



Let's Break Dengue Together

Break Dengue is a partner and catalyst in enabling and implementing integrated solutions towards the WHO 2020 dengue objectives.

Break Dengue's mission is to **connect, share and develop innovative solutions** to dengue fever.

Vector control, surveillance, drugs, diagnostics and vaccines all hold exciting potential but none can solve the problem alone. **We need an integrated approach.**



SANOFI PASTEUR 



RECOGNITION FOR AN INNOVATIVE APPROACH



Selected as **WHO Global eHealth Report** case study in 2016



Winner, **"Most impactful emerging or global initiative"** at eyeforpharma 2015



Winner, the **best use of social media in Healthcare**, Shorty Awards, 2014

WHY WE SHOULD ALL CARE ABOUT DENGUE

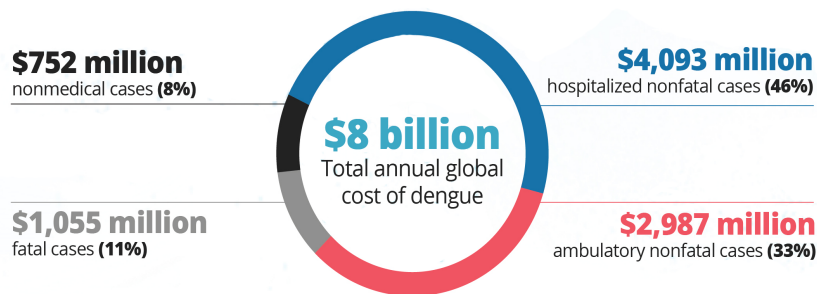


The World Health Organization [WHO] estimates that about 40% of the world's population is at risk of being infected with dengue. All age groups are at risk.

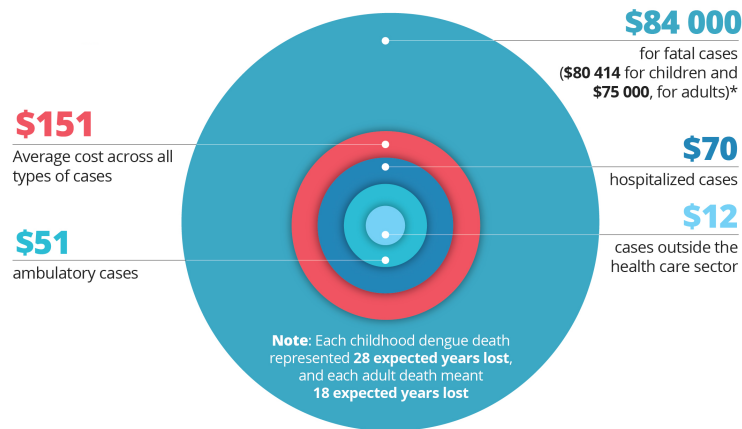
**ABOUT 2.5% OF THOSE INFECTED BY SEVERE DENGUE DIE,
AND THERE IS NO CURE FOR THE INFECTION.**

WHY WE SHOULD ALL CARE ABOUT DENGUE

Global estimated cost of Dengue



Estimated cost per individual dengue case



ABOUT DENGUE TRACK

DENGUE TRACK – A SELF LEARNING DIGITAL SURVEILLANCE PROGRAM



BREAK DENGUE TRACK

Surveillance

Data source

Data capturing

Intelligence

Informed Dengue programs

Official data

corr a

Search queries

corr b

Twitter mentions

corr c

Crowd surveillance

corr d

Rapid diagnostic

corr e

$$\text{whole corr} > \sum \text{corr(a,e)}$$



Participatory disease surveillance

Validation and/or complementing

Health authorities

Civil society



Hi

We would like to use your location

We see you connect from Grenoble, France

Dengue is not currently present in your country but there may be imported cases

Thank you for choosing one of the following answers:

