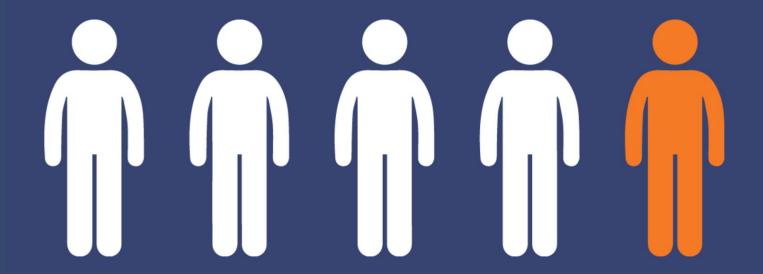
EudaeSense

Audrey Leung April Dawn Kester Richard Chen UC Berkeley School of Information

1 in 5 Americans suffers from a mental health condition.



350 million

11%

70%

The number of people globally who are affected by some form of depression.

The percentage of adolescents who have a depressive disorder by the age of 18.

The percentage by which women are more likely than men to experience depression in their lifetime.

16 million

14%

30%

The estimated number of U.S. adults had at least one major depressive episode 2012. This made up approximately 6.9 percent of all adults in the country.

The percentage of women from a 2013 postpartum depression study who had the disorder four to six weeks after giving birth.

The number of college students who reported feeling depressed, which disrupted their ability to function in school.

\$80 billion

50%

10 - 20

The estimated annual cost of depression in the U.S. due to lost productivity and health care.

The percentage of Americans with major depression who don't seek treatment for the mental illness.

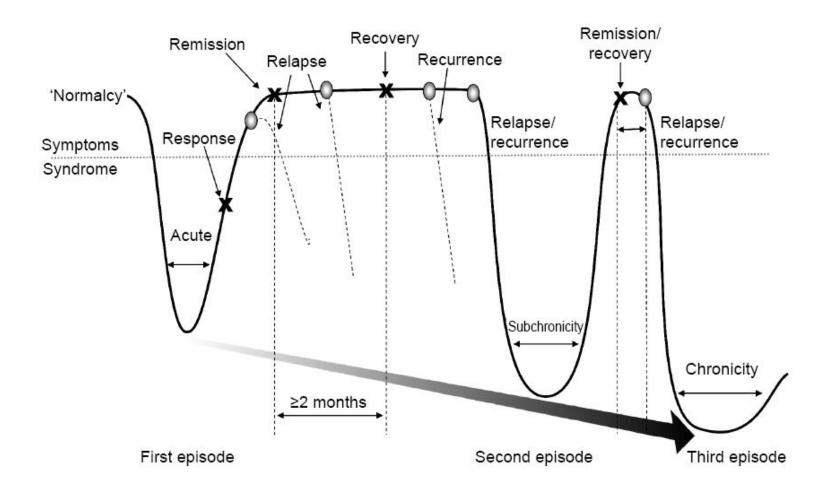
The number of weeks psychotherapy treatments for depression usually lasts (though it varies depending on the condition).

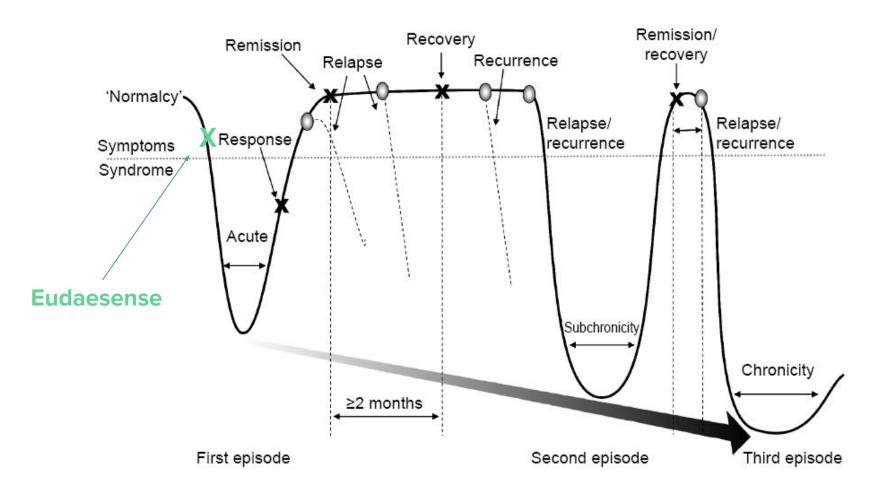
The Stats on Depression

 $\label{lem:http://www.huffingtonpost.com/2015/01/20/depression-statistics_n_6480412.html $$ $$ http://www.livescience.com/5997-depressed-americans-treatment.html $$ http://www.dbsalliance. org/site/PageServer?pagename=education_statistics_depression$

Types of Depressive Disorders (DSM-5)

- Major Depressive Disorder
- Persistent Depressive Disorder (Dysthymia)
- Disruptive Mood Dysregulation
- Premenstrual Dysphoric Disorder





Team







April Dawn Kester, Audrey Leung, Richard Chen

Candidates, MIMS '16
UC Berkeley School of Information



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PhD Candidate, Computer Science

Advisors



John Chuang
Bio-sensory Computing

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Pablo Paredes
HCI, Behavior Change & Technology

PhD Candidate, EECS Fellow, Berkeley Institute of Design

Eudaesense

Passive data collection through smartwatch biosensors

Machine learning algorithm to learn and detect symptoms of depression (Paredes)



Micro-interventions

- Text from friend
- Call to hang out
- Song from playlist
- Meditation
- Breathing
- Fun games
- Youtube video
- Inspirational quote
- Cute animal photos



Q&A