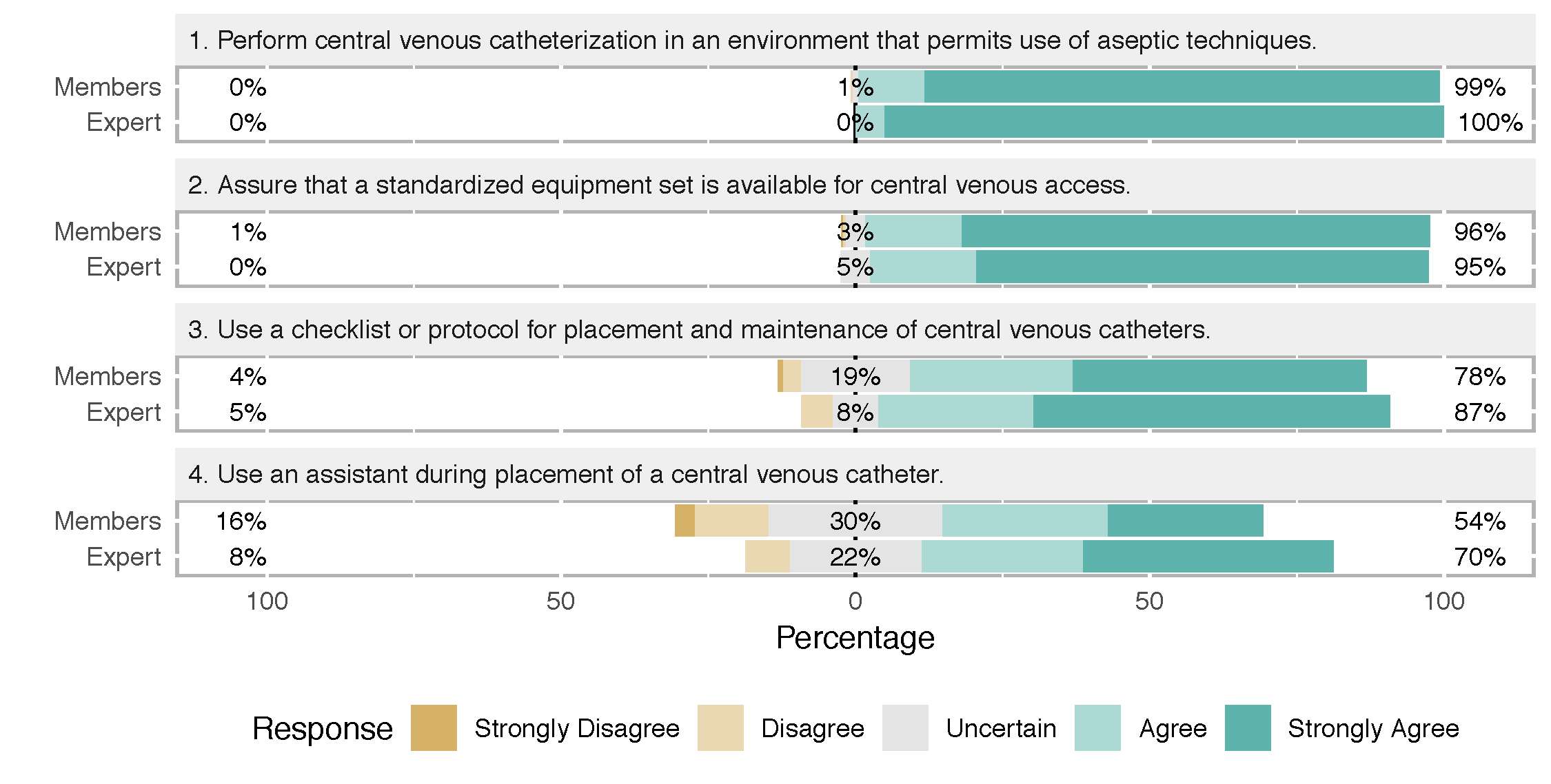
**Practice Guidelines for Central Venous Access: Update 2020**

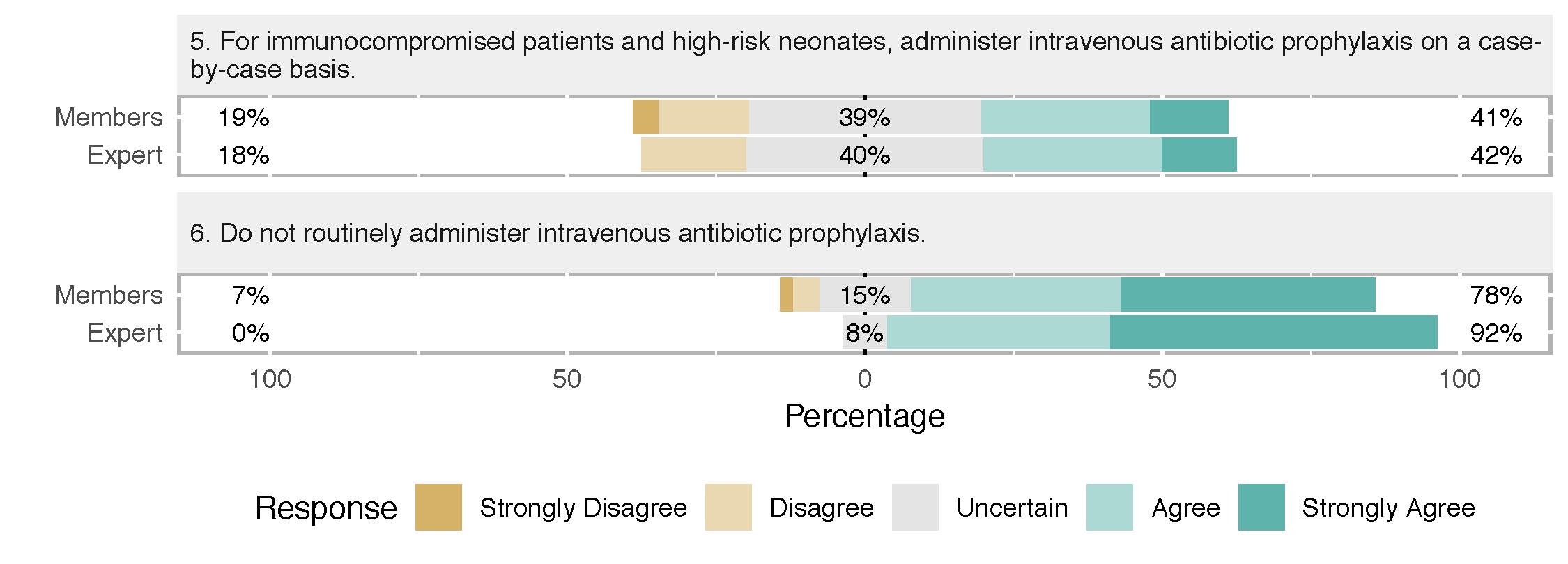
**Supplement 5: Bar Chart of Survey Results**

