

Appendix 1 to Lipson ME, Deardon R, Switzer NJ, et al. Practice and attitudes regarding double gloving among staff surgeons and surgical trainees. *Can J Surg* 2018.

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Appendix 1: Staff Survey and Trainee Survey

Double Gloving Staff Survey

Staff Survey

Survey Items

- **Page One**

- **1) Are you affiliated with the:**
 - University of Alberta
 - University of Calgary
- **2) Are you a:**
 - Resident or Fellow (survey logic to go to Resident Survey)
 - **Staff Surgeon (survey logic to go to page Staff Survey)**
- **3) What is your primary area of practice?**
 - Cardiac Surgery
 - Colorectal Surgery
 - General Surgery
 - Neurosurgery
 - Obstetrics and Gynaecology
 - Ophthalmology
 - Orthopedic Surgery
 - Otolaryngology
 - Pediatric Surgery
 - Plastic Surgery
 - Surgical Oncology
 - Thoracic Surgery
 - Transplant Surgery
 - Urology
 - Vascular Surgery

- **Page 2**

- **4) Age**
 - <25
 - 25-29
 - 30-34
 - 35-39
 - 40-44
 - 45-49
 - 50-54
 - 55-59

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- 60-64
 - 65 or older
 - **5) Years in Practice** (enter value)
 - **6) Gender**
 - Female
 - Male
- **Page 3**
 - **7) Do you ever double glove in the operating room?**
 - Yes (Proceed to page 4)
 - No (Proceed to page 5)
- **Page 4 (if yes to question 7 from page 3) → after this page proceed to page 6**
 - **8) How often do you double glove?**
 - Always/Routinely
 - Rarely
 - Select Cases (please elaborate)
 - **9) What method of double gloving do you use?**
 - Larger glove on the inside
 - Larger glove on the outside
 - Two gloves of equal size
 - Glove liners
 - Other (please describe)
 - **10) When did you begin double gloving?** (Survey logic – choices of medical student, resident, and fellow redirect to question 11, choice of as a staff surgeon redirects to question 12).
 - As a medical student
 - As a resident
 - As a fellow
 - As a staff surgeon
 - **11) I began to double glove in training because:**
 - My staff double gloved and I followed their practice
 - My senior resident double gloved and I followed their practice
 - The nursing staff in the operating room double gloved and I followed their practice
 - I was explicitly told to double glove by a senior member of the surgical team such as a nurse, resident, or staff surgeon
 - I felt pressure from my staff or senior colleagues to double glove
 - **12) As a staff surgeon I chose to double glove because:**
 - My current trainees double glove
 - I felt it was the best way to protect my patients
 - I felt it was the best way to protect myself
 - I received a previous percutaneous injury/exposure
 - I want to set a good example
 - Other (please elaborate – free text box)

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- **Page 5 (if no to question 7 from page Three → after this page proceed to page 6)**
 - **13)** If you do not routinely double glove in the operating room, please rank the factors in order of importance that prevent you from double gloving (Likert Scale – least important, less important, neutral, more important, most important):
 - Habit/How you trained
 - Decrease in manual dexterity
 - Decreased comfort/Poor fit
 - Poor evidence for the practice of double gloving
 - Reduced tactile feedback
 - Low risk of contamination or percutaneous injury
 - Short procedures
 - Other (please elaborate)
 - **14)** If you do not routinely double glove in the operating room, please rank the factors in order of importance that would influence you to double glove for a procedure (Likert Scale – least influence, less influence, no influence, more influence, most influence)
 - My fellow or resident double gloves
 - Patient Factors
 - Suspected Infection
 - Known Infection
 - Procedure Factors
 - Complex
 - Lengthy
 - Delicacy
 - Bony Fragments
 - Expectation of potential for glove compromise
 - Sharp or heavy surgical instruments
- **Page 6 → after this page proceed to page 7**
 - **15)** Have you ever had a needle stick injury (i.e. a sharp has broken your skin)?
 - Yes
 - No
 - **16)** Do you routinely change out your gloves during procedures greater than 4 hours in length?
 - Yes
 - No
 - Procedures are all less than 4 hours in length
- **Page 7**
 - **17)** Do you wear eye protection in the operating room?
 - Yes (Proceed to page 9)
 - No (End of survey)
- **Page 8 → survey complete at end of this page**
 - **18)** How often do you wear eye protection while operating?

