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How long are you willing to wait when a life is at stake?

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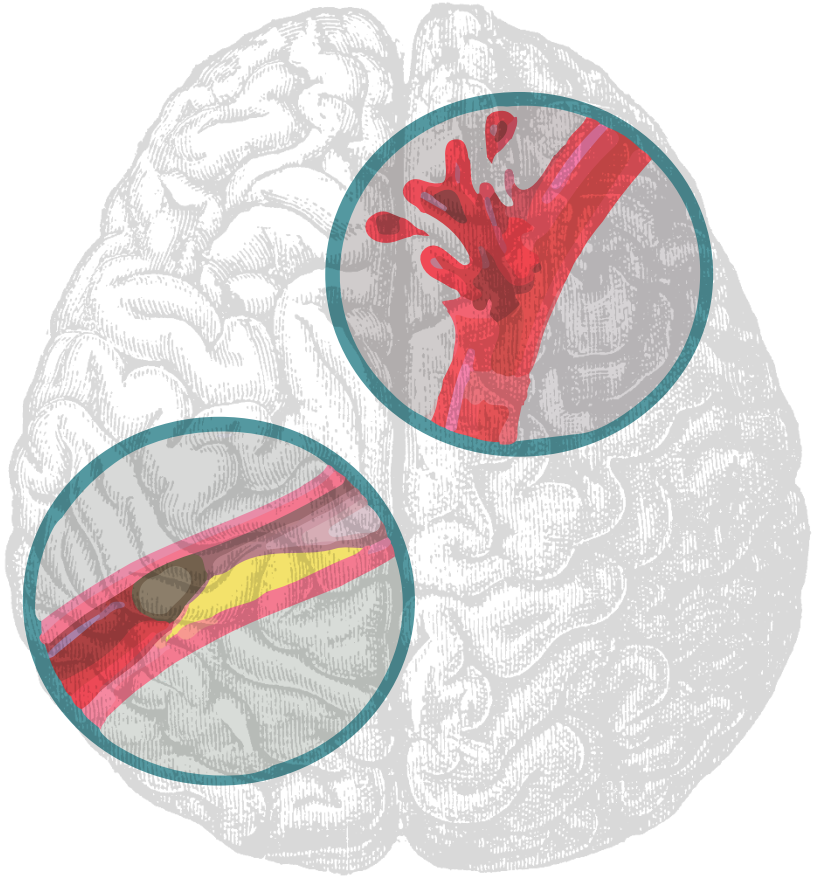
Stroke: a life threatening condition



Social Impact (humongous)**:**

Worldwide

- 1st cause of acquired disability
- 2nd cause of dementia
- 3rd cause of death

Cost for Belgium

- > 300.000.000 € / year

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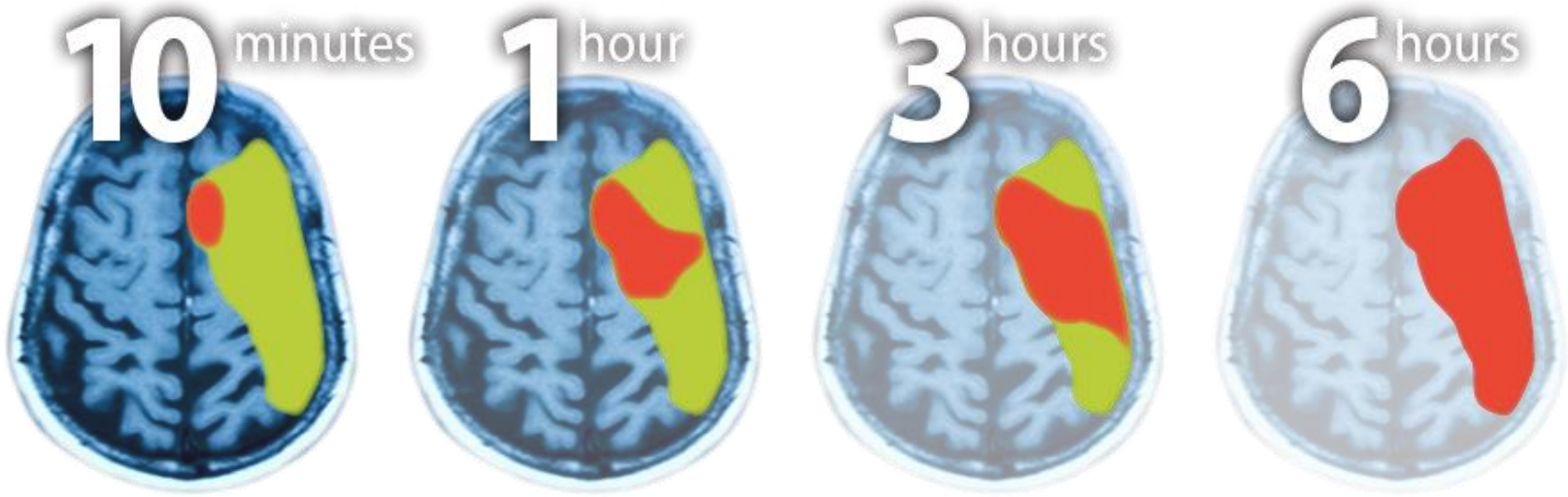
Stroke: a life threatening condition



TIME

COMPETENCE

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Unassisted in-ambulance telemedicine?

