

INNOVATION EYE CENTRE - KISII EYE HOSPITAL

Annual Activity Report 2020

7th Report



Vision 2020 and The COVID-19 Pandemic

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Innovation Eye Centre - Kisii Eye Hospital: At A Glance

Program Description:

Innovation Eye Centre is a social enterprise that offers high quality, affordable and accessible comprehensive world class eye care services to the community in South Western Region of Kenya and beyond.

CEO/Medical Director:

Dr. Dan Kiage, Consultant Ophthalmologist, Glaucoma Specialist

Year Started:

We started seeing our first patients in February 2013

Year Officially Launched:

Innovation Eye Centre – Kisii Eye Hospital was officially inaugurated by Kisii County Governor, H.E. Hon. James Ongwae on 29th November 2013.

Geographical Type:

Peri-Urban, Rural Set Up

Target Market:

We target to cover a population of about 5.2 million people especially in the counties of Kisii, Nyamira, Migori, Homa Bay, parts of Kisumu and Narok and beyond.

Country:

Kenya

Town:

Kisii

Location:

Nyanchwa Area, Behind Kisii Primary School

Our Vision

“Eliminating Preventable Blindness”

Our Mission

“To Provide Affordable Quality Eye Care”

Our Core Values

Patient Centered, Quality, Compassion, Ethics, Innovation

Our Purpose

To deliver First Class Comprehensive Eye Care Services to all in order to “**Improve Lives through Affordable Quality Eye Care**”

Our Business Model for Service and Social Transformation:

Innovation Eye Centre is using a social enterprise business model with an entrepreneurial approach to solve a social problem- avoidable blindness and visual impairment. We aim of create positive social impact through the restoration of sight and prevention of avoidable blindness. As we combine business discipline, medical skills and compassion we will ensure that ALL can receive high quality affordable eye care services irrespective of their social economic status to the community in South Western Region of Kenya and beyond.

The cross-subsidization model ensures that services are available at normal rates to the people who can afford and substantially below cost to the most vulnerable and low income members of our society. This is done through our Private Clinic, General Clinic and Community Outreach Eye Camps. We are engaged in community outreach programs to ensure we can avail eye care services to the underserved communities in the society.



Medical Director's Report 2020

The year 2020 did not turn out to be quite the year anyone predicted. COVID-19 made 2020 incredibly hard and difficult year for so many people. Living with the Covid-19 global pandemic has become our reality. New ways of working and new practices were adopted to ensure safer ways of working and things might never be quite the same again. We all had our plans for the year 2020 but God had his own plans too.

With support from our various thriving partnerships with institutions across the world; we were able to achieve some accomplishments. The support and mentorship from African Centre of Excellence in Cataract Surgical Services [ACCESS] program is ongoing. We continued with our unique Long Term Comprehensive Ophthalmology Fellowship which saw Dr. Leopold Niyonsavye complete his one-year fellowship program. This fellowship attracts newly or recently qualified ophthalmologists and is done in collaboration with the Aravind Eye Hospitals in India. From the University of Nairobi, we also received one student who underwent elective ophthalmology training. We also offered clinical placement to ten [10] students from the Kenya Medical Training College in Ophthalmic nursing and Optometry.

The number of patients we served in our hospital took a dip this year; our outpatient department saw 12,088 patients, compared to 31,914 in 2019. The major reason for the great reduction is the fact that we did not do any outreach clinics during the Covid-19 pandemic period. We performed 764 surgeries down from 2,224 in the previous year. The total number of spectacles dispensed went down to 2,493, compared to 3,669 in 2019.

I am humbled this year to have received the Vision Excellence Award 2020 from The International Agency for the Prevention of Blindness [IAPB] for our dedication towards achieving the goals and aspiration of Vision 2020, the Right to Sight global initiative.

We can only hope for a better 2021. This is the year that will usher in a new decade (2021 /2030), a decade that marks the beginning of a new era and we hope to attain our goals and objectives at Innovation Eye Centre.

