

ALTINO VENTURA FOUNDATION

33 Years of History

ACTIVITY REPORT | 2019

EYE CARE

REHABILITATION FOR VISION, HEARING, COGNITION, AND PHYSICAL IMPAIRMENTS

TEACHING AND RESEARCH



SPECIALIZED REHABILITATION CENTER

Menina dos Olhos



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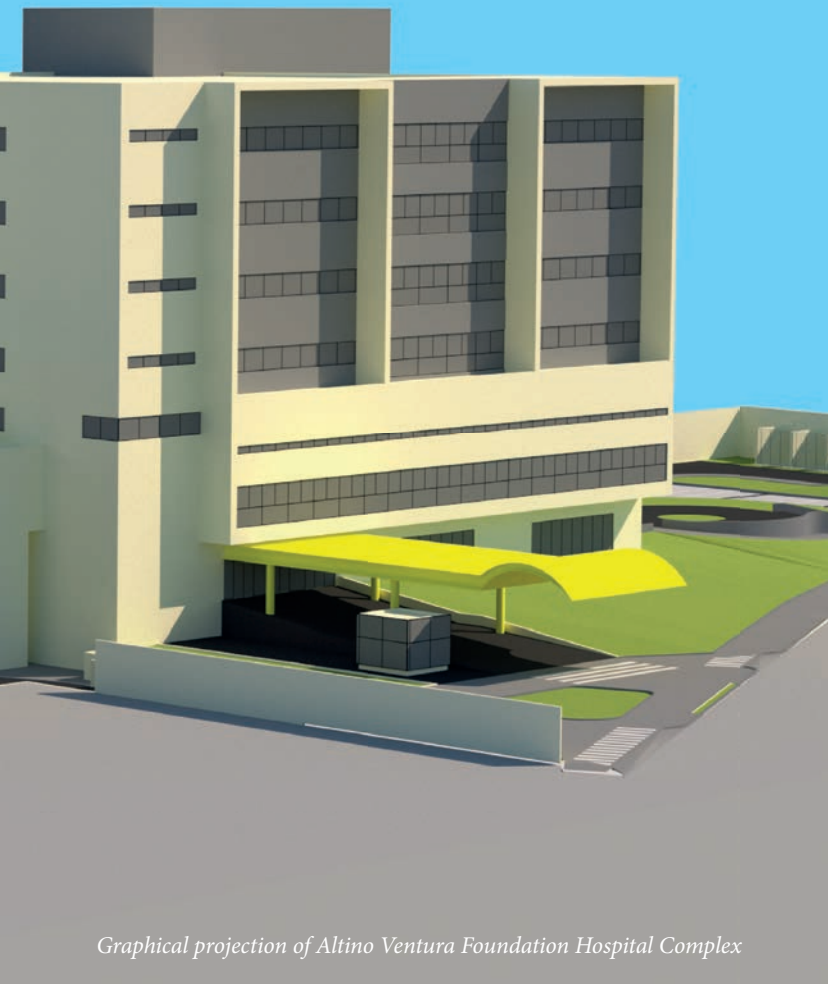
Myllena Valença

Publisher

Cepe - Editora de Pernambuco

Print run

500 copies



Graphical projection of Altino Ventura Foundation Hospital Complex

Following is a brief history of Altino Ventura Foundation (FAV) as well as its 2019 activity report. We produced this report in order to provide accountability to all our stakeholders.

FAV is committed to and co-responsible for providing care to the underprivileged population, intervening in situations that go beyond the scope of health, generating determinant effects in these individuals' living conditions.

The programs developed by FAV focus on promoting eye care, rehabilitation of people with visual, hearing, physical, and cognitive impairments, education, and scientific research.

Care is provided, taking into account the needs of each patient. We also promote an important national and international technical-scientific exchange. We continually update our management model and codes of conduct, having as the major guideline the continuous improvement of the services rendered to the society.

FAV's achievements over its history resulted from an ethical, dedicated and committed work of the various multiprofessional teams and the support from Brazilian and international partners.

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• **Altino Ventura Foundation - Salgueiro**

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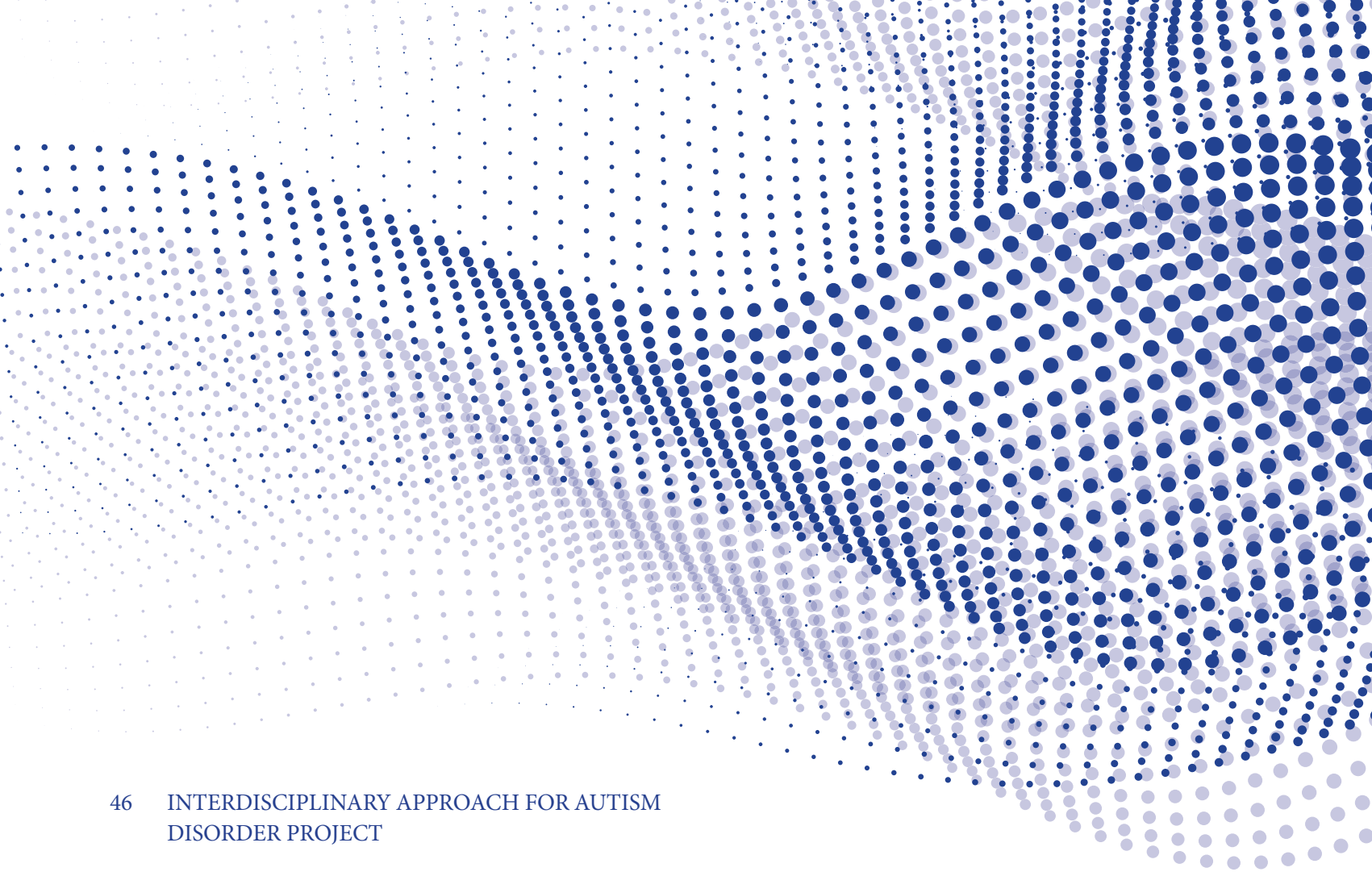
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EDITORIAL

The year 2019 was marked by great achievements in the history of Altino Ventura Foundation - FAV. Dynamism, ethics, competence, humanization, and constant search to overcome challenges and innovation made FAV stand out in the national and international scene.

Thanks to the social impact caused by FAV, which has been working in the areas of assistance in ophthalmology and multiple impairments, in the promotion of teaching and scientific research for more than 34 years, the institution has been awarded important prizes in the Brazilian ophthalmology scenario and worldwide.

In May, FAV's Vice-President, Dr. Liana Ventura, was awarded the Benjamin F. Boyd Humanitarian Medal for Services to the Americas, granted by the Pan American Association of Ophthalmology - PAAO, in Cancún, Mexico. The award recognizes relevant services rendered to humanity.

In June, the coordinator of FAV's Scientific Research Department, Camila Ventura, MD, was awarded the prize for outstanding scientific research in the field of pediatric retina in children with Congenital Zika Syndrome, in Salt Lake City, in the United States. The award was given by the National Eye Institute - NEI and the National Institute of Health - NIH, which is the largest health agency in the USA.

FAV received the "2019 António Champalimaud Vision Award" at the Champalimaud Foundation's headquarters in Lisbon (Portugal). Such award is given to institutions that stand out in the fight against blindness. The award was conferred by the President of Portugal, Marcelo Rebelo de Sousa, and Champalimaud Foundation's president, Eleonor Beleza.

In addition to FAV, this last edition of the award also recognized the work of Instituto da Visão - IPEPO, and the Ophthalmology Service of Unicamp (University of Campinas). This was the first time that this award was given to Latin American institutions.

In the areas of teaching and scientific research, FAV celebrated the approval - by the Coordination for the Improvement of Higher Education Personnel - Capes - of the Stricto Sensu Graduate Program - Interinstitutional Doctorate - Dinter in Ophthalmology and Visual Sciences. Such achievement resulted from a partnership with Escola

Paulista de Medicina - EPM / Federal University of São Paulo - Unifesp.

This program was a pioneering initiative in the North and Northeast of the country and has once again endorsed FAV's credibility and commitment to the intellectual training of great health professionals and promoting scientific research.

That same year, FAV began the construction on its own headquarters, in the neighborhood of Iputinga, in Recife, and it is scheduled to open in February 2021.

Once construction is complete, the hospital complex will occupy approximately 20 thousand square meters. FAV will double its service capacity, reaching 70,000 monthly eye procedures. This will make the Foundation the largest ophthalmology center in the Unified Health System in Brazil.

FAV's Specialized Rehabilitation Center will get an Aquatic and Multisensory Physical Therapy Center, scheduled to open in October 2020.

FAV's countless achievements, in addition to its impressive numbers, which will be presented in the following pages, demonstrate that we are treading the right path towards the promotion of eye and vision health, assistance to people with multiple impairments, and promotion of teaching and scientific research.

All this work and dedication prove that when you sow the seeds of solidarity, you shall have a good harvest. These achievements would not have been possible without the collaboration of everyone involved in this project. Therefore, we thank all these people and God for the privilege of being part of it.

Marcelo Ventura

President - Altino Ventura Foundation

*Marcelo Ventura, MD, PhD
President, Board of Directors
Altino Ventura Foundation*





ALTINO VENTURA FOUNDATION

HISTORY

Altino Ventura Foundation - FAV, a nonprofit organization, was founded on October 13, 1985. Its mission is to provide eye care, offer rehabilitation services to low-income patients with hearing, visual, physical, and cognitive impairments, and promote education and research initiatives.

Since 1992, it has been accredited by SUS (Brazil's Unified Health System) to provide specialized medical services, serving patients from all over the North and Northeast of the country.