**Resource Preparation**

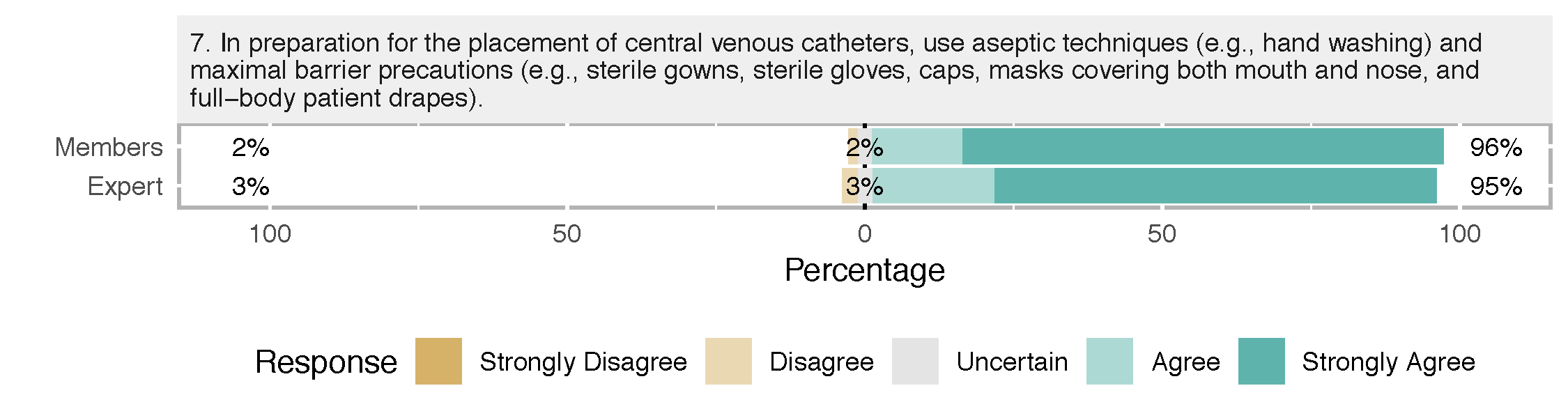


**Prevention of Infections Complications**

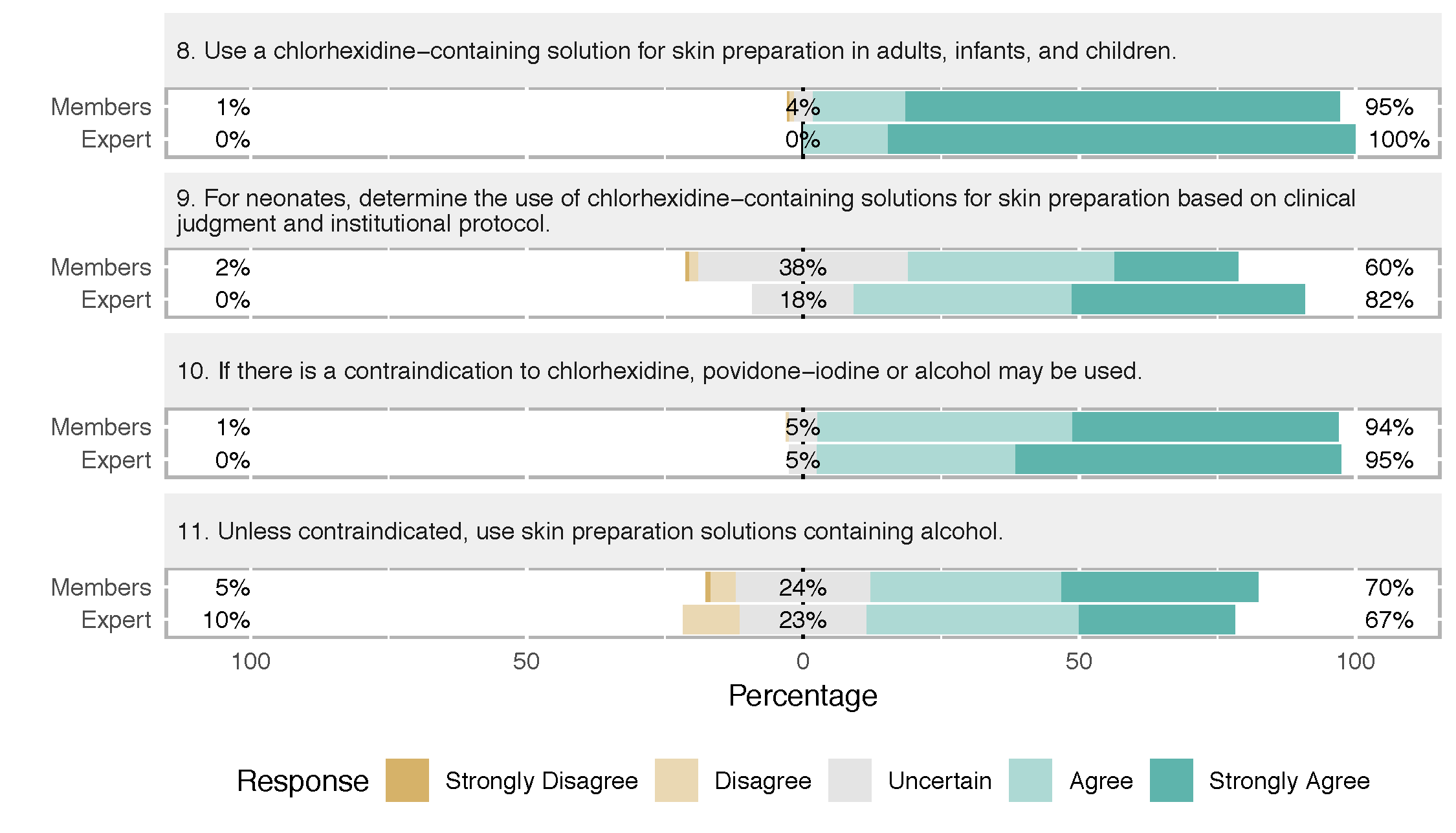
*Intravenous Antibiotic Prophylaxis*



