

HelpMeSee

This is Their
Vision...



...Training
is Ours.



ANNUAL
REPORT 2018



MISSION



Our mission is to train local cataract specialists in Manual Small Incision Cataract Surgery also known as MSICS, in significant numbers, to meet the increasing demand for surgical services in the communities impacted by cataract blindness.

We will support the training, qualification and practice readiness of these cataract specialists in partnership with health institutions, governments and major philanthropic and market ventures.

To achieve this, we developed and are deploying high-fidelity eye surgery simulators, adapted from the successful experience of commercial airline simulators, to provide the resources needed to educate these cataract specialists in large numbers.

Our goal is achieved, when all communities living in austere conditions have access to the essential cataract surgical care they need, that provides the best quality outcomes and is focused on patient safety.

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THANK YOU LETTER *from the* BOARD OF DIRECTORS

Dear Friend,

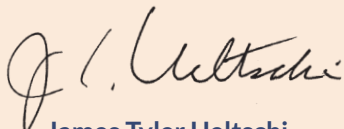
This year, 2018, was a time of great accomplishment in our quest to provide cataract surgery training to the ophthalmologists of the world. The Eye Surgery Simulator drew crowds at the 36th World Ophthalmology Congress. Conference attendees stood in long lines in Barcelona for a 15-minute session on the Simulator. Also, in 2018, we launched our first two training courses, the Sclerocorneal Tunnel Construction Course (STCC) at our Mumbai Learning Development Center and the Ocular Incisions and Dissections Course (OIDC) at the University of Miami's Miller School of Medicine's Gordon Center for Research in Medical Education (GCRME). We also delivered two of our Eye Surgery Simulators to the Eye Hospital of Wenzhou Medical University and certified two instructors from Wenzhou Eye Hospital, to teach the HelpMeSee training courses.

Concerning the latter, our training is innovative and requires specifically trained instructors who must be certified before they can teach. It is designed so that trainee reaches objective performance standards for each surgical task. Trainees must demonstrate objective performance standards evaluated by the instructor through outputs from the Simulator to complete the training. Every aspect of the HelpMeSee training program, from the courseware to the instructional delivery, to the student assessments, all the way through to the

achievement of training objectives, is planned and measured in a standardized curriculum. Becoming a HelpMeSee Certified Instructor is not easy. Instructors must accredit for every course they teach. Yet this is a necessary undertaking if we want to provide our students with an exceptional learning experience they seek.

In 2018, we initiated our *Tunnel Construction Course (TCC) Pilot Assessment of Simulation-Based Training Effectiveness (TCC-PASTE)* study in our Learning Development Center. TCC-PASTE was a comparative study between two groups of STCC trainees. One group was trained to perform the Manual Small Incision Cataract Surgery (MSICS) procedure traditionally, where the other used HelpMeSee simulation-based training. The TCC-PASTE study was designed to test a hypothesis to compare the differences between simulation-based and traditional training similar to tests used in aviation. We expect to see positive results.

Of course, none of this would be possible without our donors and the corporations who support us. We achieved so much in 2018, thanks to your contributions. You have been wonderful companions with us throughout our campaigns. We cannot wait to share the rest of this journey with you in the coming years.



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Chairman & Treasurer



Jacob Mohan Thazhathu
President & CEO



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Member, Board of Directors

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Our SIMULATION-BASED TRAINING PROGRAM

The centerpiece of the HelpMeSee global program to eliminate cataract blindness is a simulation-based training program focused on training specialists in Manual Small Incision Cataract Surgery (MSICS), a high-quality, low-cost procedure that cures cataract blindness. The HelpMeSee training program prepares cataract surgeons to deliver the effective MSICS procedures needed to reduce the backlog of patients waiting for treatment. To make the large-scale training in MSICS possible, HelpMeSee developed the Eye Surgery Simulator, which combines realistic computer graphics and physics modeling with motion controls that send tactile feedback to the hands of the doctor holding the surgery instruments when performing the MSICS procedure on the Simulator. Working with our technology partners and a team of subject matter experts, this Simulator is part of an integrated learning system designed to support the training of tens of thousands of cataract surgeons on MSICS in the coming years.

