

THE SICKLE CELL FOUNDATION OF GEORGIA

EDUCATE. ENGAGE. EMPOWER.

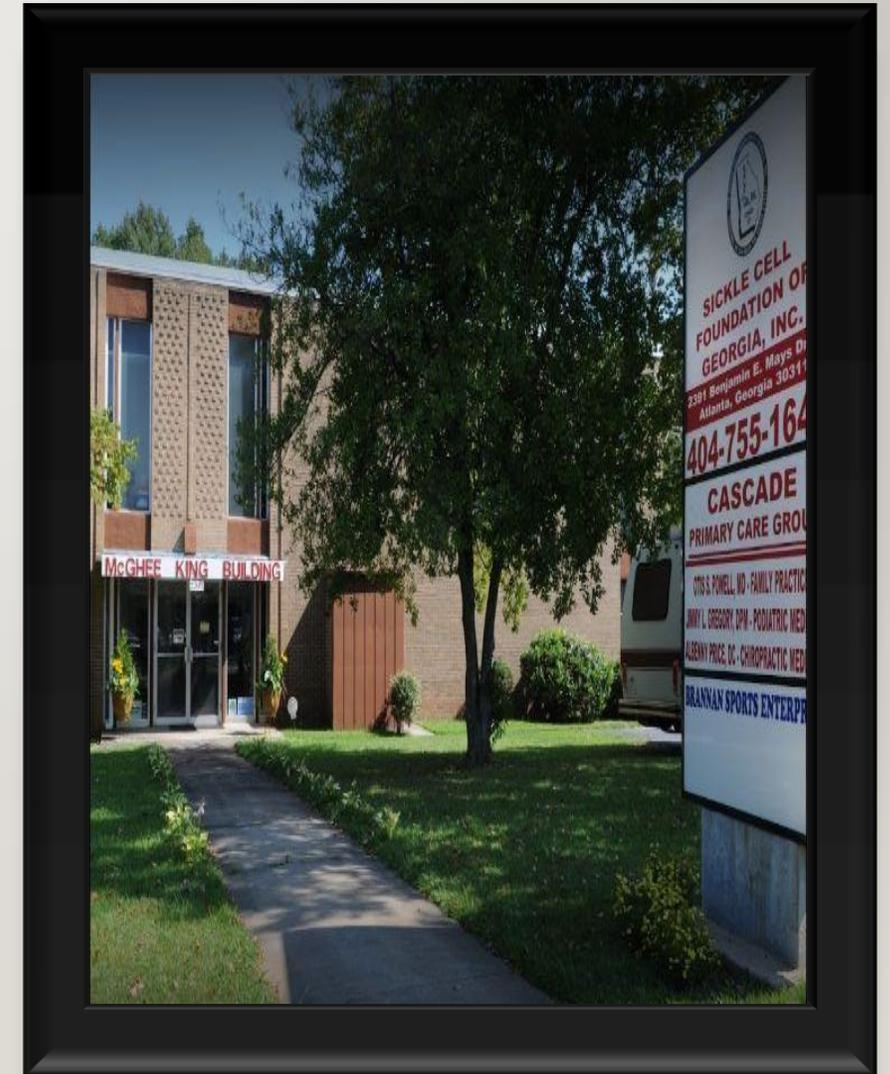


THE SICKLE CELL FOUNDATION OF GEORGIA (SCFG)

“A NEW PROGRAM TO HELP ELIGIBLE SICKLE CELL DISEASE PATIENTS APPLY FOR A MEDICAL CANNABIS CARD.”

The **Sickle Cell Foundation of Georgia, Inc.** was established in 1971 and is a 501(c)(3) serving citizens in the State of Georgia. Sickle Cell Foundation of Georgia (SCFG) is one of the oldest sickle cell-focused institutions in the nation. The foundation has provided sickle cell testing in public schools in 82 Georgia counties and has educated over 300,000 residents in 46 years of service. The Foundation delivers direct services and provides testing, education, and program management for a series of public grants administered in service to populations living with Sickle Cell Disease (SCD), and educates the overall community regarding health, wellness, and patient care.

In 2015, SCFG was very instrumental in its advocacy role in the passage of **HB1, ‘Haleigh’s Hope Act’**. There are presently 29 states with legislation that include Medical Cannabis. Georgia is the only state in the country with legislation that includes medical cannabis for severe pain in sickle cell disease clients.



THE THREE TO FIVE YEAR PLAN

Goal: Be seen as the “Gold Standard” in the United States for prevention, maintenance, and treatment of Sickle Cell disease.