FAV is recognized by Brazil's Ministry of Health as a Reference Unit in ophthalmology services. It has a Specialized Rehabilitation Center - CER IV, which offers multiprofessional specialized care.



Along its 33 years of existence, FAV performed:

More than

15 million

medical and therapeutic procedures

In more than

1.6 million

patients

Its ophthalmological emergency serves, in average,

10 thousand

patients a month

Altino Ventura Foundation - 2019 performance

1,128,963

medical procedures

575,535

supplementary exams

533,609

medical appointments

18,142

surgeries

175

corneal transplants

158,558

patients treated



Eye Examination

SERVICES WE PROVIDE

IN RURAL COMMUNITIES

Initially, FAV offered its services only in its headquarters, in Recife, State of Pernambuco. Due to the growing demand for specialized services in other municipalities, FAV began to offer its services in rural areas in a pioneering initiative, assisting the low-income population in regions lacking infrastructure and qualified human resources.

In 1993, to provide eye care to patients from such communities, the Foundation used a Mobile Eye Clinic Unit, donated by Hospital de Olhos de Pernambuco (HOPE), equipped with three ophthalmology offices. The quality of the services provided strengthened the partnership between the Foundation, the State, and civil

society, enabling FAV to expand its assistance.

In 2001, with the support of the State Parliament and State and Municipal governments, FAV opened the Satellite Eye Clinic in the city of Salgueiro, more than 500 km away from the city of Recife. And later, in 2003, another Satellite Eye Clinic was opened in the city of Arcoverde, about 250 km away from the state capital.

In the same year, thanks to the International Rotary Foundation's support, the "Inácio Cavalcanti" Mobile Eye Surgery Unit Project was created. An innovative initiative in Brazil, this project has already performed 33,797 surgeries in more than 115 municipalities in rural areas: 31,589 cataract surgeries and 2,208 pterygium surgeries. The patients are

treated in their home towns. All surgeries and postoperative care are covered by the Unified Health System (SUS).

The Credibility of the Institution, combined with the high social impact of previous projects, paved the way for the creation of new Satellite Eye Clinics, one in the city of Jaboatão dos Guararapes, 9.7km distant from Recife, in 2005, and another one in the city of Serra Talhada, 416.5 km away from Recife, in 2018.

The benefits and the enormous social legacy left to the people by the projects carried out by FAV, all of which followed scientifically established protocols and made use of ethical and humanist procedures have broken down barriers, fighting blindness and restoring patients' dignity.

The foundation faces huge challenges, including the fact that project sustainability depends on municipal, state, and

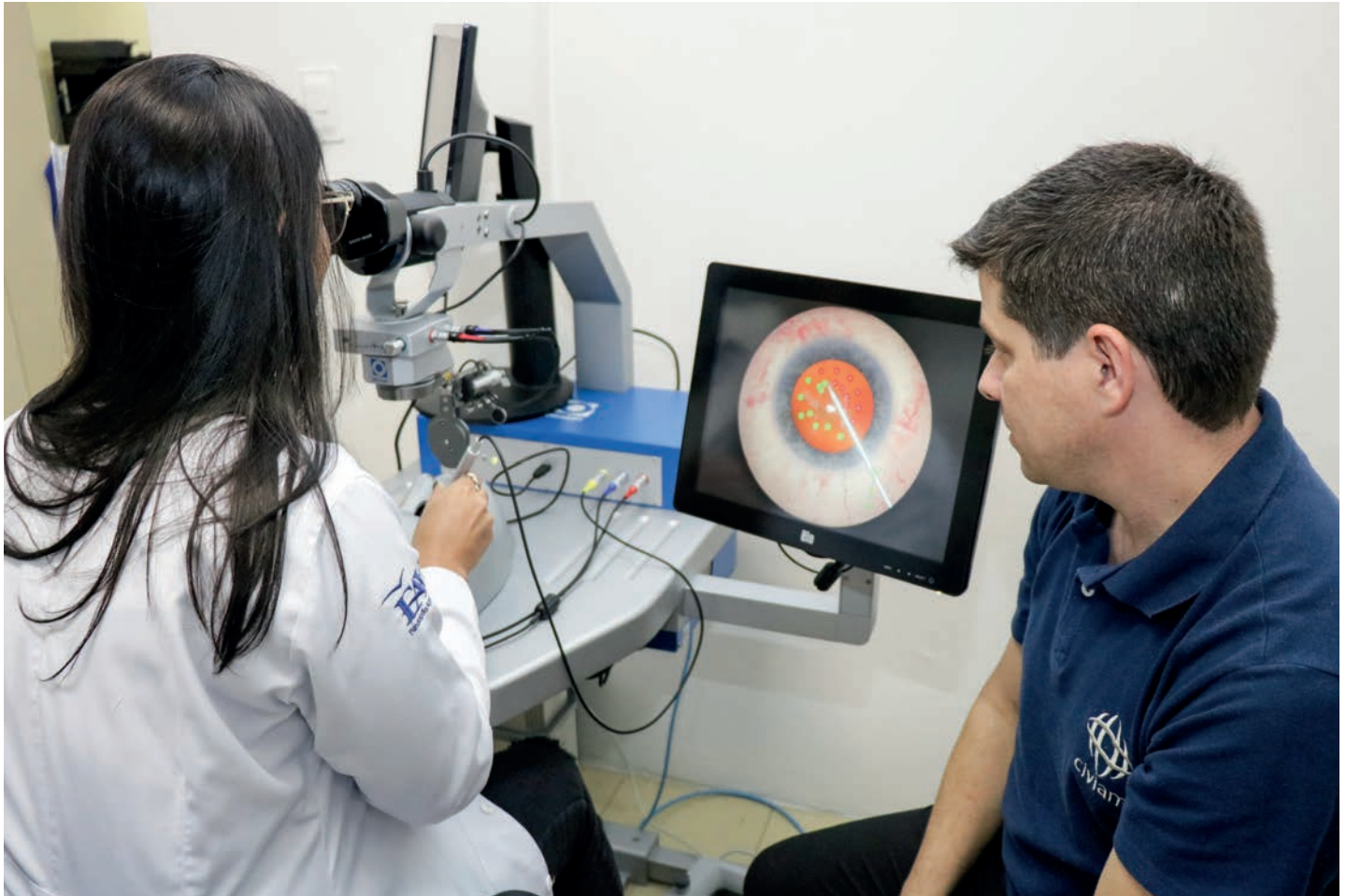
federal support and civil society partners. And the statistics reflect this reality. The social, economic, and political crisis in Brazil and the state of Pernambuco had a negative impact on public health and FAV's eye care activities.

In 2019, there was an increase of 1,222% in the number of procedures performed (medical appointments, exams, and surgeries) in patients assisted at the Satellite Eye Clinic of the city of Serra Talhada, when compared to the number of procedures performed in the previous year (2018). The increase in the volume of services provided in this unit was due to the enormous suppressed demand since the Unified Health System did not offer ophthalmology services in that region. Due to the full support of the City of Serra Talhada to FAV's social projects. (See table below)

PROCEDURES PERFORMED AT THE SPECIALIZED SATELLITE UNITS (2018 AND 2019)

PROCEDURES	SALGUEIRO*		JABOATÃO		SERRA TALHADA	
	2018	2019	2018	2019	2018	2019
MEDICAL APPOINTMENTS	26,413	4,793	14,623	14,335	2,516	9,569
EXAMS	99,264	30,198	58,132	93,655	4,147	73,510
SURGERIES	2,440	794	1,488	2,227	199	811
TOTAL	128,117	35,785	74,243	110,227	6,862	83,890
COMPARATIVO 2018 / 2019	100%	28%	100%	148%	100%	1,222%

* The number of surgeries performed in 2019 in the municipality of Salgueiro decreased because the "Inácio Cavalcanti" Mobile Eye Surgery Unit no longer exists. Consultations were reduced because our unit in Arcoverde, which collaborated with the unit in Salgueiro, stopped operating in November 2018.



Virtual Reality Microsurgery Laboratory

FAV INTRODUCES VIRTUAL REALITY MICROSURGERY SIMULATION LABORATORY

A higher education institution of excellence in the North and Northeast, FAV has been a pioneer in using a Virtual Reality Microsurgery Simulation Laboratory to train young ophthalmologists.

Implemented by the FAV in June 2019, the service was created to revolutionize a generation of doctors attending the institution's graduate courses. Through the virtual reality simulation tool (EyeSi), doctors are trained to perform cataract, retina, and vitreous surgeries.

This new teaching tool allows the doctor to repeat the surgical technique, virtually, in 3D, as often as needed. With such a tool, they can gain greater precision and confidence in themselves, minimizing complications and bringing a better result to the patient.

FAV IN SERRA TALHADA

A MAJOR CHANGE IN THE REALITY OF A CITY IN THE RURAL AREA

In August 2018, the inhabitants of Serra Talhada, a city located in a distant rural area of Pernambuco, started to rely on ophthalmological assistance offered by Altino Ventura Foundation - FAV at its Satellite Eye Clinic. With resources from the municipal government, more than 83,890 procedures, including medical appointments, examinations, and surgeries, have been performed on patients of all ages by the end of 2019. Of this total, 9,569 medical appointments, 73,510 exams, and 811 surgeries were offered.

The unit has the support of eight professionals, including ophthalmologists, technologists, and administrative employees. And it also offers a complete infrastructure for making consultations and ophthalmology exams: two offices and a modern diagnostic center, containing six supplementary exam rooms in the areas of the cornea, retina, cataract, and glaucoma.

Through the Unified Health System - SUS, our Unit in Serra Talhada brought convenience for the population, who no longer has to travel long hours to receive specialized and excellent medical care in Recife. Ophthalmology services represent the second-highest demand in health in the city, behind only cancer treatments.

In the second half of 2020, the Serra Talhada unit will gain a surgical center with the capacity to perform more than 300 surgeries per month, including cataract and pterygium specialties.





Aerial view of the city of Serra Talhada

TELEMEDICINE

ARTIFICIAL INTELLIGENCE IN RURAL COMMUNITIES

FAV's initiative in 2019 to facilitate the diagnosis and early treatment of Diabetic Retinopathy was the Telemedicine and Artificial Intelligence Program. This pioneering program has a partnership with the Chilean company TeleDx.org, which developed the Dart software. The system allows uploading images obtained from the eye fundus (retinography) of diabetic patients. After artificial intelligence computational analysis, the system predicts the patient's risk of presenting diabetic retinopathy.

Led by Rodrigo Donoso, MD (ophthalmologist from Santiago, Chile) and José Thomaz Arenas, CEO of the company, this system is already validated in Chile and used nationally. FAV implemented this service in Serra Talhada / PE, a city with 85 thousand inhabitants, located 400 km away from Recife. The city was chosen because it is considered a development hub in that area of the state. Thus, the project can reach diabetic patients in the city of Serra Talhada and surrounding municipalities.

Professionals working in public health at Serra Talhada health centers were trained to detect diabetic retinopathy at early stages. Patients are referred to FAV's Satellite Eye Clinic by HIPERDIA, a program intended to register and follow-up patients with arterial hypertension and/or Diabetes Mellitus.

The patients are referred and submitted to a retinography exam in Serra Talhada. The images are uploaded to a cloud, and the artificial intelligence system analyzes the images. Then, in the city of Recife, the ophthalmologist makes the diagnosis. When a case of diabetic retinopathy is identified, the patient is referred for laser treatment, injections, or surgery, when necessary. This process prevents blindness due to retinopathy. Approximately 2,400 diabetic patients from Serra Talhada are benefiting from this pioneering system in the Northeast. Each month, approximately 200 patients are referred by the regulatory sector of the municipality of Serra Talhada.

