Supplemental Materials for

Glove and instrument changing to prevent tumour seeding in cancer surgery: a survey of surgeons’ beliefs and practices

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Listing of Supplemental Material(s):

Supplemental Appendix 1: How do you handle gloves and instruments in cancer surgery?
Survey: How do you handle gloves and instruments in cancer surgery?

1- Years in practice as staff surgeon: □ ≤5 □ 6-10 □ 11-15 □ ≥16

2- Type of practice: □ Academic health sciences centre
   □ Community centre with university affiliation
   □ Community centre without university affiliation

3- Do you have fellowship training?: □ Yes □ No

4- If yes, what fellowship (select all that apply):
   □ Surgical Oncology □ Colorectal □ Breast □ Endocrine
   □ HPB □ MIS □ Pediatrics □ Thoracics
   □ Transplant □ Trauma □ Critical Care □ Acute Care Surgery
   □ Vascular □ Other:________

5- What percentage of your surgical cases are for cancer: □ 0-30% □ 31-70% □ >70%

6- What percentage of your cancer cases are for each type of cancer (if 0%: leave blank, total should be 100%)
   Breast:____% Colorectal:____% Liver/biliary:____% Pancreas:____% Gastric:____%  
   GI Neuroendocrine Tumour:____% Esophageal:____% Thyroid:____% Adrenal____%  
   Lung:____% Melanoma:____% Sarcoma:____% Lymphoma:____%  
   Non-melanoma skin cancer:____% Other (specify):________

7- a) Have you ever changed gloves at any point during a cancer operation with the intent of reducing the risk of tumour seeding? □ Yes □ No

   b) If yes, under what circumstance (if no, leave blank):

   

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8- a) Have you ever changed **instruments** at any point during a cancer operation with the intent of reducing the risk of tumour seeding?  

- Yes  
- No  

   b) If yes, under what circumstance (if no, leave blank):

9- If you answered “no” to questions #7 and #8, proceed to #10. If you answered “yes” to question(s) #7 and/or #8, what was the basis of your decision to change gloves and/or instruments? Select all that apply:  

- Clinical observation  
- Experimental evidence  
- Clinical training  
- Gut feeling  

- Other (please specify): __________________________________________________________

10- a) Do you take any measures to protect the wound from tumour seeding in **open** cancer resections?  

- Yes  
- No  

   b) If yes, specify (if no, leave blank):  

11- a) Do you take any measures to protect the wound from tumour seeding in **laparoscopic** cancer resections?  

- Yes  
- No  

   b) If yes, specify (if no, leave blank):  

12- Do you think that surgical **gloves** may harbour malignant cells capable of seeding the tumour bed and/or surgical wound?  

- definitely not  
- unlikely  
- possibly  
- probably  
- definitely
13- If surgical **gloves** harbour malignant cells, what do you think the likelihood is that these cells can lead to locoregional recurrence or wound recurrence?

- [ ] definitely not
- [ ] unlikely
- [ ] neutral
- [ ] probably
- [ ] definitely

14- Do you think that surgical **instruments** may harbour malignant cells capable of seeding the tumour bed and/or surgical wound?

- [ ] definitely not
- [ ] unlikely
- [ ] possibly
- [ ] probably
- [ ] definitely

15- If surgical **instruments** harbour malignant cells, what do you think the likelihood is that these cells can lead to locoregional recurrence or wound recurrence?

- [ ] definitely not
- [ ] unlikely
- [ ] neutral
- [ ] probably
- [ ] definitely

16- If there was evidence that surgical instruments and gloves harbour malignant cells that increase the risk of tumour recurrence, would this be of interest to you?

- [ ] Yes
- [ ] No
- [ ] Potentially, depending on the level of evidence

17- If there was evidence that surgical instruments and gloves harbour malignant cells that increase the risk of tumour recurrence, would you modify your surgical technique?

- [ ] very unlikely
- [ ] unlikely
- [ ] neutral
- [ ] probably
- [ ] definitely

18- Please provide any additional comments pertaining to the topic of surgical gloves and instruments as a vector for tumour seeding.