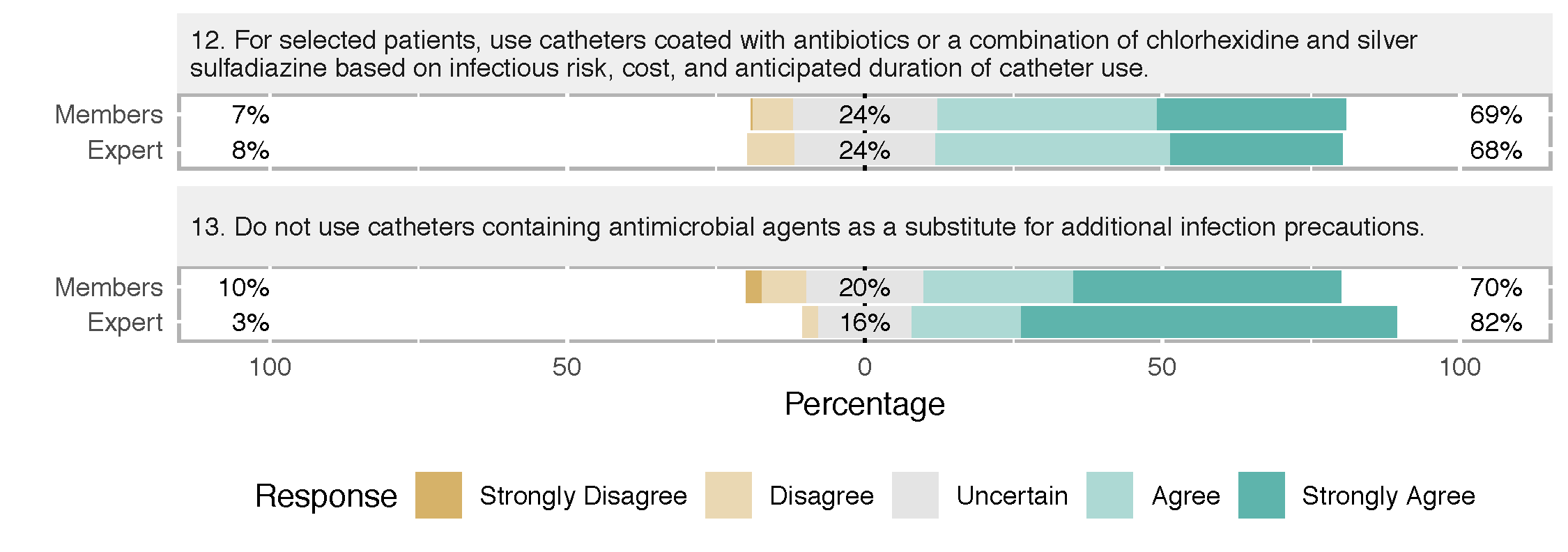
*Aseptic Preparation*



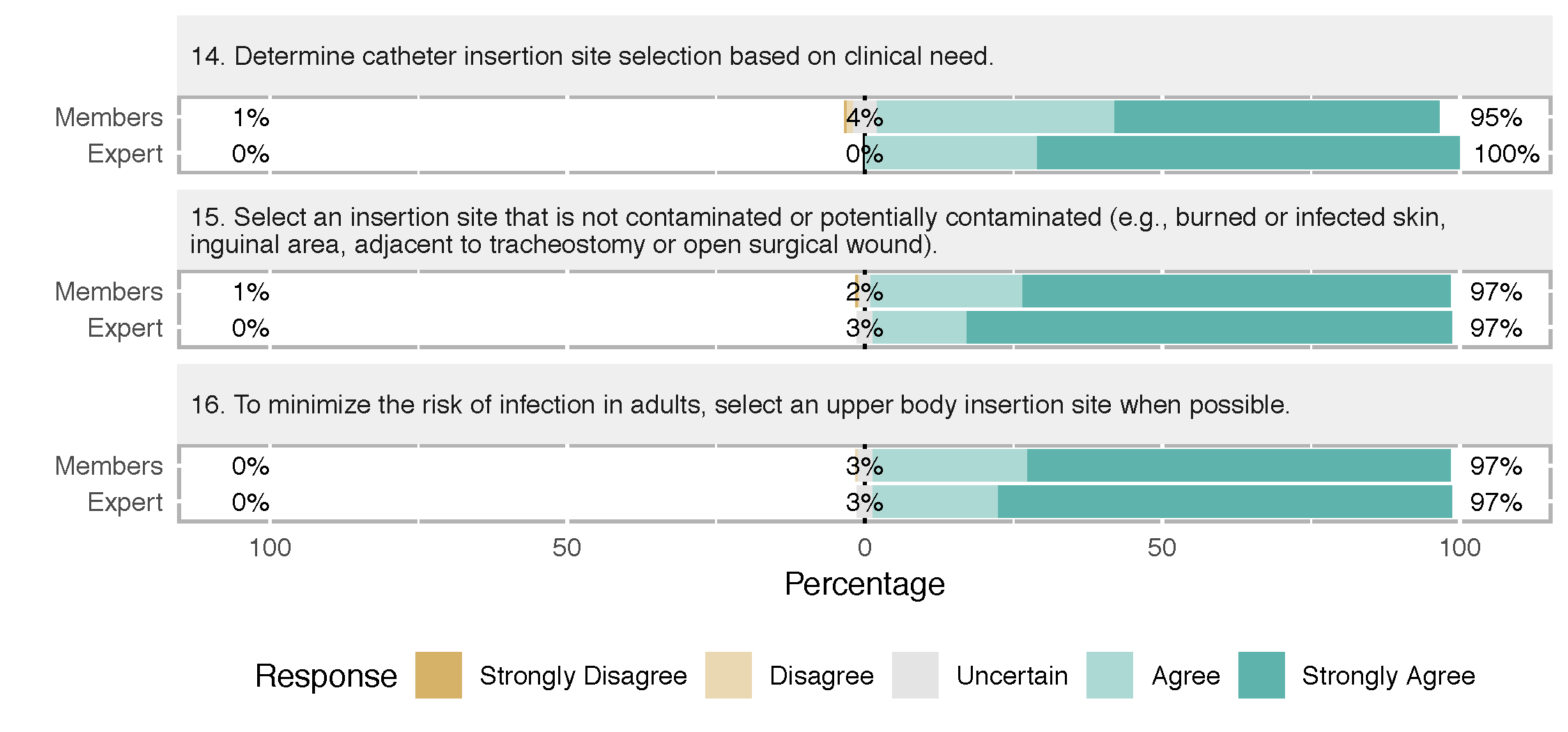
*Selection of Antiseptic Solution*



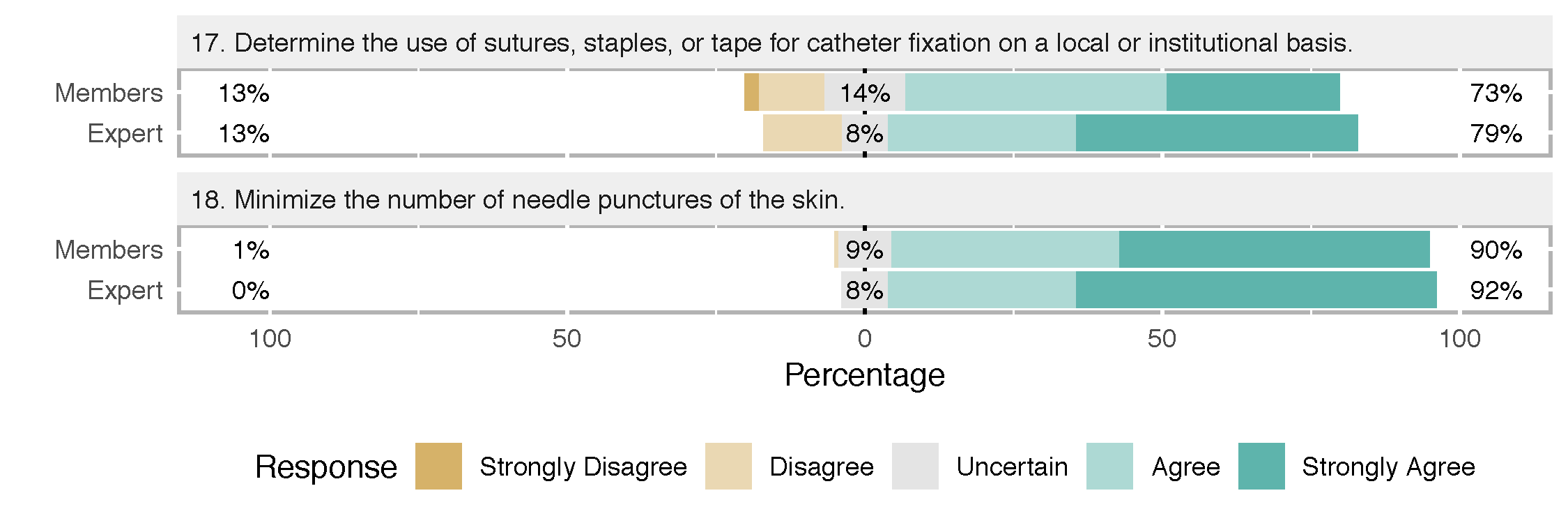
*Catheters Containing Antimicrobial Agents*