Simulation-Based Training Benefits:

- Delivery of lifelike simulations that allow for immersive training.
- The rapid transfer of surgery skills to train significant numbers of cataract surgeons.
- Elimination of the risk to live patients while supporting a trainee's ability to achieve a higher level of proficiency before progressing to live surgery.
- Unlimited practice sessions where trainees can repeat the individual steps of the MSICS procedure until these students achieve proficiency.
- Objective measurement and recording of trainees surgery performance data.
- Documentation of trainees' proficiency levels through each stage of training.

Once all aspects of the Simulator and the training programs are complete, HelpMeSee will work with partner surgeons and medical institutions to build additional training centers in addition to the one in Mumbai. This will enable HelpMeSee to scale up the training of cataract surgeons who can then sustainably provide affordable, high-quality surgeries to eliminate cataract blindness in even more developing countries.

GLOBAL OVERVIEW: *Our* ACCOMPLISHMENTS IN SIMULATION-BASED TRAINING

SIMULATORS/LOCATION	FOR TRAINING & DEVELOPMENT
NEW YORK CITY, USA	5
MUMBAI, INDIA	6
WENZHOU, CHINA	2
QUERÉTARO, MEXICO	1
MIAMI, USA	1
BEIJING, CHINA	1
PUNE, INDIA	1
STOCKHOLM, SWEDEN	2
STRASBOURG, FRANCE	2

18 Simulators are ready for deployment depending on availability of funding.

There are 51 HelpMeSee staff members worldwide.