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- Always/Routinely
- Rarely
- Select Cases (please elaborate)
- **19)** What form of eye protection do you wear in the operating room?
 - Safety glasses
 - Prescription Glasses
 - Safety glasses overtop of prescription glasses
 - Surgical mask with integrated eye shield
 - Surgical Loupes

THANK YOU! THIS CONCLUDES THE SURVEY.

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Double Gloving Trainee Survey

Resident/Fellow Survey

Survey Items

- **Page One**
 - **1) Are you affiliated with the:**
 - University of Alberta
 - University of Calgary
 - **2) Are you a:**
 - **Resident or Fellow (survey logic to go to Trainee Survey)**
 - Staff Surgeon (survey logic to go to page Staff Survey)
 - **3) What is your primary area of practice?**
 - Cardiac Surgery
 - Colorectal Surgery
 - General Surgery
 - Neurosurgery
 - Obstetrics and Gynaecology
 - Ophthalmology
 - Orthopedic Surgery
 - Otolaryngology
 - Pediatric Surgery
 - Plastic Surgery
 - Surgical Oncology
 - Thoracic Surgery
 - Transplant Surgery
 - Urology
 - Vascular Surgery
- **Page 2**
 - **4) Age**
 - <25
 - 25-29
 - 30-34
 - 35-39
 - 40-44
 - 45-49
 - 50-54
 - 55-59
 - 60-64
 - 65 or older
 - **5) Year of Surgical Training (include research years in your total tally)**
 - PGY-1
 - PGY-2

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- PGY-3
 - PGY-4
 - PGY-5
 - PGY-6
 - PGY-7
 - PGY-8 or greater
 - **6) Gender**
 - Female
 - Male
- **Page 3**
 - **7) Do you ever double glove in the operating room?**
 - Yes (Proceed to page 4)
 - No (Proceed to page 5)
- **Page 4 (if yes to question 7 from page 3) → after this page proceed to page 6**
 - **8) How often do you double glove?**
 - Always/Routinely
 - Rarely
 - Select Cases (please elaborate)
 - **9) What method of double gloving do you use?**
 - Larger glove on the inside
 - Larger glove on the outside
 - Two gloves of equal size
 - Glove liners
 - Other (please describe)
 - **10) When did you begin double gloving?**
 - As a medical student
 - As a resident
 - As a fellow
 - **11) As a trainee, I double glove because:**
 - My staff/preceptors routinely double glove
 - My senior residents and fellows routinely double glove
 - The nursing staff in the operating room routinely double glove
 - I was explicitly told to double glove by another member of the surgical team such as a nurse, resident, or staff surgeon
 - I felt it was the best way to protect my patients
 - I felt it was the best way to protect myself
 - I experienced a previous percutaneous injury/exposure
 - I feel pressured to double glove
- **Page 5 (if no to question 7 from page Three → after this page proceed to page 6**
 - **12) If you do not routinely double glove in the operating room, please rank the factors in order of importance that prevent you from double gloving (Likert Scale – least important, less important, neutral, more important, most important):**
 - Habit/How you trained

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- Decrease in manual dexterity
 - Decreased comfort/Poor fit
 - Poor evidence for the practice of double gloving
 - Reduced tactile feedback
 - Low risk of contamination or percutaneous injury
 - Short procedures
 - Other (please elaborate)
 - **13)** If you do not routinely double glove in the operating room, please rank the factors that would influence you to double glove for a procedure (Likert Scale – least influence, less influence, no influence, more influence, most influence)
 - My staff double gloves
 - My fellow or senior resident double gloves
 - Patient Factors
 - Suspected Infection
 - Known Infection
 - Procedure Factors
 - Complex
 - Lengthy
 - Delicacy
 - Bony Fragments
 - Expectation of potential for glove compromise
 - Sharp or heavy surgical instruments
- **Page 6 → after this page proceed to page 7**
 - **14)** Have you ever had a needle stick injury (Have you ever had a needle stick injury (i.e. a sharp has broken your skin))?
 - Yes
 - No
 - **15)** Do you routinely change out your gloves during procedures greater than 4 hours in length?
 - Yes
 - No
 - Procedures are all less than 4 hours in length
- **Page 7**
 - **16)** Do you wear eye protection in the operating room?
 - Yes (Proceed to page 9)
 - No (End of survey)
- **Page 8 → survey complete at end of this page**
 - **17)** How often do you wear eye protection while operating?
 - Always/Routinely
 - Rarely
 - Select Cases (please elaborate)
 - **18)** What form of eye protection do you wear in the operating room?

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