Dr. Dan Kiage

*Senior Consultant Ophthalmologist
Glaucoma Specialist
CEO/Medical Director
Innovation Eye Centre*



INNOVATION EYE CENTRE - KISII EYE HOSPITAL

The Impact Of COVID-19 Pandemic on Eye Care Services and the Vision 2020 Right to Sight Initiative



The impact of the covid-19 pandemic saw a decline in eye care services in the year 2020. The International eye care community was to celebrate Vision 2020 and “The VISION 2020 Right to Sight global initiative” as the milestone of achieving the goals set of eliminating avoidable blindness by the year 2020. The effects of Covid-19 are yet to be fully determined at a global level.

At the organizational level at Kisii Eye Hospital, we experienced the impact of covid 19 as eye care services were disrupted with the government regulations such lock downs, curfews and

most patients stayed at home except for emergency cases thus recording a decline in eye services at the eye hospital.

Vulnerable patients and underserved communities were mostly affected as it was not possible to carry out community outreach programmes in large crowds to avoid the spread of the Covid 19 virus.

As an organization we will require new strategies and solutions to recover from the effect of Covid 19 in order to provide eye care services especially to the underserved and low socio economic communities.

The Vision Excellence Award 2020

The Vision Excellence Awards for the year 2020 were issued to individuals whose contribution to advocacy, innovation, program implementation, institution-building and disease control were at the heart of Vision 2020's success. These awards were issued by The International Agency for the Prevention of Blindness in line with the Vision 2020 Right to Sight Initiative.

Dr. Dan Kiage received the Vision Excellence Award 2020 from the International Agency for the Prevention of Blindness for his dedication towards elimination of preventable blindness and continuous selfless service to all.

Dr. Kiage continues to inspire us with his dedication and hard work. Since he founded Kisii Eye Hospital seven years ago, Dr. Kiage and his team at the Kisii

Eye Hospital have treated thousands of patients with visual disabilities.

<https://www.iapb.org/connect/members/vision-excellence-awards/vision-excellence-awards-daniel-kiage/>



PROGRAMMES AND PROJECTS

Training

Comprehensive Ophthalmology Elective Training Program

Dr. Leopold Nyonsavye completed a two-year fellowship in Comprehensive Ophthalmology at Kisii Eye Hospital and learned how to perform state of the art cataract phaco surgery as well as improving skills on Small Incision Cataract Surgery, glaucoma and corneal procedures. The program targets newly-trained ophthalmologists in Africa who wish to polish their diagnostic and surgical skills.



Dr. Dan Kiage presenting Dr. Leopold Nyonsavye his certificate

University Of Nairobi Elective Residency Ophthalmology Electives

In the year 2020; Dr. Erick Mbugua a resident from the University of Nairobi undertook a two-month elective residency ophthalmology training at Kisii Eye Hospital



Dr. Erick Mbugua (left) Resident Ophthalmology UON with Optometry Intern Mr. Kuchio (right) at Kisii Eye Hospital

Kenya Medical Training College Clinical Placement

Higher Diploma in Ophthalmic Clinical Officer and Cataract Surgeon [OCO/CS] Training Program Clinical Placement:

OCO/CS Victor Kutto completed his ophthalmology and cataract surgery training Clinical Placement in Kisii Eye Hospital



OCO/CS Kutto examining a patient in an Outreach Medical Camp

Higher Diploma Ophthalmic Nursing Training Program Clinical Placement:

From the month of January 2020, four [4] trainee ophthalmic nursing students undertook a three – month clinic placement with us. In October the same year, three [3] more trainee ophthalmic nursing students joined us to undertake clinical placement in the same field.

During their training; they successfully enhanced their skills in eye exam, ocular drug administration, theatre techniques.

The ophthalmic nurses trainees included: Mr. Said Aden, Sister Martha Kamau, Ms. Lucy Samoei, Sister Juliana Langat and Mr. David Ogera, Mr. Henry Kanyi Kirinya, Mr. John Karanja and Mr. Elijah Mpekethu.



Trainee ophthalmic nurses with their tutor Mrs. Catherine Mwaura from KMTC-Nairobi



From left; Mr. Mochere Head of Optical Department, and the optometry interns Ms. Asande and Mr. Kuchio at Kisii Eye Hospital

Diploma in Optometry Training Program Clinical Placement:

Kisii Eye Hospital also offered a four- month Clinical placement to two optometry interns from Kenya Medical Training Centre – Nairobi. Their training included refraction, retinoscopy, slit lamp, ocular disorders management, tonometry, visual field, funduscopy and Biometry.

