CrowdMed

CrowdMed harnesses the wisdom of crowds to help solve the world's most difficult medical cases online.
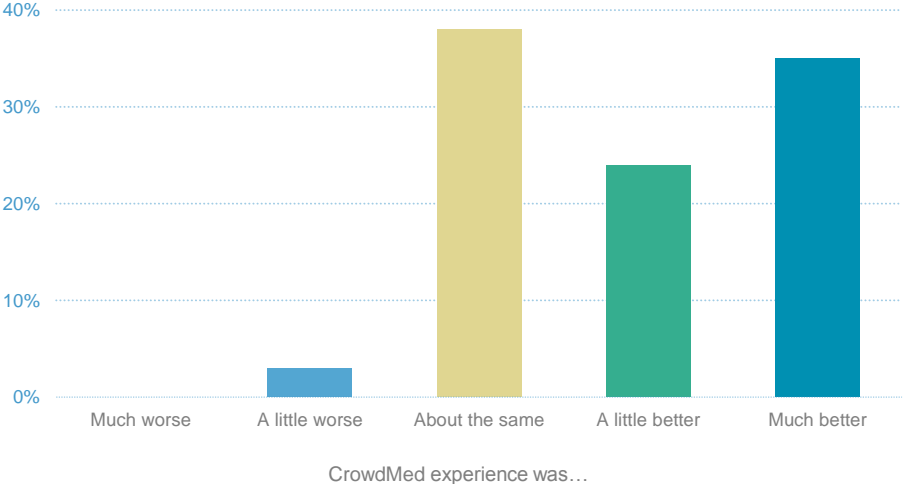
CROWDMED VS NIH

CrowdMed resolves 6x as many cases per month as the NIH UDP, at about 1/60th the cost per case

CROWDMED VS TRADITIONAL MEDICAL SYSTEM

CrowdMed experience was…

Stanford
MEDICINE

Baylor
College of
Medicine

JAMA®
The Journal of the American Medical Association

ROCK
HEAL+H

PMWC
PERSONALIZED MEDICINE WORLD CONFERENCE
United Kingdom 2015

TEDMED

Julietta suffered for more than 20 years, seeing dozens of doctors who could do nothing to help with her aching lower back pain, frequent leg swelling, and buildup of fluids so extreme that it sometimes caused the skin on her legs to split open. Her condition got so bad, she was totally bedridden for two years. After submitting her case on CrowdMed, dozens of Medical Detectives collaborated on solving it, reaching a consensus diagnosis of "iliac vein compression syndrome" in less than 2 weeks. Julietta took her final CrowdMed report to her physician, who confirmed the diagnosis and prescribed a treatment suggested by CrowdMed detectives.

Patient "Julietta"

" Before CrowdMed, doctors either ignored me or ridiculed any suggestion or input I might offer. But in just 2 weeks, I had a miracle solution from CrowdMed. Following surgery, my edema is gone and all the pain that kept me bound to my bed is gone! You changed my life forever! I LOVE CrowdMed—you saved my life. "

Imagine burping 150 times a day, every day, for nearly four years. Sanora "felt like a freak" because of her condition, no one could figure out what was causing it. She'd had endoscopies, a laryngoscopy, pH testing, an abdomen ultrasound, tried acupuncture, biofeedback, hypnosis, homeopathy, craniosacral therapy, various medications, an elimination diet, speech pathology, psychotherapy and more…. all to no avail. She submitted her case on CrowdMed,,and in one month Medical Detectives reached consensus that she had a little-known condition called "supragastric belching". The detectives suggested that she make an appointment with a local speech pathologist, who treated her with a technique suggested on the site, and after just one day her condition was cured.

