ANNUAL REPORT 2016



Belize Council for the Visually Impaired



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The Belize Council for the Visually Impaired's vision is of a Belize where no one is needlessly blind and those who are irrevocably blind are integrated as equal members in all aspects of society.

The Belize Council for the Visually Impaired is a non-profit organisation committed, through a comprehensive programme, to prevent and cure blindness, restore sight and to rehabilitate and educate people who are blind to enable them to use their talents and abilities to live independent lives.

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A MESSAGE FROM THE EXECUTIVE PRESIDENT

Working with BCVI over the past 30 years it has never ceased to amaze me the diversity of activities in which I have been involved. 2016 will stand out as the year where we had to defend our status as a Non-Governmental Organisation (NGO) as the NGO community had the privilege of nominating a senator. Of the I43 NGOs registered under the NGO Act only 29 could prove they are in "Good Standing" and therefore eligible to vote for a representative. We were proud to have nominated Mr Donovan Reneau our Vice President, as a senator, who although not successful in his bid represented us well by highlighting the ability of a person who is blind to lead a fulfilling and independent life.

Although more than 29 NGOs may be operating, this is many fewer than 30 years ago when it was a vibrant, dynamic NGO community committed to improving the lives of Belizeans. This can be attributed partly to the difficulty in operating in a country with a small population where donors are few. The lack of

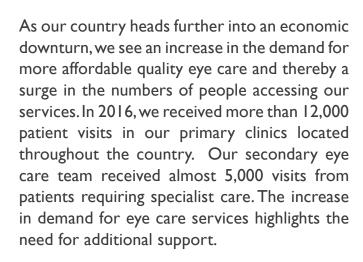
international support for the region and the shift in emphasis from the traditional charitable causes to environmental preservation has also had an impact on the ability of NGOs to survive. The reduction of active NGOs is certainly not due to all people having their rights protected and their needs met but perhaps more to the difficulty in operating in a situation where administrative requirements are increasing and competent staff are needed to keep up with the paperwork. 30 years ago it would have been inconceivable that an NGO would have to charge its patients a tax on a pair of glasses that is produced and sold at low cost.

This situation makes us even more grateful to all our volunteers, staff and supporters who have made it possible not only to keep our doors open, but to grow and develop into an organisation that is valued and respected for the service it provides.

g.M. Musa

Joan Musa | Executive President

A MESSAGE FROM THE EXECUTIVE DIRECTOR



The World Health Organization (WHO) estimates 30 Optometrists and 10 Ophthalmologists are needed to serve the population of Belize. We are fortunate to have three local optometrists currently with BCVI and one clinical ophthalmologist; however, we are nowhere near the WHO standards. Scholarships are needed in order to train qualified Belizeans in Optometry and Ophthalmology. In the short term, we rely on optometrists through visiting groups, the Cuban Mission and volunteer surgical Ophthalmologists from the US and Europe.

In 2016, with support from the Ministry of Health (MOH) and the Pan American Health Organization (PAHO), we finalized the National Eye Health Strategic Framework (NEHSF) 2015 – 2020. A national consultation with key partners and stakeholders resulted in the identification of four major areas of need: strengthening of human resources, increased financial support, increase of strategies to ensure referrals of eye health problems and a strengthened integration of eye health data. As we move into 2017, we will stress these issues with the MOH as we prepare to re-evaluate and sign our Memorandum of Understanding (MOU) for the next 10 years.

Thanks to visionary leadership, dedicated team members and continued support nationally and internationally, BCVI has just celebrated 35 strong years of service. We look forward to our continued partnerships and to the future development of BCVI as we work toward the reduction of avoidable blindness and to help those who are blind live independently.

camuse.

Carla Ayres Musa | Executive Director

INTRODUCTION

Non-profit organization, The Belize Council for the Visually Impaired (BCVI) was founded in 1981 and initially provided primarily Rehabilitation services to those who were blind or visually impaired. BCVI has more than 35 years of experience serving the people of Belize. We currently operate with a staff of 34 at a budget of approximately US\$600,000 annually. The gradual increase in the range of services offered demonstrates BCVI's success in reaching out to the community on both a local and national level.

Over the years BCVI has expanded its services to include prevention and treatment of blindness for the five leading causes in Belize: Cataract, Glaucoma, Diabetic Retinopathy, Childhood Blindness and Refractive Error. Early identification of an eye problem is essential for a successful outcome that will result in a full, productive and independent life. Whether it is to provide treatment, a pair of glasses or for those who are blind, provide early stimulation, the earlier the problem is identified, the greater the benefit for an improved life.

The entry point to our services and first level of care is through the five Primary Eye Care Clinics strategically located around the country. Here an optometrist performs a thorough eye examination including refraction to check if the vision will improve with glasses. Assisted by an ophthalmic assistant, the patient can select from a variety of frames, many at below cost prices. Our aim is to ensure that all those needing glasses receive them at a cost they can easily afford. The glasses are made up individually at BCVI's optical lab located in Belize City and are sent back to the appropriate clinic thereby reducing expense and inconvenience to patients.

People needing further attention are referred for an examination at the Secondary Eye Clinic situated in the Lion's Building in Belize City which serves the entire country. We continue to target the three leading causes of blindness in Belize and with the help of the dedicated staff and volunteers we are reducing the loss of vision due to cataracts, glaucoma and diabetic retinopathy.

BCVI's rehabilitation services focus on improving the lives of anyone who is blind or has a significant loss of vision. The services provided are sensitive to the specific needs of each child, man and woman at their present stage of life. BCVI is the only organization of its kind in Belize, providing primary, secondary and tertiary level eye care as well as educational and rehabilitative support to children and adults who are blind or visually impaired.

We know that the people who most require our services live in isolated villages and cannot afford to travel to the doctor, much less pay high prices for private services. Through this report we invite you to see how BCVI is able to make a difference in the lives of people who have an eye problem.









