

Supplementary Table 1. Distribution of conceptual perceptions regarding glove technologies

Survey questions and response options	n (Responses)	Participant %*
Question 1: What does the term "barrier glove" mean to you?		
Mechanical/physical resistance	72	65.5
Antimicrobial/biological protection	38	34.5
Question 2: What is the primary protective mechanism of antimicrobial barrier gloves?		
Providing a thicker physical layer than standard gloves	51	46.4
Reducing pathogen load through activation of an internal agent upon perforation	63	57.3
Eliminating the need for hand disinfection	8	7.3
The outer surface is always sterile and protects only the patient	12	10.9
Must always be worn as the outer glove in double-gloving	24	21.8
I do not know	14	12.7
Question 3: What is the main difference between orthopedic (heavy-duty) gloves and standard surgical gloves?		
Higher micron thickness	79	71.8
Containing antibiotics	36	32.7
Being latex-free	11	10.0
Being manufactured as double-layered gloves	15	13.6
Question 4: In a case involving a known infectious disease, which glove strategy do you prefer?		
Double standard gloves	53	48.2
Orthopedic + standard glove	19	17.3
Antimicrobial + standard glove	14	12.7
Single standard glove	12	10.9
Antimicrobial + orthopedic glove	7	6.4
Layer sequence does not affect protection	5	4.5

*For multiple-response questions, percentages were calculated based on the total number of participants (n = 110); therefore, totals may exceed 100%.