Patient "Sanora"

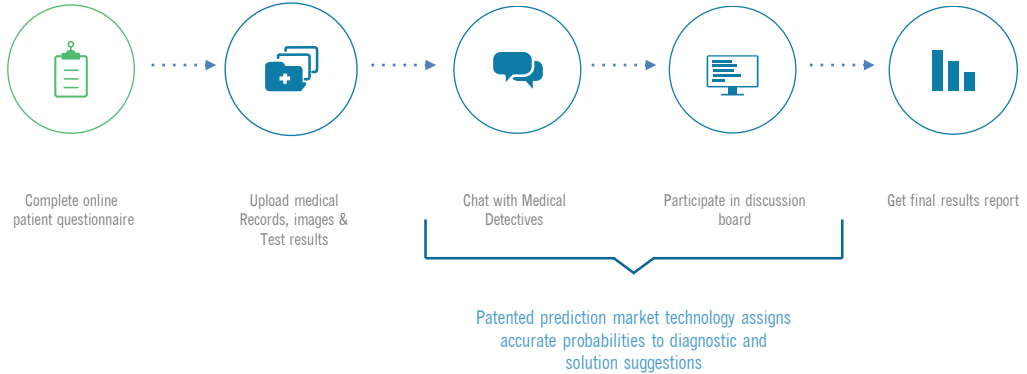" After 3 1/2 years, I FINALLY have a diagnosis. I was very pleased and heartened by the personal interest taken in my case. After seeing numerous - about 20 - health care professionals, none of whom helped me (most of whom said they'd never seen a case like mine), CrowdMed detectives were the only ones who determined what I have. I am VERY GRATEFUL. I am SO grateful… I will be forever in their debt for helping me… THANK YOU!!! "

PATIENT EXPERIENCE

Complete online
patient questionnaire

Upload medical
Records, images &
Test results

Chat with Medical
Detectives

Participate in discussion
board

Get final results report

Patented prediction market technology assigns
accurate probabilities to diagnostic and
solution suggestions

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Last Saved at 1:31pm

ⓘ This entire process generally takes 20 to 60 minutes.
Your work is automatically saved every few seconds.
If you need any assistance, chat with CrowdMed Support or call us
at +1 (866) 843-5774 (toll free in the US).

Case Info

What is the patient's gender?

Female ▼

To protect the patient's identity,
we've created this nickname for your case:

"Abbie"

Choose a new nickname

What do you need?

Diagnosis & Solution ❓   Solution Only ❓
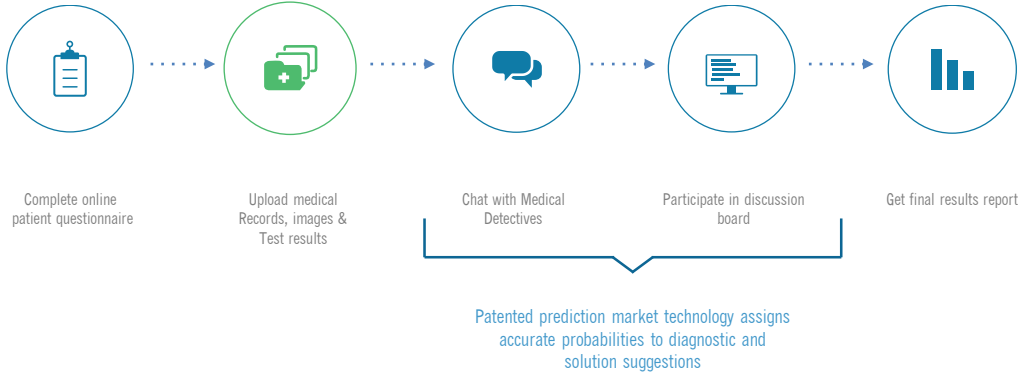
Patient Information

When was the patient born?