Strategies: Go to Market

- Promoting the first-ever Sickle Cell Registry entitled “Get Connected”
- Lobby the State Legislature
 - to better understand the disease
 - the need for increased specific spending
 - new innovative treatments
- Engage and activate the Georgia medical community
- Outreach with the Media & Community Partners

THE SCFG FRAMEWORK FOR SUCCESS

- Increasing the number of educated and screened individuals in medically underserved areas with high rates of Sickle Cell Disease (SCD) by 75% by the end of the decade
 - Decrease the rate of new diagnosis of SCD by 7%
- Increase the number of patients getting treatment for SCD by 65% by 2018
 - Decrease patient reliance on emergency rooms and urgent care facilities as primary care by 25%
- Via early intervention, decrease the number of patients with chronic co-morbidities (renal failure, liver disease, hypertension, etc.) by 20%
 - Decrease Medicaid costs for treating Sickle Cell co-morbidities by 15% per year.
- Decrease the number of Georgians born with SDC by at least 5% per year.
- Enroll 500 Georgians in the Sickle Cell Registry & increase that by 5% per year.

MARKET ANALYSIS

SICKLE CELL ANEMIA IN THE UNITED STATES

- Sickle cell disease affects millions of people worldwide. Sickle cell disease is the most common inherited blood disorder in the United States, affecting 70,000 to 80,000 Americans. The disease is estimated to occur in 1 in 500 African Americans, 1 in 1,000 to 1,400 Hispanic Americans and 1 in 725 East Indians and 3.6 in 10,000 Native Americans.
- Sickle cell disease is an inherited disorder that causes the red blood cells to be abnormally shaped and get stuck inside the blood vessels, making it hard to deliver oxygen throughout the body. This causes intense pain and can lead to infection and severe complications like organ damage and stroke.
- Sickle cell disease is the most common genetic disorder in the United States. About 100,000 Americans are thought to be living with sickle cell disease, and every year another 1,000 babies are born with the disease. “That compares to about 50,000 people living with cystic fibrosis,” says Dr. Clinton H. Joiner, director of the division of hematology at Cincinnati Children’s Hospital Medical Center. “It’s much more common than people realize.” Worldwide it is thought to affect more than 500,000 babies a year.
- Sickle cell disease is a genetic disorder that is passed down from parent to child. To have the disease, both sets of parents must carry what is known as the sickle cell trait. If both parents have this trait, there is a 25 percent chance that their child will have sickle cell disease. In the United States, as many as two million people carry this trait.

INDUSTRY ANALYSIS, PER YEAR

COUNTRIES WITH THE HIGHEST NUMBER OF SICKLE CELL BIRTHS PER YEAR

Rank	Country	Sickle Cell Births/Year
1	Nigeria	91,011
2	Democratic Republic Of Congo	39,743
3	Tanzania	11,877
4	Uganda	10,877
5	Angola	9,017
6	Cameroon	7,172
7	Zambia	6,039
8	Ghana	5,815
9	Guinea	5,402
10	Niger	5,310

PRIMARY OBJECTIVE

The primary objective of this campaign is to provide the funds needed to support research & protocol development of treatments via oils and any other approved delivery systems derived from Medical Marijuana (MMJ) to Sickle Cell Disease Patients.

The purpose of the human clinical trial is to research and develop protocols for the usage of medical cannabis and its derivatives to alleviate the severe pains associated with Sickle Cell Disease.

The study will determine the specific dosage needed of cannabinoids that will stay within the range of an ideal therapeutic window.



MEDICAL CANNABIS EDUCATION AND OUTREACH

- Work with the state to better educate the public about medical cannabis, especially as a treatment for SCD symptoms.
- Provide confirmation diagnosis and referrals to patients.
- Respond to provider questions and host web-based educational opportunities.
- As funding allows, SCFG will provide expert, web-based education and training for patients and providers, respectively.

BENEFITS TO MEDICAL COMMUNITY

Clinical Trials on Cannabinoids Delivery System shall alleviate symptoms of sickle cell disease

- Clinical Trials on Cannabinoids Delivery System shall relieve symptoms of:
 - 18 Diseases listed in laws
 - Lack of appetite in cancer and AIDs patients
 - Neuropathy experience chronic pain
 - Spasticity from patients suffering multiple sclerosis or spinal cord injury
 - Stroke, head injuries, neurodegenerative disorders, dystopia and malignant tumors
- Relieve meant complete elimination or any clinically or quantitatively measurable reduction in the patient's symptoms

STATES THAT LEGALIZED MEDICAL CANNABIS SHOW DECREASED OPIOID USE

- In the United States, total prescription drug spending in Medicare for both program and enrollee spending fell by \$165 million per year in 2013 after the implementation of several state medical cannabis laws. The most common reported drug substitution was opioids (32-36% of total substitutions), followed by benzodiazepines and antidepressants.
- CBD is another cannabinoid that is known for its therapeutic effects. Evidence suggests CBD can reduce drug cravings and opioid withdrawal symptoms, which suggests CBD could be an effective treatment to opioid addiction.
- According to the Center for Disease Control and Prevention, nearly 100 people are dying a day due to abusive Opioid usage.

