju R, Pradhan S, Sah RK, Kandel RP, Keenan JD. Relationship between intraocular pressure and age: a population-based study in Nepal. J Glaucoma, 2023 Nov 1; 32(11):983-988.
- 3. **Pradhan S**, Sah RK, Bhandari G, Bhandari S, Byanju R, Kandel RP, Keenan JD. Anterior segment optical coherence tomography for detection of narrow angles: a community-based diagnostic accuracy study. Ophthalmol Glaucoma. 2023 Aug 21.
- 4. **Shrestha M**, Kayastha S, Karki R, Subedi K. Ocular Manifestations in Children with Special Needs Presenting in A Tertiary Eye Hospital of Central Nepal. JCMS Nepal. 2024; 20(3): 219-24
- 5. **Shrestha M.** Knowledge and Awareness Regarding Strabismus and Amblyopia among School Nurses and Primary School Teachers of Government Schools at Bharatpur, Chitwan, Nepal. JCMS Nepal. 2023; 19(4): 419-25. DOI:10.3126/jcmsn. v19i4.59827
- 6. **Shrestha M**, Bhandari G, Kamalakannan S, Murthy GVS, Rathi SK, Gudlavalleti AG, Agiwal V, Pant H, Pandey B, Ghimire R, Ale D, Kayastha S, Karki R, Chaudhary DS, Byanju R; Operational Research Capacity Building Study Group. Evaluating the Effectiveness of Interventions to Improve the Follow-up Rate for Children With Visual Disabilities in an Eye Hospital in Nepal: Nonrandomized Study. JMIR Pediatr Parent. 2023 Feb 23;6:e43814. doi: 10.2196/43814. PMID: 36821366.
- 7. **Shrestha M**, Giri Shrestha P, Sah R, Subedi K. Awareness and Practice Patterns Among Pediatricians Regarding Retinopathy of Prematurity at Bharatpur, Chitwan, Nepal. JCMS Nepal. 2023; 19(1); 1-8. DOI: 10.3126/jcmsn.v19i1.48990
- 8. **Bhandari S. S.**, Bhandari G, Bhardwaj G. K, **Shrestha M**, Adhikari A, Keenan J. Comparison of Spot Vision Screener and Retinoscopy for Detecting Refractive Errors in Children and Adults in a Tertiary Care Eye Hospital. *J Coll Med Sci-Nepal* **2023**, *18*, 422-431.
- 9. <u>Subedi K</u>, Dulal P, Pradhan S, Byanju R. Marfan's Syndrome with Rhegmatogenous Retinal Detachment: A Case Report, JNHLS. 2023; 2(1):44-48. (Principal Author)
- 10. **Subedi K**, Shrestha S, Poudel M, Manandhar A. Visual outcome of standard treatment of sarcoid uveitis at a tertiary eye center in Nepal. JGMC Nepal. 2023;16(1): 49-57.

- 11. **Subedi K**, Dulal P, Parajuli S, Pradhan S. Retinoblastoma in an older child: a case report. Journal of Chitwan Medical College.2024;14(47):95-7. DOI:https://doi.org/10.54530/jcmc.1466. (Principal Author)
- 12. **Subedi K**, Laudari S, Subedi A, Pradhan S, Upadhyay HP, Dulal S. Knowledge, Attitude and Practice on Ocular Tuberculosis and Sarcoidosis Amongst Chest Physicians in Chitwan, Nepal. JCMSN.Vol-20, No.1, Jan-Mar 2024. ISSN: 2091-0657 (Print); 2091-0673 (Online).Open Access. DOI:10.3126/jcmsn.v20i1.63492. (Principal Author)

Undergoing study:

- 1. A comparative study on RNFL thickness among open-angle glaucoma with normal people using optical coherence tomography
- 2. Ocular biometry state of LPI cases at Bharatpur Eye Hospital
- 3. Safety and effectiveness of laser suture-lysis after initial trabeculectomy or phaco trabeculectomy in patients with glaucoma
- 4. Incidence and risk factors for Retinopathy of Prematurity in Bharatpur, Chitwan, Nepal.
- 5. Knowledge and Attitudes of Nurses Regarding Retinopathy of Prematurity in Neonatal Intensive Care Units in Bharatpur, Chitwan, Nepal.
- 6. Exploring the service users' experiences of a community-based intervention to improve follow-up at Bharatpur Eye Hospital in Nepal: A Qualitative Study.
- 7. Clinico-epidemiological profile of uveitis and scleritis in a tertiary eye hospital in central Nepal.
- 8. Knowledge attitude and practice (KAP) study of ARMD amongst diagnosed patients at a tertiary eye hospital in central Nepal
- 9. Optical coherence tomography angiography based study of morphometric characteristics of foveal avascular zone in mild moderate and severe diabetic retinopathy at a tertiary eye hospital in central Nepal
- 10. Comparative study of topical dorzolamide as compared to oral spironolactone in the treatment of central serous chorioretinopathy
- 11. Pradhan E, Subedi K et al. Incidence of retinal pigment epithelium (RPE) tears after intravitreal injection of Bevacizumab for the treatment of exudative age-related macular degeneration (AMD). JNHRC
- 12. Recurrent hyphema after periocular dogbite in a 3-year old: an enigmatic case.
- 13. Optical coherence tomography angiography based study of morphometric characteristics of foveal avascular zone in mild moderate and severe diabetic retinopathy at a tertiary eye hospital in central Nepal
- 14. Comparative study of topical dorzolamide as compared to oral spironolactone in the treatment of central serous chorioretinopathy
- 15. Recurrent hyphema after periocular dogbite in a 3-year old: an enigmatic case.
- 16. Diabetic retinopathy registry in Nepal (5-year study)



Other Activities

CME, Trainings, Meetings and Workshops



Annual Planning Meeting, Chitwan



Awarness about Amblyopia (Lazy Eye)



Basic Life Support Training



CME of Anesthesia



CME on Glaucoma



CME on Quality



CME of Bio Medical Waste



CME of Diabetic Retinopathy & Glaucoma Awarness



Corneal Care Management Training



CME in ROP for Staff Nurses



Fire Management Orientation and Training



Glaucoma Training from Tej Ratna Eye Care Cener, Khadbari, Sankhuwasabha



Glaucoma Fellowship at BEH



Health Insurance Workshop



SLT Trainee from Mechi Eye Hospital





Management Leadership & Development Workshop, SEVA



Mid-Term Review Meeting, Chitwan



Workshop on Policy, Bagmati Province, Ministry of Health



Outreach Co-ordinators Training



Quality Consciouness Program, Pokhara



Pediatric Workshop, SEVA

Celebrations & Hospital Functions





Celebrating Secondary Eye Hospital Thori Anniversary



47th NNJS Day



Assembly NNJS Bagmati Province





28th CNNJS General Assembly & Convention



BEH Picnic



Chief Medical Director Appointment, BEH



Teej Daar Program, BEH



Vehicle Handover Program, Embassy of Pakistan





Felicitation & Congratulation Program, Bagmati Province, NNJS



Glaucoma Awarness Campaign



Fruit Distribution Program, NNJS Day, Chitwan



Glaucoma AwarenessWeek



Ophthalmic Asssistant 4th General Assembly, Sauraha



Hepatitis Awareness and Vaccination



Workship on New Building Pediatric OPD, Ward & OT



OA Orientation Program



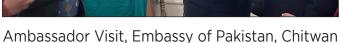


Sports Week, BEH

World Sight Day, 2024

Hospital Visit by Guests and Students







B. Optom TUTH, 2019, Kathmandu



B. Optom Intern Farewell



B. Optom 5th Batch Welcome



Biratnagar Eye Hospital Visits



B. Optom Visit Himalaya Eye Hospital, Pokhara





Ministry of Health & Population Visits, Janakpur Respected Mummy visits Kumari Educational Trust, Nawalpur





