



## 2023 December Edition

# Message from Principal Investigator Prof. Louise Hull

Welcome everyone to the Inaugural IMAGENDO® Newsletter. Wow 2023 has been a big year! We owe so much to all our wonderful participants, without who we would not have achieved the successes we have in striving to make the lives of individuals with endometriosis so much better.

Not only has our PhD Student Yuan Zhang won a major international award for her work, but the whole team was awarded the ANSTO Eureka Award for Innovative Use of Technology, which was totally unexpected.

We are going from strength to strength recruiting participants in our study, but we are also thinking about the future. We have completed a survey of 115 General Practitioners to find out what the barriers are for them when they treat people with pelvic pain, and we are presenting this work at a regional RANZCOG Conference next year. Our national collaborations have progressed and IMAGENDO now works with people in Victoria, New South Wales and Tasmania. We especially want this diagnostic model to help people in areas where health care may not be accessible for all people. We need international data to make sure that our algorithms reflect overseas people and met many international researchers and doctors at conferences including the World Congress of Endometriosis in Edinburgh, who have been very interested in our project and interested in collaboration.

We have applied for more funding to help us reach our goals and will continue to address the problem of delayed diagnosis for endometriosis. So thank you to everyone who has been a part of our project so far – we really appreciate all of your help.



## 2023 ANSTO Eureka Prize Winners!

IMAGENDO® team was awarded the 2023 ANSTO Eureka Prize for Innovative Use of Technology! The Eureka prizes are awarded annually for outstanding scientific achievement among individual scientist and research teams in Australia. The IMAGENDO® team includes more than 20 people spread across Australia, The UK and North America.

[Learn more](#)

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## Study Update

**960**

Participants in

**2**

Countries

**4**

States

**4**

Stages of the  
study

# Important News for Participants

To all our existing and new IMAGENDO® participants:

We've made some progressive changes to our data collection approach, as we are aware of the potential inherent bias within Artificial Intelligence (AI) systems. These changes come at a time when more demographic data is required to ensure the algorithm is void of any inherent bias for a sole population group. This additional information assists IMAGENDO® in representing and being a product for all.

Additional contribution by our participants will be required to reach this aim.

**What we need:** We will request five minutes of your time to complete a short survey. The survey will ask questions regarding your demographic information and medical symptoms prior to your participation.

Consistent with our data collection statement your identity and data remain anonymous. Participants will be sent an email containing **the survey link in the new year**, but if you have any questions regarding the nature of the survey or the questions involved, please contact the IMAGENDO® team at [endostudy@adelaide.edu.au](mailto:endostudy@adelaide.edu.au) or 0450 534 950.

We appreciate your time and contribution towards this important research.

Have you had bowel endometriosis diagnosed with MRI or ultrasound?



@imagendo\_australia

## We need your help

Have you had deep endometriosis within your bowel detected on ultrasound or MRI?

The IMAGENDO® team need more scans showing this particular type of endometriosis to help continue to build our algorithms. If you have bowel endo which was seen on an MRI or ultrasound, please consider donating your scans to our study.

To do this, visit our [website](#) .

## To our participants

We want to thank each and every one of our participants! This project would not be possible without you. Because of you, we are able to work towards improving the diagnosis of endometriosis.



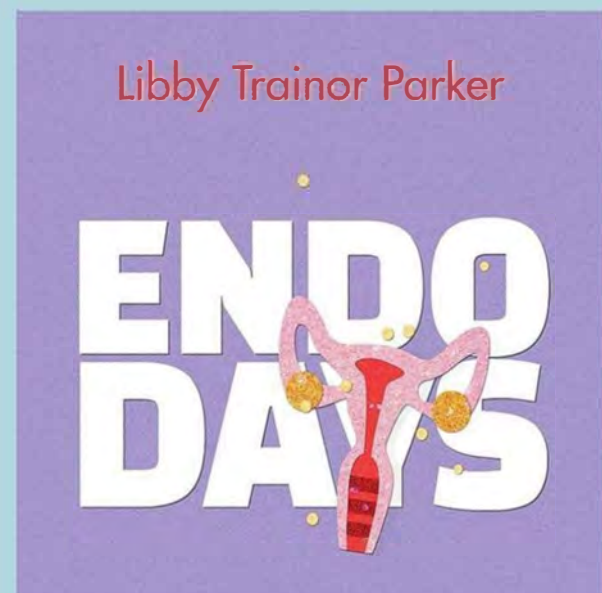
## University Giving Day

The University Giving Day this year was held on Mon 30th Oct 2023. A total of \$2,600 was gifted to IMAGENDO® to improve the diagnosis of endometriosis through imaging, the impact of which will benefit people around the world.



## Book: Endo Days

Endo Days is a frank, often funny and honest memoir told in a narrative journalism style, with Libby's own story as the central narrative, drawing on interviews with others with endometriosis (both women, men and non-binary), their partners - male and female, doctors and specialists, researchers and the wider endo community. Available [here](#)



## Want to know HOW we are teaching AI?

**A paper recently published by the team breaks down how we are training AI to diagnose endometriosis from ultrasounds and MRI.**

Our algorithm trains a model to detect endometriosis from trans-vaginal ultrasounds (TVUS), and it also trains another model with a large amount of pelvic MRIs. Next, we combine these images using AI techniques. Experimental results on our endometriosis dataset containing TVUS and MRI data demonstrates the effectiveness of our method to improve the detection of endometriosis in the Pouch of Douglas from MRI.

[Check out the full article here](#)



## End of Year Message from Program Manager Dr Jodie Avery

IMAGENDO® has gone from strength to strength in 2023. Our team has expanded and we have received many accolades along the way. We have been represented on the international stage. However, we could have not achieved any of this with the help of everyone who has participated and also all our collaborators. Everyday we are conscious of all of the support we are given to try and help solve the diagnostic delay for endometriosis and to try and improve the quality of life for people with endometriosis. I would like to wish all our participants, supporters and collaborators a very happy holiday season. Hopeful with lovely weather for a lovely break and we will see you next year for more IMAGENDO®.



### **Australasian Society for Ultrasound in Medicine 2023**

Karen Mizia, Mathew Leonardi, Jodie Avery, Talat Uppal, Emmaline Lee, Alison Deslandes



### **ASPIRE 2023**

Rebecca Kemer, Paula Scanlon, Jodie Avery, Libby Trainor Parker, Natalie, Catrina Pannucio, Alison Deslandes, Mathew Leonardi



### **World Congress of Endometriosis 2023**

Jodie Avery, Beck O'Hara, Diksha Sirahi



### **IMAGENDO® Team 2023**



**IMAGENDO**

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