That's right, I'm interested in learning more about dengue

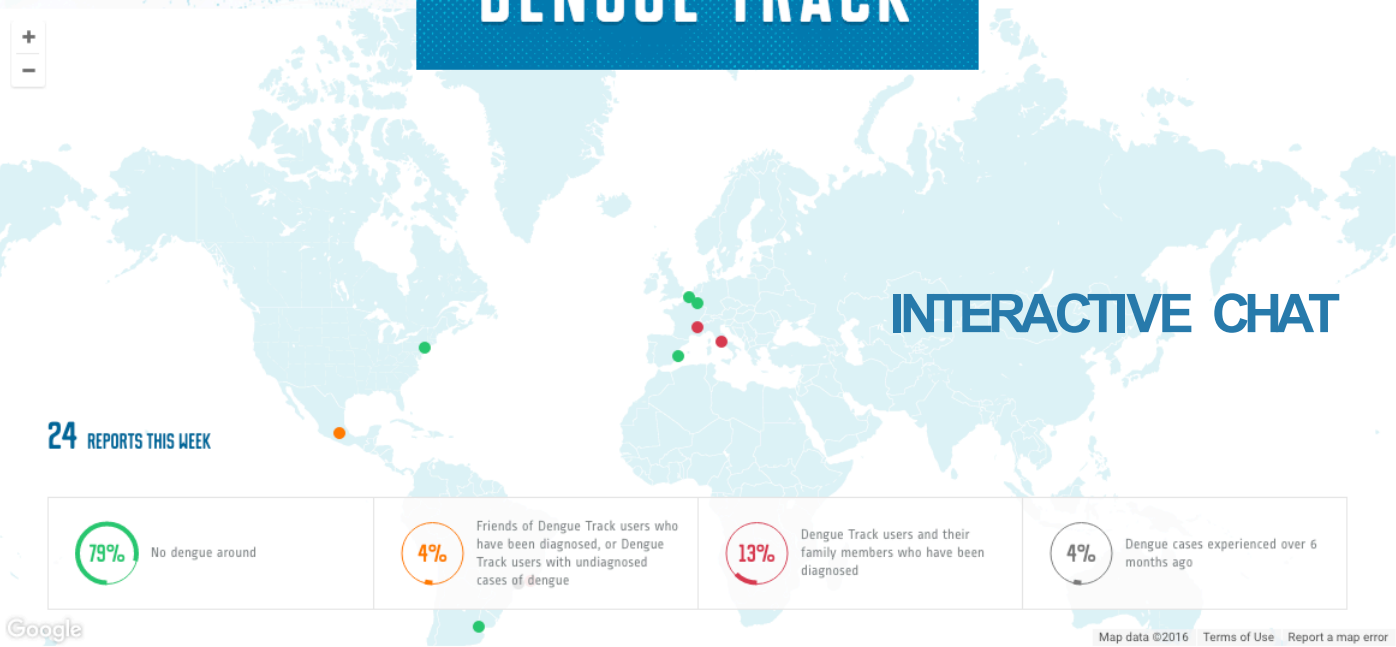
That's right, and I'm planning on traveling to a region that has endemic dengue

Actually there is dengue in my area

I'm not in Grenoble, France



DENGUE TRACK



INTERACTIVE CHAT

24 REPORTS THIS WEEK



JOIN US

Hi

We would like to use your location

We see you connect from Grenoble, France

Dengue is not currently present in your country but there may be imported cases

That's right, and I'm planning on traveling to a region that has endemic dengue

If you're traveling to a region with dengue, it's smart to know the risk. We will now redirect you to a page where you can find the "Dengue travel" toolkit, which explains how to protect yourself against dengue, and you can also refer to Dengue Tracker map to see if anyone is reporting dengue in the area you are traveling to

You will be redirected in 2 seconds.



24 REPORTS THIS WEEK



Close

Did you know that?

Your experience about dengue will help us to track the disease around the world.

How? Your experience will be used on Dengue Track, a collaborative tool to track dengue around the world.

Continue to help us by subscribing to Dengue Track. You can update your experience later, and be alerted to dengue in your area.

Your email has been encoded.

Thanks. You're a tracker now.



24 REPORTS THIS WEEK



JOIN

RISK OF DENGUE IN TROPICAL COUNTRIES

But the risk of dengue is not only limited to tropical countries. The number of reported dengue cases is increasing.

The disease spreads to new areas, and explosive outbreaks are occurring. There have been cases reported in the U.S.

A THREAT FOR THOSE WHO TRAVEL

Among travellers returning from low- and middle-income countries, dengue is the second most diagnosed cause of fever after malaria.

PREVENTION FOR

No chemoprophylaxis can prevent dengue.

If you travel to endemic areas you are at risk of contracting dengue.

Risk increases with long duration of travel and possible diseases such as during epidemics or the rainy season.

Travellers going to the tropics are advised to avoid mosquito bites and use mosquito repellents.

Use insect repellents following instructions on the label.

KEEP DENGUE AWAY

The main method to control or prevent the transmission of dengue virus is to combat vector mosquitoes through:



ANYONE CAN BE INFECTED WITH THE DENGUE VIRUS

50%

About half of the world's population is now at risk because they live in dengue endemic regions.

100

More than 100 countries are endemic but dengue cases are reported in several non-endemic countries.

?

The global incidence of dengue has grown dramatically in recent decades.

?

The actual numbers of dengue cases remains underreported and many cases are misclassified.

390

One recent estimate indicates 390 million dengue infections per year.

100

Dengue is a mosquito-borne viral infection.

100

Dengue is found in tropical and sub-tropical climates worldwide, mostly in urban and semi-urban areas.

