

Mechi Eye Care Program

Mechi Eye Hospital



Annual Report 2022

In co-operation with:
Social Welfare Council

Supported by:
Eye Care Foundation, the Netherlands
Mechi Eye Hospital (Sangh), Jhapa



1. Introduction

Mechi Eye Hospital has been successfully promoting & delivering comprehensive community eye care services incorporating its basic principles of charity, equity, accessibility, affordability, inclusive & quality in its 26 years of existence in this region. At this moment, it is very much relevant to mention that we have retained our sustainability under the guidance of Mechi Eye Hospital (Sangh) despite the adversity & uncertainty caused by the pandemic.

It was also visible in our overall annual output that our post pandemic performance had surged significantly as our surgical performance reached to its all time high to 35,192 cases with a noticeable increment of 83.28% whereas patient-flow in OPD increased by 63.74% to 2,30,049 cases.

In case of hospital performance, out-patient volume reached to 1,80,204 whereas surgical volume was also increased to 34,058 – an all time high number of surgeries from direct hospital admission on OPD basis. Similarly, in-patient service was utilized by 14,742 patients which is an increment of 42.34% compared to last year.

The increment was also significant in hospital OPD which increased by 68.85% whereas outpatient flow in eye care centers has witnessed a modest growth of 24.56%.

Patients benefitting from OPD in screening camps were increased significantly by 469.89% as we organized 18 camps in 2022 thereby examining 5,129 patients and performed free eye operation on 207 patients at the base hospital i.e. 72.50% growth in screening camp surgery.

Similarly, we treated 6,171 patients from six surgical eye camps and performed surgery in 818 patients. Surgical eye camp output raised by 220.40% in OPD & 109.74% in surgery. Further, 38,545 patients examined their eyes in eight eye care centers and 109 patients underwent eye surgery at Bhadrapur Eye Care Centre which was an increment of 36.25% in surgical output.

In 2022, we celebrated our 25th as well as 26th Anniversary and certificates were awarded to our partners-hospital staff as well as government & non-government organizations. Some of the most important construction works were completed; be it either parking shade with pavers or drainage canal.



Another important aspect that needs our attention is to enhance our technical capabilities by acquiring state of the art equipment and we did it accordingly with the investment of NRs. 45.36 million on new equipments.

In case of our performance in other regular activities like sub-specialty services, training of different category of human resources (ophthalmologist, optometrist, ophthalmic assistant etc.) & eye health education training is also satisfactory with the support from local partners.

Table no. : MECP Performance Summary

S. N.	Description	2021	2022	Diff	In %
OPD					
1	Hospital	106,722	180,204	73,482	68.85
2	Scr. Camp	900	5,129	4,229	469.89
3	Surg Camp	1,926	6,171	4,245	220.40
4	PECC	30,946	38,545	7,599	24.56
Surgery					
1	Hospital	18,611	34,058	15,447	83.00
2	Screening Camp	120	207	87	72.50
3	Surgical Camp	390	818	428	109.74
4	PECC	80	109	29	36.25
A	Total-OPD	140,494	230,049	89,555	63.74
B	Total-Surgery	19,201	35,192	15,991	83.28

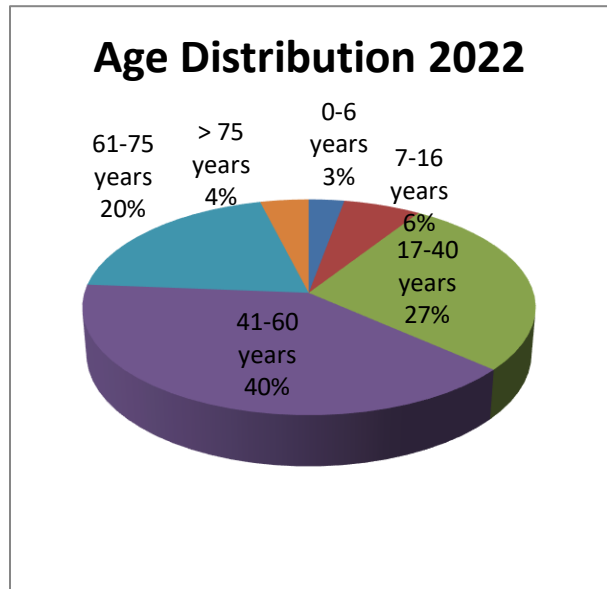
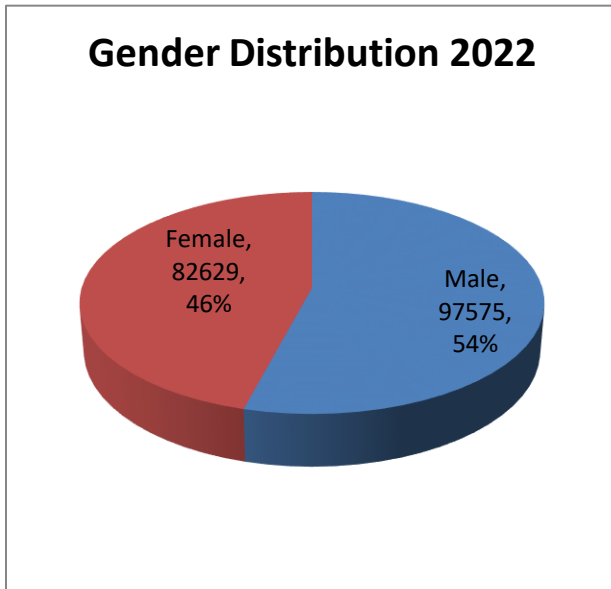
In 2022, our partnership with municipality & rural municipalities in Jhapa enabled us to train 113 female community health volunteers, 65 school teachers and 66 health personnel in primary eye care and common ocular conditions. Further, 6,473 children were screened in their schools whereas free spectacles were distributed to 173 children with refractive error.

In case of gender equity in accessibility to the existing eye care services, only 45.85% female patients utilized our services compared to 54.15% male patients in 2022.

The age-wise distribution data also indicates that majority of patients visiting OPD were under the productive age group of 17-60 years i.e. 67.08% whereas only 9.17% falls under pediatric age group of 0-16 years. Similarly, 19.82% patients fall under old age of 61-75 years whereas only 3.94% patients were respected senior citizens above 75 years age.

