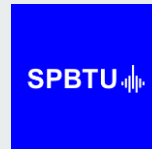


# A clinician-friendly, interpretable computer-aided diagnosis (ICADx) suite to support and optimise clinical decision making in multi-specialty healthcare environment.

Pitch deck





# Introduction

- Diagnosis is a doctor's job.
- A doctor will never fully rely on an algorithm.
- But, there is much room for improvement via AI.

## Our solution:

A friendly, interpretable suite of AI-aided solutions to optimise clinical decision making in four demanding medical scenarios.

- CCTA
- Obstetrics
- Echocardiography
- Capsule Endoscopy

## CCTA medical scenario



TYPICAL PROCEDURE

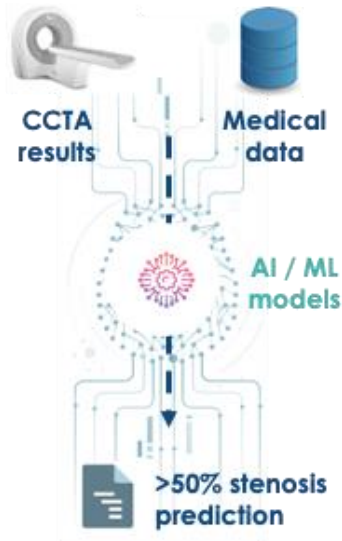
### CT scan

- Understaffed healthcare facilities.
- Inexperienced physicians.
- Time constraints.

### CCTA, with contrast agent

- Toxicity and adverse events from contrast agent.
- Unnecessary exposure to radiation.
- Strain on hospital resources.

## CCTA medical scenario



Proposed solution:

**An AI-based predictive model, which will indicate whether or not each patient needs to undergo CCTA, including calcium scoring.**

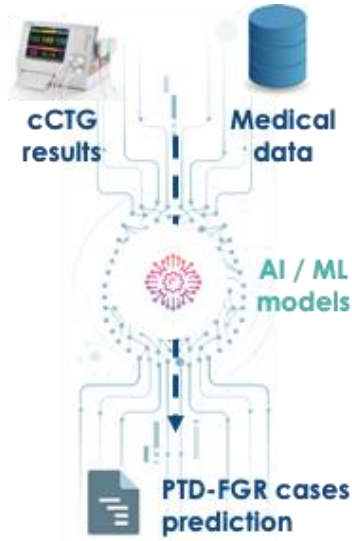
**Competition:** RSIP Vision, HeartFlow Analysis, Cleerly, syngo.CT Coronary Analysis, DeepVessel FFR, etc.

## Obstetrics medical scenario



- PTD affects about 13M pregnancies annually. The rate in Europe is reported 5%-11%.
- FGR affects 5-10% of fetuses and is a significant cause of intrauterine death, prematurity and cerebral palsy.
- Both these conditions are difficult to predict, diagnose and treat.

## Obstetrics medical scenario



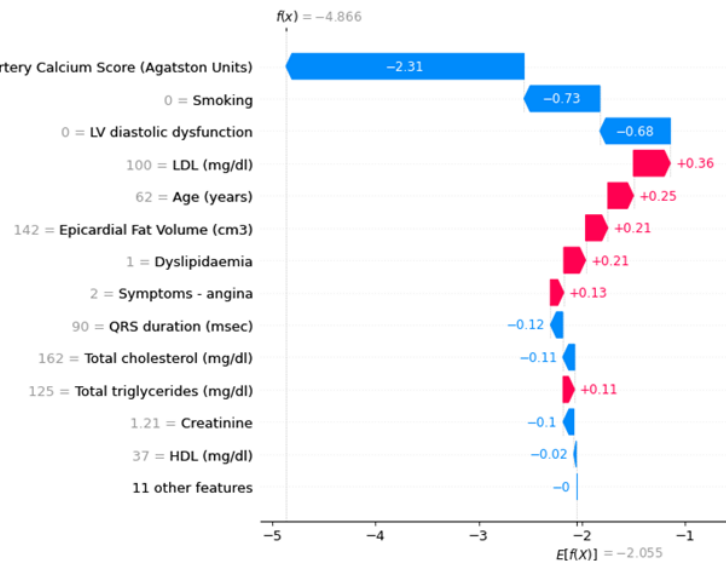
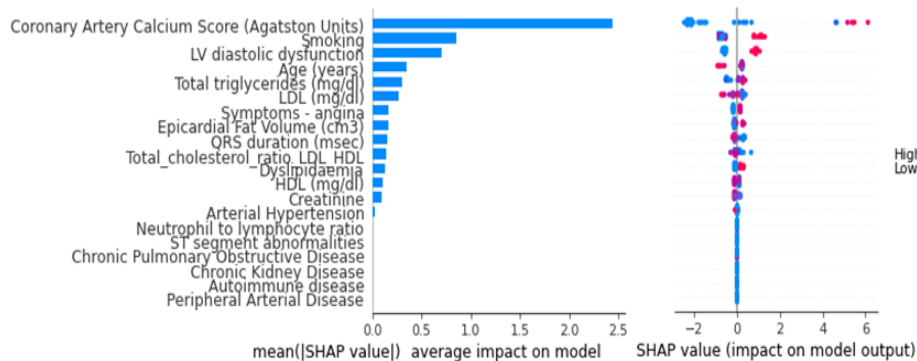
Proposed solution:

