GENENTECH'S INNOVATIVE PILOTS TO ALTER CERVICAL CANCER'S TRAJECTORY



Genentech Overview

Bringing new ideas and partners together for novel solutions in an effort to eradicate a preventable disease:

Altering cervical cancer's trajectory.



Science

Over 30 years of developing ground-breaking medicines that treat patients with lifethreatening conditions.

Patients

Dedicated to improving patient outcomes.

People

A culture that promotes breakthroughs in medicine and improving the healthcare system.

Cervical cancer is largely preventable with regular screening



95% of cervical cancer could be prevented or effectively cured with regular screening

American Cancer Society



30% of U.S. women do not receive regular screenings according to the CDC

CENTERS FOR DISEASE CONTROL AND PREVENTION

HOW MANY WOMEN ARE AFFECTED?



12,360 diagnosed annually in the United States

4,020 result in deat

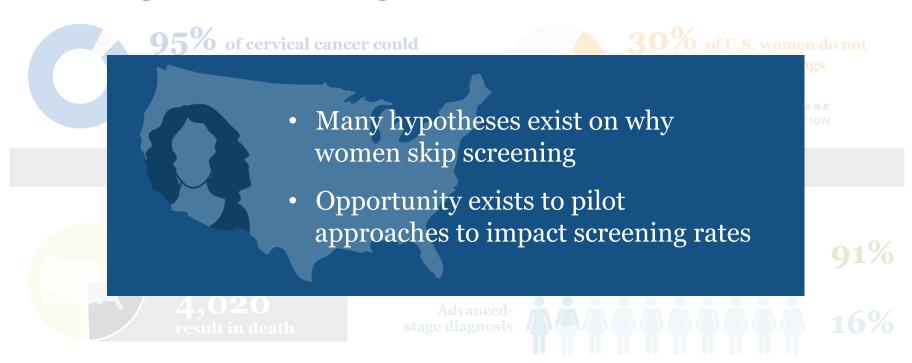
Early-stage diagnosis



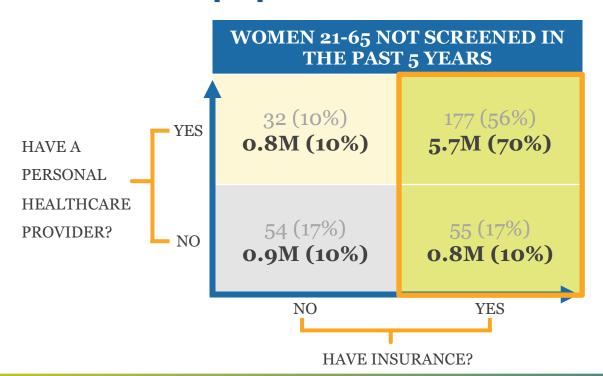
5 year survival rates:



Cervical cancer is largely preventable with regular screening



Genentech's research uncovered two at-risk populations



We engaged the **Under- engaged** population
in order to **reach the most women**

and

the **Under-privileged**population due to the **low preventative health performance.**

Genentech committed to altering cervical cancer's trajectory

Genentech
partnered
with SGO*
and CDC**
to prioritize
intervention
pilots



Be a Catalyst for Innovation

Foster Health Technology Innovation to drive awareness and encourage novel solutions

Patient Screening Education

Provide educational materials to spur conversations between patients and providers

Identify At-Risk Patients

Leverage Big Data to identify risk factors for missing screening

3 efforts were launched to alter cervical cancer's trajectory



Quest: Innovation Challenge

Finding New Approaches to Prevent Cervical Cancer



Cervical Cancer Screening Education

Awareness Campaign in Primary Care Physician Offices



Competition

Identifying Women At Risk for skipping Cervical Cancer Screening

3 pilot efforts were launched to alter cervical cancer's trajectory



Quest: Innovation Challenge

Finding New Approaches to Prevent Cervical Cancer

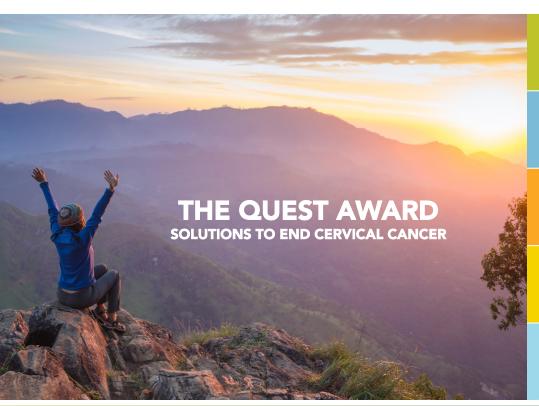


Cervical Cancer Screening Education

Awareness Campaign in Primary Care Physician Offices



The Quest Award – Open Innovation Competition



A global competition to identify innovative solutions in cervical cancer prevention, screening and education

49 novel solutions submitted to improve cervical cancer outcomes

Contest Judges included physicians, venture capitalists, patient advocates, Genentech leaders

Competition Winner awarded \$50,000 grand prize and 1 year mentoring

Learn more at www.thequestaward.com



Patient voice represented by Master of Ceremonies and Cervical Cancer survivor **Tamika Felder.**



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2,700+ 390+ 50+

+ likes + shares comments



4,000+ 770+ likes **retweets/**shares

Quest Award Winner



49 Submissions

20 Judges

5 Finalists

Finalists







Thanks. Made an appointment."

