# Participant questionnaire

## Section 1: Alignment and Interactions

**Q1: how would you rate the ease of aligning the kidney model with the tumour in the application?**

[ ] 1 (Not easy)

[ ] 2

[✓] 3

[ ] 4

[ ] 5 (very easy)

**Q2: How clear was the visualization of the kidney and the tumour in both the 3D and 2D video screens?**

[ ] 1 (Not clear)

[ ] 2

[ ] 3

[✓] 4

[ ] 5 (very clear)

**Q3: Were you able to clearly see the blood vessels in the video? Were you able to understand the surgical scene better by aligning the model?**

[] 1 (not clear)

[] 2

[] 3

[✓] 4

[] 5 (clear)

**Q4: Please rate the effectiveness of the 3D model in enhancing your understanding of the procedure**

[] 1 (not effective)

[] 2

[] 3

[] 4

[✓] 5 (very effective)

**Q5: Please rate the effectiveness of using two hands to interact with the 3D model compared to using a single hand for the video screens interaction.**

[] 1 (less effective)

[] 2

[✓] 3

[] 4

[] 5 (very effective)

**Q6: Which did you find more helpful for understanding the anatomy and the surgical procedure - the 3D video screen or the 2D video screen? Please explain your choice.**

Reason: 3D, as the image had a more realistic view

**Q7: Describe your experience interacting with the 3D anatomical patient model. What worked well, and what could be improved?**

Description: The user interface was really good. Very basic actions were required to use the interface, making its application easy and user friendly

## Section 2: Educational Value

**Q8: How effective do you think this application is for educating users about surgical cases**

[ ] 1 (not effective)

[ ] 2

[ ] 3

[ ] 4

[✓] 5 (effective)

**Q9: Compared to traditional learning methods (like textbooks or lectures), how effective do you find this mixed reality application in providing educational content?**

[ ] 1 (not effective)

[ ] 2

[ ] 3

[ ] 4

[✓] 5 (effective)

**Q10: What improvements or additional features would you suggest to enhance the educational value of this application?**

Suggestions: The 3D model could be more detailed and have a more realistic appearance (blood vessels, tissues, etc) for more complicated research. But to study basic anatomy as one would in medical school, this model would seem to suffice.

## Section 3: General Feedback

**Q11: What was your overall experience using this mixed reality platform? Feel free to include any additional comments or suggestions.**

Feedback: The overall experience was very smooth, as mentioned earlier the interface is extremely user-friendly making it easy for anyone to use.

**Q12: In which of the following areas would you recommend using this platform?**

[] Practice Training

[✓] Medical and Patient Education

[] Surgery

[] Rehabilitation

[] Patient Treatment