NAMS Authorities Visits



Pakistan Embassy visit, Kathmandu



Online Billing System, FinPos & Swipe



Sagarmatha Choudhary Eye Hospital Visits, Lahan



Co-ordinator of ECC, Chanauli Visits



CTEVT Representative Visits



Doctors Team Dhading Hospital, Dhading



Dr. Ankur Ghimire Anesthesiologist Welcoming Program



Gaur Eye Hospital Team Visits



Helping Hands USA Team Visit



CMD & Chairman Visits HEH, Pokhara



6th Batch of MD Resident Welcome



Cureblindness Team Visits



Meeting with Minister, Ministry of Health, Bagmati Province

HOSPITAL SERVICES (अस्पतालमा उपलब्ध सेवाहरू)

- 9. बहिरङ्ग सेवा Out Patient Department (OPD)
- २. बहिरङ्ग सेवाहरू (विशेषाज्ञ सेवाहरू) (Sub-Specially Clinic)
 - क) कर्निया (आँखाको नानी) सेवा (Cornea OPD)
 - ख) सामान्य बहिरङ्ग सेवा (General OPD Service)
 - ग) जलबिन्दु सेवा (Glaucoma OPD)
 - घ) दृष्टि पर्दा सेवा (Vitero Retina OPD)
 - ङ) आँखाको प्लाष्टिक सर्जरी सेवा (Oculoplasty OPD)
 - च) बाल आँखा रोग सेवा (Pediatric Eye OPD)
 - ম্ব) Pre Anesthesia Check up (PAC) Clinic
- ३. जाँच तथा अन्य सेवाहरू (Investigation & Others)
 - ক) OCT, FFA, USG, Corneal Topography, Specular Microscope जाँचकक्ष (Investigation)
 - ख) माईनर ओ. टि. (Treatment Room)
 - ग) आँखा स्वास्थ्य परामर्श सेवा (Eye Health Counseling Services) तथा Biometry कक्ष
 - घ) क्यास काउण्टर सेवा (Billing)
 - ङ) आँखामा लाग्ने लेजर सेवा (Laser Service)
 - च) पेईङ सेवा (Paying Clinic)
 - छ) कन्ट्याक्ट लेन्स सेवा (Contact Lens)
 - ज) न्यून दृष्टि सेवा (Low Vision)
 - भा) अर्थोअप्टिक्स सेवा (Orthoptics)
 - ज) प्रयोगशाला सेवा (Laboratory)
 - ਟ) Amblyopia Scan
 - চ) Prosthetic Eye Clinic/Lab
 - ਤ) Dry Eye Clinic
 - ৱ) Glaucoma Laser Service
 - ण) Tele-Ophthalmology Service
- ३४ सै घण्टा आकस्मिक सेवा
- धृ. औषधि सेवा (Pharmacy)
- ६. चश्मा सेवा (Optical)
- ७. आँखा बैंक (आँखाको नानी संकलन केन्द्र) सेवा (Cornea Collection Center)
- ट. अन्तरङ्ग सेवा In Patient Service (IPS)
- ५. आँखा स्वास्थ्य शिविर तथा विद्यालयका विद्यार्थीको आँखा जाँच कार्यक्रम (Outreach Activities: Eye Health Camp, School Screening & Eye Health Education Training)



ACKNOWLEDGEMENT

























dakfoundation

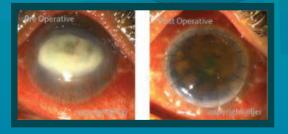


Dedicated to Bharatpur Eye Hospital Family



दान गर्ने आँखाको नानी संसारका सबभन्दा ज्ञानी । मरेपछि खेर जाने आँखा दान गरौ दुई जनालाई संसार देखाऔं ।

नेपाल नेत्रज्योति संघ हिरालाल सन्तुदेवी प्रधान नेत्र विज्ञान अध्ययन संस्थान



आँखाको नानी संकलन केन्द्र Cornea Collection Center भीमराज उषामाया पाठक आँखा बैंक Bhimraj Ushamaya Pathak Eye Bank

भरतपुर आँखा अस्पताल

बाईपास रोड, भरतपुर-१०, चितवन, नेपाल

फोनः ०५६-४९३६३३, ४९३८३३, ४९३१७१ मो. ९८५५०७६७३३ इमेलः behchitwan@beh.org.np | वेबसाइटः www.beh.com.np

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