Division of Pediatric Ophthalmology



Virtual Reality Microsurgery Laboratory



Surgical Suite



TRAINING

The relevance of FAV's work includes systematic investment in education and research. Recognized by the Ministry of Education - MEC, this higher education institution offers a lato sensu Graduate Program (Medical Residency and Specialization in Ophthalmology), accredited by Brazil's Ministry of Education and the Brazilian Council of Ophthalmology - CBO, and a Fellowship Program in optics, cornea and external eye diseases, retina and vitreous, pediatric ophthalmology and strabismus, glaucoma, and eye plastic surgery. Through these programs, FAV has trained 600 ophthalmologists, from all over Brazil, from other Latin American countries (Costa Rica, Colombia, Venezuela, Peru, Chile, Argentina, Uruguay, Bolivia, Dominican Republic, and Paraguay) and Angola. Of these, 339 were students of the Specialization and Medical Residency course in Ophthalmology, and 261 were from the Fellowship Program in Ophthalmology. Currently, FAV has 62 other doctors in training in these three courses.

FIRST PHD PROGRAM IN OPHTHALMOLOGY AND VISUAL SCIENCES IN THE NORTH / NORTHEAST OF BRAZIL

In August, the Escola Paulista de Medicina - EPM / Federal University of São Paulo - Unifesp launched the Stricto Sensu Ophthalmology and Visual Science Graduate Program (Interinstitutional Doctorate - Dinter) with an extension at the Altino Ventura Foundation. The first program of its kind in the North and Northeast, it is an initiative of the Coordination for the Improvement of Higher Education Personnel - Capes.

The project will allow higher education professionals to improve themselves in visual sciences, with due scientific criteria and contributions, and without having to travel to the South and Southeast regions. The idea is to encourage local scientific research, bringing improvements to the population's quality of life in the North and Northeast. In addition, Altino Ventura Foundation shall soon be allowed more academic autonomy and offer its own doctoral degree program.

ALTINO VENTURA FOUNDATION HAS TRAINED 600 DOCTORS



BRAZILIAN REGIONS

■ NORTH
 ■ NORTHEAST
 ■ CENTRAL-WEST
 ■ SOUTHEAST
 ■ SOUTH

RESIDENTS

339 RESIDENTS TRAINED BY FAV UNTIL 2019

FELLOWS

228 BRAZILIAN FELLOWS
33 FOREIGN FELLOWS WERE TRAINED BY FAV UNTIL 2019

SCIENTIFIC RESEARCH



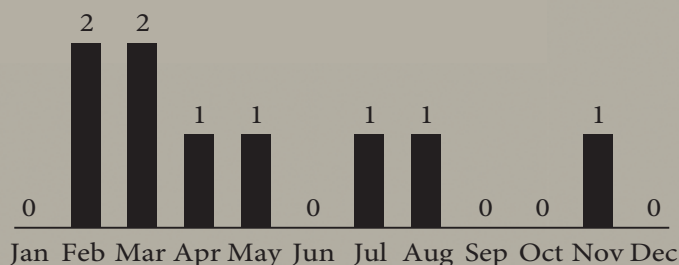
FAV Scientific Meeting in 2019

FROM 2016 TO 2019 FAV HAS PUBLISHED 58 PEER-REVIEWED SCIENTIFIC PAPERS

The Scientific Research Department conducts scientific research and regularly publishes scientific articles. It also organizes an annual scientific conference - FAV's Graduate Students Scientific Conference.

Between 2016 and 2019, 58 articles have been published in Brazilian and international scientific journals.

2019 FAV SCIENTIFIC PRODUCTION



Source: Google Scholar

Prepared by: Camilla Rocha

FAV's Department of Scientific Research

FAV'S TECHNICAL/SCIENTIFIC PARTNERSHIPS

PROJECTS/PROGRAMS	PARTNERS	
	BRAZILIAN	INTERNATIONAL
Specialized Eye Care for Children with Congenital Cataract (2001-2019)	Brazil's Ministry of Health	Cristian Blind Mission (CBM), DESERET TRUST (Lambert Family)
Retinopathy of Prematurity (2001 - 2019)	Brazil's Ministry of Health	
Sight First - International Low Vision Project (2016-2019) Regional Partners: State of Amapá - Universidade Federal do Amapá; State of Ceará - Hospital Geral de Fortaleza; State of Roraima - Oculistas Associados; State of Bahia - Centro de Reabilitação Especializada Irmã Dulce; State of Paraíba - Fundação Centro Integrado de Apoio ao Portador de Deficiência (FUNAD); State of Sergipe - Hospital de Olhos de Sergipe; State of Pernambuco - FAV's Specialized Rehabilitation Center "MENINA DOS OLHOS"; State of Alagoas - Apae.	Brazil's Ministry of Health	Christian Christian Blind Mission (CBM), and the German Government (Ministry of Development)
Congenital Zika Syndrome: Multiprofessional diagnosis and monitoring (2016 - 2021)	Fiocruz Pernambuco, Universidade Federal de Pernambuco, Hospital Universitário Oswaldo Cruz, Hospital Agamenon Magalhães and Instituto Ageu Magalhães	
"Semear" Project: a study on neurodevelopmental disorders in children with congenital Zika syndrome (2017 - 2022)		RTI International (Research Triangle Park, NC), and National Institute of Health (NIH)
"Além do Olhar" Project (for people with visual impairments) - 2011 - 2019	City hall of Recife	



AWARDS AND ACKNOWLEDGEMENTS

In recognition of the relevant services rendered to humanity, Dr. Liana Ventura was awarded the Benjamin F. Boyd Humanitarian Medal for Services to the Americas. The award was granted by the Pan American Association of Ophthalmology - PAAO, in Cancún, Mexico.

Competing with institutions from all over the world, Altino Ventura Foundation - FAV was one of three Latin American organizations to receive the “2019 António Champalimaud Vision Award”. Champalimaud Foundation, headquartered in Lisbon (Portugal), conferred the honors to institutions that stood out for their actions to prevent blindness. The award was given to

FAV’s President, Dr. Marcelo Ventura, by the President of Portugal, Marcelo Rebelo de Sousa, and by the Champalimaud Foundation’s President, Leonor Beleza, in

Lisbon, in September 2019. FAV was represented by ophthalmologists Marcelo Ventura (president), Liana Ventura (vice-president), and Camila Ventura (coordinator of the Department of Scientific Research). FAV, Instituto da Visão - IPEPO, and the Ophthalmology Service of the Federal University of Campinas (Unicamp) were the organizations selected to share the award.

ACADEMIC AWARDS

National and international awards were the highlights of 2019 for FAV’s Department of Scientific Research. Two awards were given to the Institution at the Congresso Norte-Nordeste de Oftalmologia (North and Northeast Brazil Ophthalmology Conference), held in March, in the city of Natal/RN.

An award was given for the poster session entitled: “Visual Evoked Potential in children with Zika Virus Syndrome,” presented by Luan Fellype Bispo Almeida, Liana Ventura, Camila Ventura, and Marisa Zamora Kattah.



The scientific article “Susanna UF Implant: Evaluation of Effectiveness, Safety, and Applicability,” submitted by doctors Tiago de Araújo, Andressa Magalhães, Lucas Sena, Thiago Rafael, Kaio Soares, Michel Bittencourt, Leopoldo Barbosa, Marcelo Hatanaka, and Arthur Frazão also received an award.

The international highlight was the Doctalks Award, an initiative of the CCM Group that pays tribute to this country’s health professionals for their excellence. The award was given for the Article “Developmental Outcomes and Associated Health Conditions in Children with Congenital Zika Syndrome,” which was written by doctors Isabella Gomes Cantanhede, Marcelo Ventura Filho, Robert Gass, Jane Santos, Milena Cavalcanti, and Liana Ventura.

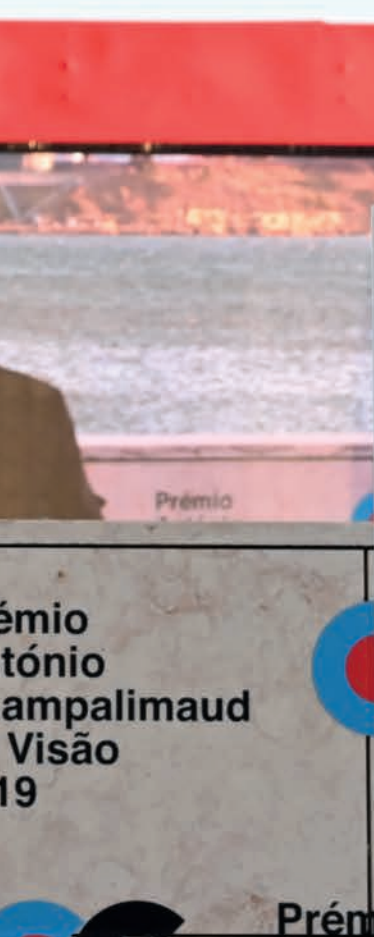
The poster session “Fluorescein Angiography Findings in Children with

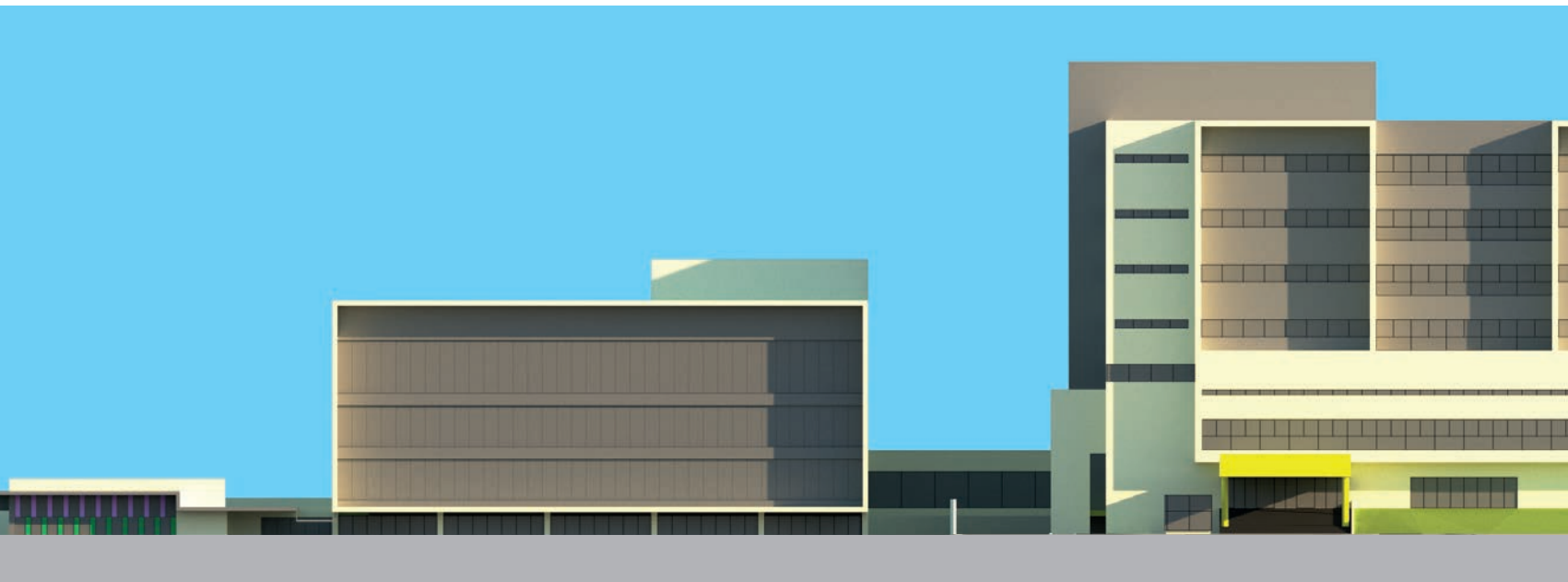
Congenital Zika Syndrome” received an award during the Advances in Pediatric Retina Course in Salt Lake City, Utah - USA. This is a scientific event that focuses on advances in the diagnosis and surgical treatment for pediatric retina diseases. The authors were Camila Ventura, Adriana Gois, Bárbara Freire, Danielle de Almeida, Leslie D. MacKeen, Marcelo Ventura Filho, Audina M. Berrocal, R.V. Paul Chan, Rubens Belfort Jr., Mauricio Maia, and Liana Ventura.