CLINICAL TRIALS RESEARCH & PROTOCOL DEVELOPMENT

- the objective of trial
- primary and secondary end-point
- method of collecting data
- sample to be included
- sample size with scientific justification
- method of handling data
- statistical methods and assumptions

STATISTICAL SAMPLE SIZE DETERMINATION

Phase 1 (Local)

- Clinical Trials on Cannabinoids Delivery System
- 20 PATIENTS (10 MALES, 10 FEMALES ; AGES 18-40)
- Timeline 6-months
- Phase 1 will demonstrate that there is a viable platform for the performance of trials that will support our thesis regarding pain management for sickle cell patients through the use of medical marijuana.

Phase 2 (Nationwide)

- 500 PATIENTS (250 MALES, 250 FEMALES ; AGES 18-40)

RESEARCH & CLINICAL TRIAL MANAGEMENT

- **Biotech Research Laboratories Inc.** founded in 1986 is an experienced biomedical research and management firm that is rapidly growing in the areas of sustainable communities and medical marijuana.
- In today's challenging world of R&D, no single company has the capability or resources to go it alone. That's why through collaborative partnerships, on a global basis, is critical to success, as well as the foundation to support the research community in identifying and developing the long-term relationships that provide access to the best the world has to offer.
- Biotech, led by Dr. Jacob Savage, consists of teams of scientists, researchers, educators, strategic planners and developers whose primary goal is to conduct rigorous scientific research, provide education, disseminate research and manage clinical trials to determine the specific dosing and therapeutic range for the medicinal use of cannabis.

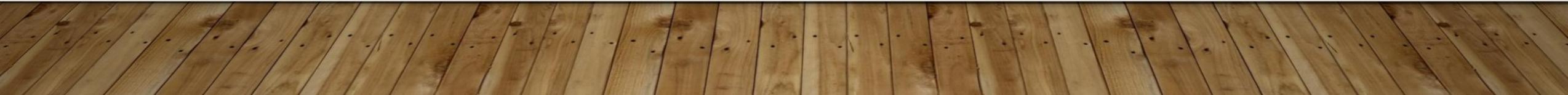
SUBJECT MATTER EXPERTS

- **Phoenix Tears** has partnered with Biotech Research Laboratories in collaboration with the Sickle Cell Foundation of Georgia and is the subject matter expert for the development and application of pain management protocols, through the use of medical marijuana.
- Phoenix Tears was incorporated as a closely held Limited Liability Company in Nevada, to bring the more than three decades of research and advocacy work performed by the Phoenix Tears Foundation.
- Under the Phoenix Tears Foundation, we have successfully treated directly and indirectly more than one hundred thousand people suffering from a number of conditions associated with cancer, MS, Alzheimer's, Diabetes, varying Skin Diseases, and Pain Management. All of the work we have done under the Foundation has been provided free to our community.
- The Phoenix Tears Foundation is a non profit organization formed under the Laws of Colorado and began over three decades ago with the work performed by our Founder Janet Sweeney.

MEDICAL RESEARCH EXPERTS

- Biotech in collaboration with **The Atlanta Center for Medical Research (ACMR)**, is one of the largest and most respected medical research institutions in the country.
- ACMR's 150,000-square-foot, state-of-the-art, open-source research facility is a game changer for the medical research world. ACMR's practices set the standard for medical research, facilitating the availability of safe and effective medicine to people everywhere.
- ACMR has been a national leader in research studies for more than three decades. The organization's innovations and expertise have led the entire industry to higher standards of precision and safety.

SCFG FUNDRAISING CAMPAIGN GOAL & BUDGETARY NEEDS



GET INVOLVED AND SUPPORT THE SCFG

“WORKING TOGETHER WORKS”

- Create GoFundMe.com Charity Fundraising Campaign for Humanity Efforts
- Charity Sponsorship Levels and Benefits
- Develop Corporate Sponsorships & Contributors

Sickle Cell Foundation of Georgia

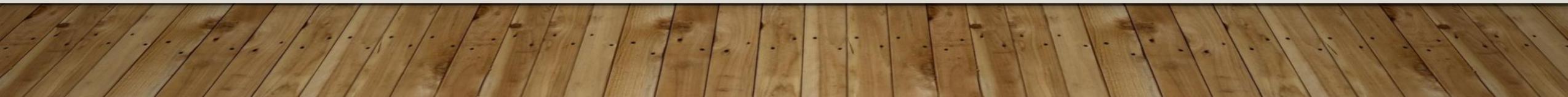
Engage, Educate, Energize...

PHASE I BUDGET AND USE

Clinical Trials Research & Protocol Development, Testing & Management by Biotech Research Labs Inc.

- \$25,000 for set-up, intake and screening (Marketing, Education & Outreach)
- \$100,000 for Research & Development
- \$28,000 for Biostatistician, IRB FDA Protocol Writer & Approval fees
- \$35,000 for Director of Medical Research
- \$37,000 for Indirect Cost
- \$25,000 for Fees & Commissions (Cost associated with campaign)

Total Start-up Budget: \$250,000



QUESTIONS?