September ▼   1985 ▼

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Upload any materials that will help solve this case: *(Optional)*

Click or drag a file here to upload

All uploaded materials will be posted anonymously but "as is" in the public domain. It is your responsibility not to divulge any personally identifiable information about the patient or their physicians on uploaded materials without their consent. We encourage you to remove or black out any such information.
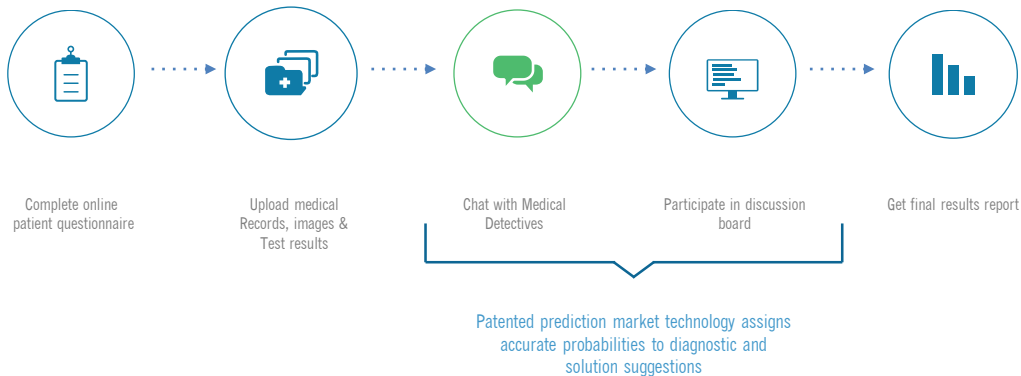
Your Uploaded Images

Add a brief description for this image

Delete

Does the patient have any DICOM images (MRI, CT scan, x-ray, etc) hosted on an external site? If so, please paste the links below: ❓ *(Optional)*

List any diagnoses the patient is sure are **NOT** correct: ❓ *(Optional)*

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Suggested Diagnoses List

Diagnosis	Count	
☐ Adrenal Dysfunction	10,860	⚑
☐ Advanced sleep-wake phase disorder	10,161	⚑
☐ Kleine–Levin syndrome	9,007	⚑
☐ Circadian rhythm sleep disorder	4,036	⚑
☐ Delayed sleep phase disorder	3,253	⚑

+ Add a New Diagnosis

Submit Diagnoses   or skip to Suggest Solutions »

Chat Between Apteryx DR10   View All Chats (6) »

Apteryx DR10   1/12/2015, 11:01am

Hi, Slyvia:

Welcome to CrowdMed!

I'm sorry to hear of what you have been going through. Not being able to sleep when you want to is extremely trying and disruptive.

It sounds very much as though you have delayed sleep phase disorder.

Can you tell me a little bit about the conditions in your bedroom? I presume that it is quiet and that your bed is comfortable. What is the lighting in your bedroom? Even low level lighting from night lights, clocks, or pilot lights may be relevant. In particular, what color is the lighting in the bedroom?

Have you tried other agents, such as zolpidem (Ambien) or melatonin?

With best regards,

Apteryx

♥ ⚑

Patient   1/12/2015, 11:48am

there are no lights in my room at night.
relatively quiet also.
melatonin does not work for me.
I have tried ambien,and it works better, but I do not take it on a regular basis because it is habit causing and I am trying to stay away from meds.
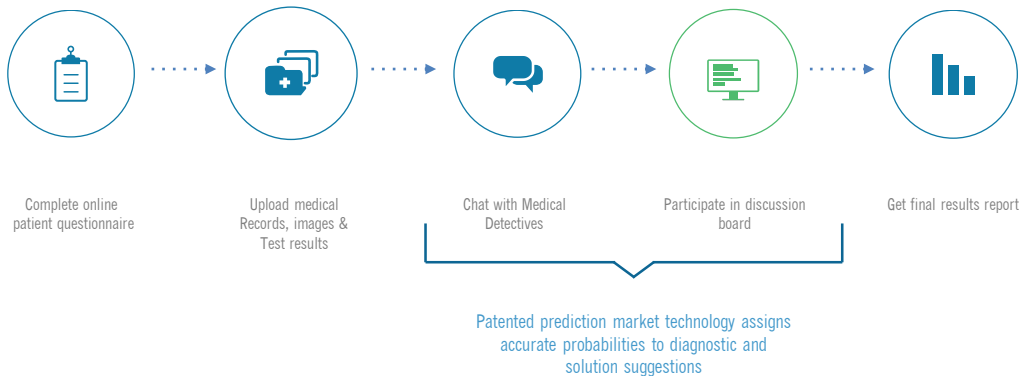thank you

♥ ⚑

Apteryx DR10   1/12/2015, 1:19pm

Thank you for your reply.