An AI-based predictive model, which will indicate whether each case is threatened by preterm labour and/or FGR.

Competition: Currently only research activities.

# Key differentiator (for both medical scenarios)

The addition of explainable AI (xAI) functionality.



## ECHO medical scenario



**Assessment of cardiac function requires (semi)manual drawing.**

- ☹ Inter-observer variability
- ☹ Inter-vendor variability
- ☹ Intra-vendor variability

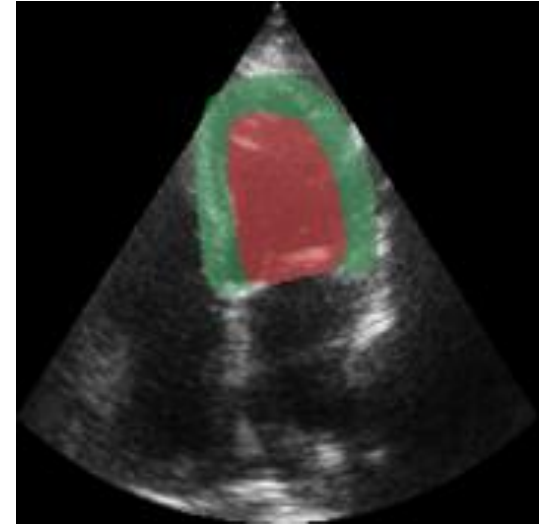
😊 **AI to reduce the sources of uncertainty**

## Solution

- Leverage best AI strategies to aid the doctor.
- Evaluate the collaboration of doctor + AI (via clinical trial)
- Use data from different vendors.

**Competition:** Big competition. But differences appear. Which is the best?

**Key differentiator:** Fight inter-vendor variability.



# Capsule endoscopy medical scenario



## Watching the video

- ☹ Time-consuming
- ☹ Tedious
- ☹ Needs experience

- AI makes the hard work
- The doctor makes the scientific work

AI + Doctor collaboration?

## Capsule endoscopy medical scenario



### Watching the video

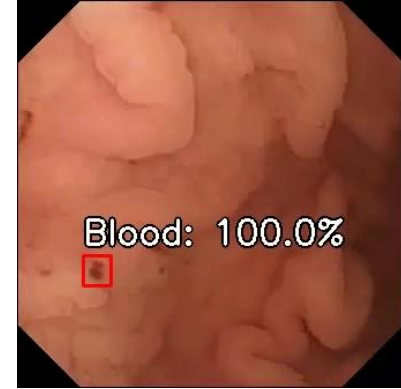
- ☹ Time-consuming
- ☹ Tedious
- ☹ Needs experience

- AI makes the hard work
- The doctor makes the scientific work

AI + Doctor collaboration?

## Solution

- Leverage best AI strategies to aid the doctor.
- Evaluate the collaboration of doctor + AI (via clinical trial)
- Build infrastructure to support TRL maturity



**Competition:** Currently no reliable solution in the market. (Why?)

**Key differentiator:** Focus on the real life needs and problems