Non-invasive wearable device for real-time stroke detection

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Ischemic Stroke affects 700,000 Americans and 13MM people globally per year

$67B annual avoidable US healthcare spend

Disability, premature death can be prevented by drug (tPA) within 4.5hr of stroke onset

85% of stroke victims miss the tPA treatment window
EFFECT OF TREATMENT DELAY

20% OF STROKE VICTIMS DIE
160,000 PEOPLE / YR

10% SURVIVORS UNABLE TO CARE FOR SELF, NEED LONG TERM CARE OR SKILLED NURSING
56,000 PEOPLE / YR

40% SURVIVORS WITH MODERATE OR SEVERE DISABILITY, NEED SPECIALIZED CARE
224,000 PEOPLE / YR

25% SURVIVORS WITH MINOR DISABILITY
140,000 PEOPLE / YR
A non-invasive wearable that identifies stroke within the critical 4.5 hour tPA treatment window

Detects asymmetries in upper body movement, a hallmark of stroke
HOW IT WORKS

ALVA HEALTH: Abnormal Activity Detected

I’M OKAY
I NEED HELP

Notify emergency contacts

< 4.5 hours
prevent chronic disability

2 Granted US Patents
1 Granted EU Patent
2 US patents in preparation

2 min
STROKE PATIENT STUDY

N > 200

TPR = 97%

High sensitivity in moderate-to-severe strokes

HEALTHY VOLUNTEER STUDY

N=50

TNR = 99.8%

Low false positive rate, 1 per 21 days*

* expected to decline before commercialization
UPCOMING STUDIES

DE-CENTRALIZED PILOT STUDY
Initiating 1H 2023

- PURPOSE: Demonstrate monitoring up to 30 days, assess usability & comfort level with Alva’s device
- Enroll under 100 subjects, including healthy & stroke survivors

MULTI-SITE PILOT STUDY
Initiating 2H 2023

- PURPOSE: Demonstrate remote monitoring up to 90 days, event detection
- Gather necessary data for algorithm & design lock prior to FDA pivotal study
- 3-5 research sites
- Enroll under 300 high stroke-risk subjects
INITIAL TARGET MARKET

Patients at risk of recurrent stroke

1.1 M PATIENTS / YR

$4B MARKET

640,000 stroke survivors

500,000 Transient Ischemic Attacks
BARRIERS TO ENTRY

Custom wearable devices with battery life $\geq 30$ days
IP: 2 US patents granted, 1 EU patent granted, 2 US in preparation
Proprietary stroke detection & fall detection algorithms
Extensive database of wearables data in stroke patients
Cloud based solution on AWS
Cleared informal FTO search
Trademarks in progress
Timeline

1H 2023
DCT Study

2H 2023
Multi-Site Clinical Study

2H 2024
Clinical Trial for FDA Filing

Q4 2025
FDA filing

Q4 25 / Q1 26
Commercial Launch
INDUSTRY RECOGNITION

MEDTECH INNOVATOR

$350,000
GRAND PRIZE WINNER

2021 competition winner among 1100 global medtech startups
$2.35 M

Oversubscribed Pre-Seed Round
$1.5-2 M

Seed Round
September 2023

$125,000 committed to date
THANK YOU

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