HelpMeSee 2018 TIMELINE

<p>FEBRUARY 9</p> <ul style="list-style-type: none"> Meeting with Lois Brutus, Liberian Ambassador to United States in Washington, DC 	<p>MARCH</p> <ul style="list-style-type: none"> Simulator Demonstration for Jeffrey Groom, Director of Simulation at University of Miami 	<p>MAY</p> <ul style="list-style-type: none"> Demo for Johns Hopkins Wilmer Eye Institute at MSICS Workshop 	<p>MAY-JUNE</p> <ul style="list-style-type: none"> Pilot phase of IODC offered to Bascom Palmer resident, Miami, FL
<p>JUNE 22</p> <ul style="list-style-type: none"> Participated in Committee on Non-Government Organizations (NGOs) at United Nations, N.Y. 	<p>JUNE 16-20</p> <ul style="list-style-type: none"> World Ophthalmology Congress in Barcelona – booth demos and presentations 	<p>JUNE 11</p> <ul style="list-style-type: none"> Participated in “Financing the SDG’s-Breaking the Bottlenecks of Investment, from Policy to Impact” meeting at United Nations, N.Y. 	<p>JUNE 4-9</p> <ul style="list-style-type: none"> Tunnel Construction Course (TCC) Pilot 1 in Mumbai, India
<p>JULY 9-18</p> <ul style="list-style-type: none"> Participated in Economic and Social Council meeting at United Nations, New York Demo and meeting with Nati Marcus, Founder and CEO, Eye from Zion 	<p>JULY 16-18</p> <ul style="list-style-type: none"> Participated in High-Level Political Forum on Sustainable Development meeting at United Nations 	<p>AUGUST</p> <ul style="list-style-type: none"> Pilot B of IODC offered to 2nd Resident at Bascom Palmer Demo and Meeting with Peter Holland, new CEO at IAPB 	<p>AUGUST 10</p> <ul style="list-style-type: none"> Meeting and individual demo simulation for 10 students from Wenzhou Medical University on rotation at SUNY School of Optometry.
<p>OCTOBER</p> <ul style="list-style-type: none"> Launched IODC with Residents from Larkin Hospital, Tulane University, and medical students from University of Miami at Bascom Palmer, Miami, FL 	<p>OCTOBER</p> <ul style="list-style-type: none"> Launched TCC with October 8 – October 2 – TCC Pilot 2 in Mumbai, India 	<p>SEPTEMBER 14</p> <ul style="list-style-type: none"> Demo and meeting at Moorefields Eye Hospital, London 	<p>AUGUST-SEPTEMBER</p> <ul style="list-style-type: none"> Launch of eye surgery elective course to 40 Gordon Center for Research in Medical Education, University of Miami Miller School of Medicine...*
<p>OCTOBER 12-27</p> <ul style="list-style-type: none"> Demo for Weill Cornell College of Medicine faculty members, Charles Cole and Grace Sun STCC offered in Mumbai 	<p>OCTOBER 27-30</p> <ul style="list-style-type: none"> HelpMeSee presentation at American Association of Ophthalmology, McCormick Place, Chicago 	<p>NOVEMBER 1</p> <ul style="list-style-type: none"> Met with Gyan Prakash, Associate Director for International Programs and Global Health at National Eye Institute, 	<p>NOVEMBER 4-7</p> <ul style="list-style-type: none"> HelpMeSee presentation at International CURSO in Ophthalmology, Bascom Palmer Eye Center, University of Miami Medical College
<p>DECEMBER 5-15</p> <ul style="list-style-type: none"> Instructor training for 3 Chinese Instructors begins at the Mumbai Learning Development Center. STCC offered in Mumbai, India 	<p>DECEMBER 3-6</p> <ul style="list-style-type: none"> IODC offered to Resident from Brazil, our first trainee from South America HelpMeSee presentation at Société Africaine Francophone d’Ophthalmologie at ETI headquarters, Togo. 	<p>NOVEMBER 12-17</p> <ul style="list-style-type: none"> STCC offered in Mumbai, India IODC offered to practicing ophthalmologist from Jamaica at Bascom Palmer, Miami, FL, our first trainee from the Caribbean 	<p>NOVEMBER 19</p> <ul style="list-style-type: none"> Webinar on Simulation-Based MSICS Training Strategies for the PAAO

*...students from Weill Cornell Medical College (New York, NY), Albany Medical College (New York State), Tufts University Medical College (Boston, MA), Elbert Einstein Medical College (Bronx, New York), University of Texas McGovern Medical School (Austin, TX), University of Puerto Rico Medical School and San Juan Battista Medical School, both in Puerto Rico.

Practice **MANAGEMENT** **TECHNOLOGIES**

HelpMeSee has developed a suite of tools to support the practices for the Manual Small Incision Cataract Surgery surgeons.

HELPMESSEE REACH APP

The first is the HelpMeSee Reach App. Reach supports the outreach work of community health workers with an app designed to collect patient outreach information on an Android phone. Gathering this information in electronic form alleviates the need for paper processing, preventing delays. The Reach app allows for the scheduling of surgery during the initial outreach visit and facilitates the scheduling of follow-up appointments.

Reach is icon-based and can be used by anyone regardless of language spoken or level of literacy. Data is entered as text or recorded audio. Reach stores the GPS coordinates of patients for relocation when formal addresses and street names are lacking. The Reach app does not require a consistent cell connection for use. Data can be collected and later transmitted to the HelpMeSee Surgical Reporting System when mobile reception becomes available at a later time.

HelpMeSee intends to further develop this application for future use as well as collaborate with other vendors to enhance the Reach application's capabilities.



HELPMESSEE SURGICAL REPORTING SYSTEM (SRS)

The HelpMeSee Surgical Reporting System (SRS) is a Google Chrome application developed for use within the clinic or treatment premises as a HelpMeSee Electronic Medical Record (EMR). The SRS receives the initial patient data from the Reach app. This SRS record includes the patients' names, photos, diagnoses, as well as treatment specifics, such as the date and time of the cataract procedure and the performing surgeon's name. The SRS currently holds the records of the over 250,000 surgeries supported by HelpMeSee. Anonymized information within the SRS can be made available for research analysis to understand overall health trends in the treated populations.