BANKERS

Belize Bank Ltd. Felix Reyes
Albert & Regent Streets Chartered A
Belize City 5760 Meigh

HEADQUARTERS

National Eye Clinic/Lions' Building
Princess Margaret Drive
Belize City

ACCOUNTANTS

Felix Reyes
Chartered Accountant
5760 Meighan Avenue
Belize City

BCVI FOUNDATION

Thomas J. Angell
Jacobs, Burns, Orlove & Hernandez
150 North Michigan Avenue, Suite 1000
Chicago, IL 60601 Illinois 60603-6145 USA

BCVI is a Company Limited by Guarantee and is Registered as a Non-Government Organization Certificate No. 12/02

The BCVI Foundation is a 501(c) 3 not-forprofit organization in the USA. US donations can

be sent to the BCVI Foundation address above.

STAFF AND BOARD MEMBERS



EXECUTIVE BOARD

WILLIAM FONSECA

Honorary President

EXECUTIVE PRESIDENT

Joan Musa

DONOVAN RENEAU

Vice President

MILAGRO GAREL

Secretary

DOLORES BALDERAMOS GARCIA

Legal Advisor

SHEENA CASTILLO

Treasurer

ALICE RIVEROLL

Executive Member

KAMELA PALMA

Executive Member

GINA FONSECA

Executive Member

BOARD MEMBERS

SHARON POLLACK JOSEPH GAREL JOSE ENCALADA LEONIDES CUELLAR

ADMINISTRATION

Carla Ayres Musa - Executive Director

Leolyn Garcia - Programme Director

Mark Mitchell - Diabetic Retinopathy Programme

Manager & IT Officer

Carmencita Cruz - Finance Officer

Andrea Haylock - Administrative Officer

Clifton Borland - Equipment Maintenance Officer

Elihugh Pitts - Driver/Messenger

Kenton Blanco - Driver/Messenger

PRIMARY EYE CARE

Jackie Graham Hemsley - Primary Eye Care Manager

Rita Witzil - Optometrist, Orange Walk & Corozal

Elvia Bonilla - Optometrist, Belize City

Omar Ceballos - Optometrist, (part-time)

Arisel Mosqueda - Optometrist, South

Oscar Hoare - Ophthalmic Assistant, Belize City

Peggy Ann Gongora - Ophthalmic Assistant, Belize City

Elia Slusher - Ophthalmic Assistant, Orange Walk

Thomas Nunez - Ophthalmic Assistant, Stann Creek

Brittney Sheppard - Ophthalmic Assistant, Cayo

Randolph Williams - Ophthalmic Assistant/Camera

Operator, Toledo

STAFF AND BOARD MEMBERS







DIABETIC RETINOPATHY SCREENING

Magali Sabido

Camera Operator, Orange Walk

Anna Salam

Camera Operator, Stann Creek

Lysette Pren

Camera Operator, Belize City

SECONDARY EYE CARE

Dr. Baxter McLendon

Ophthalmologist (part time)

Dr. Zoraida Perez Diaz

Medical Ophthalmologist (full time)

Caroline Usher

Staff Nurse

Joshaun Stanford

Practical Nurse

Stacy Cadle

Practical Nurse

Sagri Rodriguez

Administrative Officer

EYE GLASS PRODUCTION LABORATORY

Shakeel Flowers

Optical Technician

Alwayne Cherrington

Optical Technician

Rudy Cocum

Optical Technician

Francois Chocolaad

Optical Technicial

Samira Escalante

Lab Administrative Officer

REHABILITATION

Liza Williams Zelaya

Senior Rehabilitation Officer,

Belize & Northern Districts

Elvia Sierra

Rehabilitation Officer, Cayo & Southern Districts

Victor Chan

Rehabilitation Programme Assistant

Norma Rios

Rehabilitation Programme Assistant

Sagrario Clarke

Itinerant Teacher, Northern Districts

THE BELIZE

COUNCIL FOR THE VISUALLY IMPAIRED

PROGRAMME DEVELOPMENT & **HIGHLIGHTS OF 2016**

project is the World Sight Foundation who led a National Consultation for Belize's National to grow and develop.

Angell and Dr. Paul Anthony who set up the BCVI Foundation in the USA over 20 years ago. They have been voluntarily administering this foundation and BCVI has seen an increase in the use of the Foundation and the usefulness of it in our international fund raising. We are very grateful for their work and in March 2016 appreciated a visit of Dr. Anthony, Treasurer of the Foundation, when we discussed the potential growth of the Foundation in the future.

Thanks to support from the Ministry of Health and the Cuban Brigade we welcomed Optometrist Arisel Mosqueda to our Punta

The sustainability of the organization is always We are grateful for the continued cooperation to be taken into consideration as we continue with the Ministry of Health and hope to see a to develop. We are relying less on grants from further increase in national attention to eye health external resources and these are limited to as CEO in the Ministry of Health, Dr. Ramon special projects. Presently the Queen Elizabeth Figueroa has officially endorsed the National Eye Diamond Jubilee Trust is assisting with a project Health Strategic Framework. This document was for the screening and treatment of Diabetic finalized in April, after a visit from the Regional Retinopathy. Also contributing to this important Representative of PAHO Dr. Juan Carlos Silva have provided training opportunities. Our Eye Health Strategic Framework. Organized by main income comes from our fees for services the Ministry of Health with support from BCVI and sale of glasses. We also get a small regular and PAHO, participants included partners and grant from the Ministry of Health and payments stakeholders in the provision of eye care across for services provided to the National Health the country. The Framework stresses the need Insurance. All of these income sources add to for increased support in eye health services our ability to not only continue our services but from the Ministry with a focus on increased human and financial resources. It stresses the importance of data collection and monitoring BCVI is fortunate for the foresight of Thomas and evaluation which BCVI does through the Belize Health Information System (BHIS).