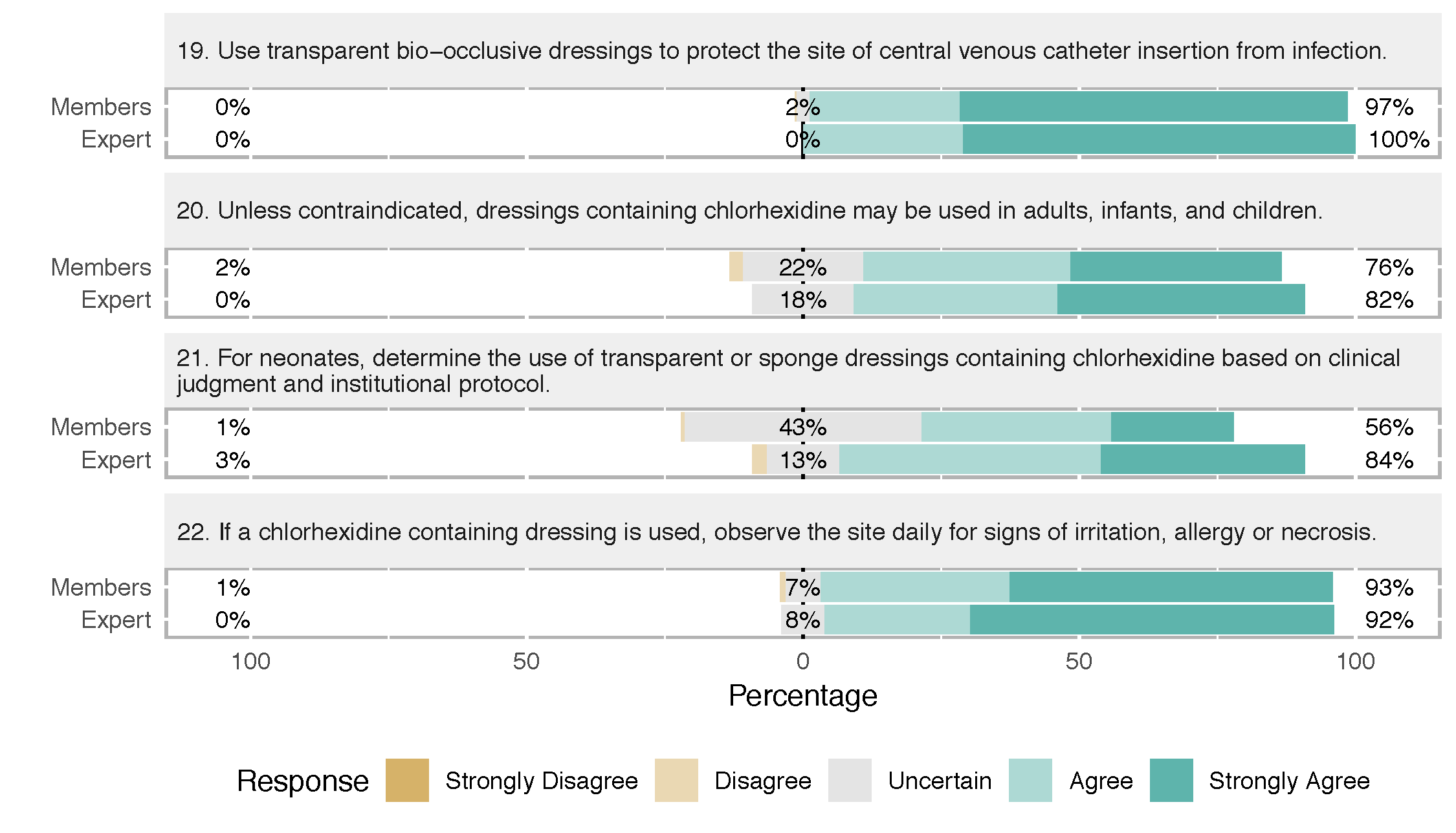
*Selection of Catheter Insertion Site*



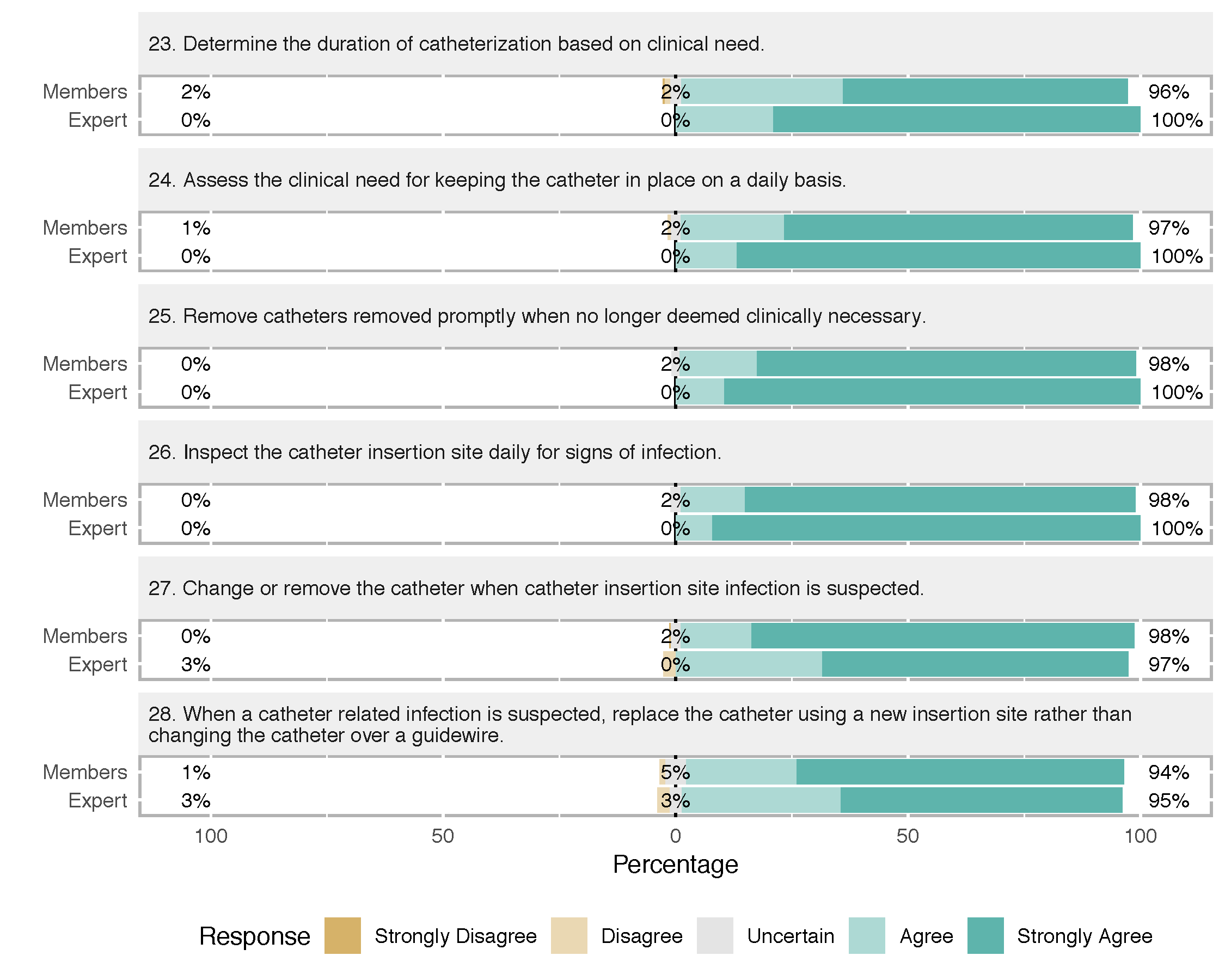
***Catheter Fixation***



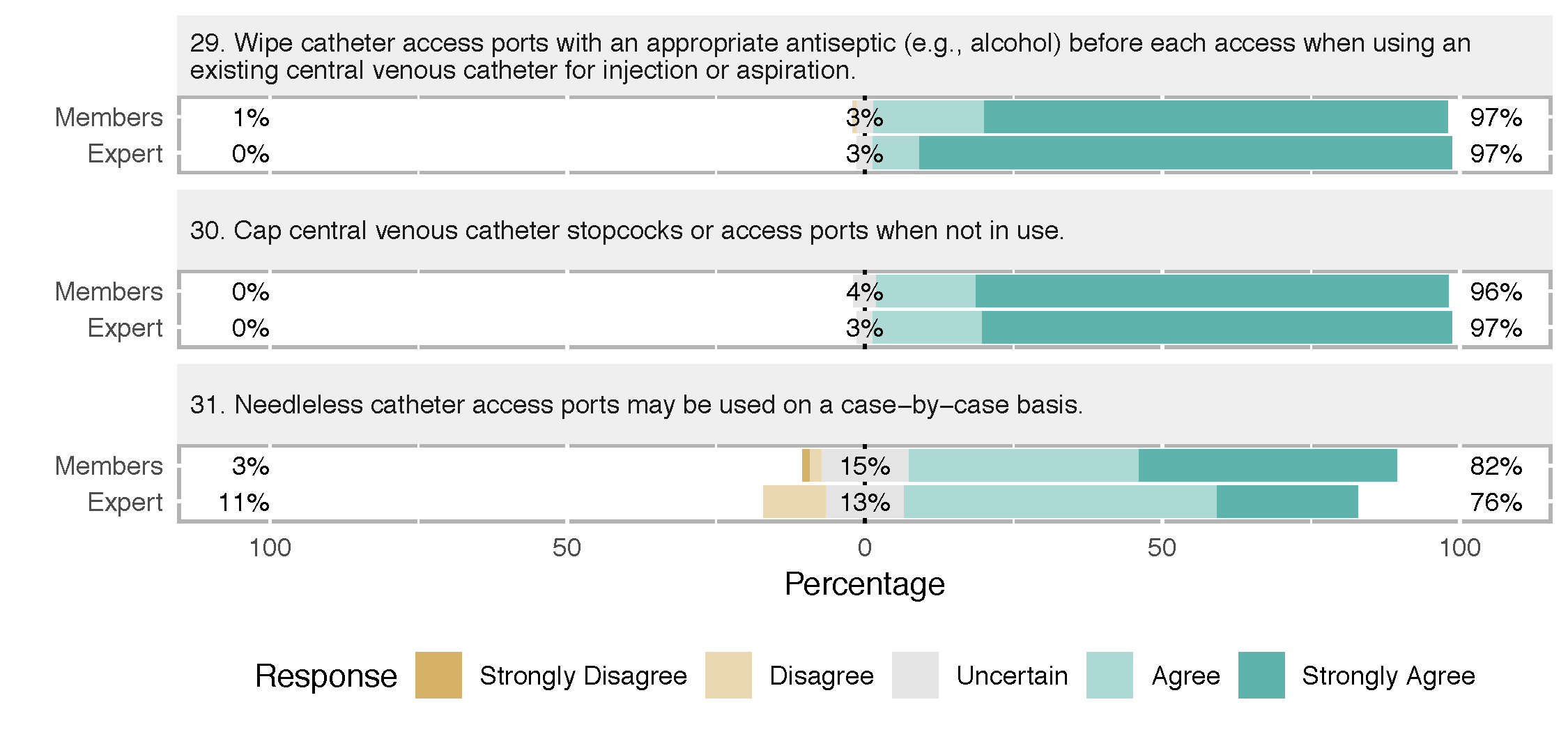