HELPMESSEE SURGICAL KIT

As surgical equipment may be hard to come by in the remote locations of many cataract campaigns, the HelpMeSee Surgical Kit is a one one-time use set of surgical instruments for a single Manual Small Incision Cataract Surgery. The kits are pre-sterilized and are therefore suited for areas where the electricity supply for sanitizing equipment may be inconsistent.

Among the 59 items contained in the surgical kit are blades, forceps, speculums, syringes, needles and the intraocular lens. Ancillary items also in the kit are sterile gloves, surgery gowns, operating room drapery, eye shields, gauze. There are sub-kits for the management of complications with additional tools. In 2018, 2,800 surgical kits were delivered to our partners in Cameroon, Togo and Madagascar.



PUBLIC *Support* PROFILE

HelpMeSee has a program for regularly collecting donations, including the solicitation of corporate gifts and grants, as well as appeals from individuals. These contributions are in the form of recurring donations, single gifts or planned giving bequests.

2018 CALENDAR YEAR CONTRIBUTIONS ARE AS FOLLOWS:



COURSES

Delivered

In 2018 HelpMeSee launched its two training programs.

STCC TRAINING

The Sclerocorneal Tunnel Construction Course (STCC) is the first in the HelpMeSee Manual Small Incision Cataract Surgery (MSICS) series of courses focusing on the sophisticated tunnel construction segment of MSICS.

The STCC course is ideally suited for ophthalmology residents or fellows, practicing ophthalmologists and surgeons who want to improve their tunnel construction skills. STCC is also useful for surgeons wishing to transfer from the older Extra-Capsular Cataract Extraction (ECCE) surgery technique to MSICS.

The STCC course uses the HelpMeSee Manual Small Incision Cataract Surgery eBook for the curriculum's theoretical knowledge. Each student has facilitated discussions with their HelpMeSee Certified Instructor as well as practice sessions on the Simulator. STCC instruction currently takes place in the Mumbai Learning Development Center in India. Each course session runs for six consecutive days. Upon completion of the STCC course, trainees return to their parent organization for live surgery mentoring until proficient in the full MSICS procedure.

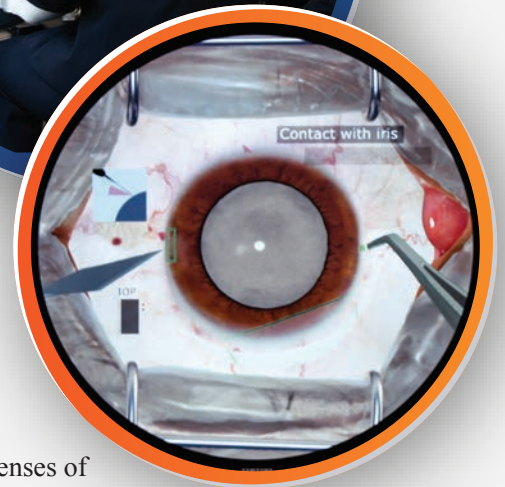
OIDC TRAINING

Students and practitioners of ophthalmology, wishing to analyze and improve the mechanics of their surgical incision and dissection skills, enroll in the HelpMeSee simulation-based Ocular Incisions and Dissections Course (OIDC). OIDC extends the capabilities of the HelpMeSee Simulator for training beyond MSICS. OIDC consists of facilitated classroom discussions and guided sessions on the Simulator.

OIDC is a one-day course taking place in the Mumbai Learning Development Center and the New York global headquarters.

Proceeds from OIDC are used for training subsidies to fund the expenses of MSICS surgeons treating cataract patients in economically disadvantaged areas.