Gorda Clinic in February for a two-year period. BCVI's Optical Lab is essential in providing Arisel is also providing coverage in Dangriga. an invaluable service for our patients to get The Ministry of Health continues to provide two the best vision possible. It is also a primary nurses at our Secondary Eye Care Clinic. Nurse source of income and is what has helped keep Caroline Usher continues to be an invaluable our organization sustainable over the years. support in keeping the clinic and operating Unfortunately, over the past two years we theatre running smoothly and efficiently with have had many staff changes and in 2016 we the assistance of a practical nurse, on rotation. were saddened by the tragic loss of BCVI's

PROGRAMME DEVELOPMENT & **HIGHLIGHTS OF 2016**

Optical Technician Alwayne Cherrington. We Protocol to be shared with the Ministry of have updated the procedures and former Lab Health. Technician Shakeel Flowers has taken on the role of Lab Administrative Officer with training The Rehabilitation and Education Programme Maintenance Officer.

Since returning from her studies towards a Programme. Masters Degree in Public Health in the UK, Programme Director/Optometrist Lyn Garcia has concentrated on improving the Primary Eye Care System. With Lyn's training input with the OAs and Optometrists, training and guidance with the Lab Technicians, and reinforcing a patient-centered approach and open communication lines, we hope to see an improvement in the quality of glasses being produced. She will in the future be looking at the referral system for our entire service delivery to ensure that patients receive all the benefits of our care.

Green a volunteer ophthalmologist from Adventures of Rowan Garel, which chronicles the UK who visited for three months during his journeys to raise funds for BCVI. Yasser which she provided training in triaging and Musa of the Image Factory Art Foundation referrals for the Belize City Optometrist and led the project with writers Katie Usher and Ophthalmic Assistants across the country. Dr Gia Martinez and Illustrator Marvin Vernon. improved the referrals from Primary Eye Care family, friends and fans as Rowan spoke about in the screening of the babies in the NICU at Mary's School read portions of the book for

from our IT Officer, Mark Mitchell, Admin has been strained over the past few years Officer Andrea Haylock to establish an efficient with only two Regional Field Officers (RFOs) support system for producing glasses including providing services to people who are blind or an accurate inventory system. To replace visually impaired. To assist with the large number Alwayne and Shakeel we hired Rudy Cocum, of students in the North, we hired Mrs. Sagrario an experienced Lab Technician who is training Clarke as a part-time Itinerant Teacher to a second technician Francois Chocolaad along support students in Orange Walk and Corozal. with guidance from our former Lab Technician, We are grateful to our Rehabilitation Team and Clifton Borland who is now our Equipment the Book Production Unit that have kept up with the scanning and editing of school books and assignments for our Inclusive Education



Rowan and The Image Factory Foundation Team

BCVI was honoured to be a part of the launch Training in referral was started by Dr. Elspeth of the children's book Climb Walk Dive: Green's time spent evaluating the system has The book was unveiled to a packed room of to Secondary Eye Care. Dr. Green also assisted his amazing experiences. Students from St the KHMH for which she has also created a the audience. This was Rowan's last activity with

PROGRAMME DEVELOPMENT & **HIGHLIGHTS OF 2016**

BCVI before he left for University in the USA in Club, Belize Diabetes Association, Nurses and early June. We could not be more happy for and Midwives Council, the Government's Health proud of Rowan. The printing of the first edition Education and Community Participation of the book was sponsored by SAGE a UK Bureau (HECOPAB), The Pan American Health publishing company as part of their cooperate Organization (PAHO) and the National Health responsibility.

who visited BCVI to tour the National Diabetic Retinopathy Programme being funded by The Trust. Later that month, Rita Witzil attended a With support from Anthony Chignell and World since assessed the Belize programme which is in Belize City. successfully meeting its objectives.



the Ministry of Health, BCVI, Belize Lions Jubilee Trust in Jamaica. The meeting brought

Insurance (NHI). The purpose of the MAC is to provide guidance and insight for the national Much time has been spent on our Diabetic Diabetic Screening and Treatment Programme. Retinopathy Programme and in June, we were BCVI also attended the Virtual Meeting of the happy to welcome Dr. Astrid Bonfield, CEO of Regional Coordinating Committee (RCC) with The Queen Elizabeth Diamond Jubilee Trust members of other countries involved in the Trust's regional programme.

training session led by Sightsavers on the use Sight Foundation, BCVI's Ophthalmologist Dr. of the Quality Standards Assessment Tool. The Zoraida Diaz visited the UK for Programme QSAT is to be used in the assessment of the Development in the area of Diabetic Retinopathy. National Diabetic Retinopathy Programme. The Dr. Diaz was hosted by Dr. Teresa Sandinha and session was held in Dominica in June in order Dr. Michael Eckstein in their respective eye to prepare the countries being funded by The hospitals. The visit was extremely helpful for Dr. Queen Elizabeth Diamond Jubilee Trust. Rita has Diaz who is the head of the National Eye Clinic

> In September, The Lions Club of Belize and the Lions Club International Foundation invited BCVIs Executive Director Carla Ayres Musa to represent the country in Geneva, Switzerland at the World Health Organization's (WHO) Diabetic Retinopathy (DR) Conference. Alongside other organizations and groups working to reduce avoidable blindness due to DR, Mrs. Ayres-Musa presented on Belize's National Diabetic Retinopathy Programme and its successes and challenges.

In November, Diabetic Retinopathy Programme As part of the Queen Elizabeth Diamond Manager Mark Mitchell along with Ministry of Jubilee Trust Project, we held two Management Health's designated focal person for DR, Donovan Advisory Committee (MAC) Meetings. The Cacho, attended the Regional Committee group is comprised of representatives from Meeting for the Queen Elizabeth Diamond

PROGRAMME DEVELOPMENT & **HIGHLIGHTS OF 2016**



all countries in the region receiving support from the Trust for the Regional DR Programme together. Reports were given on each country's successes, challenges and future plans. Belize's programme is leading the way with regards to patient numbers and programme development and with the planned Public Education Campaign in 2017 we hope to increase the numbers of patients benefiting from this service.