***Insertion Site Dressings***



***Catheter Maintenance***

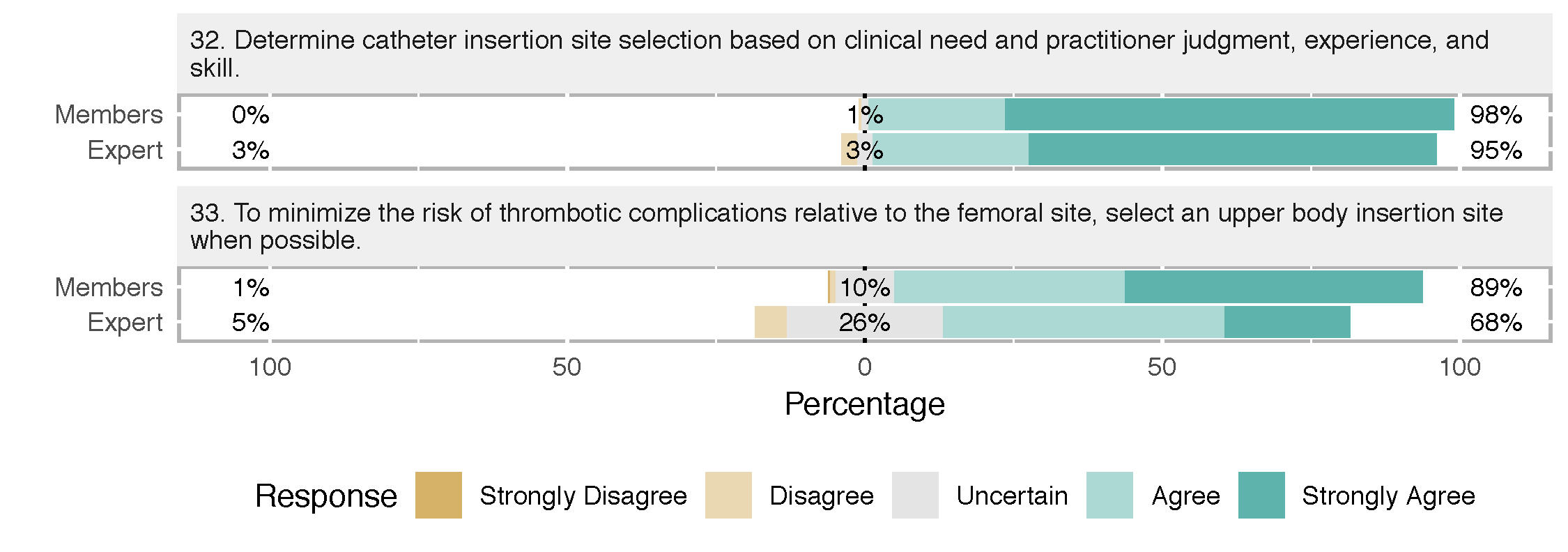
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***Aseptic Techniques Using an Existing