The students were; Miss Carolyn Asande and Mr. Matthew Kwenia Kuchio.

Staff Training

Kisii Eye Hospital staff underwent two-day training on Occupational Health and Safety. The following topics were covered during the training; Causes and prevention of occupational accidents, personal protective equipment and Workplace Health Hazards among others.



Kisii Eye Hospital Staff during the training



Kisii Eye Hospital Staff after a training session.

PROJECTS AND PROGRAMMES

Access (African Centre of Excellence in Cataract Surgical Services) Project: Phase II Year 3

The ACCESS Project focuses on quality, efficiency and reaching the poor. We appreciate the support and mentorship from the programme.

Research And Visits

Dr. Joseph Licht from Emory University conducted a research program on long term clinical outcomes of cataract surgery with Kisii Eye Hospital. This was in collaboration with the ACCESS programme.



Dr. Licht examining a patient during his visit to the Hospital



From Left; Dr. Rubagaze, OCO Kutto, Dr. Licht, Dr. Niyonsavye, OCO Makamara and Mr. Kerima; during Dr. Licht's visit to the hospital.

MBA Students University of Michigan

In March 2020, we got a visit from four [4] MBA students from the University of Michigan. Their purpose was to gather information necessary to write an investment proposal for expansion and infrastructure development for Kisii Eye Hospital. This research was organized by Professor Paul Clyde of University of Michigan - Ross School of Business.



From Left to Right: Joel Matara, Warren Tanapol, Alex Plavner, Dan Kiage, Avonlea Rickerson, Mathew Jirsa, Jacqueline Kiage and Arch Asati Makori

Telemedicine

Kisii Eye Hospital is now offering telemedicine services as a pilot project. This approach has become an important part of taking care of patients especially during this Covid-19 period.

Website: <http://innovationeyecentre.co.ke/>

Telemedicine

See an Ophthalmologist from the comfort of your home or office.

How does it work?

- Book an Appointment by clicking on the book appointment button below.
- Upon booking an appointment you will be redirected to our doctors page in order to start a video conference
- Note: If connection is denied, kindly disconnect and try connecting after a few minutes.

You don't want to miss this offer Monday- Friday Only as from 2:00 - 5:00 PM

For face to face Appointments call +254727807097 / +254582031994 to make an appointment to come to the Hospital.

[Click here to Book an Appointment](#)

Outreach And Community Service

Kisii Eye Hospital has a very active community outreach programme which provides essential eye care services in the underserved and hard to reach areas to ensure thus contributing to preventing avoidable blindness and visual impairment at the community level. However, in 2020, we conducted outreach activities only in the months of January to March before such gatherings were banned due Covid 19 Pandemic.



Patients awaiting eye examination at Suguta Tea Buying Centre



OCO Makamara examining a patient at Suguta Buying Centre



Patients waiting to see a doctor at Omogenda Tea Buying Centre



Post-Surgery patients from Omogenda Tea Buying Centre Camp



Dr. Patrick Rubagaze, Dorcas Mong'are with 7 of her children all with blinding eye diseases. Their story was highlighted by The Star Newspaper and Kisii Eye Hospital invited them for examination and treatment

Eye Health Education and Awareness

Glaucoma Week: March 2020

The Glaucoma theme for the year 2020 was “B.I.G, Beat Invisible Glaucoma”. The objective was to raise awareness of the eye diseases glaucoma which is a leading cause of blindness in the world and leading cause of irreversible blindness.

At Kisii Eye Hospital, we educated our patients on glaucoma; its effects and treatment. We encouraged them to get tested especially adults above 40 years. We also provided information through fliers and noticeboards.



A patient being educated on Glaucoma by Ms. Onge'ta during World Glaucoma week

World Sight Day: October 2020

Kisii Eye Hospital collaborated with Kisii County Lions Club to commemorate World Sight Day. The 2020 theme was “Hope in Sight” We created awareness to the community by use of banners in the heart of Kisii Town; and also provided eye health information to the patients who visited the hospital. The number of patients screened that day was 86; and 15 surgeries were conducted