- Networking continued through other incountry meetings and conferences:
- Programme Director Lyn Garcia presented at the Ministry of Health Zika Conference to inform physicians of the services available at BCVI.
- Executive Director, Carla Ayres Musa, attended a meeting with Regional PAHO Representative on Disabilities to discuss the needs within the Rehabilitation Programme. She also attended three-day workshop conducted by PAHO and the Ministry of Health during which several priority areas were identified in the hopes of increasing support from PAHO as part of their country cooperation agreement. BCVI was included in the discussions and pointed to the need for increased funding, roll out of NHI and implementation of plans and procedures at the government level.
- BCVI partnered with the Belize Diabetes

Association in November to highlight the importance of Eye Health for people living with Diabetes. DR Screener Lysette Pren and Carla Ayres Musa took part in Diabetes Awareness Walks in Belize City and Belmopan. The theme was Eyes on Diabetes and the walks were registered with Global Diabetes Foundation.

- · World Health Day focused on Diabetes and BCVI was happy to take part in PAHO's forum during which client Javier Roberts spoke about being diagnosed with blindness due to Diabetic Retinopathy. His story is an inspiration and lesson for others to get their eyes tested annually and follow up with treatment if necessary.
- We were happy to welcome Orange Walk Mayor Kevin Bernard who toured the DR Programme in Orange Walk along with the local media to endorse the programme and encourage all citizens to access the service.



in Orange Walk

PRIMARY EYE CARE 2016



Of the total 12,332 examined: Children *** 2,469 Adults *** 111111 9,863 Female *** 7,586 Male *** 1 1 1 1 4,746

ORANGE WALK - COROZAL AND SAN PEDRO

Clinics 229
People Examined 3285
Prescription Glasses 903 **Total Population 98,774**

BELIZE

Clinics 236
People Examined 4857
Prescription Glasses 2051
Total Population 83,524

STANN CREEK

Clinics 120
People Examined 2045
Prescription Glasses 487

Total Population 34,324

TOLEDO

Clinics 80
People Examined 1379
Prescription Glasses 276

Total Population 30,785

CAYO

Clinics 136
People Examined 765
Prescription Glasses 286 **Total Population 75,046**

PRIMARY EYE CARE 2016

BCVI's Primary Eye Care Programme is the first entry point for all our services. We operate five Primary Eye Care Clinics strategically located around the country. At each, an optometrist performs a complete eye examination which is completely free of charge. This examination includes a refraction test to check if the vision will improve with glasses. Assisted by an ophthalmic assistant the patient can select from a variety of frames to suit their budget. The prescription lenses are made up at our optical lab and dispensed back to the patient at their local clinic.

In 2016 a total of 810 clinics were conducted and 12,332 people had eye examinations at our five Primary Eye Clinics.

Of the total 12,332 examined:

Children - 2,469 Adults - 9,863

Female - 7,486 Male - 4,746

A total of 4,003 prescription glasses were produced and an additional 438 reading glasses were dispensed. I,082 people were referred to a BCVI ophthalmologist by our optometrists for further evaluation and treatment. This examination could take place when an ophthalmologist visits their local clinic or at our main referral facility in Belize City. Working with our PEC clinic staff, three groups of visiting volunteer optometrists examined an additional 795 people in the villages.

We continue to screen school children for vision problems. Countrywide 3077 children had their visual acuity tested and 484 were referred for refraction or further evaluation.

BCVI continues to conduct outreach clinics to provide coverage for those who are not able to access our services. We have monthly clinics in San Pedro and Corozal thanks to the Lions Club and Methodist Clinic who host our Orange Walk Team.

Once a year we are fortunate to be able to team up with Dr. Kinloch Nelson and the Grace and Holy Episcopal Church from the US, to provide eye exams at various schools in the Cayo District. This year, along with Belmopan and Dangriga Ophthalmic Assistants (OAs), Brittney Sheppard and Anna Salam, the team examined more than 100 children; 5 of which were referred to the Ophthalmologist and 59 were given prescriptions. We are extremely grateful for the additional support from the group in donating the funds needed to generate the glasses for the students.

Regular annual visitors Dr. and Mrs. Lee Peplinski of His Servants Ministries, Kentucky spent a productive week in the Stann Creek District (photo below) and examined 671 people, performed 233 refractions, provided 23 prescriptions and 365 readers and referred 90 people to an ophthalmologist.



SECONDARY EYE CARE 2016



Nurse Stacey Cadle administers drops for a patient

In Belize, BCVI continues to target the five leading causes of blindness prevalent in the Caribbean thereby reducing the loss of vision due to cataract, glaucoma, childhood blindness, refractive errors, and diabetic retinopathy. BCVI provides Secondary Eye Care with ophthalmological treatment at its main referral center, situated in the Lion's Building in Belize City, and also at our district clinics.

We are very pleased to report that medical ophthalmologist Dr. Zoraida Perez-Diaz, having gained her Belizean nationality, has become a full-time member of staff. As a result, we have been able to attend to almost 1,000 more patients in 2016.

We are especially grateful to our regular ophthalmologist Dr. Baxter McLendon, for his continued support for long periods over the

past eight years. He has been putting out the word amongst his many colleagues and we have seen an increased interest from volunteer ophthalmologists who provide specialist care for all types of treatment on a short-term basis.

In 2016 there were a total of 4795 patient examinations by ophthalmologists at our main referral centre for Secondary Eye Care (SEC).A total of 135 cataract surgeries were performed at the SEC clinic and 267 laser treatments were conducted countrywide for retinal conditions such as Diabetic Retinopathy.

With the help of volunteers, National Health Insurance (NHI), the Government of Belize, Lions, the donation of supplies, and a small fee for services we are able to make this service sustainable.



SECONDARY EYE CARE 2016

VISITING SPECIALIST REPORT FOR SEC 2016

Doctors	Date	No. Seen	Cataract Surgery	Other Surgery	Laser by Patient	Laser by Eye
Teresa Sandhina	18 -22/01/2016	70	0	0	20	26
Michael Banach	12-13/02/2016	38	0	0	9	9
Dan Gold/Bill Riggs	26-27/02/2016	55	33	0	0	0
Baxter Mclendon	08-11/03/2016	63	4	8	3	3
Baxter Mclendon	18-26/05/2016	53	16	7	0	0
Inder Singal	17/03/2016	37	0	0	15	24
Inder Singal	18/08/2016	50	0	0	28	43
Michael Eckstein	16-19/05/2016	35	0	0	12	17
David Boes	31/05-02/06	63	36	0	0	0
Courtney Kraus	06/06/2016	36	3	29	0	0
Byron Deutschmann	22/07/2016	12	0	0	3	6
Chuck Beischel	02/08/2016	8	7	0	0	0
Baxter Mclendon	14/11-05/12	91	12	10	7	8
Edgar Ogaldez	02-03/12/2016	25	24	0	0	0
TOTAL		636	135	54	97	136

The table above shows the work done by the visiting specialists at the SEC. Dr. Diaz provided over 4,000 examinations and treatments in 2016.