Central Venous Catheter for Injection or Aspiration***

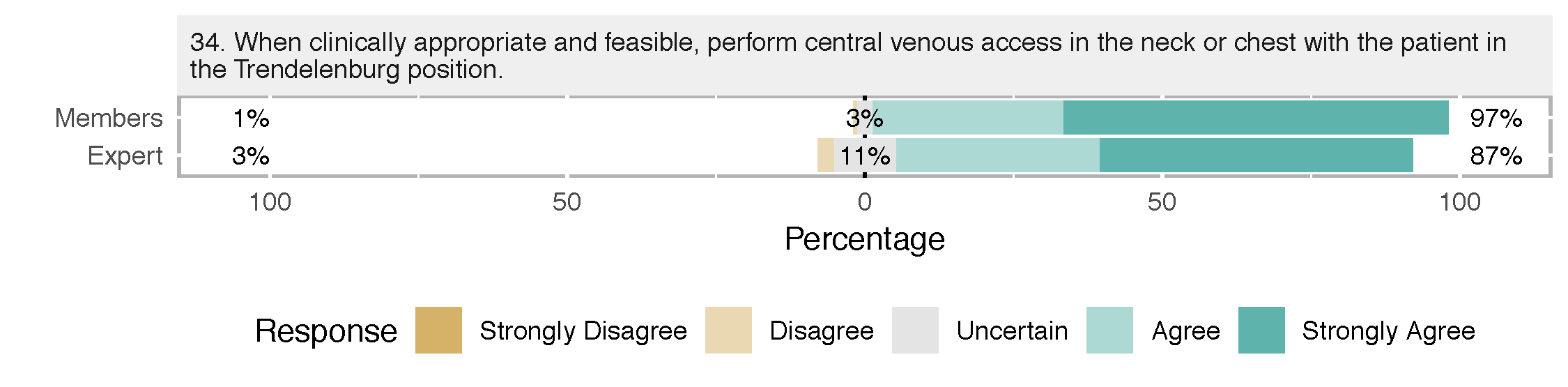
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**Prevention of Mechanical Trauma or Injury**