I see that you live in Los Angeles. One good resource is the Sleep Disorders Center at UCLA.
UCLA Department of Neurology

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Major depressive disorder 🚩

Hydrocephalus 🚩

Seizures 🚩

Bipolar disorder 🚩

Premenstrual dysphoric disorder 🚩

Pinealoma 🚩

Pineal cyst 🚩

Temporal lobe epilepsy 🚩

Medication errors 🚩

Acute intermittent porphyria 🚩

Chronic fatigue syndrome 🚩

+ Add a New Diagnosis

Submit Diagnoses   or skip to Suggest Solutions »

▶ Acute intermittent porphyria (1)

▼ Chronic fatigue syndrome (6)

Explain here why you agree or disagree with this diagnosis or solution. Patients are more likely to select well-supported suggestions as the best. You will win 5,000 bonus points if your comment is 'Liked' by the patient or a top Medical Detective (max once per case)

Chatting as Jgreenwalt   Post

Doesn't fully explain the waking paralysis which is commonly associated with narcolepsy, a diagnosis that someone has alluded to in their chat questions. Of note, however, there are some interesting associated symptoms listed below. Particularly the last two on this list coupled with the fatigue and sleeping issues correspond with this diagnoses very closely.

The CDC states other common symptoms include the following:[B]
◼ brain fog (feeling like one is in a mental fog)
◼ difficulty maintaining an upright position, dizziness, balance problems or fainting
◼ allergies or sensitivities to foods, odors, chemicals, medications, or noise
◼ irritable bowel syndrome-like symptoms such as bloating, stomach pain, constipation, diarrhoea and nausea
◼ chills and night sweats
◼ visual disturbances (sensitivity to light, blurring, eye pain)
◼ depression or mood problems (irritability, mood swings, anxiety, panic attacks)
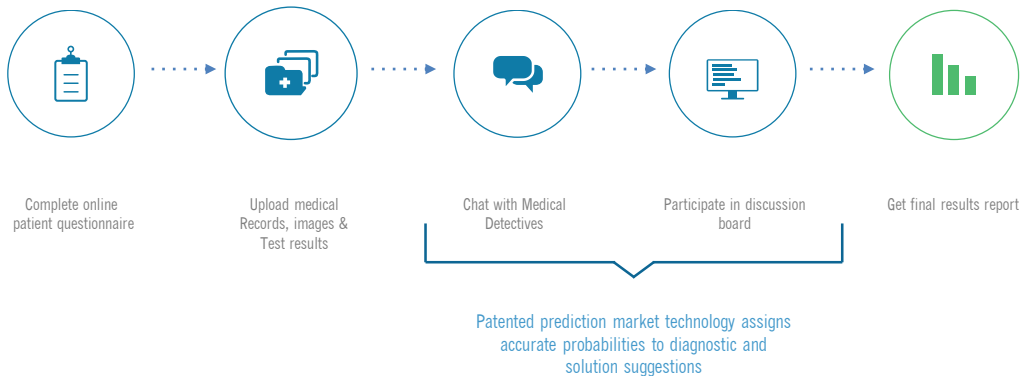
I should point out that I did not try to explain the urinary retention/incontinence issues because I believe that I read you said it was determined to be related to a medication that Nicki had been started on. If I am misunderstanding this please let me know.

Kyle

kwalk21 **DR10** on January 30, 2015 at 12:49pm

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Your CrowdMed Results

This report contains the results of CrowdMed case #5513 for which we assigned the pseudonym "Minta". CrowdMed received 21 personalized diagnostic suggestions for this case from 51 Medical Detectives.

Before sharing the results, we'd like to remind you that CrowdMed can only provide diagnostic suggestions for the patient to discuss with his physician. Only the patient's physician can determine his definitive diagnosis and prescribe the appropriate treatment. Our Medical Detectives are not screened based upon medical credentials, but are incentivized to only participate in CrowdMed cases where they have unique insights to share. Our Medical Detectives are not all doctors.