For more information on our training operations, visit: <https://training.helpmesees.org>

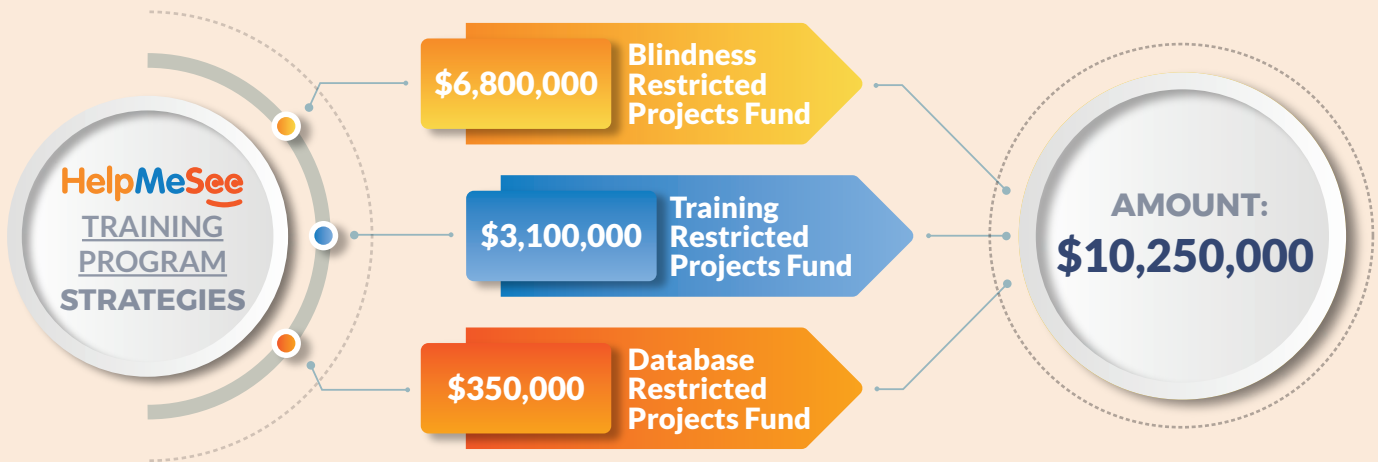


TRAINING

Program Project

FUNDING

As part of an award agreement, HelpMeSee received \$10.25 million for project funds, With the allocation of these monies into three categories that comply with the original intentions of donors while supporting the HelpMeSee cataract surgery training mission.”



BLINDNESS RESTRICTED PROJECT FUND

This first of these project funds, the Blindness Restricted Projects Fund at \$6.8 million, is subdivided into two further types of use. The first, \$3.8 million, is for adult cataract surgeries that, wherever possible, will be part of the live surgery Manual Small Incision Cataract Surgery (MSICS) training sessions. These surgeries are for patients who live within United Nations designated economically developing areas. The remaining \$3 million of the Blindness Restricted Projects Fund is for the completion of the Eye Surgery Simulator, for the enhancement of existing and development of new courseware, and to support research studies that validate the effectiveness of the HelpMeSee training programs.

TRAINING RESTRICTED PROJECTS FUND

The second fund, the Training Restricted Projects Fund at \$3.1 million, can be used to pay for the training of students or currently practicing ophthalmologists, taking any of the HelpMeSee courses. The trainees who are recipients of these benefits must live in a United Nations designated economically developing area.

DATABASE RESTRICTED PROJECTS FUND

The last of the funds, the Database Restricted Projects Fund of \$350,000, is for the enhancement of the HelpMeSee surgery delivery and training management data collection systems.

HelpMeSee:

A Training and **RESEARCH ORGANIZATION**

Across the world, untreated cataracts lead to visual impairment in 52.6 million people and blindness in another 12.6. While treating everyone, and reducing these numbers to zero, is a worthwhile endeavor, the achievement is a long-term goal. Most experts agree that training to address the shortage of ophthalmologists in the areas where they are needed most, and improving the outcomes of cataract surgery procedures through research is the key to addressing this health crisis of cataract blindness.