SECONDARY EYE CARE 2016

An additional 332 patients had ophthalmological examinations at our district clinics by visiting specialists and Dr Diaz. The breakdown is given below:

Doctors	Place	Date	No. Seen	Laser by Eye	Cataract	Referred
Teresa Sandhina	Orange Walk	21/01/2016	21	6	0	16
Baxter Mclendon	Orange Walk	26/02/2016	29	2	0	15
Baxter Mclendon	Dangriga	01/03/2016	28	0	16	0
Baxter Mclendon	Dangriga	29/11/2016	20	5	0	0
Baxter Mclendon	PG	02/03/2016	I	I	0	0
Inder Singal	Orange Walk	18/03/2016	28	15	0	3
Inder Singal	Dangriga	19/03/2016	23	17	0	0
Inder Singal	Dangriga	20/08/2016	34	17	0	0
Inder Singal	PG	19/08/2016	36	4	0	2
Zoraida Diaz	Dangriga	19/05/2016	20	5	0	3
Zoraida Diaz	PG	24/08/2016	21	2	0	3
Zoraida Diaz	PG	05/09/2016	19	2	0	I
Baxter Mclendon	PG	10/11/2016	24	2	0	2
Baxter Mclendon	PG	11/11/2006	28	I	0	0
Total			332	79	16	45

CATARACT

blindness in Belize. Unfortunately, we have blindness in Belize, and people at high risk are to rely on visiting cataract surgeons and our encouraged to come in for an early assessment. numbers were slightly down in 2016 with 135 Unfortunately, the majority of patients visit our performed. In order for more people to benefit facilities when vision has been lost and cannot be from sight restoring surgery we will focus on restored. In 2016 we had 1,282 patient visits for increasing the numbers of visiting surgeons as Glaucoma at the SEC. Eye drops are the usual well as patient uptake to increase the cataract method of treatment. The ophthalmologists and surgical rate. Our cataract surgical assessment nurses stress the importance of continuous tool shows a consistent marked improvement use of drops and the monitoring of intra ocular for all our patients.

GLAUCOMA

Cataract continues to be the leading cause of Glaucoma is the leading cause of irreversible pressure and visual fields. Laser treatment has also been provided to those who need it.

SECONDARY EYE CARE 2016

CHILDHOOD BLINDNESS

We have made great progress in our efforts to reduce blindness due to Retinopathy of Prematurity (ROP). KHMH's newly-appointed Blindness due to Diabetic Retinopathy is the Neonatologist Dr. Elsie Constanza visited BCVI third leading cause of blindness in the country. in January where it was agreed that BCVI's However, with the increase in numbers of people Ophthalmologist Dr. Zoraida Perez-Diaz would with undiagnosed and uncontrolled diabetes, we visit the Neonatal Intensive Care Unit (NICU) are seeing more people at a younger age who once a week to examine premature babies are losing their vision. meeting the at risk criteria for ROP. This system has proven very effective at diagnosing and In response to this, at the start of 2014 we put monitoring babies with ROP, and will also allow for ease of follow-up by BCVI once the baby has Screening & Treatment Project" which was been discharged. In 2016, 42 babies, at risk of ROP, were examined at the NICU and of those 3 were referred for follow up as out-patients.

Other conditions such as cataract, strabismus and ptosis were treated by Dr Courtney Kraus and the World Paediatric Project Team who



examined a total of 85 children and conducted 32 surgeries.

DIABETIC RETINOPATHY

into action our "National Diabetic Retinopathy partially funded by the Lions Club International Foundation's (LCIF) Sight First Program through a partnership with the Belize City Lions Club. This project has been completed and further developed with support from The Queen Elizabeth Diamond Jubilee Trust.

Retinologist Dr. Mike Eckstein visited from the UK to provide further training for Dr. Zory Perez Diaz in the provision of laser treatment. Dr. Diaz is now able to provide laser treatment for diabetic retinopathy as well as Yag laser for cataract patients. Dr. Eckstein also visited the babies in the NICU at the KHMH alongside Dr Diaz to offer additional training and advice.

DR SCREENER LYSETTE PREN RECEIVES OCT TRAINING FROM DR MIKE **ECKSTEIN**

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SECONDARY EYE CARE 2016



provision of laser treatments. BCVI's Diabetic treated nearer to their homes. Retinopathy Programme Staff gathered in Belize City for training in grading images taken with the fundus cameras at BCVI's clinics throughout the country.

This project has been developing and strengthening and our 4 screeners are now competent in the use of the camera and are learning to grade images with training from Dr. Baxter McLendon, Dr. Diaz and BCVI's Optometrists. IT Officer and DR Programme Manager Mark Mitchell continues to visit each

DR SANDINHA WORKS ALONGSIDE DR DIAZ TREATING RETINAL **PATIENTS**

main screening center to provide additional support when needed.

2016 was the second full year of our National DR Screening Programme and a total of 1,857 were screened countrywide with the cameras and through dilated examinations conducted by our optometrists. Of these, 1,065 had minimal changes or normal retinal images and will continue to have annual checks to ensure retinopathy does not develop. Patients with Through BCVI's partnership with the World Sight significant retinal changes receive laser treatment Foundation, we welcomed Dr. Teresa Sandinha, as early as possible to maintain maximum sight. Retinal Specialist from the UK in January. Dr. From the total screened 131 were referred to Sandinha provided continued training for BCVI an Ophthalmologist or Retinologist. For the year, Ophthalmologist Dr. Zoraida Perez Diaz in the 267 laser treatments were performed, some of use of our Optical Coherence Tomography which were provided at our district clinics using (OCT) Machine as well as training in the our portable laser which enables patients to be



VISITORS AND VOLUNTEERS

Dr. Teresa Sandinha - Retinologist from the UK visited BCVI in January to conduct training in laser treatment with Dra Diaz. Dr. Sandinha also provided training in the use of the OCT machine as well as training in grading for camera operators.