Chart no. 1

Chart no. 2



Out of 2,30,049 outpatients examined, hospital contribution was 78.33% whereas outreach contribution was 21.67% i.e. screening camp-2.23%, surgical eye camp-2.68% and primary eye care centre-16.76% (See chart). Similarly, out of 35,192 surgeries performed, 96.78% was based on direct hospital visit where as outreach program made a contribution of 3.22%

Chart no. 3

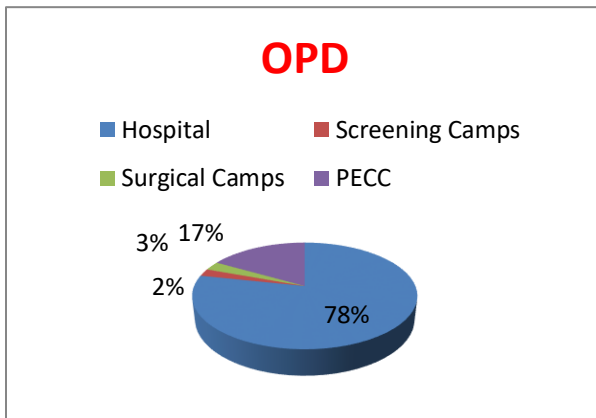
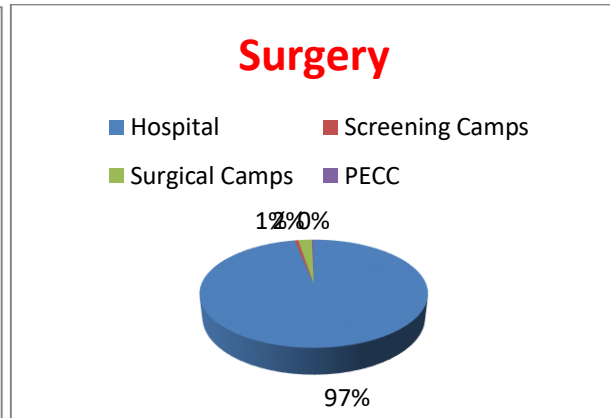


Chart no. 4



2. Hospital Services:

A staggering growth was witnessed in service uptake by patients both in OPD & surgery by 68.85% and 83.00% respectively in comparison to last year.

Moreover, all major surgical procedures followed similar growth trend by a minimum of 25.71% in glaucoma except squint surgery which was decreased by 14.25%. The highest growth rate was seen in orbit & oculoplasty by 119.44% followed by cornea & retina by 93.42% & 75.28% respectively whereas cataract surgery was also increased by 85.43%. In addition to this, we examined 16,552 children in OPD and provided 1,865 spectacles besides performing surgery on 1,192 children as well.

(a) **Out-patient:**

The number of outpatients reached to 1,80,204 during this year with an astounding increment of 68.85% in comparison to last year. Similarly, the table showed exponential growth in Emergency OPD by 142.74% whereas Paying & Review OPD were also increased sufficiently by 84.58% & 78.03% respectively but General OPD witnessed a modest growth rate of 22.32% only.

Table no. : Hospital OPD

S. N.	Description	2021	2022	Diff.	In %
1	General	24,381	29,824	5443	22.32
2	Paying	55,489	102,420	46931	84.58
3	Emergency	241	585	344	142.74
4	Review	26,611	47,375	20764	78.03
5	Total	106,722	180,204	73482	68.85

(b) **Operation Theatre:**

Our surgical output surged to an all time high to 34,058 surgeries in 2022 from direct hospital admission with an excellent growth of 83.00%. The major contributor was cataract surgery which was increased by 85.43% to a total number of 22,270 surgeries. The table indicated increasing trend in all major surgeries; the highest in oculoplasty by 119.44% and the lowest in glaucoma by 25.71%. However, we can witness a decrease in squint & other surgery by 14.25%

Table no. : Major Surgery

S. N.	Description	2021	2022	Diff.	In %
1	Cataract	12010	22270	10260	85.43
2	Glaucoma	35	44	9	25.71
3	Cornea	1399	2706	1307	93.42
4	Retina	2957	5183	2226	75.28
5	Squint & Others	744	638	-106	-14.25
6	Orbit & Oculoplasty	1466	3217	1751	119.44
	Total	18611	34058	15447	83.00

(c) **In-patient:**

Our nursing team offered patient care including eye health education and post-operative medication to 14,742 patients admitted into different wards. The highest number of occupancy was seen in general ward by 6,177 patients whereas paying ward and single cabin

were occupied by 5,718 and 2,847 patients respectively. However, septic ward remained vacant without any admission.

Hospital bed occupancy was increased the highest in general bed by 52.22% and the lowest increment was found in single cabin by 32.91% compared to last year.

Table no. : Ward Admission Detail

S. N.	Description	2021	2022	Diff	In %
1	General Bed	4058	6177	2119	52.22
2	Paying Bed	4155	5718	1563	37.62
3	Septic Bed	2	0	-2	-100.00
4	Cabin-Single	2142	2847	705	32.91

(d) Sub-Specialty Services

I. Pediatric:

The total number of children screened in pediatric department was 16,552 out of which 9,797 were male & 6,725 were female i.e. 59.30% & 40.70% respectively. The pediatric OPD has increased significantly by 50.54% in 2022.

Table no. : Pediatric OPD, Spectacles & Surgery

Type of Service	2021	2022	Diff	In %
OPD	10,995	16,552	5,557	50.54
Spectacles Provided	606	2,900*	2,294	378.55
Surgery				
Cataract	312	467	155	49.68
Squint	18	16	-2	-11.11
Pterygium	2	12	10	500.00
DCT/DCR	13	46	33	253.85
Glaucoma	9	14	5	55.56
Corneal Repair	46	99	53	115.22
Ptosis/Lid Surgery	14	16	2	14.29
Vitreous/Retina	116	152	36	31.03
LASER	5	0	-5	-100.00
Others	269	370	101	37.55
Total	804	1,192	388	48.26

*Including school screening camps

Similarly, pediatric surgery was also increased remarkably by 48.26% in 2022; a total number of 1,192 surgeries were performed in children and most of them were cataract (467) followed by vitreo-retina (152) and other procedures (370). However, higher growth rates were evident in pterygium by 500.00%, DCT/DCR by 253.85% & corneal repair by 115.22%.

The gender ratio in pediatric surgery was found to be 69.04% male compared to 30.96% female. Similarly, 677 (56.80%) surgeries were done under general anesthesia and 515 surgeries (43.20%) were done under local anesthesia. Further, spectacles were provided to only 1,865 children i.e. 11.27% of the total pediatric OPD.

II. Glaucoma:

We performed trabeculectomy surgery in 43 patients and combined glaucoma surgery was performed in 137 patients all of them were combined with cataract surgery (Combined SICS-57 and Combined Phaco-80).

Table no. : Glaucoma Surgery

S. N.	Description	2021	2022	Diff	In %
1	TRAB	33	43	10	30.30
2	YAG PI	0	1	1	
3	Cyclocryo	2	0	-2	
4	Sub-total	35	44	9	25.71

III. Retina:

In retina surgical procedures, we observed that the highest number of surgery performed was pars-plana vitrectomy in 711 patients followed by silicon oil procedures in 342 patients whereas intracameral injection was administered in 3,629 cases. Similarly, combined PPV surgeries were performed in 260 patients and autologous PRP was done in 91 cases. The overall growth in retina surgery was increased significantly to 75.28% in 2022.

Table no. : Major Retina Procedures

S. N.	Description	2021	2022	Diff	In %
1	RD Surgery	46	2	-44	-95.65
2	Band & Buckle+Others	38	36	-2	-5.26
3	Core Vitrectomy	22	37	15	68.18
4	Pars Plana Vitrectomy	439	711	272	61.96
5	Combined ParsPlana Vvitrectomy	89	157	68	76.40
6	Silicon Oil Procedure	142	342	200	140.85
7	Intracameral Injection	2007	3629	1622	80.82

8	Autologus PRP	104	91	-13	-12.50
9	Anterior Vitrectomy	0	52	52	
10	Other VR Procedures	10	23	13	130.00
11	PPV+Intracameral Injection	60	103	43	71.67
	Sub-total	2957	5183	2226	75.28

IV. Cornea:

In cornea surgery, Pterygium surgery was doubled within one-year interval i.e., from 1,222 in 2021 to 2,444 in 2022. Repair procedure was done in 139 patients. Despite the inadequate supply of donor cornea in comparison to its demand, we were able to transplant donor cornea altogether in 63 patients (Therapeutic Penetrating Keratoplasty-43 cases & Optical Penetrating Keratoplasty-20 cases) & the annual increment in both the procedures (TPK & OPK) were 230.77% & 300.00% respectively.