Our Medical Detectives went through a 3-step process to arrive at these conclusions:

1 Suggesting potential diagnoses from a database of all known illnesses

2 Selecting the diagnoses that they feel most likely to be correct

3 Betting on the selected diagnoses according to their confidence in them

We invite our Medical Detectives to use all information resources at their disposal, including their personal experience, advice from friends and family members, and online information resources. Our process is interactive and collaborative throughout, allowing the Medical Detectives to work together as a community.

Though we cannot discuss your case results from a medical perspective, please let us know if you have any questions about our process or how to interpret this report. We welcome your feedback on the quality and usefulness of our Medical Detectives' diagnostic suggestions.

Thanks for using CrowdMed! We hope that the information we've provided will help bring the patient closer to a correct diagnosis and treatment.

– the CrowdMed team

Top Diagnostic Suggestions

Please find below the top 4 diagnostic suggestions for your case from the 51 Medical Detectives who participated in it. The bar graph shows the relative popularity of each of these diagnoses, which is derived from the Medical Detective's point betting behavior.

Top Diagnoses

Diagnoses Key

- **Morphea profunda** (21 points) - *http://en.wikipedia.org/wiki/Morphea profunda*
- **Nodular vasculitis** (18 points) - *http://en.wikipedia.org/wiki/Nodular vasculitis*
- **Cutaneous tuberculosis** (9 points) - *http://en.wikipedia.org/wiki/Cutaneous tuberculosis*
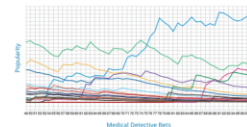- **Lupus profundus** (9 points) - *http://en.wikipedia.org/wiki/Lupus profundus*

*Points are assigned to diagnoses according to their relative popularity amongst Medical Detectives. Less popular diagnoses are often poor, but some might be worth exploring.

All Diagnoses Popularity Over Time

The graph below shows how the popularity of your diagnostic suggestions moved over time. CrowdMed utilizes a patented prediction market technology that collects "bets" from Medical Detectives on what they feel to be the most specific, accurate, root cause diagnosis for a patient. The average popularity of each diagnosis determines its ranking.
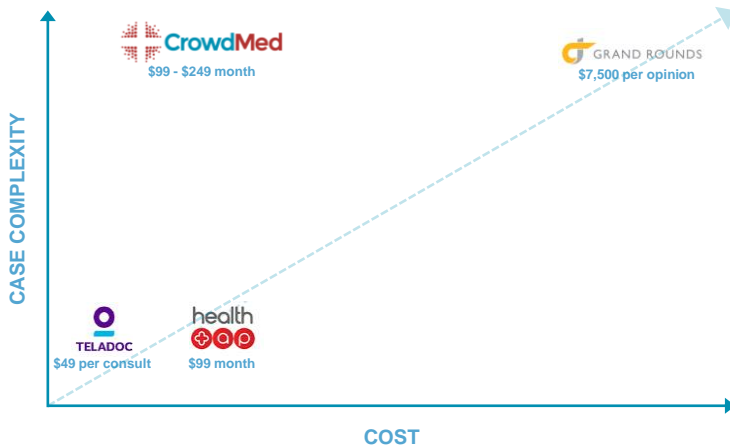
The key below the graph includes all diagnostic suggestions for your case, presented in descending order of popularity. *We encourage you to pay greater attention to the top diagnoses listed on the previous page.* Since not all of the diagnoses below achieved consensus amongst the Medical Detectives, some of them may be poor, especially those lower on the list. However, patients sometimes find value in their complete list of diagnostic suggestions.