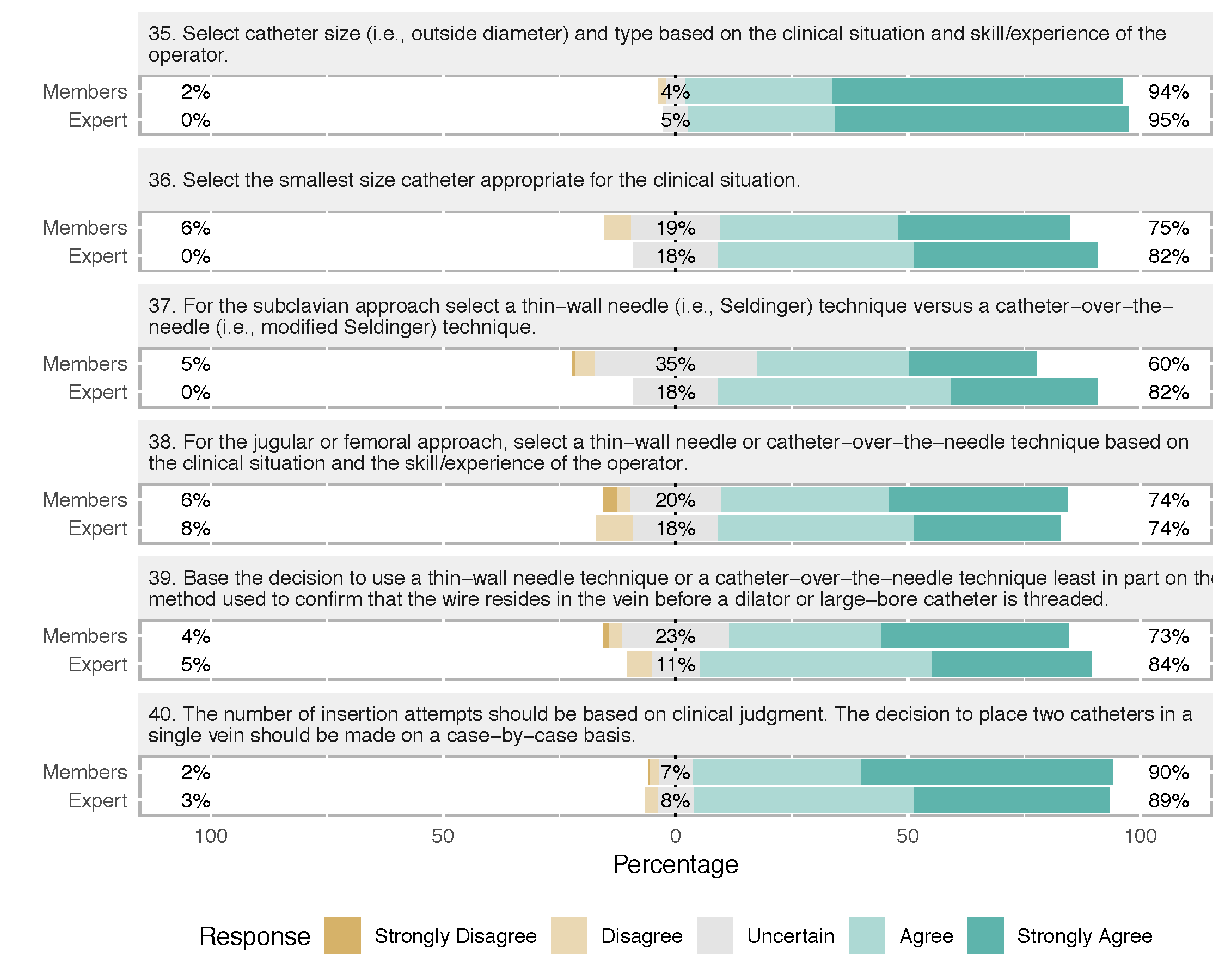
***Catheter Insertion Site Selection***

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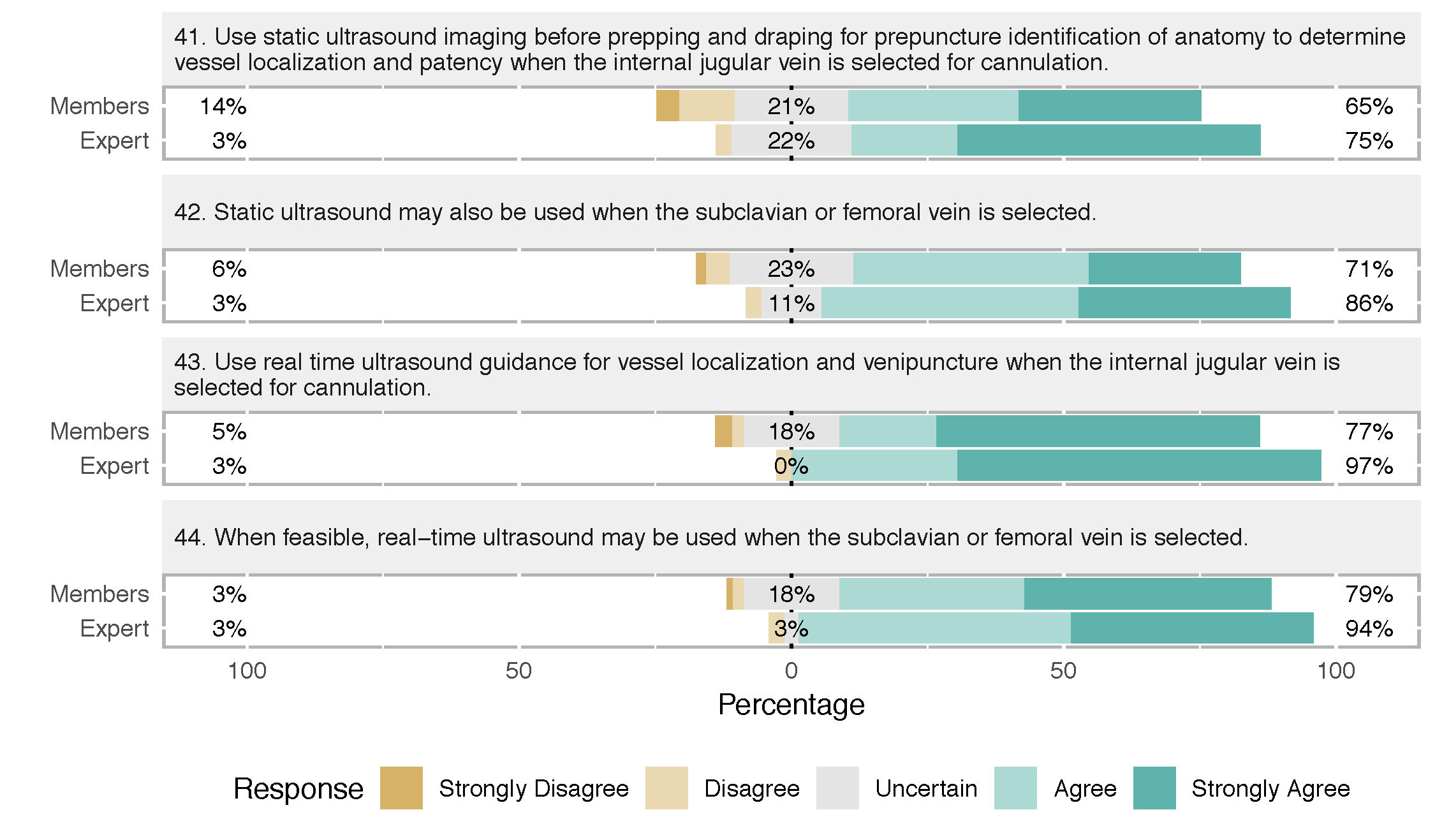
***Positioning the Patient for Needle Insertion and Catheter Placement***



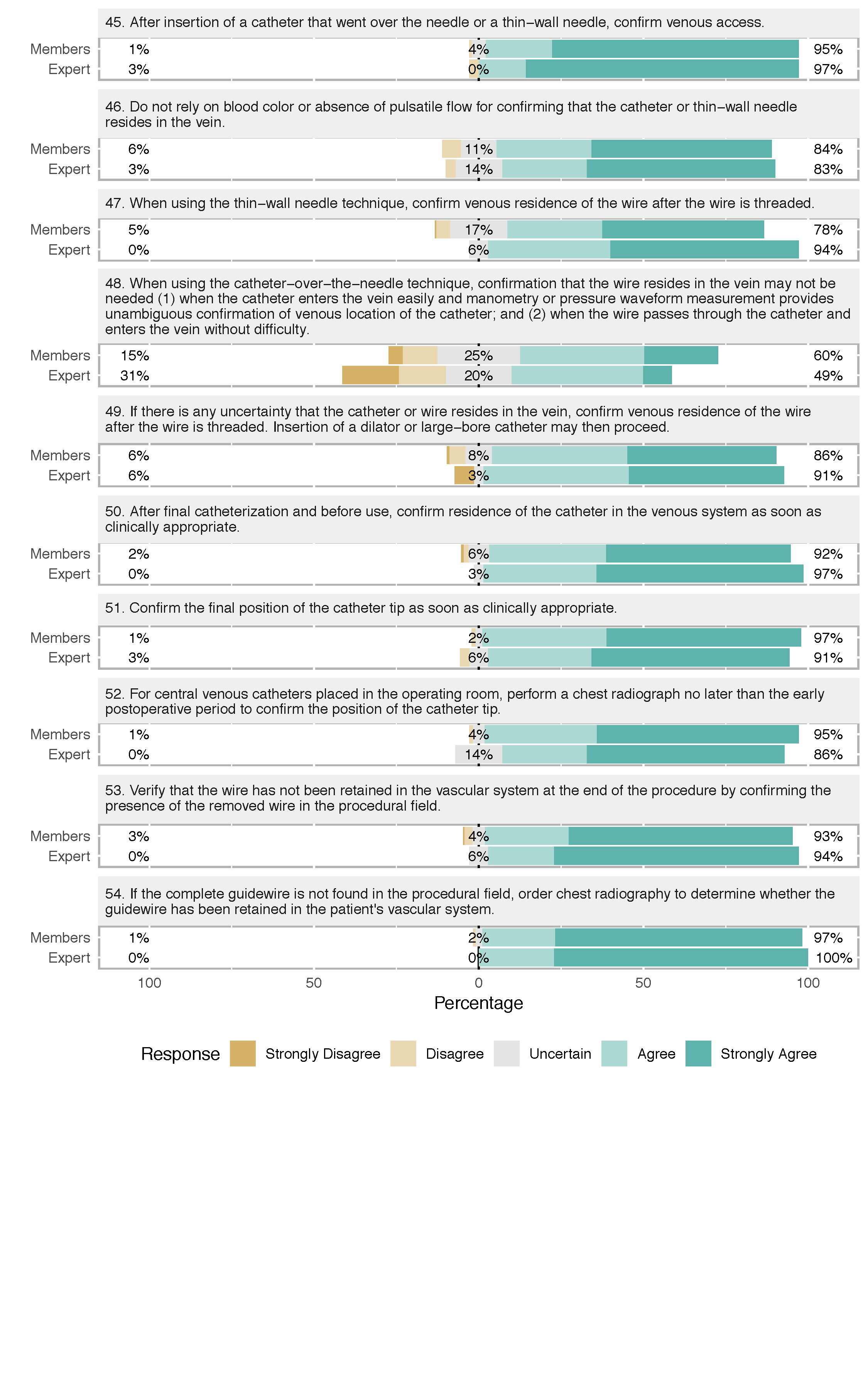
***Needle Insertion, Wire Placement, and Catheter Placement***



***Guidance of Needle, Wire, and Catheter Placement***



***Verification of Needle, Wire, and Catheter Placement***



***Management of Arterial Trauma or Injury Arising from Central Venous Catheterization***