Kisii Eye Hospital staff during World Sight Day 2020



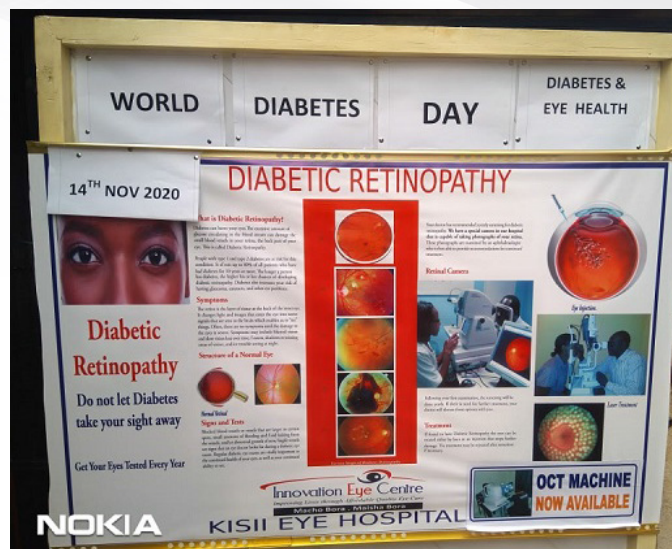
Patient registration and awareness creation



One of the banners in one of the busy roundabouts of Kisii town, Kisii County



Patients after surgery on World Sight Day



Patient Education and Awareness at the Hospital



Lion Jacqueline Nyaanga Club President Kisii County Lions Club, Lion Moffat at Kisii Eye Hospital at Kisii Eye Hospital



Dr. Kiage giving a talk on Eye Health and Diabetes at Kisii FM radio to commemorate World Diabetes Day

World Diabetes Day: November 2020

World Diabetes Day is the primary global awareness campaign focusing on diabetes mellitus and is commemorated on 14th November each year. The theme for the day was “The Nurse and Diabetes”. This campaign was aimed at raising awareness around the crucial role that nurses play in supporting people living with Diabetes.

To commemorate this day, we undertook to educate the community on diabetes and its effects on the eye. Dr. Dan Kiage also gave a talk on Kisii FM radio on eye health and diabetes. We also distributed information on diabetes and its effects on the eye to our patients and through notice boards as well.

International Day of Persons with Disability

The International Day of Persons with Disability was aimed at promoting an understanding of disability issues, support for the dignity, rights and well-being of persons with disabilities. It also sought to increase awareness of gains to be derived from the integration of persons with disabilities in every aspect of political, social, economic and cultural life. The theme for the year 2020 was “Not all Disabilities Are Visible”

Visual impairment is a disability. It (vision impairment, vision disability) is defined as a decreased ability to see to a degree that causes problems not fixable by usual means, such as glasses or medication.



KISII EYE HOSPITAL

International Day of Persons with Disability
3rd December 2020

81% of visual
 impairment could be
 avoided if diagnosed
 and treated early



Get Your Eyes Checked at the Nearest Eye Clinic

PERFORMANCE HIGHLIGHTS

Eye Care Services: Year 2013-2020

NO	PARTICULARS	2013	2014	2015	2016	2017	2018	2019	2020	Total
1	TOTAL NUMBERS OF PATIENTS TREATED	6,469	14,540	14,838	21,153	24,320	29,777	31,914	12,088	155,099
2	HOSPITAL BASED/WALK IN PATIENTS VISIT	2,265	7,834	7,218	10,492	13,945	19,688	20,017	12,088	93,547
3	COMUNITY OUTREACH PATIENTS VISIT	4,204	6,706	7,620	10,661	10,375	10,279	11,897	201	61,943
4	COMMUNITY OUTREACH EYE MOBILE CAMP	27	78	65	59	67	76	49	2	423
5	TOTAL NUMBER OF CATARACT SURGERIES	404	695	1,003	1,527	1,672	2,356	2,224	764	10,645
6	TOTAL NUMBERS OF OTHER SURGERIES	34	201	274	336	512	637	742	651	3,387
7	TOTAL NUMBERS OF REFRACTIONS	-	3,459	3,288	4,609	3,753	6,177	6,270	3,669	31,225
8	GLASSES DISPENSED	863	2,274	2,340	3,710	2,666	4,151	3,789	2,493	22,286