Adrian Tatarakis - President of Help the World See - a long-time partner of BCVI visited from January 24th-26th, and provided training for the staff at BCVI's Glasses Production Unit. Adrian visited once again in November to provide further training and assessment of the setup and administration of the Lab.

VSOP EyeNetra - representative Nikki Thomas and Optometrist Mathew Alpert did pilot clinics in Orange Walk and Belmopan to test the EyeNetra device. Patients visiting the clinic and some staff were tested on the device.

John Weymouth CEO of MEDISURG. USA and Medical equipment expert - visited Feb 6-10 and did an extensive training with Clifton Borland maintenance and repairs of our medical, surgical equipment, at the Belize City and district clinics.

Dr. Michael Banach, Retinologist - visited from February 12th -13th at the SEC in Belize City to examine patients and provide laser treatment.

Jennifer Coy, a low vision therapist from Lighthouse for the Blind in Missouri, USA visited our Rehabilitation and Education Programme from February 22nd -23rd to provide advice and assessments for students with low vision. Jennifer also donated low vision devices for some of our clients.

Dr. Dan Gold and Dr. Bill Riggs, **Ophthalmologists -** visited from February 25th -28th and did surgeries on patients that were referred form our PEC and district clinics.

Dr. Baxter Mclendon returned from **February 29th -** March 2nd to see patients at our Secondary Eye Clinic as well as patients needing ophthalmological visits at BCVI's clinics throughout the country. Dr. Mclendon examined many patients and provided cataract surgery and laser treatment. He also worked with us for the entire month of November.



DR DAN GOLD OPERATES ON PATIENTS AT BCVI'S NATIONAL EYE CLINIC

VISITORS AND VOLUNTEERS



Dr. Edgar Ogaldez, Cataract surgeon -

visited BCVI from Visualiza in Guatemala. Dr. Ogaldez works at the Peten Clinic and was able to volunteer his time for two days during which he examined 50 patients and performed 24 cataract surgeries. We look forward to the continued partnership with Visualiza and Dr. Ogaldez. Dr Mclendon was instrumental in bringing Dr Ogaldez to Belize and assisted him in his introduction to BCVI.

Dr. Kinloch Nelson - organized the collaboration between BCVI and Grace and Holy Episcopal Church. The team conducted eye clinics during which they screened over 100 students in the Cayo area.

Dr. Inder Singal, Retinologist from Kentucky, USA - returned from March 17th – 19th during which he provided retinal exams and laser treatments for patients in Belize City, Orange Walk and Dangriga. He returned in August for three days and visited Belize City, Dangriga and Punta Gorda clinics to provide exams and treatment for patients with retinal problems.

Dr. Elspeth Green an Ophthalmologist from the UK - arrived in March as a volunteer with BCVI. During her three month visit, Dr.
Green provided much-needed support in the

development of protocols for Primary Eye Clinics and BCVIs referral system. Dr. Green will also assist with the production of protocols for the reduction of blindness due to Retinopathy of Prematurity (ROP).

Anthony - visited in March to bring funds collected through the Foundation in the US in support of our Eye Care and Rehabilitation Programmes.

Dr. Juan Carlos Silva, Regional
Representative of PAHO - visited in April
led a National Consultation for Belize's National
Eye Health Strategic Framework as well as giving
valuable advice on BCVI's development.

Dr. Astrid Bonfield, CEO of The Queen Elizabeth Diamond Jubilee Trust - made a visit to BCVI to tour the National Diabetic Retinopathy Programme being funded by The Trust. She was very pleased with the progress and accomplishments of the programme.

Dr. Michael Eckstein - Retinologist from the UK visited in May to provide further training for Dr. Zory Perez Diaz in the provision of laser treatment. Dra is now able to provide laser treatment for diabetic retinopathy as well as

VISITORS AND VOLUNTEERS

Yag laser for cataract patients. Dr. Eckstein also visited the babies in the NICU at the KHMH alongside Dra to offer additional training and advice.

Dr. Lee and Mrs. Rayanne Peplinski - led a group that held screening sessions in a number of villages in the Stann Creek District. As usual their week long clinic was very productive and provided much needed prescriptions, reading glasses and referrals.

Pediatric Project Team - visited us once again to examine and treat children with conditions such as cataract, strabismus and ptosis. They saw a total of 85 children and conducted 32 surgeries.

Dr. David Boes, Cataract Surgeon - and his team performed 36 surgeries. We are very grateful for Dr Boes continued commitment.

Dr. Chuck Beischel and Dr. Lisa Vogel from Storm Eye Institute - visited BCVI in August to provide exams and cataract surgery at the SEC. Although their trip was cut short due to Hurricane Earl, they were still able to restore the vision of seven patients with cataracts.

Dr. Nico Yee from Visualiza in Guatemala- visited with Dr. Byron Deutschmann to discuss future partnerships and perform laser treatments at SEC.

Mary Ann Studder and her colleague Rena from Defiance College - visited our offices in August to discuss potential cooperation with their student group's annual visits to outlying villages in the Orange Walk District. We were very grateful for the retinal camera that they donated and made arrangements for the shipping to Belize.







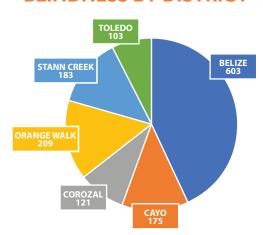
Defiance College representatives visit BCVI to donate a retinal camera.

