

# The Mosquito Screen Project

Life-saving insecticide treated screens for people in Colombia Village of La Tebaida



*Aedes Aegypti/Albopictus*, the common mosquito in Colombia.

It's bite is the **only** way to get dengue



# There is **no** effective vaccine against dengue

*Aedes Aegyti or Albopictus*

**Only bites during the day,**

So living inside a Rotary screened home means **NO BITE** from an infected

mosquitoes and

**NO DENGUE**

Rotary treated screens saves LIVES



## Dengue

With more than one-third of the world's population living in areas at risk for infection, dengue virus is a leading cause of illness and death in the tropics and subtropics. As many as 400 million people are infected yearly. Dengue is caused by any one of four related viruses transmitted by mosquitoes. There are not yet any vaccines to prevent infection with dengue virus and the most effective protective measures are those that avoid mosquito bites. When infected, early recognition and prompt supportive treatment can substantially lower the risk of medical complications and death.

Dengue has emerged as a worldwide problem only since the 1950s. Although dengue rarely occurs in the continental United States, it is endemic in Puerto Rico and in many popular tourist destinations in Latin America, Southeast Asia and the Pacific islands

CDC – Center for Disease Control

Infections transmitted by the Aedes mosquito have spread significantly in Colombia, including dengue fever, chikungunya and Zika virus.

The Instituto Nacional de Salud, or the Colombia National Institutes of Health released the following data on the disease.

## ***Dengue fever***

Through epidemiological week 44 of 2015, the Public Health Surveillance System (SIVIGILA) has reported 78,123 dengue cases; 77,086 cases (98.7%) of dengue and 1037 cases (1.3%) severe dengue. 51% of severe dengue cases occurred in children under 14 years.

An average of 1,775 dengue cases a week have been reported.

81% of dengue cases came from 12 states with Valle del Cauca and Santander seeing the most. Sixty-one dengue fatalities have been reported with Tolima department reporting the most (18).

Photos from the village of La Tebaida

Map of the area





Arial of the area



Typical home with free pass windows, doors



Cluster of homes share this building



Here is the block view



Discussions of the scope of the project with the Secretary of Health Dr. Gloria I, Jaramillo



At Quindío Government Center with the Rotary Coordinator Dr. Astrid Jiménez



The project was approved at the Armenia Rotary Club meeting.



Visit to the local Hospital with Director of Promotion and Prevention Director RN Fernanda Vargas. Drs Jaime Salazar and Astrid Jiménez from the Armenia Rotary Club.





Director manages a database of candidates for the allocation of the screens



Some homes are already equipped with glass and would not qualify



## **Budget thoughts**

Objective is to run a Pilot Project as a District supported Grant to fight the *Aedes aegypti* and *Aedes albopictus* - the mosquitos that spread arboviruses (dengue, chikungunya & zika viruses) using insecticide treated curtains.

Financing as of April 2016

Rotary Clubs in Kalamazoo area – \$2,000 Rotary 6360 District - \$2,000

Rotary Club of Armenia \$1,000 District in Colombia \$1,000

Total - \$4,000

The Rotary Club of Armenia proposes to include 600 households in this pilot study. Part of the budget should be reserved for transportation and delivery of the curtains.

\$24,000 will buy curtains for around 600 households: Each house has 4 windows & 2 doors.

Using 2014 Best Net pricing:

4 x \$3.70 windows = \$14.80 2 x \$3.55 doors = \$7.10

Total = \$21.90 per house. At present a rough estimate of \$40.00/ household is more possible.

We spoke about the need for a Public Health work on the ground to reduce mosquito-breeding sights but it is clear that, at least for the next months as Zika virus is big news, local governments all over Latin America, including Colombia, will undertake both public education and some spraying. What they won't do is deploy impregnated curtains so that's where I advocate spending the Pilot Project money.

During the Pilot Project we can assess the need and the opportunity for participation in these programs that are essentially part of the work of the local Ministerio de Salud.

If we are able to raise more money, this budget could be the template for making the project proportionately bigger. It is fair to say to potential donors that each \$20 US protects a house and its inhabitants

This information was kindly provided by,

Steve Baker, Rotary Club of Key Biscayne Florida

La Tebaida Q., September 03, 2015

Doctor **JUAN DIEGO FORERO**  
President Rotary Club Armenia. Quindío Colombia

We would like to express to you the kindest regards from our community La Tebaida and our admiration and sincere congratulations for your work, through the Rotary Club of Armenia, that helps this area.

We know your altruistic spirit and that you are a benefactor of noble causes in favor of the more needy, and that is why we respectfully contact you with the assurance that you will listen to us.

The town of La Tebaida has a population of 40,000 and a high percentage of them are a vulnerable population. This is the reason why we are addressing you for your collaboration through the Rotary Club and the international organization, to allow us to acquire the tools to prevent diseases caused by mosquito bites (mosquito tents among others). Also needed are the availability of vitamins and supplements for this population or any other thing you consider related.

The information released by our consulting planning office, shows that the selected population for this project will be the following: See attached Table.

We ask for your generosity to decide participate in this Project and collaborate to bring some well-being, happiness and prosperity to the people in our town.

We can assure you that your donation will be well received and compensated with the satisfaction to see dreams and hopes of hundreds of children and elderly that would like to have a better world.

For more information you can contact us at the following: Address: Carrera 6 Nro. 12-27 CAM

Telephones: 7543651 Cellular: 3126987980 Email: despachoalcalde@latebaida-quindio.gov.co

Thanks in advance for your attention to this request and looking forward to a positive response. Respectfully,

**JOSE ANCIZAR QUINTERO QUINTERO**  
Mayor La Tebaida

Neiborghood	Population < 10years	> 60 years
Hato Canaguay	58	61
Nueva Tebaida 1and 2	1008	780
Cantarito	780	525
Ciudad Jardin	305	250
Villa Maria	81	50
Oasis de Vida	120	56
La Alhambra	196	279
PortalAnapoima	127	128
La Estacion	145	190
Total	2820	2319

## Support Team

Dra. Gloria Inés Jaramillo-

Secretary of Health – Department Quindío

RN María Fernanda Vargas Duque-

Coordinator - Promotion and Prevention of La Tebaida Hospital, Quindío

Dr. Jaime Hernando Salazar-

Armenia Rotary Club- Member- Commissioner La Tebaida Project

Dr. Astrid Jiménez C.

La Tebaida Project- Coordinator- Armenia Rotary Club

Dr. Juan Diego Forero Patiño-

President 2015-2016 -Armenia Rotary Club

Jose Ancízar Quintero Quintero Mayor of La Tebaida

Juan Eugenio Alzate Duque  
President 2016-2017 -Armenia Rotary

## GLOBAL GRANT FUNDING EXAMPLE

1. Contributions from Various Clubs	\$ 10,000
2. District Fund Match (\$1:\$1)	\$ 10,000
3. World Fund Foundation Match	
✓ Match of Club Funds (\$.50:\$1)	\$ 5,000
✓ Match of District Funds (\$1:\$1)	\$ <u>10,000</u>
<b>Total Funding</b>	<b>\$ 35,000</b>