"This message can save the life of a woman."



3 pilot efforts were launched to alter cervical cancer's trajectory



Quest: Innovation Challenge

Finding New Approaches to Prevent Cervical Cancer



Cervical Cancer Screening Education

Awareness Campaign in Primary Care Physician Offices



Patient Engagement and Education Campaign



Center for Disease Control and Genentech partnered to develop a simple screening education campaign

1,660 Primary Care Physician offices with 3,200 MDs

Patient Engagement and Education Campaign

PATIENT IMPACT



25% of Patients¹

Reported that reading the material prompted them to ask their healthcare provider about screening

Validated via HCPCS screening code directional lift

DIALOGUE INCREASED



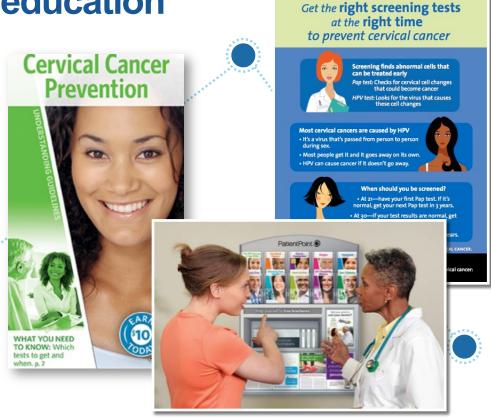
76% of Health Care Professionals²

Reported a patient initiated a discussion based on Education materials Pilot impact: Screening education

hypotheses confirmed

Simple language can connect the dots between screening and cancer prevention.

Education can effectively trigger a change in patient behavior.



3 pilot efforts were launched to alter cervical cancer's trajectory



Quest: Innovation Challenge

Finding New Approaches to Prevent Cervical Cancer



Cervical Cancer Screening Education

Awareness Campaign in Primary Care Physician Offices



Big Data Competition: Identify risk factors

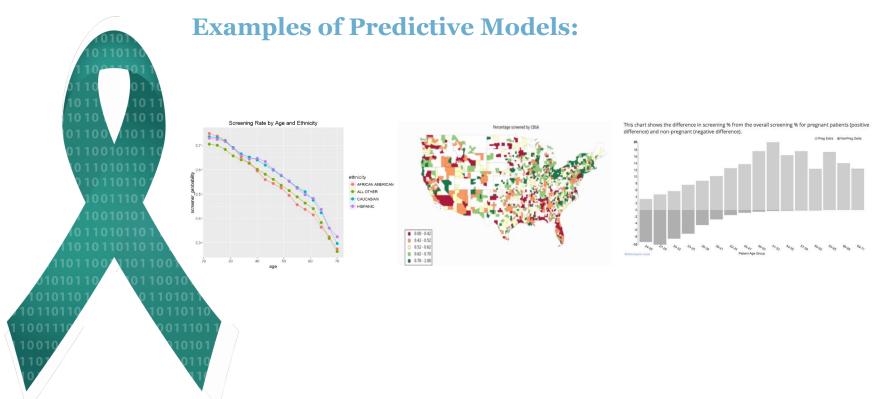
Data Science competition to predict risk of non-screening behavior

1,000 top international data scientists submitted predictive models

Anonymized Data for over 3M women analyzed

Predictive Models to best identify women at risk

Big Data Competition: Identify risk factors



Pilot impact: Data analysis provided new insights to predict non-screening factors

Key predictive factors for non-screening:

- No prior pregnancy or other OB/GYN procedures
- Women 40 and older
- No contact with OB/GYN, NP, Nurse Midwife
- Live in US Southeast
- Acute disease
- Special needs
- Caucasian and African American (less likely to be screened than Hispanics)

Novel insights can help identify women most atrisk for missing screenings

Words that are associated with lower screening rates



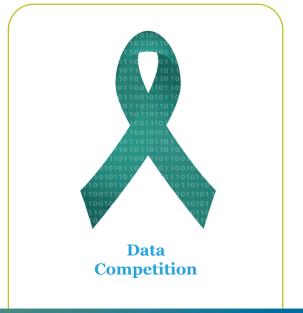
3 efforts with one goal: alter cervical cancer's trajectory

learn more at www.gene.com/fightingcervicalcancer



Quest: Innovation Challenge





THANK YOU

FOR MORE INFORMATION CONTACT:
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