At the 63° Congresso Brasileiro de Oftalmologia (63rd Brazilian Conference of Ophthalmology), which took place in September, in the city of Rio de Janeiro, the best scientific work for the “Northeast Region” category was submitted by the doctors Luan Fellipe Bispo Almeida, Liana Ventura, Camila Ventura, and Marisa Zamora Kattah.



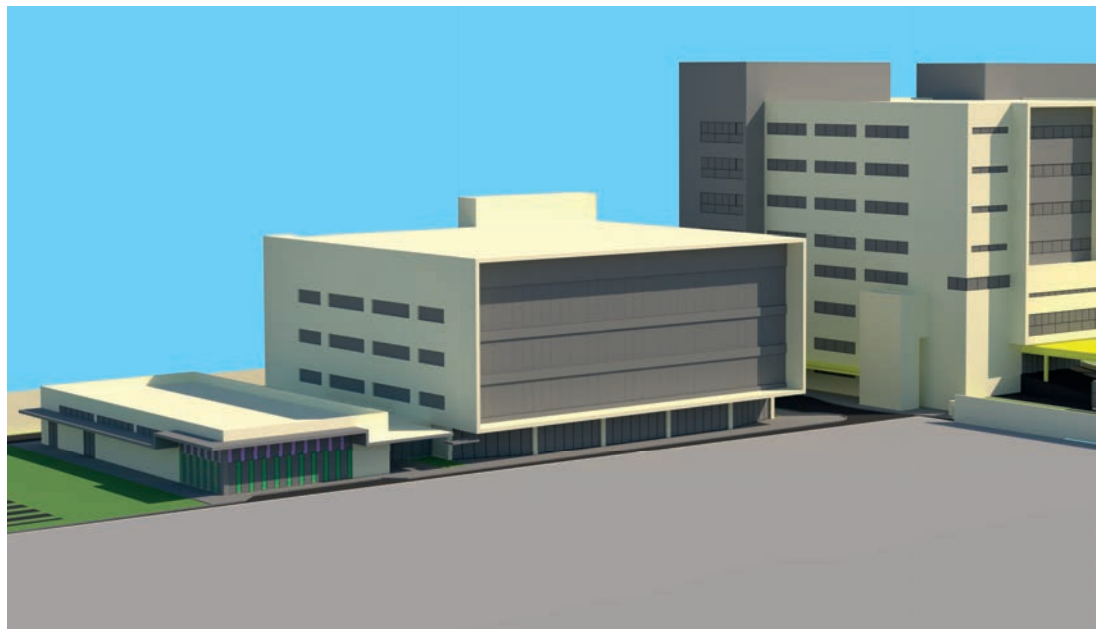
*2019 António
Champalimaud
Vision Award
Ceremony in Portugal*





FAV WILL INAUGURATE IS OWN HEADQUARTES

The construction of the headquarters, an old dream of the Altino Ventura Foundation - FAV, is about to be completed. Construction works started in June 2019, and the building is scheduled to open in February 2021. The modern structure of the headquarters (14,728 square meters) will be part of a hospital complex, located in the neighborhood of Iputinga, in Recife. Once construction is complete, the hospital complex will occupy approximately 20 thousand square meters. It will include the hospital and diagnostic center, the Specialized Rehabilitation Center - CER IV, and an Aquatic and Multisensory Physical Therapy Center. The Hospital and Diagnostic Center will provide the population with clinical and surgical services, a surgical suite (16 operating rooms), preoperative care rooms, anesthetic care and recovery rooms, hospital beds for hospitalization, in addition to more than 30 offices. Additionally, the service will have complete infrastructure for teaching and research and a memorial with a rich collection of FAV's history and achievements.

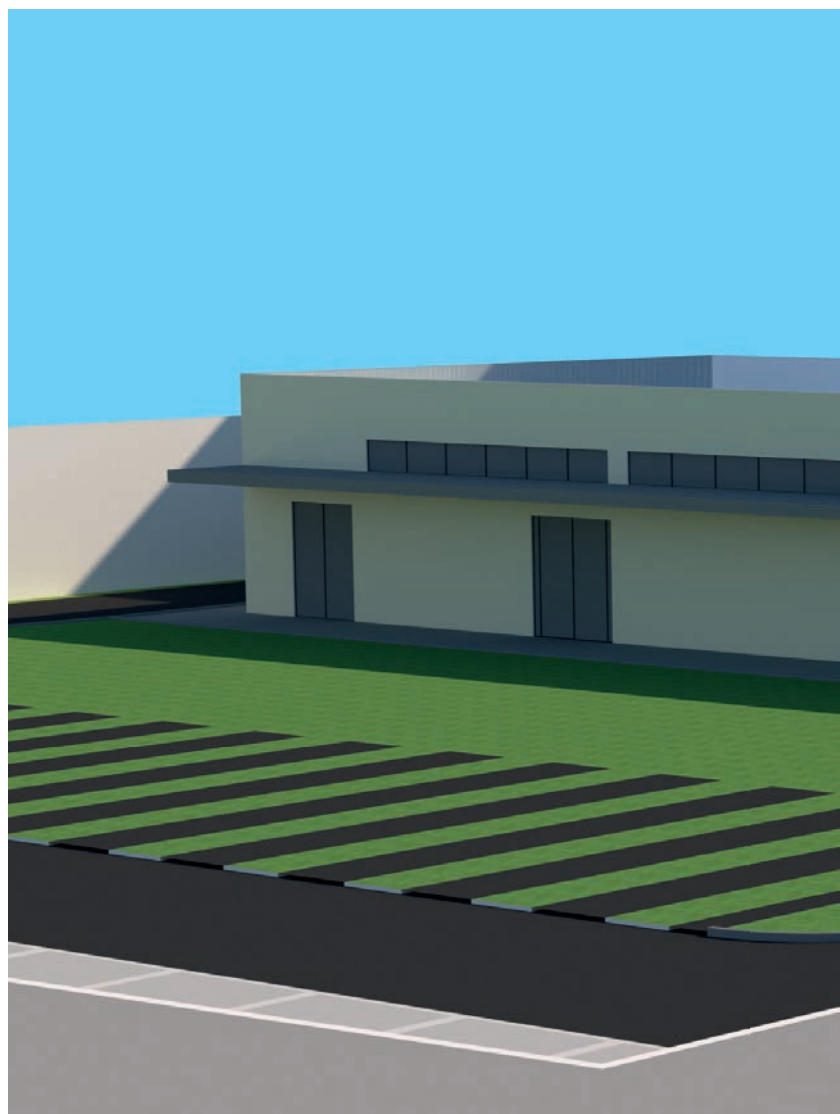


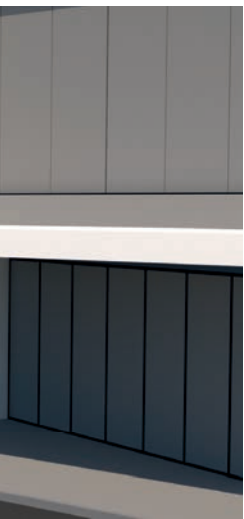
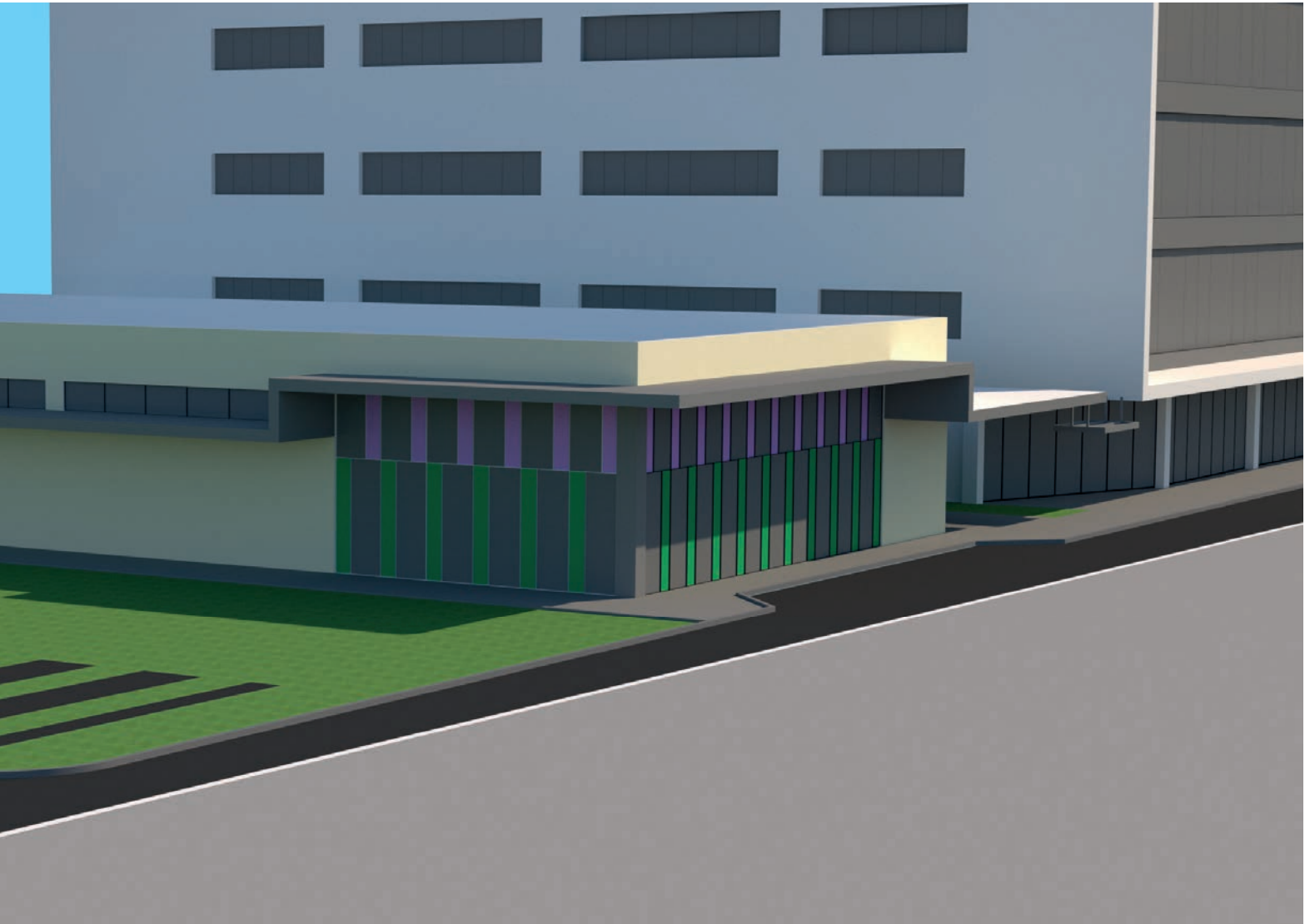
AQUATIC AND MULTISENSORY PHYSICAL THERAPY

In September 2018, FAV launched the campaign “Pinte o Amor com Solidariedade” (Paint love with solidarity) to raise funds to construct an Aquatic and Multisensory Physical Therapy Center. The center will carry out specialized therapy services for patients with impairments assisted at FAV’s CER IV.

