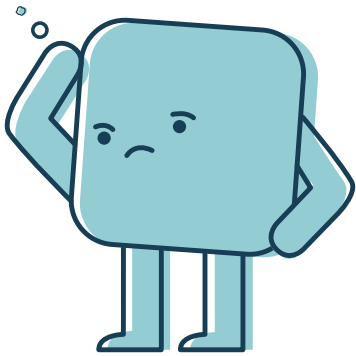


## OBSTETRICS TOOL



Misdiagnosis or delayed diagnosis are two of the most common types of medical malpractice. They often result in patients not receiving proper and timely care, potentially followed by a serious deterioration of their health or even death.

## PROBLEMS

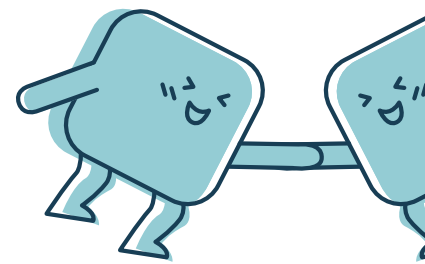


The solution focuses on preterm delivery and fetal growth restriction. Indeed, if such problems are identified at an early stage, appropriate strategies can be designed. The issue is that it is not easy to predict them.

## OBJECTIVES

Enable PTD and FGR predictions.

## THE SOLUTION



An AI-based application that will indicate, whether each case is threatened by preterm labour and/or FGR adverse effects. In pre-term scenario cases, we use as input clinical variables with which we train ML-based models which later provide a prediction on whether a case will be preterm or not. In the FGR scenario, we use as input clinical variables taken from FGR cases, and we train ML-based models using FGR-related adverse effects as labels.

The solution is not a black box. The input of each solution is a comprehensive list of clinical variables and demographic information. The focus is on providing explainability through features that will allow to understand why the algorithm produces specific outcomes.

## VALUE PROPOSITION

The solution intervenes in a difficult but quite widespread clinical scenario. PTD affects 13M pregnancies annually (5%-11% of pregnancies in Europe) while FGR affects 5-10% of fetuses and is a significant cause of intrauterine death, prematurity and cerebral palsy.

## MARKET

Healthcare: Gynaecologists, Hospitals / clinics (public and private)

Industry: Companies producing cardiotocographs, SaaS for cardiology  
EMRs

## BENEFICIARIES

Gynaecologists

## SOLUTION PROVIDERS

### Main solution provider:

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