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Competition

Scalability

LifeBot

General Devices

InTouch Health

covalia Interactive

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MEYTEC

Natural Communication

Integrated Decision Support

Based on Clinical Research & Feedback

Unassisted

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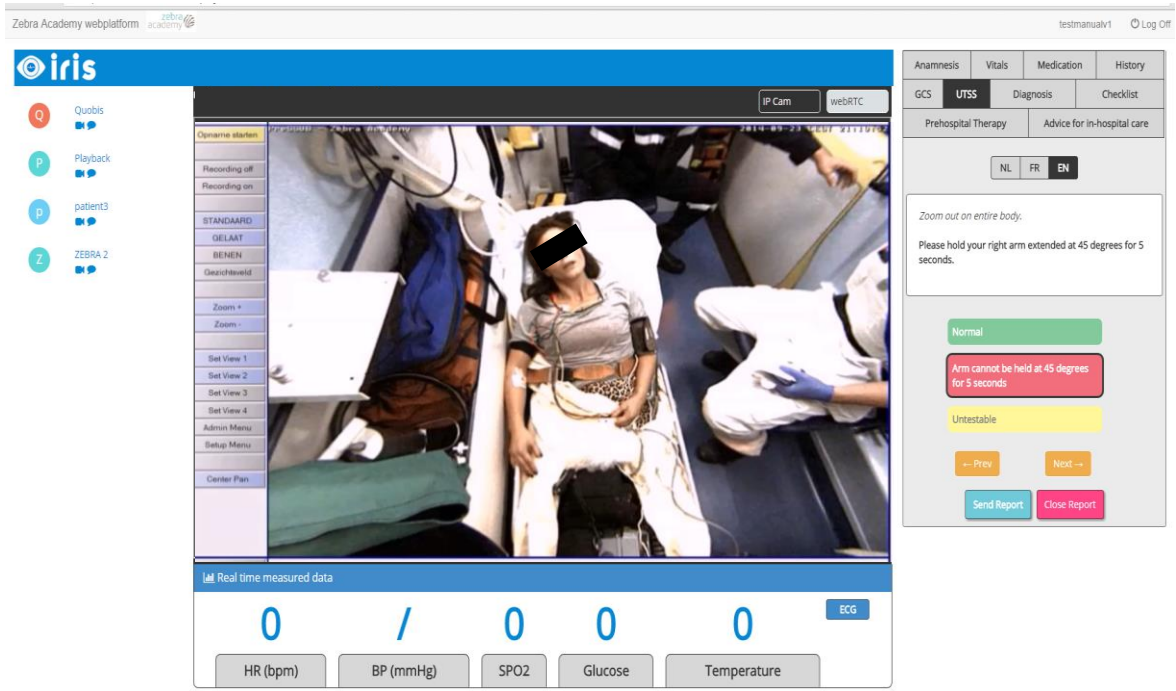
Integrated Emergency Offering

In-Ambulance Hardware

Web-Platform



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Research Publications

PreSSUB II @ ESOC 2016 Conclusions

Telemedicine in-ambulance 24/7 is **organizable**

Telemedicine in-ambulance is **safe & technically reliable**

Call to Imaging time: 46 min. Vs 66 min.

All Cause Mortality at day 90: 14,3% vs. 15,6%

Proportion of **Succesful interventions**: 96,2%

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Added Value for All Stakeholders

Patients		**Higher Chances of independency & survival**
Ambulance Staff		**Adequate unassisted** acute care
Society		**Reduced human & economic burden**
Hospital		Acute Care with a **cost reduction** (~750€/patient just for stroke*)
Medical Expert		**Effective & flexible** resource allocation for optimised care

*** Data requires validation in ongoing/upcoming clinical trials**

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Available information for hospital staff

Neurologist

Relevant Information:

- Time of symptom onset,
- Contraindication,
- Stroke Severity,
- Medication,
- Anamnesys,
- ...

Used to:

- Asses if patient is candidate for Thrombolysis / Thrombectomy

ER Floor Manager

Relevant Information:

- Time of arrival,
- Vital parameters,
- ...

Used to:

- Verify stability of patient,
- Prepare to take patient as fast as possible to CT

Radiologist

Relevant Information:

- Age,
- Name,
- Gender,
- ...

Used to:

- do the registration in the CT
- be able to start CT faster

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Clinicians Testimonials

Clinical

"Decision support generating semi-automatic alert & report leads to optimal preparation of the in-hospital team upon arrival"

"Revised clinical pathway with clear shift to pre-hospital phase, **leads to essential time gain"**

"Direct multidisciplinary (patient, nurse, caregivers, …) input allows to obtain high amount of patient data even during short ambulance transport"

Technical

"Easy patient interaction is ensured through qualitative audio/video connection"

"It's Easy-to-use & quickly 'up and running'"

"There is no need of technical know how"

Private

"The freedom or reach & greater efficiency have a positive impact on the work/private life balance"

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The Zebra Academy Team

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*Background **in telecom engineering**, coordinator of the **technical development***

Prof. Dr. Raf Brouns

Neurologist & researcher** with a **focus on acute stroke care

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Prof. Dr. Ir. Guy Nagels

***Head of Neurology & director of research & development,** specialised in MS*

Bastien Ritzen

CEO at Zebra Academy** and driving **business development

Our Partners

Hardware Productization

Business Development

Software Development

Medical Research

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