The initiative was joined by artist and designer Rafa Mattos, the creator of the “Plante amor, colha o bem” movement, and storyteller Carol Levy, who performed a charity show at Teatro RioMar. FAV also developed a line of special products, signed by these two artists, to raise funds.

In 2019, Altino Ventura Foundation - FAV was one of three institutions to receive the “2019 António Chamental Vision Award”. Funds donated by the Portuguese institution are being used to build FAV’s Aquatic and Multisensory Physical Therapy Center. The inauguration of the center, which comprises 800 square meters of built area, is scheduled for October 2020. This service will bring great benefits to patients assisted through the Unified Health System - SUS. Aquatic physiotherapy is one of the most used resources within the treatment and rehabilitation of the most diverse types of impairments, improving motor coordination, and bringing social inclusion and psychological gains to people with some impairment.









SPECIALIZED REHABILITATION CENTER

Menina dos Olhos

Established in 2005, FAV's Specialized Rehabilitation Center "Menina dos Olhos", was created to offer patients with visual, hearing, physical and cognitive impairments a multidisciplinary comprehensive care.

This Center's team, which includes doctors, therapists, nurses, social assistants, and technologists, offers integrated treatment for people with impairments. It also has the support of professionals in the administrative area, and volunteers from different segments of health, education, and social service.

Services offered include:

1. Diagnosis and rehabilitation of people with visual, hearing, physical and intellectual impairments;
2. Serve as a link between patients and all the services offered by its network, promoting family, educational, and social inclusion;
3. Offer Psychosocial support and empowerment of families/caregivers of people with impairments, taking into consideration health, education, and social protection demands of the impaired;
4. Support and encourage actions for income generation and social and cultural inclusion of patients;
5. Initiatives to care for the well-being of mothers/caregivers of people with impairments;
6. Promotion of teaching, developing socio-educational programs for the population, including training for doctors, therapists, and other health, education, and social work professionals;
7. Development of scientific research activities.

Physical rehabilitation

OUR LEGACY TO SOCIETY

HISTORY

In the beginning, FAV's Specialized Rehabilitation Center "Menina dos Olhos" offered its services in rented spaces. In March 14, 2014, the Center opened its headquarters, which was built with donations from Brazilian and German partners (Christian Blind Mission - CBM, the German Government / Ministry of Development, Lions Club International from Germany - MD-111, and the television channel RTL.)



Lions Clubs International
FOUNDATION



The Center's operation has the support of the Ministry of Health, the Government of the state of Pernambuco, and the City of Recife. It also receives donations from civil society and partners in Brazil and abroad.

"Menina dos Olhos" is a center of excellence that makes a difference in the lives of patients from the North and Northeast of the country. It was accredited by the Ministry of Health on December 2, 2013 as a Rehabilitation Center II, to offer treatment to persons (children and adults) with visual, and cognitive impairment. In June, 2015, the Center was accredited by the Ministry of Health as a Rehabilitation Center IV - CER IV, expanding its range of services to offer treatment to patients with visual, hearing, physical, and cognitive impairments.

MULTIDISCIPLINARY SPECIALIZED CARE

FAV's CER IV team is composed of physicians (ophthalmologists, otolaryngologists, orthopedists, neurologists, anesthesiologists, and cardiologists), therapists (psychologists, physical therapists, occupational therapists, pedagogues, psychopedagogues, speech therapists, assistive technology and braille teachers, and psychologists/music therapists), social workers, nurses, technical professionals, administrative staff, and volunteers.

These professionals work taking a holistic, interdisciplinary, and transdisciplinary approach to patient care, and they also offer family support.

The Center complies with the guidelines of the Ministry of Health Project "Viver Sem Limites," regarding the National Policy for Persons with Impairments model and structure of care.

In 2019, the Center offered its services to 7,799 patients with impairments, 45.55% of whom were residents of rural areas of the state of Pernambuco and other states.

PATIENTS REHABILITATED AT CER IV IN 2019

ORIGIN OF PATIENTS	NUMBER OF PATIENTS	%
Recife Metropolitan Area	4,246	54.44
Rural communities in the state of Pernambuco	3,337	42.79
Other states - North and Northeast of Brazil	186	2.38
States from other regions in Brazil	30	0.38
Total	7,799	100.0



Low Vision Project

ACTIVITIES

THE INSTITUTION HAS BEEN ADAPTING ITS SERVICE CAPACITY TO SUS (UNIFIED HEALTH SYSTEM) DEMAND

In 2019, FAV's CER IV consolidated its management and health care model, focusing on patients' needs with impairments, supporting families, and building and strengthening partnerships.

IN 2019

OUR MULTIPROFESSIONAL TEAM PERFORMED MORE THAN

164 thousand

medical and therapeutic procedures

9 thousand

consultations

44 thousand

therapy consultations



2019 AVERAGE NUMBER OF PATIENTS ASSISTED PER MONTH													2018	
TYPE OF IMPAIRMENT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVERAGE	AVERAGE
VISUAL	477	579	501	569	546	471	553	594	520	551	324	179	489	443
COGNITIVE	405	400	361	373	439	383	428	474	407	361	348	194	381	462
PHYSICAL	353	346	285	345	399	392	396	398	380	364	325	219	350	449
HEARING	292	288	235	279	319	256	227	214	201	185	150	76	227	265

The reduction in the number of procedures in 2018 and 2019 resulted from the social, political, and economic crisis in Brazil and in the state of Pernambuco.

Physical rehabilitation



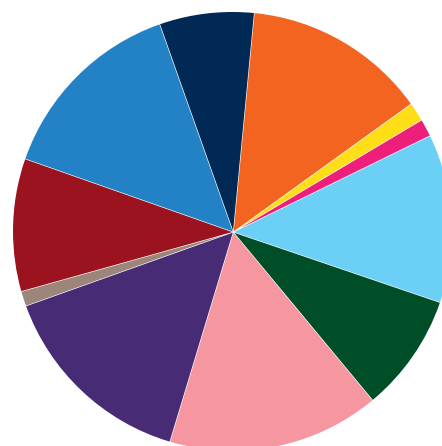
Patient evaluation



DESEMPENHOS ALCANÇADOS

QUANTIDADE DE ATENDIMENTO
DE PACIENTES POR CATEGORIA
PROFISSIONAL EM 2019

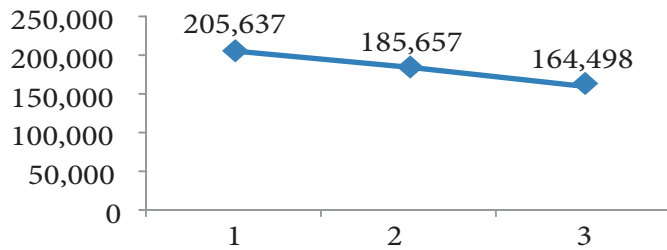
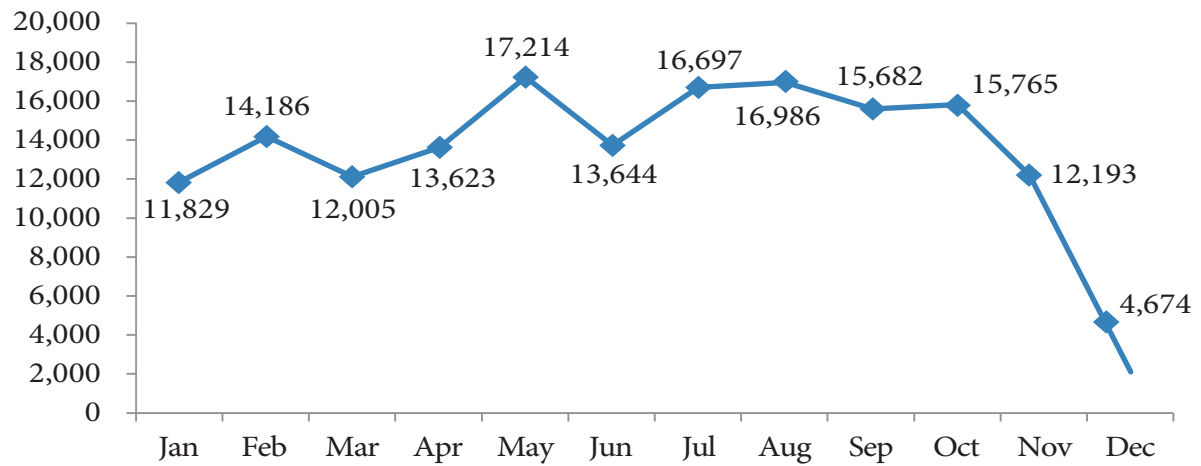
CATEGORIA	QUANTIDADE	%
Pediatric Neurology	848	1.57
Ophthalmology	7,317	13.55
Orthopaedics/traumatology	735	1.36
Otolaryngology	688	1.28
Psychiatry	22	0.04
Social Work	6,707	12.42
Nursing	4,737	8.77
Phisical Therapy	8,434	15.62
Speech Therapy	8,057	14.92
Braille instruction and assistive technology	579	1.08
Psychology	5,272	9.77
Psychopedagogy	7,678	14.22
Occupational Therapy	2,914	5.4
Total	53,988	100



● Pediatric Neurology	1.57%
● Ophthalmology	13.55%
● Orthopaedics/traumatology	1.36%
● Otolaryngology	1.28%
● Psychiatry	0.04%
● Social Work	12.42%
● Nursing	8.77%
● Phisical Therapy	15.62%
● Speech Therapy	14.92%
● Braille instruction and assistive technology	1.08%
● Psychology	9.77%
● Psychopedagogy	14.22%
● Occupational Therapy	5.4%

NUMBER OF MEDICAL AND THERAPEUTIC PROCEDURES PERFORMED PER MONTH IN 2019

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
11,829	14,186	12,005	13,623	17,214	13,644	16,697	16,986	15,682	15,765	12,193	4,674	164,498



2017*	2018	2019
205,637	185,657	164,498

*The reduction of the number of procedures in 2018 and 2019 resulted from the social, political and economic crisis in Brazil and in the state of Pernambuco.

HISTORICAL AVERAGE OF THERAPEUTIC AND MEDICAL PROCEDURES PERFORMED FROM 2017 TO 2019





Eye examination

PROJECTS/ PROGRAMS THAT OVERCOME OBSTACLES

Following, we highlight the main children and adult care projects/programs offered by FAV's Specialized Rehabilitation Center "Menina dos Olhos" - CER IV. Old partnerships have been strengthened, and new projects/programs have been started, focusing on the communities in the state of Pernambuco and in more seven states of the North and Northeast of Brazil: Bahia, Alagoas, Sergipe, Paraíba, Ceará, Roraima, and Amapá. The Center has national, state and municipal partnerships (Ministry of Health, Government of the state of Pernambuco, and various municipalities).