100

The infection causes flu-like illness, and occasionally develops into a potentially lethal complication.

100

There is no specific treatment for dengue / severe dengue.

1%

But early detection and access to proper medical care lowers fatality rates below 1%.

100

Dengue prevention and control depends on effective vector control measures.

100

A vaccine is available in some countries for those who are 9-45 years old living in endemic areas.

DENGUE IS DIFFICULT TO RECOGNIZE

Dengue is difficult to recognize because the early symptoms of fever, headache, body aches are not specific.

Dengue may be misdiagnosed as other illnesses : influenza, typhoid, Zika, malaria ...

75% of dengue infections are asymptomatic

20% are mild – moderate dengue fever

5% are severe dengue : 500,000 people with severe dengue require hospitalization each year and 2.5% of people will die

SYMPTOMS



High fever



Severe headache



Pain behind eyes



Skin rashes



Muscle and joint pains



Vomiting

WARNING SIGNS OF PROGRESSION TO SEVERE DENGUE

TARGETED AND INFORMATIVE TOOLKITS

DENGUE TRACK



24 REPORTS THIS WEEK

Google

Map data ©2016 Google, INEGI, ORION-ME Terms of Use



No dengue around



Friends of Dengue Track users who have been diagnosed, or Dengue Track users with undiagnosed cases of dengue



Dengue Track users and their family members who have been diagnosed



Dengue cases experienced over 6 months ago

JOIN US

DYNAMIC DENGUE MAP

WE ARE HELPING TO BUILD THE ULTIMATE DENGUE TRACKING SYSTEM – AND WE NEED YOU.

You can help us to reduce the impact of dengue fever by playing your part in a global effort to map the disease. By telling us about dengue cases near you, we can paint a true picture of dengue fever and [predict future outbreaks](#).

COMPLETE AND SCALABLE MODEL

**Any
geographic
scope**

Country

Regional

Community

**Any
stakeholder**

Health authorities

Civil society / NGOs

Citizens

Community on and
off-line

**Any
channel
type**

SMS

Mobile apps

Mobile site

Custom apps

**Any
channel
topic**

Disease specific
(Zika, dengue, etc.)

Diagnostic based
(e.g. Healthmap)

Health

Travel information

News

6 REASONS TRACK DENGUE IS VERY INNOVATIVE

1

Actionable push-pull surveillance

Combines close to real time data and the ability to push it to the right audience at the right time

2

Integrates multiple sources

to deliver an overall correlation higher than the sum of individual ones

3

Integrates all stakeholders

and allows them to take an active role. Authorities and grassroots NGOs can use it at local level

4

Value for audience

This is not about “likes” or “RT”, this is actionable surveillance data and actual information and value for citizens

5

Scalable model

This is a pilot to be extended

- to all digital channels: sms, apps etc
- to other diseases eg. Zika

6

Self-learning model

Each time we add data and submit it to the audience, the audience react, endorse it or not. The system permanently improve accuracy

JOIN THE FIGHT

BREAK DENGUE CALLS ON YOU AS A PARTNER

Help us generate visibility for Dengue Track and use it to support your work, **bring real value** to your audiences, and so we can better track the disease

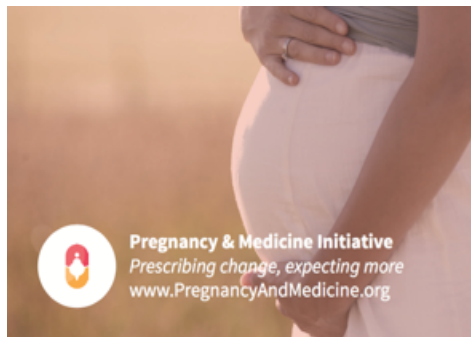
What you can do:

- Use Dengue Track and tell us about cases near you
- Embed Dengue Track and the Dengue Track Map on your website
- Share Dengue Track on your channels and among your networks
- Design Dengue Track specific-activities around your events and happenings
- Recruit Dengue Trackers through contests, games etc.
- Contact us for custom needs or ideas

INSTALL DENGUE TRACK ON YOUR WEBSITE



ABOUT THE SYNERGIST



The Synergist brings together stakeholders that can make a difference. These include corporations, academics, other experts, medical professionals, patients and NGOs.

Our main role is to act as incubator: we identify the right people and organisations, bring them together, provide overall strategic direction and co-ordination.

Thank You

CONTACT US

Break Dengue is an open platform to all: scientists, health-care providers, patients and relatives, journalists, industry and anyone concerned about the problem of dengue.

Dengue is the fastest-growing vector-borne infection with estimated 390 million infections every year.

Share an idea, learn more about Break Dengue, work with us or support us

bdteam@thesynergist.org