REHABILITATION & EDUCATION

BCVI's rehabilitation services focus on improving the lives of anyone who is blind or has a significant loss of vision. The services provided are sensitive to the specific needs of each child, man and woman at their present stage of life. Although all people who are referred from the clinics are evaluated and placed on the register, not all need rehabilitation. Some may be referred to our low vision clinic or to other agencies that provide social services. Priority is always given to children as they will have many more years to live with adapting to their vision loss.

The Blind Register is the link between our eye care services and rehabilitation programmes and is essential in planning our work. At the end of 2016 there were a total of 1394 Belizeans on BCVI's Blind Register, with the majority over 55 years of age.

BLINDNESS BY DISTRICT



EARLY IDENTIFICATION AND INTERVENTION

It is essential to identify a person who is blind as early as possible, whether it is a child at birth or in early childhood or an adult who has recently lost their vision. In childhood this enables a child to receive instruction that will assist them in attaining their developmental milestones at

the appropriate time. Support from the RFO is crucial to the success of this intervention. The early introduction of rehabilitation and education services contributes greatly to a higher level of achievement.

COMMUNITY BASED REHABILITATION (CBR)

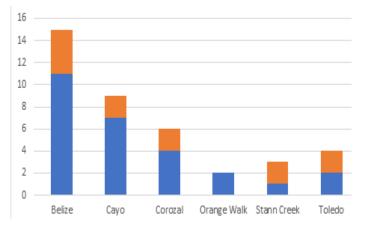
Our rehabilitation and education services are carried out at the community level using family and community members rather than bringing people to a central location. Staff and volunteers work with blind and visually impaired people in their homes using, as far as possible, the resources in the home, community and workplace. This is a holistic approach that centres around the person as an individual and training is given in the appropriate adaptive techniques.

EDUCATION PROGRAMME

In 2016 we only had two RFOs providing support to 52 children ranging in age from birth to 17, of these 39 are attending school. With a growing need for in-school support, RFOs have gone beyond their roles outside the classroom to now providing support in schools for teachers, principals and students. This is because the National Resource Center for Inclusive Education (Narcie) is not providing any support to the schoolchildren who are blind and visually impaired.

In order to be able to provide more in classroom support we hired an experienced part time teacher to assist the children in the Orange Walk and Corozal districts. This has proved very helpful as it has relieved our senior RFO, Liza Zelaya based in Belize City from also having to provide to support to children in the north.

SUMMER CAMP



All services offered in BCVI's Rehabilitation and Education Programme are free of cost to the families, this includes training, educational support, job placement, income generation, printed materials, adaptive devices and aids to help our clients live as independent as possible. We rely solely on monetary and in-kind donations as well as grants from funders to keep these services alive.

SUMMER CAMP

Our 2016 annual summer camp hosted a total of 20 students and most were accompanied by

a parent, sibling or guardian. For two weeks, the students and family members were provided lodging at Stella Maris School in Belize City. Individualized training packages were made for each child to help them reach the necessary milestones for the upcoming school year. Of the subjects being taught, emphasis was placed on computer skills, mathematics and reading.

As always, the children looked forward to the opportunities to socialize and go on field trips. We were very fortunate to have received contributions from local and international donors as well as local companies who sponsored trips for the campers and their families. Gilvano Swasey provided art and reading sessions and the children enjoyed a party with Ozzy the Clown. Sea Charters of Belize provided transportation to Goff's Caye while The Belize Zoo welcomed the children for a day with the animals – always a group favorite!



ADMINISTRATIVE & FINANCIAL REVIEW

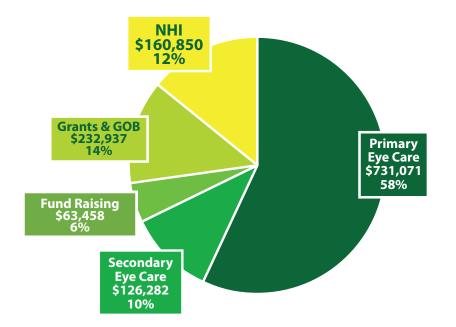
The chart shows the sources of income and these sources have changed significantly over the years. As grant income has continued to decrease we have had to rely more on our fees from services. While this has been satisfactory the Primary Eye Care and Glasses service has shown no growth and is \$30,000 less than 2015. This can be attributed to not being fully staffed in our clinics and not having optometrists available at all times. This especially affected the Belmopan Clinic which after experiencing many staffing problems we took the difficult decision to temporarily close the clinic until we could come up with a solution.

An area that has shown some increase in income is the Secondary Eye Care Service that increased their income by \$20,000. This is as a result of now having a fulltime ophthalmologist as we saw a higher revenue from clinic fees and laser treatments. A small research project done by a volunteer showed that people were satisfied with the services provided and were willing to pay a fair price.

At present the only grant support we are receiving is from the Queen Elizabeth Diamond lubilee Trust Fund that is specific to the Diabetic Screening and Treatment Programme. Government continues to give us a subvention that assists with treatment for those unable to meet the costs of surgery. The National Health Insurance (NHI) supports a number of cataract surgeries, glasses, laser treatments and diabetic examinations but unfortunately the numbers of people covered has not increased since the start of the programme in 2002.

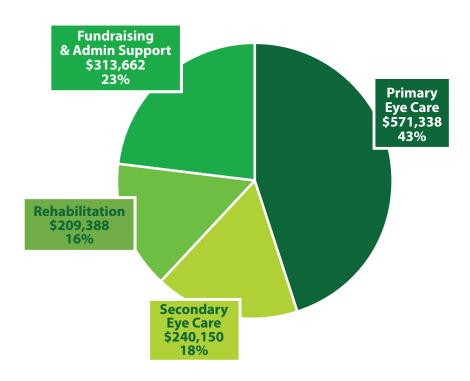
Fundraising saw a decrease as we did not have a local event this year. However, even though funding was reduced especially locally we still had some support from regular contributors. We will increase our endeavours in this area and look at opportunities in the USA to take advantage of our BCVI Foundation.