A total number of 2,706 surgeries were done under corneal major procedures and the overall growth was reached to 93.42% in 2022.

Table no. : Major Cornea Procedures

S. N.	Description	2021	2022	Diff	In %
1	Pterygium	1222	2444	1222	100.00
2	Corneal Repair	111	139	28	25.23
3	Corneal FB/Suture Removal	44	55	11	25.00
4	Therapeutic Penetrating Keratoplasty	13	43	30	230.77
5	Optical Penetrating Keratoplasty	5	20	15	300.00
6	Penetrating Keratoplasty	1	0	-1	
7	Corneal Scraping	3	5	2	66.67
	Sub-total	1399	2706	1307	93.42

V. Orbit & Oculoplasty:

In orbit & oculoplasty surgery, the highest numbers of surgeries performed were DCR & DCT surgeries in 862 & 575 patients respectively followed by minor surgery performed in 472 cases and mass excision procedure carried out in 243 cases. Further, tarsoraphy surgery was performed in 340 patients whereas chalazion procedure was done in 145 cases. Altogether, 3,217 patients benefited from orbit & oculoplasty surgeries and the overall growth reached to 119.44% in 2022.

Table no. : Orbit & Oculoplasty Procedures

S. N.	Description	2021	2022	Diff	In %
1	Entropion/Ectropion	109	145	36	33.03
2	Enucleation/Evisceration	102	149	47	46.08
3	Tarsoraphy	186	340	154	82.80
4	I & C/ I & D	93	43	-50	-53.76
5	Open Globe Injury Repair	76	90	14	18.42
6	DCT	260	575	315	121.15
7	DCR	336	862	526	156.55
8	Botox Inj.	14	3	-11	-78.57
9	Pupilloplasty	28	32	4	14.29
10	Canthotomy	6	5	-1	-16.67
11	Ptosis Correction	35	56	21	60.00
12	Chalazion	42	145	103	245.24
13	Minor Surgery	37	472	435	1175.68
14	Other Major Procedures	11	57	46	418.18
15	Skin Graft/Mass Excission	131	243	112	85.50
	Sub-total	1466	3217	1751	119.44

VI. Strabismus & Other Surgery:

In this sub-specialty service, squint surgery was increased more than 100% from 55 cases in 2021 to 116 cases in 2022. Similarly, number of patient undergone AC wash procedure was also increased by 101.45%, i.e. 417 cases in 2022. However, overall surgery was decreased by 14.25% in this sub-specialty service in 2022.

Table no. : Strabismus & Other Surgery

S. N.	Description	2021	2022	Diff	In %
1	Squint-Functional	55	116	61	110.91
2	EUA	26	42	16	61.54
3	AC Wash	207	417	210	101.45
4	Other Intra-ocular	258		-258	-100.00
5	Other Extra-ocular	149		-149	-100.00
6	Suture Removal	49	48	-1	-2.04
7	Bandage Contact Lens+Glue		15	15	
	Sub-total	744	638	-106	-14.25

(e) Optical Dispensing and Pharmacy:

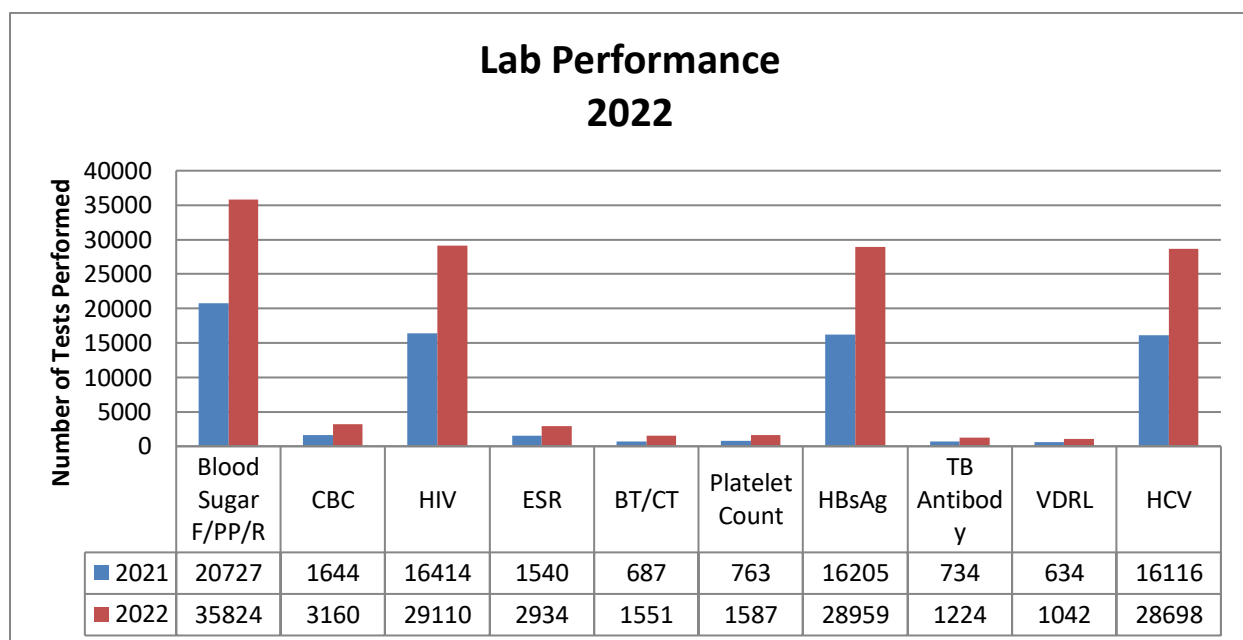
A total number of 60,306 patients obtained spectacles from optical dispensing unit out of which 2,900 were pediatric patients and pharmacy had dispensed medicines to 2,63,988 patients including repeat visits. (replace the old text with this new one)

(f) Other Services:

Laboratory Service: We have been providing the following services on regular basis:

- A total number of 33,376 patients obtained different laboratory test services in 2022. Some of the major tests conducted in patients were blood sugar, HIV, HBsAg & HCV in 35,824, 29,110, 28,959 & 28,698 cases respectively.

Chart no. : Comparative Lab Performance 2022



- **Optometry Service:** GAT and Orthoptic tests were performed in 15,099 & 3,947 patients respectively in 2022. Similarly, Ptosis & contact lens evaluation were carried out in 411 & 405 patients respectively whereas color vision and diplopia tests were performed in 769 & 407 patients respectively. Further, Low Vision evaluation was carried out in 108 cases.

