



# BROKERAGE FOR HEALTH

## September 3-4 2018, Oslo



Better Health and Care



## Building the artificial doctor

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HEALTH-NCP-NET 2.0 project is funded by the European Commission

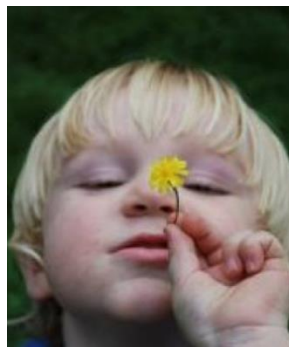
# Building the artificial doctor



grunting, screaming, death anxiety, personality change



“ *Each year, 1.5 million lives could be saved with the right diagnosis.* ”



**SC1-DTH-10-2019-2020:** Digital health and care services

**SC1-DTH-11-2019:** Large scale pilots of personalised [...] care

**SC1-BHC-25-2019:** Demonstration pilots [...]

*Chatbot pre-assessing patients diagnostically*

**SC1-BHC-30-2019:** Risk-based screening [...] for [...] diseases

*EHR analysis. Data-mining. Interpretation. Standardisation.*

*Patient stratification. Unsupervised cohorts. Patient trajectories.*



# Building the artificial doctor



grunting, screaming, death anxiety, personality change

7 years old Male Canada

- Tinnitus
- Pallor
- Anemia
- Weakness
- Vertigo
- Headaches
- Pain
- Lumbago
- Night sweats
- Syncope
- Diarrhea

5049 possible causes for "grunting, screaming, death anxiety, personality change"

## PANDAS

Even a minor blow to the head, with or without loss of consciousness, can cause changes in mood and personality and affect concentration [adhd.com.au] In turn, the child quickly begins to exhibit life changing symptoms such as OCD, anxiety, tics, personality changes, decreased handwriting abilities, sensory sensitivities [pandasnetwork.org] Other symptoms include separation anxiety (the child has difficulty separating from parent), mood changes, changes in handwriting, bedwetting or change in urinary frequency [medicinenet.com]

## Anxiety Disorder

Anxiety is a normal reaction to life-changing events. [cmhc.utexas.edu] Interestingly, a recent study found very little change in the prevalence of anxiety disorders, including specific anxiety disorders, since 1990. 3 Genetic risk factors are [clevelandclinicmeded.com] For a person with an anxiety disorder, the anxiety does not go away and can get worse over time. [nimh.nih.gov] The ABCs of anxiety disorders Anxiety disorders can happen to anyone. [cmhc.utexas.edu] Helping a friend or loved one Anxiety is hardwired into our brains. [cmhc.utexas.edu]

## Tics

Also the severity and type of the tics often change over time, getting better and worse, and again this is nothing that the child or young person can control over. [handsonscotland.co.uk] Co-occurring symptoms may include obsessive compulsive disorder (OCD), attention deficit hyperactivity disorder (ADHD), anger/rages and anxiety.[tourettes-action.org.uk] This is how a person with a tic disorder feels constantly. [childbrain.com] The prevalence of tics is an indication that tics may be related to stress and anxiety, which can result in them occurring more frequently. [handsonscotland.co.uk]

## Depression

Depression and Anxiety Disorders: Not the Same Depression and anxiety disorders are different, but people with depression often experience symptoms similar to those of an anxiety disorder. [adaa.org] Anxiety Disorders Conference @ADAA Conference Anxiety and Depression Association of America [onlinelibrary.wiley.com]

Symptoma

Symptoma

Hey. What's the nature of the medical emergency?

Do you have headache?

Yes.

Ouch. Is your headache acute?

Yes. No. I don't know.

Reply to Symptoma



## Contact details



Thank you!

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“ *Best and most promising eHealth solution 2016.*

*- European Commission*

“ *Top 50 company in the union in 2017.*

*- European Commission*

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