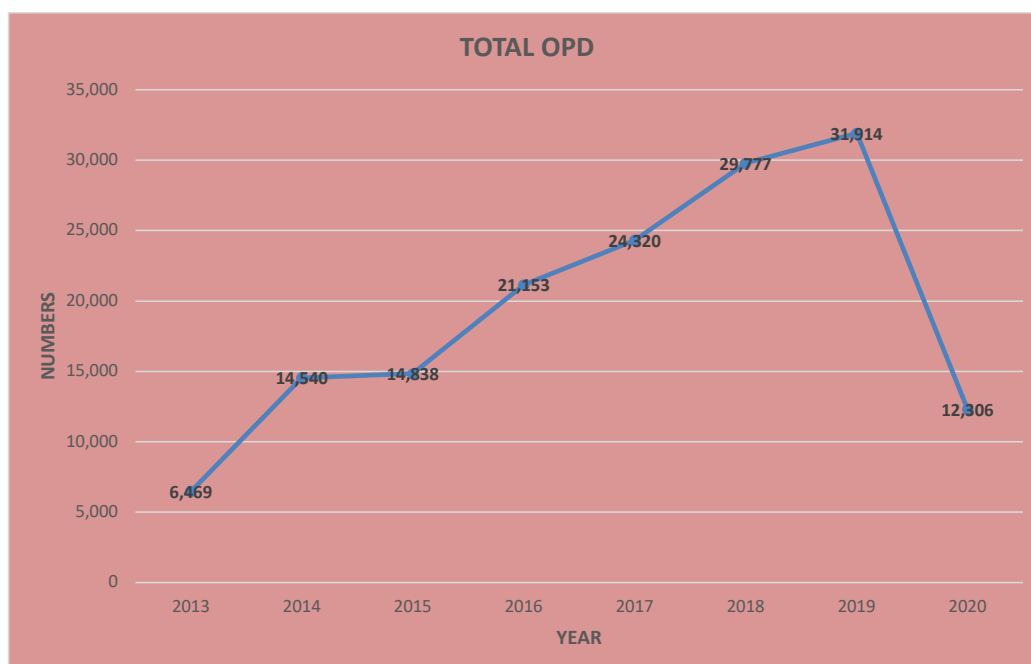
Area-Wise OPD Walk-In Year 2020

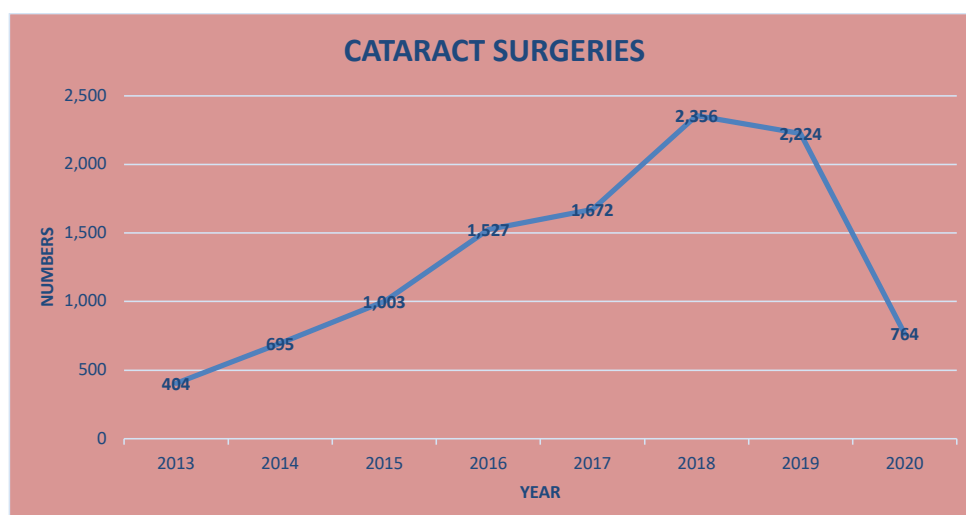
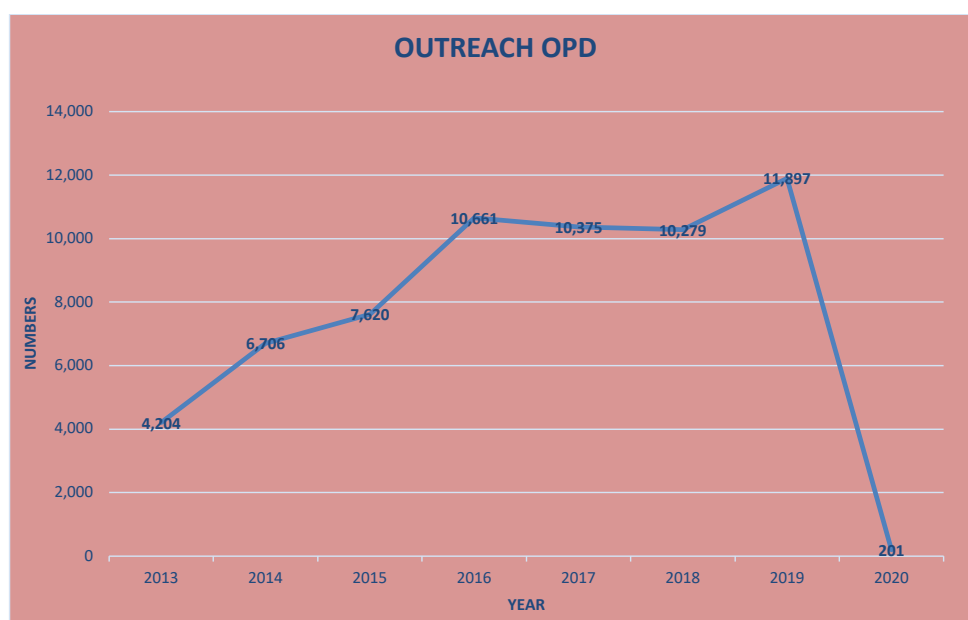
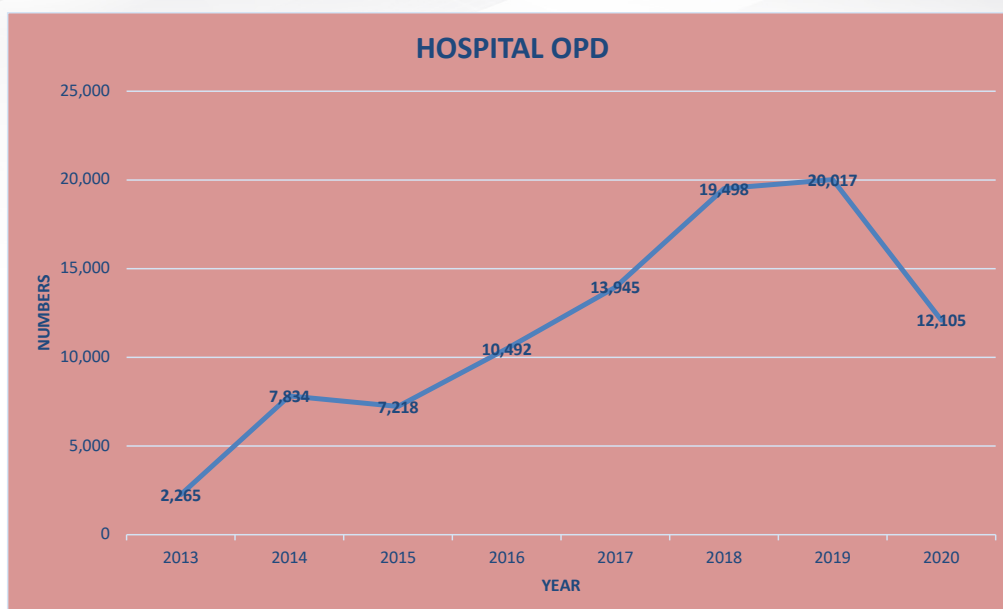
	COUNTY	NUMBERS	%
1	KISII	7,837	64.8%
2	NYAMIRA	2,386	19.7%
3	HOMABAY	600	5.0%
4	MIGORI	410	3.4%
5	NAROK	334	2.8%
6	KISUMU	102	0.8%
7	NAKURU	87	0.7%
8	NAIROBI	72	0.6%
9	KERICHO	60	0.5%
10	UASIN GISHU	47	0.4%
11	KAKAMEGA	37	0.3%
12	SIAYA	25	0.2%
13	BUSIA	22	0.2%
14	MACHAKOS	17	0.1%
15	NANDI	15	0.1%
16	BUNGOMA	11	0.1%
17	OTHERS	26	0.21%