Diagnoses Key

- **Morphea profunda** (21 points) - *http://en.wikipedia.org/wiki/Morphea profunda*
- **Nodular vasculitis** (18 points) - *http://en.wikipedia.org/wiki/Nodular vasculitis*
- **Cutaneous tuberculosis** (9 points) - *http://en.wikipedia.org/wiki/Cutaneous tuberculosis*

COMPETITIVE LANDSCAPE

CASE COMPLEXITY

COST

CrowdMed
$99 - $249 month

GRAND ROUNDS
$7,500 per opinion

TELADOC
$49 per consult

health
$99 month

100% ORGANIC USER ACQUISITION

Social Media

28k + FB likes,
1k Twitter followers

Referrals

$10 + $10 for patients

PR

100 + major media hits
including WSJ, NY Times,
Reuters, Bloomberg, Fox
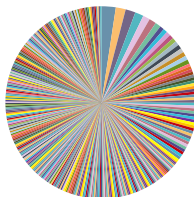News, The Economist

SEO

#1 on Google for 'solve
medical case', difficult medical
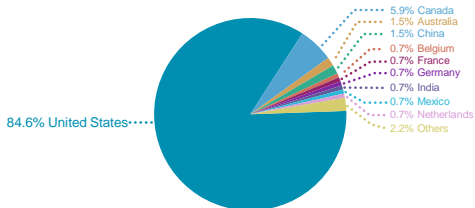cases', 'crowdsourced
diagnoses' and more

Ambassadors

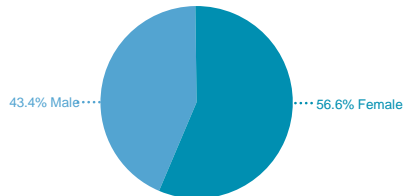12 med students recruiting
hundreds more

PATIENT STATISTICS

2.3%	Lyme disease	0.9%	Aphthous stomatitis
1.9%	Chronic fatigue syndrome	0.9%	Burning mouth syndrome
1.9%	Dysautonomia	0.9%	Conversion disorder
1.9%	Ehlers-danios syndrome	0.9%	Diabetes mellitus type 2
1.9%	Irritable bowel syndrome	0.9%	Inflamatory bowel disease
1.4%	Abdominal cutaneous nerve entrapment	0.9%	Sjogren's syndrome
1.4%	Hypothyroidism	0.9%	Systemic vasculitis
1.4%	Mast cell activation disorder	0.5%	Abdominal cutaneous nerve entrapment syndromes (ACNES)
1.4%	Multiple sclerosis	0.5%	Abdominal migraine
1.4%	Postural orthostatic tachycardia syndrome	0.5%	Abdominal wall pain/strain
0.9%	Adrenal fatigue	0.5%	Acquired Rippling Muscle Disease with Myasthenia Gravis
		0.5%	Adrenal Insufficiency

PATIENTS BY COUNTRY

5.9% Canada
1.5% Australia
1.5% China
0.7% Belgium
0.7% France
0.7% Germany
0.7% India
0.7% Mexico
0.7% Netherlands
2.2% Others

84.6% United States

95% OF FINAL DIAGNOSES ONLY OCCURING 1-2 TIMES

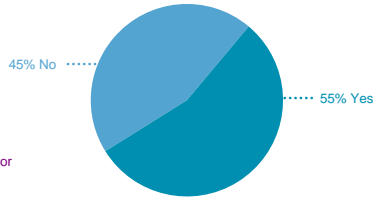## PATIENTS BY GENDER

43.4% Male
56.6% Female

0 years
Minimum age

44 years
Average age

99 years
Maximum age

ACTIVE MEDICAL DETECTIVE STATISTICS
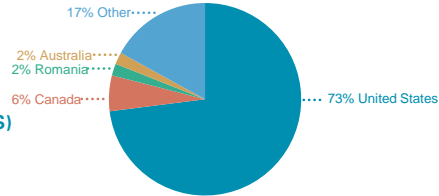
MEDICAL DETECTIVES ACTIVE IN MEDICINE

45% No

55% Yes

MEDICAL JOB CATEGORIES

27% Medical Doctor
4% Alternative Medicine
3% Nurse Practitioner
5% Allied Medicine
6% Researcher or Scientist
10% Nurse
19% Other
22% Medical Student

