

# Eliminating Disease Worldwide



Richard Garfein  
Associate Professor , Medicine

## CURRENT RESEARCH

### Using Mobile Technology to Eradicate Tuberculosis

Tuberculosis (TB) is the 2nd greatest killer worldwide and infects over one-third of the world's population. In 2012, 8.6 million people fell ill with tuberculosis and 1.3 million died from tuberculosis. Fortunately, tuberculosis is treatable but challenging due to the rigorous nature of the prescribed medication regimen. Fortunately Dr. Richard Garfein's research involves identifying risk factors to develop interventions to prevent infectious disease. His development of a mobile phone based intervention improves patient adherence to anti-TB treatment.

- "Video DOT" (VDOT) - is a pilot-tested system whereby patients use mobile phones to record and send videos of themselves taking their medications. These are uploaded to a confidential database and remotely reviewed by healthcare professionals.
- VDOT has been proven highly successful in our National Institutes of Health (NIH) endorsed experiments in San Diego, California and Tijuana, Mexico
- We can reduce the global burden of TB by using VDOT we can treat more patients effectively

Dr. Richard Garfein's research show that many patients do not comply with the 6 month antibiotic-treatment plan requiring strict adherence to daily prescribed doses of medication. His mobile technology, VDOT can treat more patients with TB effectively helping to eradicate the disease worldwide.

[Read More at benefunder.com/](http://benefunder.com/)

## AFFILIATION

-  University of California, San Diego

## EDUCATION

- PhD in Epidemiology 1997 .John Hopkins University
- MPH in Epidemiology 1989 .San Diego State University

## AWARDS

- Nominee, Charles C. Shepard Science Award, 2010
- Nominee, Charles C. Shepard Science Award, 2008
- US Public Health Service, 2003
- US Public Health Service, 2001
- Centers for Disease Control and Prevention Honor Award, 2001

## RESEARCH AREAS

Life Science, Electronics / Sensors, IOT, Devices, Data, Drug Development

## FUNDING REQUEST

Your donations support providers nationwide and around the world providing access to this groundbreaking technology so we can change the lives of millions of people suffering from Tuberculosis.