



# Renal Anatomy and Physiology (renAR™)



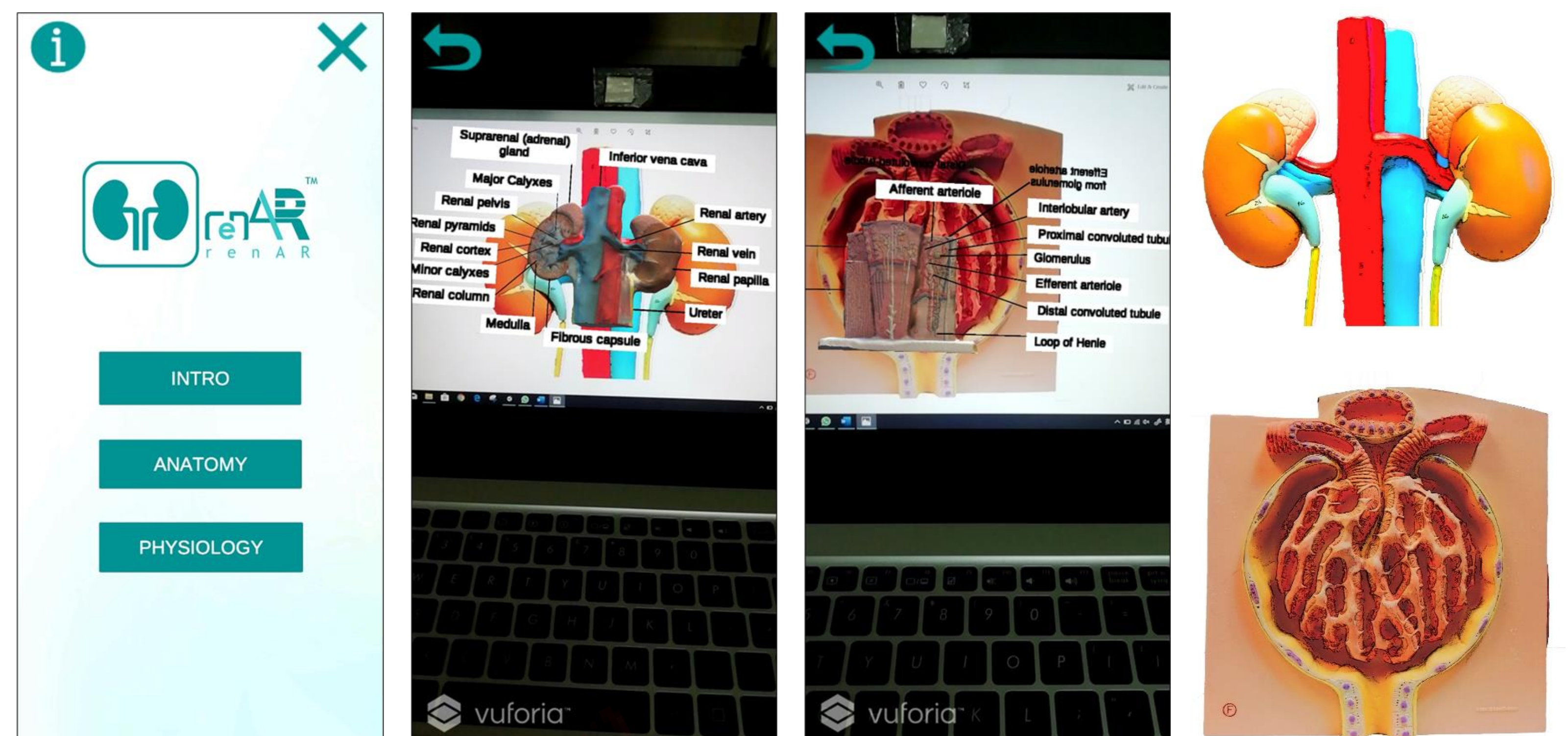
## Abstract

renAR™ is an Augmented Reality (AR) mobile application developed for the students and medical staff. renAR™ will be suitable for people who want to learn renal in more details and interactive ways. Various interactive features such as AR technology and 2D animation are embedded in renAR™ to make the study of renal to be more interesting and lively.

## Introduction

Renal is one of the organs which have a most complex structure in the human body. Hence, it always causes people to face problems in understanding and imagination of renal anatomy and physiology while to explain it to others. To deal with these issues, renAR™ is developed to help people to understand renal in detail. Also, renAR™ can help medical staff to explain renal to the patient or behalf of the patient easily.