In 2019, The Center also had the support of members of the federal and state parliament, the Federal Revenue Service, Hospital de Olhos de Pernambuco (HOPE), Lions Club - Brazil - L-A3, Hospital Esperança, Endogastro, Ótica Avvistare, Óticas Diniz, Cetene, Facepe, Fundação Osvaldo Cruz (FIOCRUZ), Conviver and Prime Infant schools, Ophthalmos - Rohto, Itamaracá Transportes, Carol Levy, and Rafa Mattos, among others.

The international support comes from German institutions such as Christian Blind Mission - CBM, Ministry of Development, Lions International, Deseret Trust, Triangle Park Foundation (RTI), National Institute of Health (NIH), International Lions Foundation, and the United Nations Children's Fund - Unicef.

RETINOPATHY OF PREMATURITY (ROP) PROGRAM

Objectives: Perform weekly ophthalmologic and diagnostic examinations on premature newborns on the maternity ward of Hospital Barão de Lucena (public hospital) and on premature newborns sent to the headquarters of Altino Ventura Foundation at risk of presenting retinopathy of prematurity.

This program also performs laser eye treatment, injections, and retinal surgery in newborns that need such treatments. Additionally, this program offers visual and multiple rehabilitation to newborns with impairments at FAV's CER IV.

Project Duration: 2001 to 2019;

Support: Ministry of Health

PROJECT ACTIVITIES - 2019	GOALS ACHIEVED
Diagnostic Examinations in newborns	587
Visits to maternity wards	61
Number of laser treatment sessions	35
Children undergoing visual or multiple rehabilitation	19

Note: In 2019, due to the lack of partnerships and support for this project, care for newborns in the maternity wards of Cisam and Hospital Agamenon Magalhães was discontinued.



Premature newborn eye examination







Congenital cataract surgery

CONGENITAL CATARACT PROGRAM

Objectives: perform specialized eye care, congenital cataract surgery, and early intervention/rehabilitation for children with congenital cataract;

Project Duration: 2001 to 2019;

Support: Brazil's Ministry of Health, Christian Christian Blind Mission (CBM), and DESERET TRUST.

PROJECT ACTIVITIES - 2019	GOALS ACHIEVED
Medical appointments for children at the Department of Pediatric Ophthalmology	368
Congenital cataract surgeries	30
Children undergoing visual or multiple rehabilitation	72

“ALÉM DO OLHAR” PROGRAM

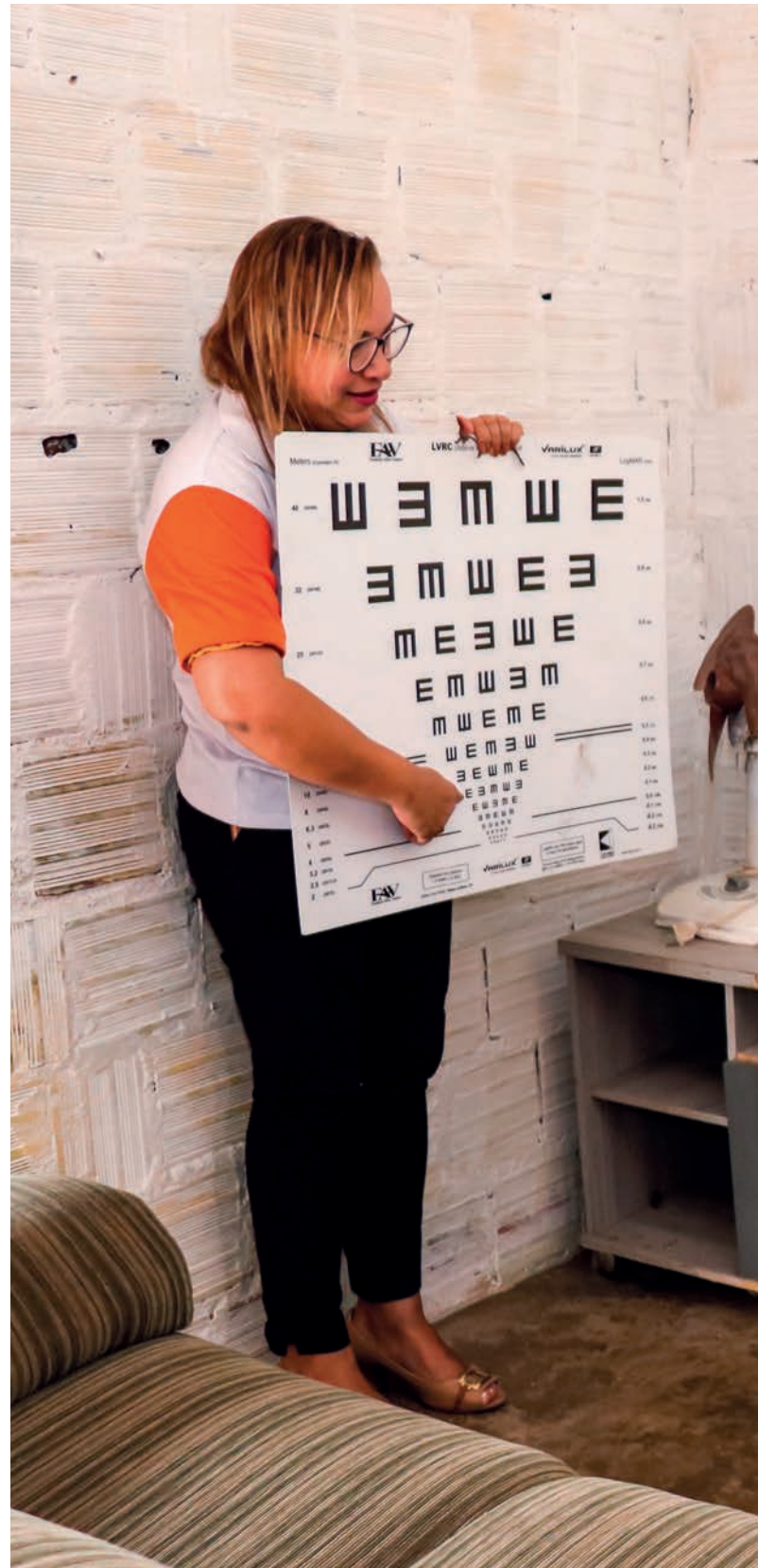
Objectives: Offer specialized low vision exams
This program provides rehabilitation for patients with visual/multiple impairments in their own communities; it favors the family, school, and social inclusion of the person with visual impairment; donates optical and non-optical aids to people with low vision and blindness; trains health and education professionals to work with visual impairment.

Target Population: visually impaired people aged 5 to 18;

Project Duration: 2011 to 2019;

Support: Municipal Health Department - City of Recife

PROJECT ACTIVITIES - 2019	GOALS ACHIEVED
Patients assisted by the project	112
New patients	31
Ophthalmology appointments	373
Supplementary exams	539
Patients that had visual acuity measured in schools	403
Rehabilitation visits at the community	580
Optical and Non-optical aids donated	60
Health and Education Professionals Trained	180



Community-Based Rehabilitation



II INTERNATIONAL LOW VISION PROJECT (CBM/BMZ)

Objective: to promote access to specialized services for visually impaired patients; improve the service infrastructure; train ophthalmologists and therapists to work with visual impairment.

Regional partners in 8 states of the North/Northeast:
State of Amapá - Universidade Federal de Macapá; State of Roraima - Oculistas Associados; State of Alagoas - Apae; State of Bahia - Centro de Reabilitação Especializada Irmã Dulce; State of Ceará - Hospital Geral de Fortaleza;

State of Paraíba - Fundação Centro Integrado de Apoio ao Portador de Deficiência (FUNAD); State of Pernambuco - FAV's Specialized Rehabilitation Center "MENINA DOS OLHOS"; State of Sergipe - Hospital de Olhos de Sergipe;

Support: Ministry of Health, CBM, Ministry of Development of the German government, Lions International Foundation.

Project coordination: Altino Ventura Foundation.



PROJECT ACHIVEMENTS - 2019

State	Patients assisted - general ophthalmology	Patients assisted - specialized ophthalmology (low vision)
Amapá	1,165	322
Roraima	2,931	492
Alagoas	345	292
Bahia	701	432
Ceará	249	233
Paraíba	2,326	750
Pernambuco	9,146	562
Sergipe	1,951	352

Low Vision Workshop





Family participation
in the rehabilitation
of the child with
Congenital Zika
Syndrome.



CONGENITAL ZIKA SYNDROME PROGRAM

Objectives: To promote early diagnosis and follow-up for children suspected of Congenital Zika Syndrome;

Offers weekly multidisciplinary care (ophthalmologists, pediatric neurologists, pediatricians, infectious diseases specialists, Otolaryngologists, speech therapists, nurses, and nursing technicians);

Inter-Institutional Collaboration: Altino Ventura Foundation (FAV), Fundação Oswaldo Cruz (Fiocruz), Universidade Federal de Pernambuco (UFPE), Hospital Universitário Oswaldo Cruz, Hospital Agamenon Magalhães, Hospital Barão de Lucena, and Instituto Ageu Magalhães;

Project Duration: 2016 to 2020;

Total number of children tested from 2016 to 2019: 2,392

In 2019 this project served 804 patients.

ZIKA VIRUS INFECTION MULTIPROFESSIONAL DIAGNOSIS PROJECT



Multi and interdisciplinary treatment for children with Congenital Zika Syndrome

Objectives: To promote early diagnosis and a five-year follow-up for children suspected of Congenital Zika Syndrome;

Inter-Institutional Collaboration: Altino Ventura Foundation (FAV), Fundação Oswaldo Cruz (Fiocruz), Universidade Federal de Pernambuco (UFPE), Hospital Universitário Oswaldo Cruz, Hospital Agamenon Magalhães, Hospital Barão de Lucena, and Instituto Ageu Magalhães;

Offers weekly multidisciplinary care (ophthalmologists, pediatric neurologists, pediatricians, infectious diseases specialists, Otolaryngologists, speech therapists, nurses, and nursing technicians);

Total number of children tested from 2016 to 2019: 2,392

In 2019, the project served 804 patients.

Project Duration: 2016 to 2019.



INTERDISCIPLINARY APPROACH FOR AUTISM DISORDER PROJECT

Objectives: To diagnose and treat children and adolescents with Autism Spectrum Disorder (ASD), offering medical appointments (neurological and psychiatric), multiprofessional appointments, multidisciplinary intervention (psychologists, speech therapists, physical therapists, occupational therapists, psychopedagogues, and music therapists), in addition to a psychoeducational group on empowerment, and a psychosocial support group for parents and caregivers.

Program duration: 2013 - ongoing.

PROJECT ACTIVITIES - 2019	GOALS ACHIEVED
Pediatric psychiatry consultations	53
Pediatric neurology consultations	201
Multidisciplinary Intervention sessions	4,896
Group therapy sessions	207
Psychoeducational group sessions on empowerment for parents and caregivers	96
Psychosocial support group sessions	96
Early Intervention Program	19



Multi and interdisciplinary treatment for children with Autism Spectrum Disorder



Taxpayers from all over the country can now allocate a percentage of their Income Tax to FAV's Satellite Eye Clinic at Serra Talhada, a rural municipality in the state of Pernambuco. And the municipal government and FAV can use these resources to subsidize training for professionals, students, and volunteers from social institutions. The idea is to expand the reach of care and the social inclusion of people with multiple impairments within the state. Legal entities may deduct such allocations up to a limit of 1 percent of the income tax due. Individual taxpayers may deduct up to a limit of 6 percent of the income tax due. The training program will be managed by Camdicast (Municipal Council for the Rights of Children and Adolescents of Serra Talhada).