Table no. : Major optometry procedures

S. N.	Description	2021	2022	Diff.	In %
1	Orthoptic Evaluation	2619	3947	1328	50.71
2	Low Vision Evaluation	45	108	63	140.00

3	Contact Lens Evaluation	146	405	259	177.40
4	GAT	5557	15099	9542	171.71
5	Contrast Sensitivity	129	297	168	130.23
6	Repeat Refraction	899	1853	954	106.12
7	Color Vision Test	435	769	334	76.78
8	Hartel's Test	128	271	143	111.72
9	Amsler's Grid Test	29	36	7	24.14
10	Ptosis	205	411	206	100.49
11	Diplopia Chart	204	407	203	99.51

- **Counseling Service:** Counselors informed and educated 29,568 patients for various ophthalmic services which was a decent increment of 96.49% compared to last year.

The highest number of patients counseled was 20,172 for cataract surgery followed by retina surgery to 4,037 patients, oculoplasty surgery to 2,497 patients and cornea surgery to 2,254 patients. Similarly, patients counseled for combined surgery, squint & glaucoma surgeries were 470, 102 & 36 cases respectively.

Table no. : Major counseling procedures

S. N.	Description	2021	2022	Diff.	In %
1	Cataract	10626	20172	9546	89.84
2	Glaucoma	33	36	3	9.09
3	Cornea	1241	2254	1013	81.63
4	Retina	1263	4037	2774	219.64
5	Squint	56	102	46	82.14
6	Oculoplasty	1708	2497	789	46.19
7	Combined Surgery	121	470	349	288.43
	Sub-total	15048	29568	14520	96.49

3. Human Resource Development:

- **Training**

- **Oculoplasty:** Dr. Satish Timilsina & Dr. Aditya Prasad were enrolled to undergo one-year training in oculoplasty commencing from 14th April & 17th September, 2022 respectively.
- **Vitreo-Retina:** Dr. Bipin Bista & Dr. Sadhana Sharma were selected to undergo eighteen months vitreo-retina training fellowship commencing from 14th April, 2022 in partnership with BPKLOS (TUTH-IOM), Kathmandu.

- **Medical Retina:** Dr. Santosh Kumar Sah joined medical retina training (6 months) from 14th April, 2022.

- **Anterior Segment:** Four ophthalmologists were selected to pursue two-year surgical training in anterior segment in 2022. (Dr. Shreeji Shrestha & Dr. Pramiti Joshi from 15th March, 2022, Dr. Saman Shrestha from 15th May, 2022 and Dr. Ankit Bista from 16th December, 2022).



- Short-term surgical training covering a period of 6-8 weeks was also provided to three PGDO trainees nominated by Timor-Leste Program under the support from Royal Australian College of Surgeons, East Timor. (Dr. Jessica Rosa Graziano - 06 March to 08 April, 2022, Dr. Arifin Antonir Dos Santo & Dr. Januario M. Gusmao – 01 September to 03 November, 2022).

Further, Dr. Leesha Shrestha Joshi deputed from Nepal Eye Hospital, Kathmandu obtained surgical training on phaco-emulsification technique for six weeks from 17th April, 2022.

- **MD Resident Training:**

In 2022, our hospital provided hands on surgical exposure to thirteen MD in Ophthalmology residents posted from B. P. Koirala Lions Center for Ophthalmic Studies (IOM-TUTH), Kathmandu & B. P. Koirala Institute of Health Sciences, Dharan in a high volume set-up. (8 residents - BPKLCOS & 5 residents - BPKIHS).

- **Internship:**

In 2022, eleven optometry final year students were enrolled to undergo one-year internship training to fulfill their B. Optometry curriculum requirement commencing from 17th August, 2022.



Altogether, forty-two ophthalmic science students (3rd year) attended a 1.5-2 months on-the-job training from 14th August, 2022 onwards.

- Himalaya Eye Hospital-30 students from 14th August 2022
- Nepal Eye Hospital-4 students from 29th November, 2022

- Tilganga Institute of Ophthalmology-8 students from 11th September, 2022

Students pursuing certificate courses in nursing & general medicine visited our hospital to obtain exposure of eye hospital for two weeks as per the curriculum requirement.



- Lifeline Hospital Institute of Health Science, Damak – 29 students (3rd year general medicine faculty) from 09th January, 2022
- Kanchanjungha Institute of Health Science, Birtamod - 37 students (2nd year nursing faculty) from 24th July, 2022
- AMDA Institute of Health Science, Damak - 29 students (3rd year general medicine faculty) from 18th December, 2022

Further, three months on-the job training was provided to 9 ophthalmic assistant trainees from different technical institute affiliated to CTEVT from 01st May, 2022 and 1 ophthalmic assistant trainee from New Shree Shantini Paramedical College of Nursing & Science, Bangalore, India obtained six months training from 24th August, 2022.

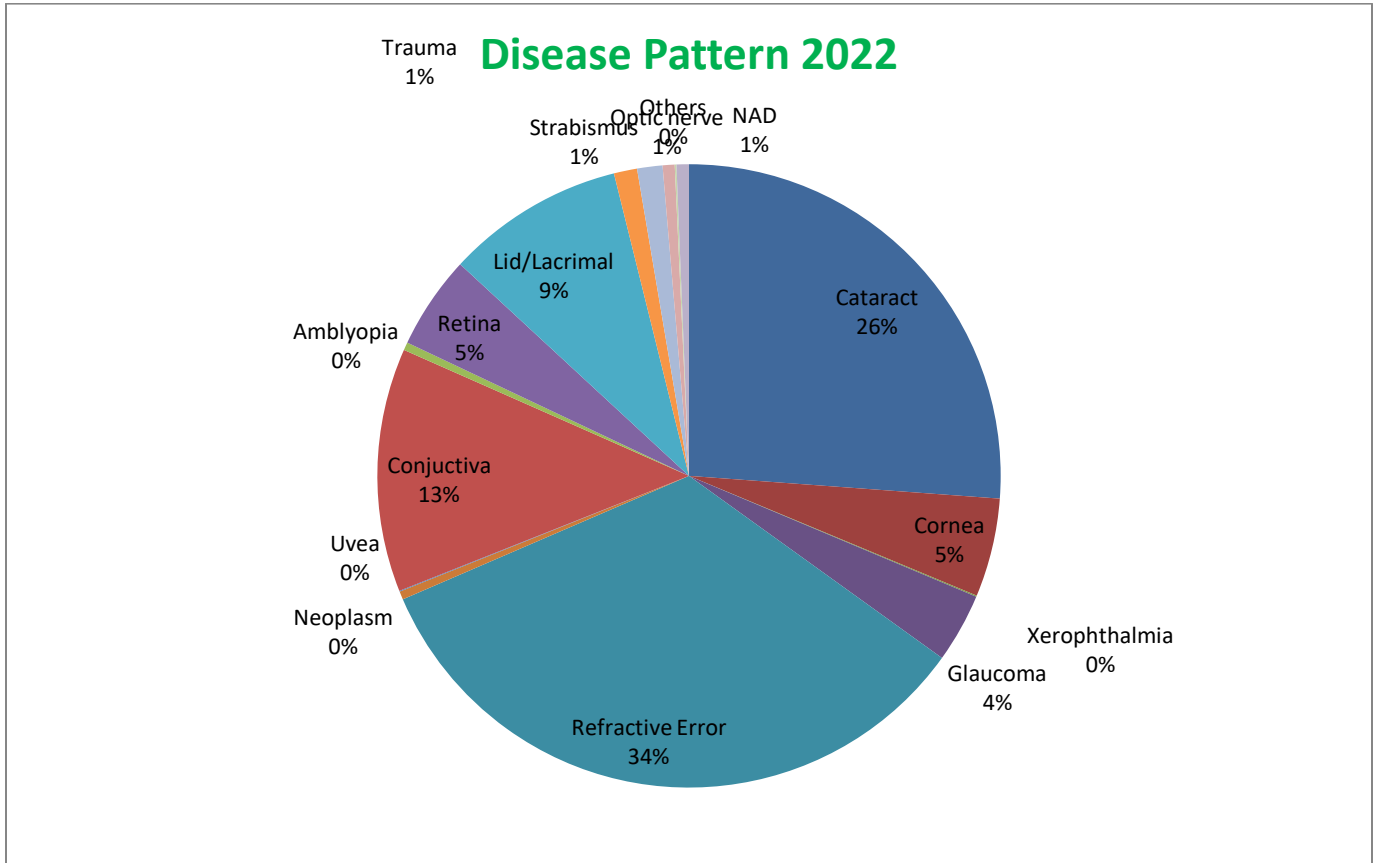
4. Workshop/Seminar/Conference:

- Dr. Purushottam Joshi (Medical Director), Dr. Isha Bista (Cornea Consultant), Ms. Namrata Acharya (Counselor) & Mr. Pushpa Adhikari (Ophthalmic Assistant) participated in Refresher Training in Eye Banking and Nepal Eye Bank Advisory Committee Annual Meeting organized by Tilganga Institute of Ophthalmology from 07-08 January, 2022.
- Mr. Amit Kumar Singh (Optometrist) joined a workshop on fitting and assessment of sclera lenses organized by Purecon Lenses Pvt. Ltd. in New Delhi, India from 23-30 March, 2022.
- Dr. Purushottam Joshi (Medical Director) supported as a trainer in community children eye program workshop organized by Itahari Global Eye Hospital in Itahari on 2nd April, 2022.
- Dr. Isha Bista (Cornea Consultant) participated in Cornea conference organized by Tilganga Institute of Ophthalmology in Kathmandu on 05 June, 2022.
- Dr. Ashish Raj Panta (Oculoplasty Consultant) attended a CME on Oculoplasty organized in Kathmandu on 3rd September, 2022.
- Dr. Purushottam Joshi (Medical Director) attended World Ophthalmology Congress 2022 virtual from 09-12 September, 2022 and presented a paper on “Psychological reactions among the staff of a tertiary eye hospital in Eastern Nepal during COVID-19 pandemic”.

- Dr. Purushottam Joshi (Medical Director), Dr. Isha Bista (Cornea Consultant), Dr. Bipin Bista (Ophthalmologist) & Dr. Saman Shrestha (Ophthalmologist) participated in 24th NOSCON Annual Conference Nepal 2022 organized by Nepal Ophthalmic Society in Bharatpur, Chitawan from 14-15 October, 2022.
- Dr. Ashish Raj Pant (Oculoplasty Consultant), Mr. Prashant Shrestha (Program Officer) & Mr. Yuba Raj Bohora (Eye Health Education Officer) participated in refresher training on research methodology and ethics in research organized by Nepal Netra Jyoti Sangh in Kathmandu from 19-20 October, 2022.
- Dr. Purushottam Joshi (Medical Director), Dr. Prabha Subedi (Deputy Medical Director), Dr. Ashish Raj Pant (Oculoplasty Consultant), Dr. Isha Bista (Cornea Consultant), Dr. Bipisha Shrestha (Retina Consultant) Dr. Khusboo Thakur (Ophthalmologist), Dr. Shreeji Shrestha (Ophthalmologist), Dr. Aditya Prasad (Ophthalmologist), and Dr. Satish Timilsena (Ophthalmologist) were present in the 4th National Conference on Oculoplasty and Ocular Oncology organized by NESOSCON from 21-22 October, 2022 in Kathmandu.
- A Team of Optometrists (Mr. Amit K. Singh, Ms. Nandi Limbu, Ms. Nikita Niraula, Ms. Kaushalya Dahal, Mr. Ajay K. Ray, Ms. Priyanka Yadav) along with Mr. Santosh Kumar Labh Karna (OPD In-charge), Mr. Hom Prasad Dhital (Ophthalmic Assistant) and Mr. Prashant Shrestha (Program Officer) participated in a CME on specialty contact lens organized by Eastern Regional Eye Care Program on 04th November, 2022 in Biratnagar.
- Dr. Purushottam Joshi (Medical Director), Mr. Amit Kumar Singh (Optometrist) & Mr. Ajay Kumar Ray (Optometrist) attended workshop on specialty contact lens organized by B. P. Koirala Lions Center for Ophthalmic Studies, Kathmandu on 03 December 2022.
- Dr. Purushottam Joshi (Medical Director), Dr. Sadhana Sharma (Ophthalmologist) & Dr. Ankit Bista (Ophthalmologist) attended CME on retina organized by Nepal Vitreo-retina Society in Kathmandu on 17 December, 2022.



Chart no.



5. Outreach activities:

a. Surgical Eye Camp:

In 2022, we successfully organized six surgical eye camps; three camps in Panchathar and one camp each in Taplejung, Ilam & Jhapa respectively. Altogether, 6,171 patients were examined in camp OPD whereas 818 patients underwent eye surgery out of which 700 cases were cataract surgery with intra-ocular lens implant.



Table no.: Surgical Eye Camp Summary

S. N.	Description	2021	2022	Diff.	In %	
1	Surgical Camps	No.	2	6	4	200.00
		OPD	1926	6171	4245	220.40
		Surgery	390	818	428	109.74

b. Screening Camp:

A total number of 18 screening eye camps were organized; mostly in Jhapa district. The total number of out-patient examination reached to 5,129 and 270 patients had benefitted from surgery at the base hospital. (See table below)



Table no. : Screening Camp Summary

S. N.	Description	2021	2022	Diff.	In %	
1	Screening Camps	No.	3	18	15	500.00
		OPD	900	5129	4229	469.89
		Surgery	120	207	87	72.50

Altogether, 1,054 patients took advantage of the optical dispensing facility made available on the spot of screening eye camps.

c. School Screening Camp:

Last year, we conducted school screening camps in 17 schools with the support from Municipality and Rural Municipality mostly in Jhapa district & majority of them i.e. ten school screening camps were supported by Kanakai Municipality. Altogether, 6,473 students underwent eye screening and 173 students obtained free spectacles.



Table no. : School Screening Camp Summary

S. N.	Description	2021	2022	Diff.	In %	
1	School Screening Camps	No.	283	17	-266	-93.99
		OPD	68129	6473	-61656	-90.50
		Specs.	2983	173	-2810	-94.20

6. Satellite Clinic Services:

The total number of patients benefitted from the out-patient service from eight eye care centers reached to 38,545 in 2022. Again, the out-patient volume was the highest at Gauradaha eye care centre i.e. 8,784 followed by Damak (6,484) and Surunga (5,333). The highest OPD growth rate was found in Belaka followed by Bhadrapur by 76.72% and 31.98% respectively. (See table below)

Further, 5,712 patients benefitted from optical dispensing service available at primary eye care centers, a significant increase of 59.38% compared to previous year.

Damak eye care center was relocated in a newly furnished clinic set-up with the addition of required facility to perform surgery on OPD basis in a new building owned by Damak municipality ward no. 6 office from 22 August, 2022.

