Supplementary questionnaire section 3.

**Part I. Benign disease**

Benign tumors, unlike cancer, rarely show invasions and have a low risk of recurrence. Therefore, the importance of radicality for curative resection is relatively lower than in the case of malignant disease.

1. For benign tumor resection, assign numbers (1–3) indicating the preferred order of the following methods of operation.
   - Open surgery __
   - Laparoscopic surgery __
   - Robot-assisted surgery __

1-1. What was the most important factor in considering your order of preference?
   ① Risk of recurrence (radicality)
   ② Complication (safety)
   ③ Scar (cosmesis)
   ④ Pain
   ⑤ Quick return to normal life
   ⑥ Cost
   ⑦ Miscellaneous

2. If you were to choose between only laparoscopic surgery and robot-assisted surgery, which method would you choose?
   ① Laparoscopic surgery
   ② Robot-assisted surgery

2-1. What was the most important factor in that choice?
   ① Establishment of safety and efficacy
   ② Cost (Laparoscopic surgery: 4,200 USD; Robot-assisted surgery: 11,300 USD)
   ③ Expectations about new technologies
   ④ Uncertainty about new technologies
   ⑤ Miscellaneous

3-1. Compared to open surgery, what do you think is the most reasonable cost of laparoscopic surgery? (Currently, the cost is 1.8 times of open surgery)
   ① Same as open surgery (2,300 USD)
   ② Current cost is reasonable (4,200 USD)
   ③ Twice that of open surgery (4,600 USD)
   ④ Over twice that of open surgery (over 4,600 USD)

3-2. Assuming that robot-assisted surgery becomes an established method, what is its most reasonable cost compared to that of open surgery?
   ① Same as open surgery (2,300 USD)
   ② Three times that of open surgery (6,900 USD)
   ③ Four times that of open surgery (9,200 USD)
   ④ Current cost is reasonable (11,300 USD)
   ⑤ Current cost is reasonable (11,300 USD)
   ⑥ Over 5 times that of open surgery (over 11,500 USD)
Part II. Malignant disease

Malignant tumors (cancer) tend to invade the surrounding tissue, and the risk of recurrence is higher than that associated with benign tumors. Therefore, radicality for curative resection is relatively important.

1. For resection of malignant tumor, assign numbers (1–3) indicating the preferred order of the following methods of operation.
   - Open surgery
   - Laparoscopic surgery
   - Robot-assisted surgery

1-1. What was the most important factor in considering your order of preference?
   ① Risk of recurrence (radicality)
   ② Complication (safety)
   ③ Scar (cosmesis)
   ④ Pain
   ⑤ Quick return to normal life
   ⑥ Cost
   ⑦ Miscellaneous

2. If you were to choose between only laparoscopic surgery and robot-assisted surgery, which method would you choose?
   ① Laparoscopic surgery
   ② Robot-assisted surgery
   ③ Refuse surgery

2-1. What was the most important factor in that choice?
   ① Establishment of safety and efficacy
   ② Cost (Laparoscopic surgery: 4,200 USD; Robot-assisted surgery: 11,300 USD)
   ③ Expectations about new technologies
   ④ Uncertainty about new technologies
   ⑤ Miscellaneous

3. Compared to laparoscopic surgery, what do you think is the most reasonable cost of robot-assisted surgery in malignant cases? (Currently, the cost is 3 times of open surgery)
   ① Should be cheaper (less than 4,200 USD)
   ② Should be the same (4,200 USD)
   ③ 1.5 times that of laparoscopic surgery (6,300 USD)
   ④ Twice that of laparoscopic surgery (8,400 USD)
   ⑤ Three times of laparoscopic surgery (12,600 USD)
   ⑥ Over 3 times that of open surgery (over 12,600 USD)