In a pioneering way, the initiative will invest in education, qualify the local workforce, and offer quality services to patients assisted by Apae (Association of Parents and Friends of people with impairments) and the Rehabilitation Center of Serra Talhada, which serves the low-income population with multiple impairments.

This partnership between FAV and the Municipality of Serra Talhada allows taxpayers throughout Brazil to allocate part of their Income Tax to social projects that will provide new opportunities for children and adolescents, generating a better quality of life.

Professionals and students of medicine, physiotherapy, nursing, nutrition, speech therapy, psychology, several other areas of health will, in a more practical way, be able to learn about early detection and support social inclusion actions for people with impairments - as well as to teach families and caregivers of patients dealing with their children in day-to-day activities. Education is the best weapon that you can use to promote changes in society. Therefore, the people or companies that support this project are joining efforts with FAV to build a more just and solidary country.

This partnership will be a major contribution to the population of Serra Talhada and surrounding municipalities.

For more information on how to make donations visit FAV's website: doefav.com.

“SEMEAR” PROJECT (FAV/RTI/NIH)

Objectives: To monitor the neurodevelopment of 200 children with Congenital Zika Syndrome and how families cope with it.

The program develops activities with a focus on children and families/caregivers. The aim of this project is to understand the main strengths and difficulties of children affected by the Zika virus. Different areas of their neurodevelopment are assessed including sleep, feeding, communication skills, seizures, and motor function. It also assesses the social environment of the parents, and offer them psychosocial support and empowerment to face challenges.

Project Technical Coordination: FAV in collaboration with Research Triangle Park Foundation (RTI).

Execution: FAV

Funding: The American Government, and National Institute of Health (NIH).

Project Duration: 2017 to 2022.

Currently serving 178 children and their families/caregivers.

PROJECT ACTIVITIES - 2019	QUANTITY
Parents and caregivers interviews	567
Donated wheelchairs	31
Donated orthoses	73
Food, diapers and hygiene products donations	1.057
Transportation allowance	491
Sponsored therapists attendance at conferences as presenters	3
Sponsored therapists attendance at conferences	1

“Semear” Project recreational activity for children with Congenital Zika Syndrome and their caregivers.





Donation of educational kits for children with the Congenital Zika Syndrome - "Semear" Project

EDUCATIONAL KIT

Objective: plan and prepare educational kits for therapeutic use to donate to the families of children with Congenital Zika Syndrome and children with other impairments.

This project aims to promote the active participation of family members/caregivers of children with impairments in the preparation of educational kits. These kits are used by the families/caregivers themselves in a domestic environment to favor children's development in their daily routines. The educational kit enables cognitive development through the teaching-learning process of children with developmental

disorders, aged 3 to 6. It has 18 educational items, of which 8 are made by parents, mothers, volunteers, and employees of the Altino Ventura Foundation.

This project aims to develop and donate 200 educational kits for children with Congenital Zika Syndrome, 40 educational kits for children with other impairments, and 10 educational kits to be used by CER IV professionals in the rehabilitation sessions held at the institution.

From June, 2019 to 2020 10 kits were prepared and delivered.

“DOR” PROJECT

Objective: to promote actions to improve the health and well-being of parents/caregivers of people with impairments.

The participants in this program are physical therapists from CER IV who treat parents or caregivers of people with physical impairments, aiming to improve their quality of life.

Activities accomplished: kinesiotherapy, electro, and phototherapy sessions, and guidance about body postures to adopt during daily activities with people with impairments.

Project Duration: February to December 2019
In 2019, a total of 10 parents/caregivers benefited from this program, weekly.



Physical Therapy – “Dor” Project



“MÃES EMPODERADAS” PROJECT

Objective: to educate and empower families/caregivers of people with impairments regarding chronic patients’ care and their routine activities.

Activities: biweekly meetings of the interdisciplinary team at CER IV with mothers/caregivers of people with impairments to promote their education and knowledge to face everyday life challenges.

Project Duration: 2016 to 2020.

In 2019, a total of 49 families/caregivers benefited from this program

“COSTURANDO SONHOS E ARTE VOLUNTÁRIA” PROJECT

Objective: Make handicraft products to generate income and contribute to the sustainability of CER IV.

Activities: weekly, a group of CER IV volunteers meets at the Center and uses donated materials for making artisanal and therapeutic products. The products are sold and help guarantee the sustainability of CER IV initiatives.

Project Duration: 2016 to 2020.



Volunteers and caregivers making handicraft products.



LOW-COST ORTHOSES PROJECT

Objectives: to manufacture and donate low-cost orthoses to favor the practical functioning of the body segments of children with Zika Congenital Syndrome.

This project has the supervision of a physical therapist and an occupational therapist, and has the support of volunteers from the “Costurando Sonhos e Arte Voluntária” Project. They manufacture low-cost orthoses for patients in rehabilitation at CER IV.

Project Duration: 2019 to 2020.

In 2019, a total of 12 children with Congenital Zika Syndrome benefited from this project, receiving orthoses and prostheses.

PROJECT ACTIVITIES - 2019	QUANTITY
Cervical Collars	12
Proprioceptive Vests	7
Finger Extension Orthoses	7
Upper Limb Extension Splint	3

EQUINE-ASSISTED THERAPY PROGRAM

Objective: Provide therapy with an interdisciplinary approach using hippotherapy as a therapeutic and educational method to promote the biopsychosocial development of children with Zika Congenital Syndrome.

This program improves balance, neck, trunk control, posture, and affection and sociability of children with Congenital Zika Syndrome. A partnership with civil society provides the sponsorship that guarantees the sustainability of the project.

Partners: People from civil society who sponsor the children in this project, FAV, RTI, and Equoamar.

Project Duration: 2019 to 2020

<u>PROJECT ACTIVITIES - 2019</u>	<u>QUANTITY</u>
Children in therapy supported by FAV and RTI	10
Children sponsored by individuals from the civil society	3
Children on the waiting list	33



Equine-assisted therapy session for a child with Congenital Zika Syndrome



“JUNTOS” PROJECT

Objective: to train families/caregivers to improve their understanding of the needs of children with Congenital Zika Syndrome; make them active in expanding the project; reach more families of children with neurological disorders in the states of Bahia, Pernambuco, and Rio de Janeiro.

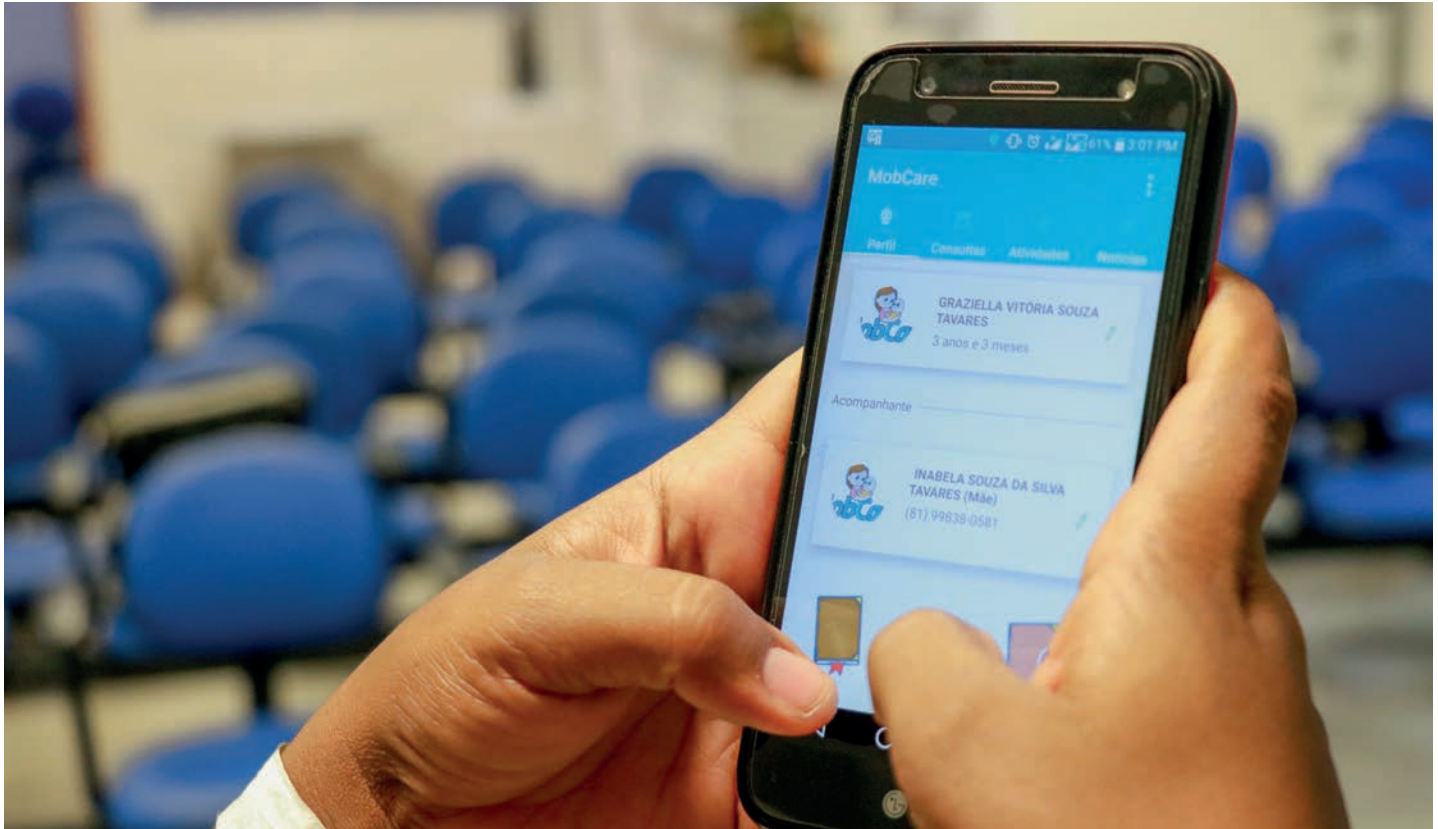
The program aims to create a support network, improving the care that children receive in the community, stimulating the potential of children with Congenital Zika Syndrome who have neurodevelopmental disorders.

Activities: weekly meetings supervised by a pair of facilitators: an early intervention therapist and one of the parents of children with neurodevelopmental disorders. Both work in a harmonious, creative and welcoming partnership. They conduct the sessions, helping to achieve the objectives of each proposed activity. In each session, a specific topic is debated, with the participation of ten families with children with Congenital Zika Syndrome, represented by the father/mother/caregiver.

Execution: Altino Ventura Foundation - FAV, in partnership with the London School of Hygiene and Tropical Medicine (LSHTM), Instituto Fernando Figueira - IFF / Fiocruz-RJ, Universidade Federal da Bahia (Instituto de Saúde Coletiva - ISC), and the Speech Therapy Department of Instituto de Ciências da Saúde - Universidade Federal da Bahia - ICS.