TRAINING: HELPMESSEE MANUAL SMALL INCISION CATARACT SURGERY EBOOK

To assist in these training efforts, HelpMeSee published the HelpMeSee Manual Small Incision Cataract Surgery (MSICS) eBook in 2018. Available on Android tablet computers, the eBook provides a detailed description of the Manual Small Incision Cataract Surgery steps in 48 chapters. There are 1,100 pages, 1,000 images and 150 videos in the eBook. The eBook is available to all HelpMeSee trainees or any individual interested in MSICS.



RESEARCH: TUNNEL CONSTRUCTION COURSE (TCC) PILOT ASSESSMENT OF SIMULATION-BASED TRAINING EFFECTIVENESS (TCC-PASTE)

In addition to the launching of the eBook, the Sclerocorneal Tunnel Construction Course (STCC) and the Ocular Incisions and Dissections Course (OIDC), HelpMeSee initiated a large-scale research study entitled *Tunnel Construction Course (TCC) Pilot Assessment of Simulation-Based Training Effectiveness (TCC-PASTE)* in Mumbai with our partner the LV Prasad Eye Institute. This study evaluated the ongoing improvement of the Simulator to the MSICS training process. Results should be available in late 2019.





FINANCIALS 2018

HelpMeSee has a program for regularly soliciting contributions in connection with the organization's projects from various sources including local and international corporations, foundations, non-government organizations, governments and private institutions. These activities include the solicitation of corporate gifts and grants, as well as appeals from individuals in the form of recurring donations, single gifts or planned giving bequests.

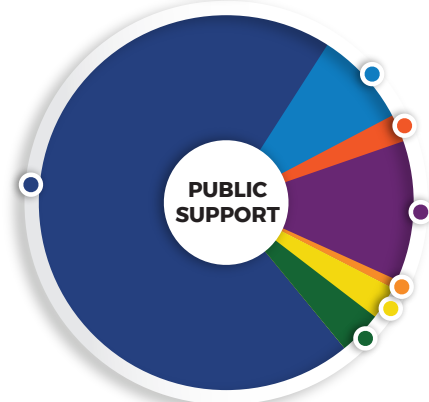
2018 FINANCIAL POSITION

● Total Assets	\$ 17,466,724
● Net Assets	\$ 3,093,631
● Total Liabilities	\$ 14,373,093



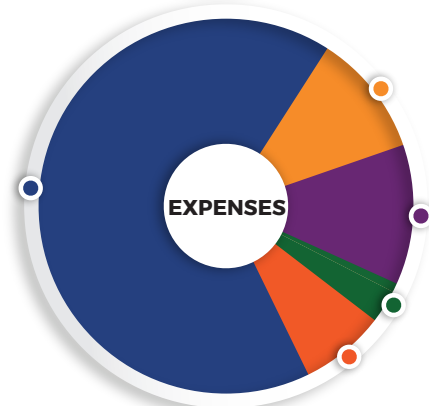
PUBLIC SUPPORT

● Individuals	\$ 812,568
● Corporations	30,469
● Foundations	15,440,922
● Bequests	360,000
● In-Kind Contributions	62,108
● Investment Income	40,286
● Other Income	741
	<u>\$ 16,747,094</u>



EXPENSES

● Program Services: Training & Practice Readiness	\$ 8,773,395
● Program Services: Public Awareness	630,037
● Management & General Expenses	1,442,261
● Litigation Expenses	1,844,338
● Fundraising	1,166,761
	<u>\$ 13,856,792</u>



OTHER CHANGES

Litigation Settlement	\$ 10,073,193
Foreign Currency Loss	(117,944)
	<u>\$ 9,955,249</u>

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Eye Surgery Simulator
and Simulation Based Training Program

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