Total income 2016 \$1, 314, 598 (Excludes gifts in kind)



ADMINISTRATIVE & FINANCIAL REVIEW

Total expenditure 2016 \$1,334,538 (Excludes capital costs)



The chart shows the areas of expenditure for 2016 which collectively increased by over \$40,000 since the previous year. Over 50% of our expenses go towards salaries and is the greatest single expense. This is not shown in the chart because people are assigned by department/ programme. For example, the greatest number staff (15) are needed to provide the service in the Primary Eye Programme (5 clinics and optical lab).

The costs of operating any enterprise in Belize has significantly risen over the last few years due to an increase in the cost of living. This affects NGOs by not only increasing their expenditure but also in their ability to raise funds locally.

As we continue to increase our services in eye care, our income should also increase. However, our capacity to subsidise services for people with insufficient resources is decreased. We also must mention that restrictions on foreign exchange have made it difficult to purchase supplies overseas. We are especially grateful to Help the World See for their patience with our inability to make prompt payment for the frames and lenses that are so essential to our service. They also ensure the quality and affordability of the items they supply.

Mrs Carmencita Cruz, Financial Officer, and Mr Felix Reyes, Auditor, are to be commended for their efficient and timely production of our account materials.

In 2017 we intend to strengthen the administration and self-sustainability of the organisation, as well as improving the overall quality and range of services. The National Eye Health Strategic Framework, produced by the Ministry of Health (MOH), PAHO and BCVI, was finalized in 2016 and represents the way going forward to strengthen the eye care services delivered to the Belizean people. The greatest need identified in the document is for a greater number of trained personnel to be available to provide equality and access for those in need of eye care. We will work with PAHO and MOH to identify scholarships and candidates for the positions of ophthalmologists and optometrists. In the meantime, we will continue to use volunteers and also staff from the Cuban Mission to provide care.

With the return of Leolyn Garcia, our Programme Director/Senior Optometrist from her studies in the UK an aggressive training programme for the optometrists and ophthalmic assistants has been instituted. Gaps in service delivery will be identified and

additional staff hired, if necessary, to ensure a good referral and support system is in place.

In 2017 we will meet with the MOH Officials to re-negotiate our Memorandum of Understanding that outlines both parties' responsibilities in respect to the country's provision of eye care as this ten year agreement ends. Whereas BCVI is willing to continue assuming the responsibility of administering the programme we should like more cooperation and partnership in attaining the objectives.

BCVI has decided to produce an action plan for the next two years to guide the organization and it will be based on the National Eye Health Strategic Framework. We have scheduled a session with Belicana Consulting and Development Limited (BCDL) with CEO Shaun Finnetty in 2017. The company will also conduct an assessment of BCVI's Primary and Secondary clinics in Belize City in the hopes of strengthening current procedures. This will also look at the income generation aspect of collecting fees for services and giving all people



LOOKING TO THE FUTURE

who access our services satisfaction at a price recognise the importance and benefits of an they can afford.

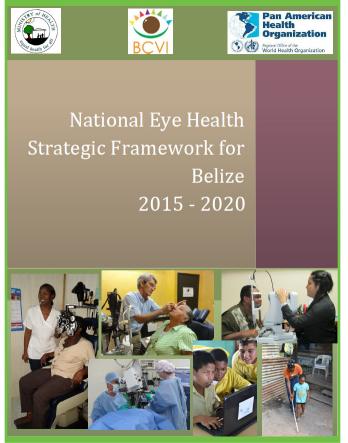
Our National Diabetic Retinopathy Screening and Treatment Programme continues on Great advances have been made in working schedule with two years left of support from activities have proven to be valuable assets. concerned. Our camera operators are proficient at taking forward we will concentrate our efforts on and implementing a school screening this will encourage all patients with diabetes to problems.

annual check-up and take advantage of our free screening.

with the NICU on the early identification of the Queen Elizabeth Diamond Jubilee Trust. retinopathy of prematurity and it is now routine Accomplishments so far include the training that Doctor Diaz examines the at risk babies of Doctor Diaz in the delivery of laser training on a regular basis. BCVI will work with the and the ongoing training of Clifton Borland in MOH to have the draft policy written by Dr the maintenance of medical equipment. Both Elspeth Green accepted and disseminated to all

retinal images and in 2017 will take an on line We look forward in the future to strengthening course to qualify them to grade images. Going the rehabilitation services as well as designing public education and awareness of the threat of programme. This will complete a wide range diabetes to loss of vision and blindness. We hope of services available to all people with eye





ANNUAL REPORT 2016

THANK YOU

BCVI acknowledges the following persons and organisations for their much appreciated and continued support.

The BCVI Foundation

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Ministry of Health

Ministry of Human Development

Lions Clubs of Belize

Lions Club International Foundation

The Queen Elizabeth Diamond Jubilee Trust

Embassy of the Republic of China on Taiwan

Dr. David Boes

Rick Soller

Dr. Alyson Hall

Pilgrimage Foundation Ambassador Shabbaz

Dr. Dianne Aronian

John Y. Jacobs O.D.

James Brodie & Company Limited

Mr and Mrs Billy and Rose Musa

Appliance World Ltd.

Puma

Belize Natural Energy Limited

Social Security Board

Belize Electricity Limited Unicomer Belize Limited

BNE Energy for Life Program

Belize Water Services Ltd.

Benny's Enterprise Ltd.

The Garel Family

The Musa Family

Cisco Construction Limited

Prosser Fertilizer & Agrotec Co. Ltd.

David and Gillian Gibson

John Munday

Donald Listwin and Belize Kids

Atlantic Insurance

Leroy Duek

Radisson Fort George Hotel & Marina

Caribbean Tire Westrac Ltd.

The Great House

Landy & Sons

Joseph Belisle

SAGE UK

Matthew Castillo

Yasser Musa

Image Factory Foundation

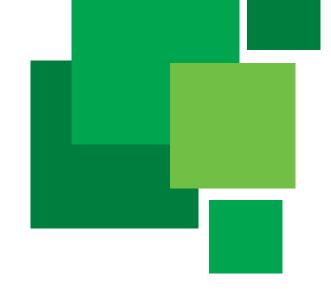
Thomas Angell

Dr. Paul Anthony

The David & Jennifer Hardie Memorial Foundation



BOWEN & BOWEN LTD





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