Program Duration: July to November - 2019

PROJECT ACTIVITIES - 2019	QUANTITY
Sessions with groups formed by caregivers, parents, and families of children with neurodevelopmental disorders	10



MobCare project intelligent platform

MOBCARE PROJECT

Objective: use of an intelligent platform to monitor the health of children with Congenital Zika Syndrome. This project uses an intelligent platform - MobCare to collect and store clinical, functional, and ophthalmic diagnostic data from children. It serves as a teaching tool, enabling mothers/caregivers of children to strengthen their visual/global rehabilitation process.

Developed with FAV partners, this application works as a mobile medical record for smartphones and web interfaces. The information is kept in a database that allows the storage and retrieval, in real time, of the history of patients undergoing treatment at FAV’s Specialized Rehabilitation Center.

Project Duration: 2016 to 2020.

Execution: Altino Ventura Foundation - FAV, in collaboration with Centro de Tecnologia Estratégicas do Nordeste (Cetene), and Fundação de Amparo à Ciência e Tecnologia do Estado de Pernambuco (Facepe).

PROJECT ACTIVITIES - 2019

MobCare Launch

Monitoring of old patients

Inclusion of data from 91 medical records in MobCare

Nursing staff Orientation on the baby's diary records

Recording of 4 pilot videos of the educational kit

PARENTS AND CAREGIVERS TRAINING



Families/caregivers training

Technical materials, didactic materials, books, guides for specialized care, videos, and leaflets were prepared for professionals and family members in Brazil and abroad.

TRAINING PARENTS AND CAREGIVERS OF REHABILITATION PATIENTS

TARGET-AUDIENCE	WORKSHOPS	VENUE	PARTNER/SUPPORT
Family/caregivers	Workshop to develop educational materials that will be used to stimulate patients with Congenital Zika Syndrome.	CER/FAV (PE)	RTI
	Training Program for Facilitators	CER/FAV (PE)	“JUNTOS” PROJECT
	Visual and neuropsychomotor materials manufacturing workshop	CER/FAV (PE)	FAV

COMMITMENT TO COMMUNITY

“AMIGOS DA DIVERSIDADE” PROJECT



Integrative, recreational and social responsibility activities carried out in collaboration with the “Amigos da Diversidade” project.



Objective: to promote activities for the well-being and social inclusion of children with Congenital Zika Syndrome in Pernambuco.

“Amigos da Diversidade” project was founded by ophthalmologist Kimble Matos, MD, and his wife, Patrícia Beires, a personal trainer. Over the years, the project has added new partners to implement actions to support and develop the care, well-being, and social inclusion of people with impairments. In the state of Pernambuco, this Project embraced the cause of children with Zika Congenital Syndrome assisted by FAV’s CER IV.

Execution: Altino Ventura Foundation - FAV. The Foundation has partners such as “Amigos da Diversidade” Project, Hotel Armação (in Porto de Galinhas), BodyTech, “Semear” Project, among others.

Project Duration: 2019 to 2020.



PROJECT ACTIVITIES - 2019 GOALS ACHIEVED

Wheelchairs and orthoses donations

Wheelchairs	32
Orthoses	55
Number of Children who benefited from the project*	86

Leisure & fun - Hotel Armação Porto de Galinhas

Children	33
Parentes/caregivers	33



CASE REPORTS

The patient S.V.F.S. arrived at FAV's Specialized Rehabilitation Center - CER IV "Menina dos Olhos" at 6 months of age with a Down syndrome diagnosis. Her Newborn Hearing Screening detected a hearing deficit. As hearing impairment affects many children with this syndrome, our multidisciplinary team performed a complete physical and functional auditory assessment on this child, and diagnosed her with bilateral sensorineural hearing loss. The child then began the adaptation process to the bilateral hearing aid and joined the Early Intervention Program, with speech therapists, focusing on auditory and language stimulation. The patient's progress was quite satisfactory in all social and auditory aspects. At the age of 4, she communicates multimodally: babbles, understands, and executes verbal commands with the body (arms, legs, and head), presenting auditory responses both during use and without using a hearing aid. Her family is very pleased with the progress made.



The patient H.G.N. first came to FAV's Specialized Rehabilitation Center - CER IV "Menina dos Olhos" at the age of 3. He was born one month early. He was diagnosed with congenital cataracts in both eyes at the age of 3. He was then referred to FAV, where he underwent congenital cataract surgery. Then he was included in FAV's CER IV Early Intervention Program, where he underwent individual visual rehabilitation sessions. The child also had language disorders and had had therapy sessions with a speech therapist. When he came to FAV's CER IV, he was not attending school, and his mother was alerted on how important her son's school inclusion was. Currently, the child goes to school, and shows interest in participating in both school activities and therapies. He is a very pleasant child and interacts with therapists. He undergoes rehabilitation with a psychopedagogue (visual and cognitive stimulation) and a speech therapist (language stimulation). His mother is very satisfied with her son's progress. His vision, language, fine motor coordination, and quality of life improved a lot.



Patient J.L.S.S. came to FAV CER IV when she was 7 months old, diagnosed with microcephaly due to Congenital Zika Syndrome (SZC). She was assessed by a multidisciplinary service team and joined the Early Intervention Program. She started neurodevelopmental stimulation treatment with a multidisciplinary team formed by an ophthalmologist, pediatric neurologist, speech therapist, occupational therapist, and physical therapist. The patient had misaligned eyes (strabismus) and underwent corrective surgery by the pediatric ophthalmology team. She showed motor, functional, and skills improvements. After several rehabilitation sessions, when she was 4 years and 3 months old, she showed considerable improvement in verbal and gestural communication. She can speak several words and say goodbye, recognizes toys and people, imitates facial gestures, socially interacts appropriately, and shows interest in objects and games. Other progress includes being able to eat and chew without choking. From a neuropsychomotor point of view, she can sit without support, take the food to her mouth and bite on cookies, fruit, and bread. She can use her right arm better, and crawl and stand with support. The dedication and support of the child's mother, combined with the techniques and commitment of the CER IV multiprofessional team, have been fundamental to this result.



J.D.C.S. was brought to CER IV Menina dos Olhos at 2 months of age, diagnosed with congenital glaucoma with a severe visual deficit. He underwent filtering surgery to stabilize glaucoma in both eyes by FAV's glaucoma department team. After being assessed by the institution's multidisciplinary team, he joined the Early Intervention Program for visual impairment cases, carrying out various visual therapeutic activities weekly. Parents participated in empowerment groups to face the challenges presented by congenital glaucoma and were instructed on the stimulation practiced in the home, in their daily routines, to assist and strengthen the rehabilitation process. After several sessions of visual rehabilitation at the Center, corroborated by daily living activities, the child's mother informed that she already observes a satisfactory response in the improvement of the visual contact in the games and domestic routine. The child shows fixation, tracking, interest in objects and images, great progress of basic visual functions, and interaction with people and toys.

PROFESSIONAL TRAINING

In 2019, several professional training activities were carried out at FAV’s Specialized Rehabilitation Center - CER IV, such as: conferences, courses, symposiums, and workshops.

PROFESSIONAL TRAINING

PROFESSIONALS TRAINED	ACTIVITIES	PARTNER/SUPPORT
Doctors/Ophthalmologists	Ophthalmology Basic and Clinical Science Course	FAV
	Conference: XXII Scientific Meeting	FAV and Hope
	Training: Use of telemedicine in screening for diabetic retinopathy	Rodrigo Donoso, MD (ophthalmologist from Santiago, Chile) and José Thomaz Arenas (electrical engineer and manufacturing business owner)
	Fellows in focus	FAV and Hope
	Grand rounds Unifesp	Unifesp
	Ophthalmology Fellowship Graduation	FAV and Hope
	Keeping an Eye on Diabetes	FAV
Multiprofessional	Libras (Brazilian Sign Language) Course	Department of Education - City of Recife
	II Interdisciplinary Workshop on Congenital Zika Syndrome	Essilor/Latinofarma/Genom
	II International Low Vision Workshop	CBM
	Patient Safety Goals	FAV’s Safety Team
	Coaching Team	
	Professional Training: The Use of Gait Trainers	LOH Medical
Health and Education Professionals	Health and education professionals training for the identification of Low Vision patients	“Além do Olhar” Project

THE FUTURE OF FAV

Throughout its history, the Altino Ventura Foundation - FAV has exercised its mission to understand its patients' needs and offer them the best solutions. Within an ethical and dynamic environment, the institution seeks the best human and technological resources to fight blindness, promote the rehabilitation/habilitation of people with multiple impairments, and foster teaching and scientific research. All of this is based on our main goal: to improve people's living conditions.

Within this context, FAV has a promising future. The use of technological innovations and specialized equipment for comprehensive patient care is already a reality at the Foundation. FAV's permanent goal in managing the services provided is incorporating processes with adequate infrastructure to improve service quality.

The year 2019 was a year of great challenges but also very significant achievements for FAV. The year 2019 was a year of great challenges but also very significant achievements for FAV. And these achievements, such as national and international awards and successful fundraising campaigns, provided the institution with the possibility of pursuing major projects and dreams.

The most audacious of them was the beginning of the construction of the Foundation's own headquarters, in the neighborhood of Iputinga, in Recife. The building will be part of a hospital complex that will include a hospital and diagnostic center, the Specialized Rehabilitation Center "Menina dos Olhos" - CER IV, approximately 20 thousand square meters. It will include the hospital and diagnostic center, the Specialized Rehabilitation Center - CER IV, and the Aquatic Multisensory Physical Therapy Center. Upon completion, the complex will occupy a total of 19,992 square meters of built area.

The headquarters will occupy an area of 14,728 square meters and shall be inaugurated in February 2021. The new structure has six floors, so it will be possible to double its installed capacity, with the possibility of offering 70,000 ophthalmic procedures per month. The new headquarters' facilities are all accessible (eight elevators, equipped bathrooms, and ramps). They include a surgical suite with

16 operating rooms (one of the largest in Recife), more than 30 offices for multidisciplinary care, diagnostic and administrative center, scientific studies and research center and library (with more than five thousand titles), and the Memorial da Fundação, whose collection will include literary works and other materials used by the founding partners of the institution, doctors Altino and Lourdes Ventura, Inácio and Auristela Cavalcanti, Marcelo and Liana Ventura, Ronald and Elaní Cavalcanti.

Another construction project in progress, scheduled to open in October 2020, is FAV's Aquatic and Multisensory Physical Therapy Center. Located next to CER IV, in a built area of 800 square meters, the physical therapy center will have a heated pool, a multisensory integration space, a TheraSuit room, a welcoming space for the patient's family/caregiver, changing rooms, a chapel and several rooms to promote the well-being of people with impairments and their families/caregivers.

But the Foundation will offer even more services to the population. FAV, the City of Serra Talhada, and the State of Pernambuco's Government will inaugurate a Surgical Center at the Satellite Eye Clinic in that municipality. The Unit will be able to perform more than 300 surgeries per month, including cataract and pterygium surgeries.

FAV is always breaking down barriers, making advances in teaching/research areas, and searching for partners to guarantee access and offer specialized services to the population. And we do all this because, together, we will build a more just and supportive country.

Liana Ventura

Vice-President - Altino Ventura Foundation

This is what FAV has achieved, with your help, since 1986:

15.8
million
procedures

8.2
million
exams

7.1
million
consultations

422.5
thousand
surgeries

33.8
thousand
procedures
at the Mobile
Surgical Unit

5.9
thousand
corneal
transplants

600
doctors
trained in Brazil,
Latin America,
and Angola

At CER IV - "Menina dos Olhos" (in 2019)

164
thousand
medical and
therapeutic
procedures

9
thousand
consultations

44
thousand
therapeutic
consultations

7.7
thousand
patients
cared for

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