## Results & Discussion



### Added Value:

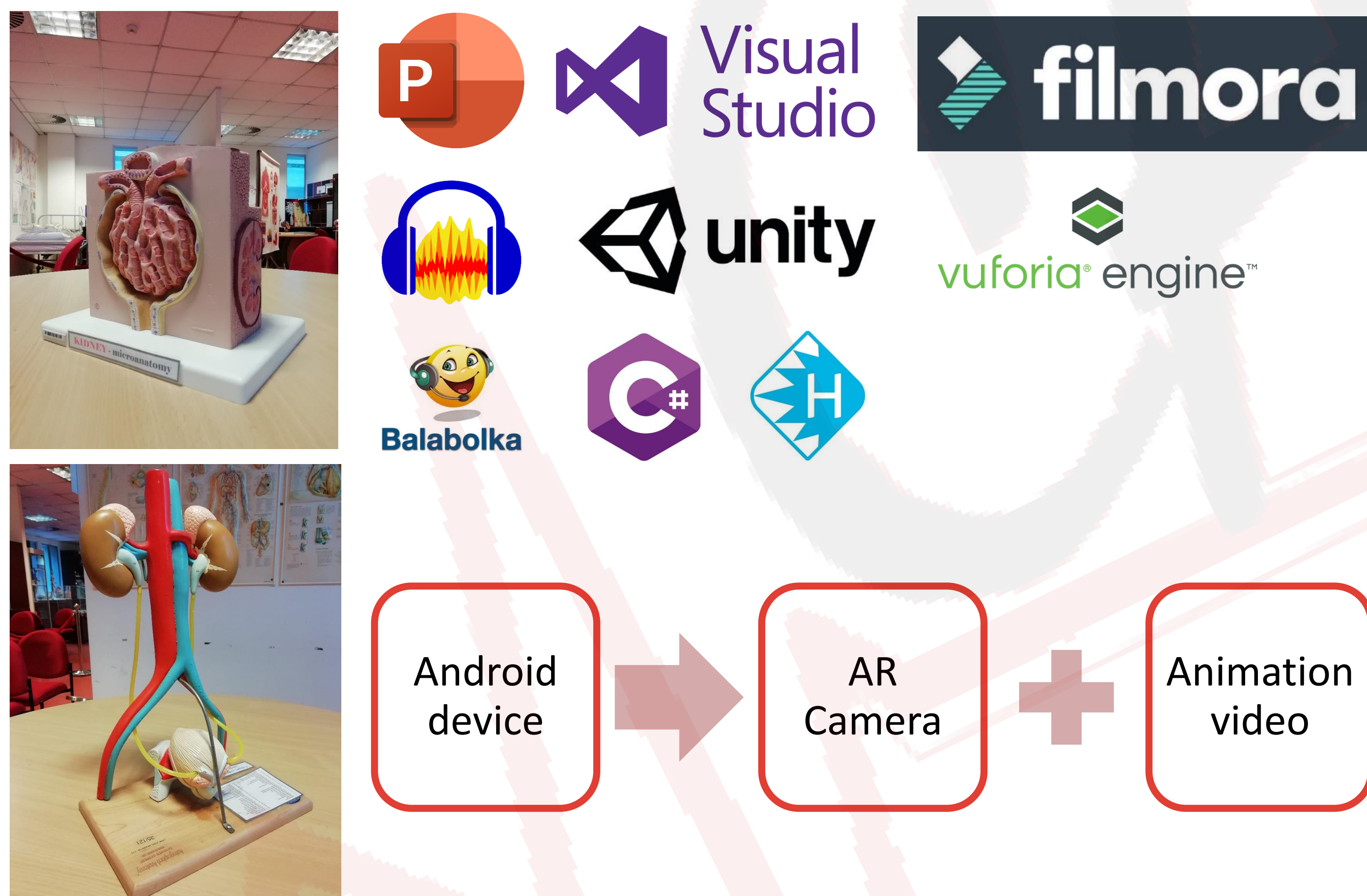
Realistic 3D model through AR + 2D animation video

### Recognition:

- 2 Copyright + 1 Trademark
- LY2020000515 (Source code)
- FM2020000509 (Video)



## Materials & Method



## Conclusion

By implementing renAR™, the study of renal could be more interesting and lively. renAR™ could be a great approach to help people especially students to explore renal. A new approach to Teaching and Learning (TnL) is innovated to suit the new generation in this project. Hopefully, more organs would be included in renAR™ or a new application to serve as a hub to study other organs even the full body.

## References

- Boundless.com. (n.d.). Physiology of the Kidneys. Retrieved from <https://courses.lumenlearning.com/boundless-ap/chapter/physiology-of-the-kidneys/>.
- Parker, S. (2007). The Human Body Book. London, Great Britain: Dorling Kindersley Limited.

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