



Technology
to
Licence
T-20-038

FertiliTest



Overview

Students at TU Dublin have developed 'FertiliTest'.

FertiliTest was inspired by the identification of the lack of technological advancements in reproductive health tracking for women. Currently most cycle tracking apps are based solely off of a standard 28-day cycle, leaving women disappointed, when really, they are just being fed standard impersonalised information, as not everyone has a 28-day cycle. FertiliTest aims to provide clarity and assistance during a sensitive part in a woman's life. Health tracking is a massive growing trend at present, however reproductive health tracking has been left behind in this movement and we believe that it is time to change that.

- FertiliTest, is a reproductive home hormone testing kit which tests for 4 hormones (LH, HCG, FSH and Progesterone) using midstream urine tests. It evaluates the data and recommends user actions.
- Results are displayed in plain language to reduce human error.
- FertiliTest testing strips will be covered in a compostable wax as opposed to standard plastic cases.
- FertiliTest will read testing strips using colour sensors and display the result on an LCD screen.
- Results will also be sent to our accompanying app on the user's phone via Bluetooth. Data will be continuously stored and allow the user to get an overall picture of their cycle and allow the system to make more personalised recommendations – e.g. 'take an ovulation test today' or 'take an FSH test (overall fertility) and if positive, talk to your doctor'.



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Advantages

The advantages of the invention are:

- Human error is a huge issue in the interpretation of home test results. Our device will provide clear recommendations and results to the user, eliminating the human error factor and providing peace of mind to the user.
- These 4 indicators have not been brought together into one connected system until now. This system helps women during every step of their fertility journey.
- Women will no longer need to spend time interpreting results or keeping a cycle diary of their results, FertiTest will do all of this for them.
- Single use plastic is a huge problem associated with home tests. We have removed traditional outer plastic holders for the test strips and instead covered the strips in a compostable wax, our strips are compostable and eco-friendly.

Opportunity

The invention combines several hormone and fertility tracking systems into a single device and provides clear steps and instructions to track women's monthly cycles. The midstream strips are compostable and will eliminate the waste of single use plastics with traditional tests.

Stage of Development

- TU Dublin is seeking commercial partners to assist in bringing this technology to market. We have created a proof of concept working prototype using a rapid software development tool kit. This prototype can identify the colours and number of lines shown on test strips using colour sensors.
- Patent Pending



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