# 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?**

[] 1 (not clear)

[] 2

[] 3

[] 4

[✓] (not 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: 2D was much better as we could see the veins and the arteries, clearly identify the problem and cut down on the surgical producer time.***

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

***Description: It was a great experience and gave a better understanding of the problem. But the 3D model could have been even better by changing the colour scheme and added more details.***

## 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: Voice command could help the students rather than hand interactions. As mentioned earlier, 3d image can have more details and a different colour scheme.***

## Section 3: General Feedback

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

**Feedback: It is a better way to explain to students rather than traditional textbook methods. This makes the 3d version accessible to students at the beginning of their education, giving them a more realistic view of the human body.**

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

[] Practice Training

[] Medical and Patient Education

[] Surgery

[] Rehabilitation

[✓] Patient Treatment