



## Sustainable Health Initiative

# **Global Health Design Challenge**

**Are you a creative problem solver passionate about global health?  
Do you have an idea to radically improve lives?**

Study the design challenge cases and develop an innovative business solution to the selected complex global health challenges. Open to all student, residents and trainees at Yale University.

***Deadline: October 6, 2019***

Design challenge winners will receive:

- **\$5,000** in seed funding
- **Mentoring** as you cultivate your innovation
- Support to apply for the **SHI accelerator in Bangalore, India** and up to **\$70,000** in investment funding

Check out the application here:

[https://yalesurvey.ca1.qualtrics.com/jfe/form/SV\\_b9rTlppXLMXVRZj](https://yalesurvey.ca1.qualtrics.com/jfe/form/SV_b9rTlppXLMXVRZj)

RSVP to attend the pitches and information session here:

<https://shidesignchallenge.eventbrite.com>

For more info, e-mail: [fatema.basrai@yale.edu](mailto:fatema.basrai@yale.edu)

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*The Sustainable Health Initiative is a global health care business accelerator for early stage companies striving to impact the world through innovative social, health and environmental solutions.*



### **Innovation Challenge: *On Time* Patient Identification**

There are many health conditions that are significantly easier to address with earlier diagnosis and treatment. For example, cervical cancer is the second most common form of cancer for women in developing countries, even though effective screening interventions exist. There are 266,000 deaths from cervical cancer worldwide in 2012, and 87 percent occurred in less developed regions. An estimated 445,000 new cases of cervical cancer occur in developing countries each year. Cervical cancer can be prevented using a visual inspection and cryotherapy technique (VIA). VIA can be administered by a trained nurse, requires only basic supplies – a speculum, cotton swabs, and vinegar – and offers an ultra-cheap diagnosis on the spot.

There are many other conditions that have proven treatments. Yet identifying patients for early intervention in urban and rural settings is a barrier. Can you create a way to identify patients and connect them to early treatment solutions?

### **Innovation Challenge: Tuberculosis**

According to the Revised National Tuberculosis Control Programme, India has been engaged in Tuberculosis control activities for more than 50 years. Yet TB continues to be India's most severe health crisis. Malnutrition, diabetes, indoor air pollution, delayed detection and treatment failure are a few factors that contribute to the problem. Additionally, the dense and growing urban population enables the spread of TB across geographies and economic strata. Although India has made significant improvements in responding to this crisis there continues to be a need for new innovations to improve delays in diagnosis, treatment failure and spread of drug resistant strains.

What innovative solutions can you think of to address delays in diagnosis, treatment failure, and the spread of drug resistant strains?

### **Innovation Challenge: Patient Perspective**

Almost 75 percent of healthcare expenditure is an out-of-pocket expense for households in India. The private sector accounts for most of the health expenditures in the country, the state-run public health sector still is the only option for much of the rural and peri-urban areas of the country. While the public sector offers healthcare at low or no cost, it is perceived as being unreliable, of indifferent quality and generally is not the first choice of most patients if private care is within their financial means. The real or perceived lack of a qualified medical staff within the public sector deters health-seeking behavior of the population.

What innovative solutions can you think of to help shift the public engagement with, perception or awareness of state-run health facilities?

### **Innovation Challenge: You Decide**

If you have an innovative idea that addresses a complex health challenge in the area of infectious and vector-borne diseases, non-communicable diseases, maternal, child, and newborn health, water and sanitation, or urban health and the environment we encourage you to apply! Share a detailed description of the challenge with your application.