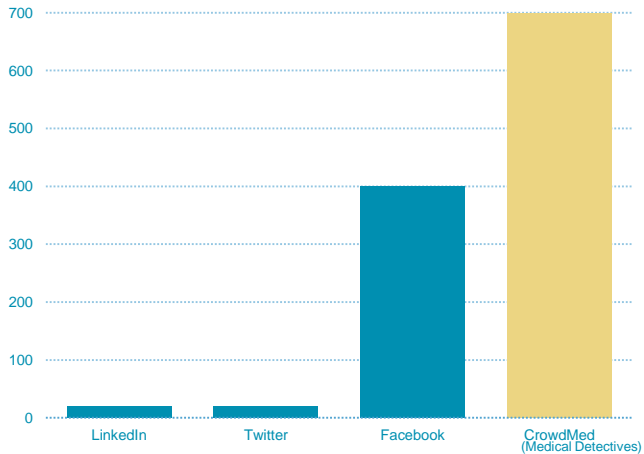## MEDICAL DETECTIVE COUNTRIES

17% Other
2% Australia
2% Romania
6% Canada
73% United States
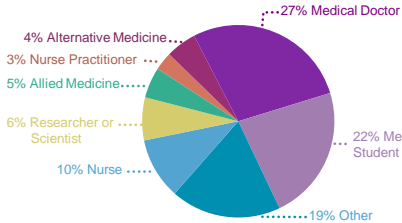
**15,000+ TOTAL REGISTERED
1,000 LOGGED IN (LAST 90 DAYS)
400 ACTIVELY SOLVING CASES**

MINUTES ONSITE PER USER PER MONTH

700	
600	
500	
400	
300	
200	
100	
0	LinkedIn · Twitter · Facebook · CrowdMed (Medical Detectives)

MEDICAL DETECTIVE SATISFACTION

Bar chart. Vertical axis from 0 to 100 in increments of 20.

- "Very or Somwhat Disappointed" If We No Longer Existed — 94%
- "Extremely or Very Likely" to Recommend Us to a Friend — 86% (Detractors)
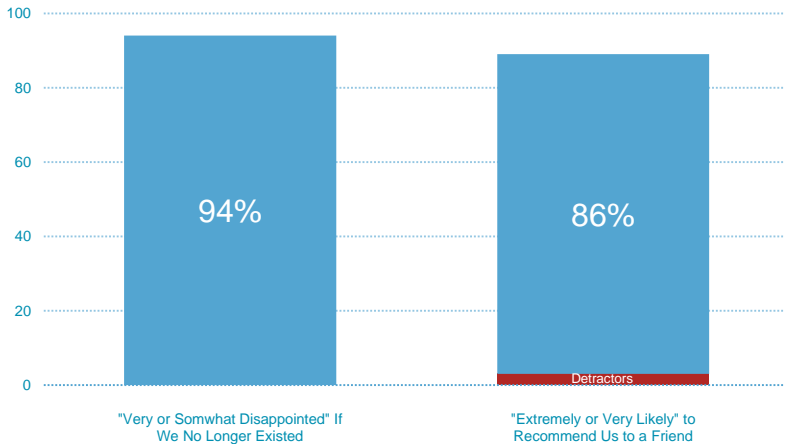
MEDICAL DETECTIVE INCENTIVES

Cash → Points → Reputation → Learning → Altruism

Primary Motivations

CROWDMED CONSUMER PACKAGES

Lite

$99/month
+ $50 refundable deposit

Learn More

Select

Standard

$149/month
+ $50 refundable deposit

Learn More

Select

Premium

$249/month
+ $50 refundable deposit

Learn More

Select

STRATEGIC PARTNERSHIPS

EMPLOYERS

Mercer
Facebook
eBay
Cummings
Wal-Mart

PROVIDERS

NIH
Cleveland Clinic
Mayo Clinic
Dignity Health
Brown & Toland

PAYERS

Aetna
Humana
Kaiser Permanente
BlueCross BlueShield
Highmark Health

PHARMA

Bayer
Eli Lilly
Johnson & Johnson

All organizations listed have expressed interest in partnering with CrowdMed