Table no. : PECCs Performance Summary

S. N.	Description	2021	2022	Diff.	In %
1	Panchathar	3168	3394	226	7.13
2	Rajgadh	2331	2127	-204	-8.75
3	Gauradaha	8538	8784	246	2.88
4	Damak	6483	6484	1	0.02
5	Bhadrapur	3437	4536	1099	31.98
6	Baniyani	3144	3089	-55	-1.75
7	Belaka	2715	4798	2083	76.72

8	Surunga*	1130	5333	4203	371.95
	Total	30946	38545	7599	24.56

**Clinical Data of only four months omitted in MEH Annual Report 2021 included*

Similarly, surgical service was continuously provided at Bhadrapur Eye Care Center in 2022 and the number of beneficiaries reached to 109 patients. (See table for Detail)

Bhadrapur Eye Care Center				
S. N.	Types of Surgery	Male	Female	Total
1	SICS+PCIOL	20	27	47
2	PHACO+PCIOL	19	25	44
3	Pterygium	5	12	17
4	Entropion		1	1
Total		44	65	109



7. Diagnostic & LASER Services:

Diagnostic services are vital for the management of various ocular conditions as the appropriate course of treatment is mostly based on various test reports. In 2022, B-scan & OCT tests were performed in 18,457 & 14,798 patients respectively. Other tests carried out in significant numbers were visual field in 5,142 patients, schirmer test in 5,334 patients and

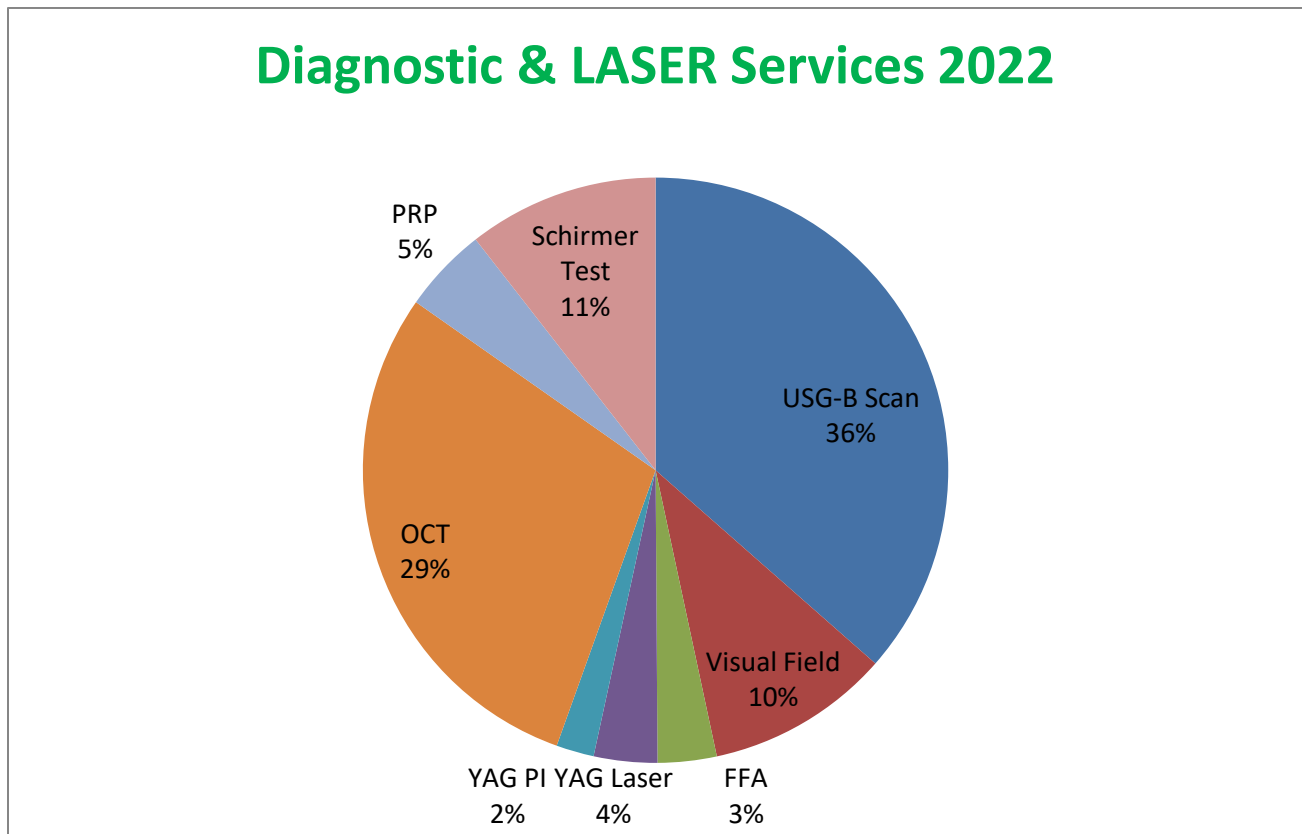
fundus photos taken in 1,646 patients. Similarly, LASER & PRP therapies were performed in 2,824 (YAG-1,774 & YAG PI-1,055) & 2,389 patients respectively.

Table no. : Diagnostics & LASER Services

S. N.	Description	2021	2022	Diff	In %
1	USG-B Scan	10,230	18,457	8227	80.42
2	Visual Field	3,167	5,142	1975	62.36
3	FFA / Fundus Photo	2,280	1,646	-634	-27.81
4	YAG Laser	1,115	1,774	659	59.10
5	YAG PI	470	1,055	585	124.47
6	OCT	8,233	14,798	6565	79.74
7	PRP	1,113	2,389	1276	114.65
8	Schirmer Test	3,163	5,334	2171	68.64

A chart is presented below depicting some of the major diagnostic tests performed with their contribution:

Chart no. 7



8. Eye Health Education:

Community eye health system is complete only with the involvement of health workers engaged at grass root level. Apart from that, availability of services does not ensure accessibility of the same by the community. Hence, it is crucial to cover the gap between the service provider and the community people which is best bridged with the delivery of primary eye health education training to different influential target groups active in the health sector at local level. This arrangement will support to increase awareness among the community people thereby seeking eye health care services available to them at the nearest location thereby ensuring optimum utilization of the existing services.

With the main objective of increasing awareness and strengthening referral network in the local community, we organized eye health education training to various target groups e.g. female community health volunteers, school teachers and health personnel in co-operation with Bhradashi & Kachankawal rural municipalities and Bhadrapur, Arjundhara & Patharisanishchare municipalities.

Major training activities organized in 2022 are tabulated below:

Table no. : Major Training Activities

S. N.	Description	2021	2022	Diff.	In %
1	FCHV	44	113	69	156.82
2	School Teachers	62	65	3	4.84
3	Health Personnel	18	66	48	266.67
Total		124	244	120	96.77

9. Events:

- One mega event was organized to commemorate our 25th Anniversary on 15th July, 2022. The program was chaired by Mr. Jal Kumar Gurung; Chairman-Mechi Eye Hospital (Sangh) and the formal session was conducted by Mr. Ganesh Pokharel (Secretary-MEHS). Mr. Ashok Karki (Mayor-Belaka Municipality) was present as chief guest of the program.