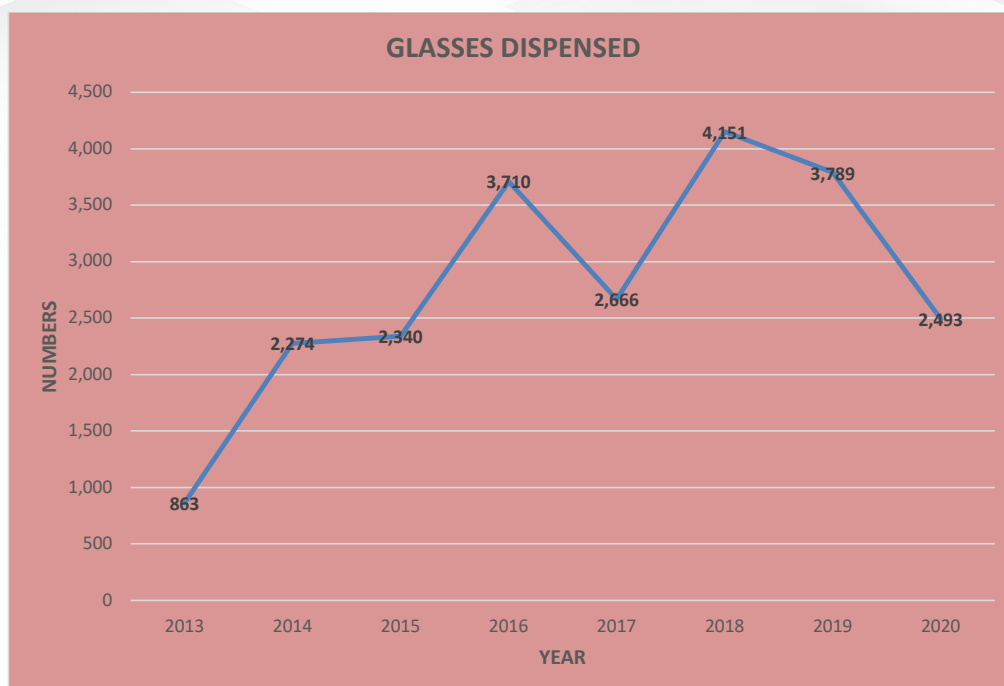
Comparison of Paying, Subsidy and Camp Cataract Surgeries Year 2013 -2020

	2013	2014	2015	2016	2017	2018	2019	2020	Total
Private CATARACT	125	241	197	176	178	205	136	508	1,866
SUBSIDY CATARACT	-	160	173	272	406	785	874	243	2,913
CAMP CATARACT	276	294	633	1,079	1,088	1,366	1,221	13	5,970
TOTAL CATARACT SURGERIES	404	695	1003	1527	1672	2356	2,224	764	10,740
Percentage of Outreach Cataract Surgeries	69%	42%	63%	70%	65%	58%	55%	1.70%	60%
% Hospital Cataract Surgeries	31%	58%	37%	30%	35%	42%	45%	98.3%	40%

Due to the effects of the Covid-19 pandemic there was a decline in the number of surgeries and patients treated such shown in the graphs below.







Collaborating Partners & Programs 2020

	PARTNERS	PROGRAM/ SERVICE
1.	Fiat Lux Foundation, USA	Mentorship
2.	University Of Nairobi	Department of Ophthalmology, Elective Term Program for Residency Doctors
3.	Kenya Medical Training College- Nairobi	Training and clinical placement
4.	Dana Centre for Preventive Ophthalmology, Johns Hopkins University, USA	ACCESS Program - Clinical Quality Assurance, Cataract Surgery Quality Assurance
5.	LAICO/Aravind Eye Care System	ACCESS Program - Hospital Management Systems - Clinical and Non Clinical Hospital Process and Systems Development
6.	Kisii County Lions Club	Eye Health Awareness Creation – World Sight Day 2020
7.	Good Gifts	Poor Patients fund
8.	University of Michigan – Ross School of Business	Education, Research and Business Development



Our Contacts

Location: Kisii Town- Behind Kisii Primary School, Nyanchwa Area

Postal Address: P.O.Box 1010 - 40200 Kisii

Telephone: +254 58 20 31994, +254 727 807097

info@innovationeyecentre.co.ke

www.innovationeyecentre.co.ke