Distinguished members of MEHS were also present to observe the ceremony; namely Mr. Chhatra Prasad Adhikari (Immediate past chairman), Mr. Suresh Kumar Bansal (Vice chairman), Ms. Manju Sitaula Pokharel (Treasurer), Mr. Bharatlal Giri (Member), Mr. Dinesh Kumar Mittal

(Member), Mr. Bhim Bahadur Gurung (Member) and Mr. Chandi Prasad Parajuli (Member) & certificate of appreciation was also awarded to founder members of Mechi Eye Hospital (Sangh).

Mr. Anil P. Gorkhaly (Country Director), Ms. Sujata Gautam (Admin & Finance Manager) & Ms. Shubhechha Shrestha (Communication Intern) were also present in the event representing Eye Care Foundation, the Netherlands.

Some key dignitaries present in this event were Mr. Shyam Pokharel (General Secretary-Nepal Netra Jyoti Sangh) accompanied by Dr. Sailesh Kumar Mishra (Executive Director-Nepal Netra Jyoti Sangh) & other representatives from local government entities including municipalities & rural municipalities. Further, journalists representing local & national media publication houses had also participated present in this event.



During the formal session, Mr. Suresh Bansal (Vice Chairman-MEHS) offered warm welcome to all the guests and Dr. Purushottam Joshi (Medical Director-Mechi Eye Hospital) briefly presented some of the key mile stones as well as achievements of the hospital made so far during the last twenty-five years of its existence. Other key speakers who offered their best wishes & message were – Mr. Ashok Karki (Mayor-Belaka Municipality), Mr. Shyam Pokharel (General Secretary-NNJS), Mr. Anil P. Gorkhaly (Country Director-ECF/NP), Mr. Bimal Poudel (President-Nepal Ophthalmic Assistant Association), Mr. Nagendra Sangraula (Deputy Mayor-Birtamod), The function was officially concluded with the “note of thanks” by Mr. Jal Kumar Gurung (Chairman-MEHS).

A group dance was performed by MEH team to rejoice the event. Apart from that, Long Service Award was presented to senior staff in recognition of their loyalty & dedicated service to the organization & best staff of the year as well. Further, certificates were also awarded to the representatives from different local government authorities (especially municipalities & rural municipalities) and non-government organizations in appreciation of their support towards the promotion of community eye care services in this region.

“Long Service Award” List-25th Anniversary

S. N.	Name	Designation	Service Period
1	Dr. Purushottam Joshi	Medical Director	17 Years
2	Mr. Prashant Shrestha	Program Officer	23 Years
3	Mr. Mohan Adhikari	In-charge	26 Years
4	Mr. Durga B. K.	Senior Driver	26 Years
5	Ms. Kabita Karki	Ophthalmic Officer	22 Years
6	Ms. Tanuja Dahal	In-charge	9 Years
7	Ms. Jyoti Gurung	Eye Health Worker	19 Years
8	Mr. Amit K Singh	Optometrist	7 Years
9	Ms. Muna Magar	Security Guard	16 Years
10	Ms. Sharmila Rajbanshi	Housekeeper	21 Years

“Best Staff” Award List – 25th Anniversary

S. N.	Name	Designation	Department
1	Ms. Jyoti Khadka	Store Supervisor	Administration
2	Mr. Pravat Bikram Tamang	Admin Asst.	Medical Record
3	Ms. Netra Adhikari	Eye Health Worker	OPD-Refracton
4	Mr. Binuta Lauwa	Eye Health Worker	OPD-Refracton

“Certificate of Appreciation” to Health Coordinators List – 25th Anniversary

S. N.	Name	Palika
1	Mr. Puskar Niraula	Haldibari Rural Municipality
2	Mr. Khagendra Dangal	Kankai Municipality
3	Mr. Govinda Shrestha	Gauradaha Municipality
4	Mr. Mukunda Basnet	Arjundhara Municipality
5	Mr. Ram Chandra Mishra	Kamal Rural Municipality

Another event we organized in the newly constructed parking area was our 26th Anniversary on 15th November, 2022 which was chaired by Mr. Jal Kumar Gurung (Chairman-MEHS) and the program was conducted by Mr. Ganesh Pokharel (General Secretary-MEHS). Ms. Pabitra Mahatara Prasai (Mayor-Birtamod Municipality) was present as “Chief Guest” of the program and also inaugurated the function whereas Mr. Suresh Bansal (Vice Chairman-MEHS) offered a warm welcome to the distinguished guests & participants present in the program.

Dr. Purushottam Joshi (Medical Director-MEH) highlighted some of the key indicators related to the hospital performance, new policies/provisions introduced for long-term staff retention and investments made in acquiring modern ophthalmic technology and construction of civil works within the hospital premises.



Apart from the speech delivered by key speakers present in the program, some notable activities executed were the awards presented to “Best Staff” and distribution of medals & gifts to the winners of various sports competition organized on this occasion. Further, “Best Eye Care Centre” award was presented to Gauradaha Eye Care Center. The program was finally concluded with the “note of thanks” by the chairperson.

“Best Staff” Award List-26th Anniversary

S. N.	Name	Designation	Department
1	Mr. Hom Prasad Dhital	Ophthalmic Asst.	OPD
2	Ms. Manju Pradhan	Eye Health Worker	OPD
3	Ms. Laxmi Rajbanshi	Eye Health Worker	OT
4	Mr. Yubraj Rajbanshi	Optician	OPD
5	Ms. Brinda B. K.	Housekeeper	IPD

Appreciation Certificate to Local Organizers List – 26th Anniversary **Omit dept**

S. N.	Organization	Address
1	Nepal Red Cross Society	Jhapa
2	Indreni Multipurpose Cooperative	Kankai
3	Sana Majhaua Bachat Tatha Rin Sahakark Sanstha	Birtamod
4	Gauradaha Nagarpalika	Gauradaha
5	Sahara Nepal Sahakari Sanstha	Birtamod

10. Construction & Equipment:

- Two major construction works were finished in 2022; one is drainage canal around the periphery of the compound wall and another one is the parking shade in the western side of the hospital. The total cost incurred was NRs. 92,57,648.00 only.

S. N.	Description	Amount
1	Parking Shade with Pavers	5,941,287.00
2	Drainage Canal with Concrete work	3,316,361.00
	Total Amount	9,257,648.00

- Investment is also made to acquire some of the high-tech ophthalmic equipments to enhance technical compatibility of the hospital. The total amount incurred to purchase these equipments was NRs. 45,359,878.77 only.

S. N.	Description
1	Oertli OS4 Phaco Machine
2	Light Med 432nm LASER Machine
3	Automatic ETO Sterilizer-80 Ltrs.
4	Penlon General Anesthesia Machine
5	Takagi Slit lamp
6	Eidon UWF Module
7	Heidelberg Anterior Segment Module
8	Icare Tonometer set
9	Takagi LED Operating Microscope
10	Biphasic Defibrillator with AED & Pacemaker
11	Video Laryngoscope
12	MRC DST Custom Surgical
13	Other instruments



11. Subsidy:

The detail for subsidy offered to patients is appended below:

S. N.	Description	2021		2022	
		Nos	Amount	Nos	Amount
A.	PECC				
1	Baniyani	2	2,000.00		
2	Bhadrapur	1	1,000.00	4	4,000.00
3	Phidim			2	12,688.00
4	Gauradaha	5	5,000.00	3	3,000.00
5	Rajgadh			6	6,000.00
	Sub –total	8	8,000.00	15	25,688.00
B.	Screening Camps				
1	Registration-School Screening			4	640.00
2	Registration-Screening Camps	120	18,000.00	223	35,680.00
3	Lab Test	3	2,880.00	167	160,160.00
4	Surgery for Screening Camp Patients	120	240,000.00	213	417,000.00
	Sub –total	243	260,880.00	607	613,480.00
C.	Hospital OPD				
1	Lab test for Underprivileged			77	74,820.00
2	Surgery and Others	38	145,478.00	205	960,355.00
3	Medicines			15	5,501.00
	Sub –total	38	145,478.00	297	1,040,676.00
D.	Nepal REACH Project				
1	OPD	945	47,350.00		
2	Orthoptics Evaluation	487	146,100.00		
3	Visual Field Test	12	12,000.00		
4	Ptosis, Low Vision & Other Tests	42	10,850.00		
5	B-Scan, Opt. Biometry & Pachymetry	68	29,900.00		
6	Fundus Photo & OCT	59	81,000.00		
7	General Anesthesia	2	10,000.00		
8	Cataract Surgery	12	226,000.00		
9	Squint Surgery	8	128,000.00		
10	LASER Treatment	11	14,000.00		
11	Blood Investigation	26	30,180.00		
12	Minor Surgery	2	24,800.00		
	Sub-total	1674	760,180.00	0	-
13	Spectacles-School Screening Camp	2685	2,148,000.00		
14	Spectacles-Referral Cases	296	236,800.00		
15	Medicines-School Screening Camp		12,707.00		
	Sub-total	2981	2,397,507.00	0	-
Grand Total		4944	3,572,045.00	919	1,679,844.00



Subsidy is provided to underprivileged patients referred to the hospital from different types of community activities like screening eye camps, surgical eye camps etc. on regular basis in order to maintain equity in service delivery to the community. On the long run, it actually supports to resolve barriers & increase the service uptake at grass root level.

In 2022, the number of beneficiaries received subsidy from the hospital reached to 919 patients and the total cost covered by the hospital was NRs. 16,79,844.00.



Mechi Eye Care Program At a Glance in 2022

S.N.	Activities	Mechi Eye Hospital, Birtamod-Jhapa (Year 2022)
1	Number of OPD	Total OPD : 1,80,204 <ul style="list-style-type: none"> - General – 29,824 - Review – 47,375 - Paying – 1,02,420 - Emergency – 585
2	No. of Surgeries	Total surgery : 34,058 <ul style="list-style-type: none"> - ICCE/ECCE/SICS – 7,324 - Combined surgery (Glaucoma & Retina) – 57 & 33 - Phaco surgery – 14,383 - Combined Phaco (Glaucoma & Retina) – 80 & 351 - Secondary Implant – 42 & Others – N/A - Glaucoma (Trabeculectomy) – 44 - Retina – 5,183 - Squint & Others – 638 - Cornea (Pterygium, Corneal Foreign Body Removal, Pupiloplasty) – 2,706 - Oculoplasty – 3,217
3	No. of Screening Camp	MEH organized 18 screening camps in which it examined 5,129 patients and performed surgery on 207 cases.
4	No of Surgical Camp	MEH organized 6 surgical eye camps with OPD of 6,171 patients and surgery of 818 cases
5	No. of Training for Referral	School Teachers – 65, FCHV – 113, Health Personnel - 66
6	No of Children Served	OPD – 6,473 & Spectacles – 173
7	No. of MD Ophthalmologist	13 ophthalmologists including fellows in Vitreo-retina-2, Oculoplasty-1, Anterior Segment-4.
8	No. of Clinical Staff	Optometrist – 6, Ophthalmic Assistant – 28, Staff Nurse – 4, Eye Health Worker – 42 & EHW Trainees – 22, Optometry Intern-10
9	No. of Administrative Staff	Admin staff – 15, Security - 17, Support Staff – 59 & Housekeeping Staff - 23

Chart no.: MECP OPD Summary (1996-2022)

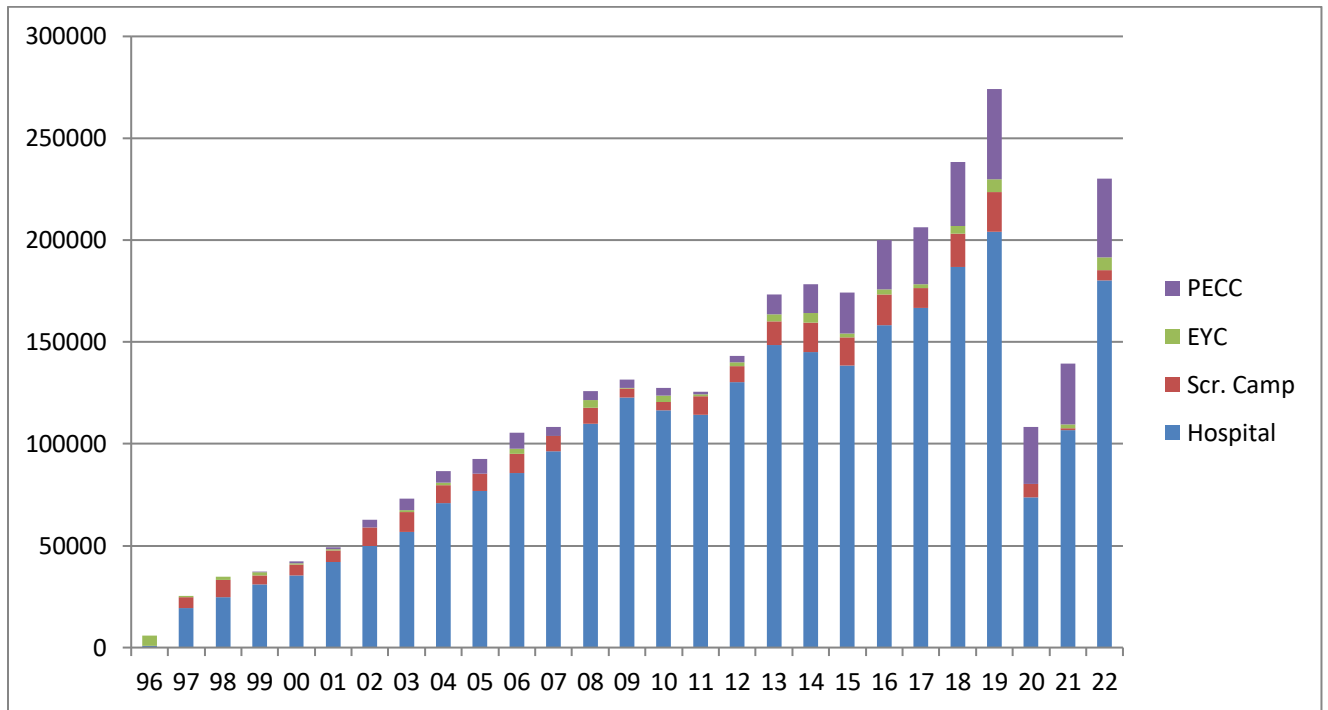


Chart no.: MECP Surgery Summary (1996-2022)

