####

Infection Prevention in the Anesthesia Work Area: *Appendix*

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# Table 1. Elements included in infection prevention and control policies for anesthesia providers in the OR *(21 respondents)*

|  |  |
| --- | --- |
| **Element** | **Number (%)**  |
| Hand hygiene | 20 (95.2) |
| Central line placement | 18 (85.7) |
| Management of patient with airborne pathogen | 17 (81) |
| Cleaning and disinfection (including frequency)Anesthesia machineAnesthesia cartComputers & keyboards | 16 (76.2)14 (66.7)6 (28.6) |
| Glove use | 15 (71.4) |
| Management of patient with antimicrobial resistant organism (ARO)  | 15 (71.4) |
| Arterial line placement | 14 (66.7) |
| Alcohol based hand rub (ABHR) at point of care | 13 (61.9) |
| Safe injection practices | 13 (61.9) |
| Management of patient with droplet pathogen | 11 (52.5) |

# Table 2. Audited anesthesia provider infection prevention and control practices in the OR

|  |  |
| --- | --- |
| **Audited practice**  | **Number (%)** |
| Hand hygiene | 43 (79.6) |
| ABHR at point of care | 33 (61.1) |
| Central line placement | 31 (57.4) |
| Safe injection practices | 29 (53.7) |
| Glove use  | 27 (50) |
| Precautions for patients with ARO | 17 (31.5)  |
| Arterial line placement | 15 (27.8) |
| Cleaning and disinfectionAnesthesia machine with marker\*Anesthesia machine without marker\*Anesthesia cart with marker\*Anesthesia cart without marker\*Computer & keyboard with marker\*Computer & keyboard without marker\* | 5 (9.3)15 (27.8)4 (7.4)12 (22.2)3 (5.6)11 (20.4) |
| Precautions for patient with droplet pathogen | 13 (24.1) |
| Precautions for patient with airborne pathogen | 11 (20.4) |

#### \* marker= either fluorescent markers or ATP measurements

# Table 3. Institutional infection prevention and control practices in the OR

|  |  |  |  |
| --- | --- | --- | --- |
| **Practice** | **Yes (%)** | **No (%)** | **Don't know (%)** |
| Entire anesthesia work area cleaned/disinfected between every patient  | 398 (56) | 270 (38) | 43 (6) |
| Anesthesia machine cleaned/disinfected between every patient | 482 (68.1) | 189 (26.7) | 37 (5.2) |
| Anesthesia cart cleaned/disinfected between every patient | 323 (45.8) | 319 (45.3) | 63 (8.9) |
| Anesthesia monitoring equipment cleaned/disinfected between every patient | 600 (84.7) | 90 (12.7) | 18 (2.6) |
| Clearly demarcated clean vs contaminated zones | 236 (33.1) | 433 (60.7) | 44 (6.2) |
| Procedures to prevent contamination of supply cart interior | 236 (33.3) | 346 (48.9) | 126 (17.8) |
| Processes to distinguish clean vs contaminated airway equipment | 612 (86.3) | 71 (10) | 26 (3.7) |

# Table 4. Anesthesia provider practices in the OR

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Practice** | **Always (%)** | **Usually (%)** | **Sometimes (%)** | **Rarely (%)** | **Never (%)** |
| Inject into needle-free port | 358 (50.1) | 191 (26.8) |  105 (14.7) |  38 (5.3) |  22 (3.1) |
| Alcohol before injecting | 257 (35.9) |  228 (31.9) |  147 (20.6) |  60 (8.4) |  23 (3.2) |
| Recap between uses with same patient | 434 (60.8) |  174 (24.2) |  57 (8) | 14 (2) |  34(4.8) |
| Dispose needle/ syringe between every patient | 652 (91.6) |  48 (6.7) |  7 (1) |  1 (0.1) |  4 (0.6) |
| Use multi-dose vials for > 1 patient | 21 (2.9) |  75 (10.5) |  158 (22.1) |  156 (21.8) |  305 (42.7) |
| Perform HH on entry to OR | 324 (45.3) |  213 (29.8) |  101 (14.1) | 58 (8.1) |  19 (2.7) |
| Perform HH on exit from OR | 297 (41.8) |  220 (30.9) |  112 (15.8) |  67 (9.4) | 15 (2.1) |
| Perform HH before patient contact | 412 (57.8) | 222 (31.1) |  65 (9.1) |  11 (1.5) | 3 (0.4) |
| Perform HH after patient contact | 434 (60.9) |  206 (28.9) |  56 (7.8) | 15 (2.1) | 2 (0.3) |
| Perform HH after contact with bodily fluids | 679 (95) |  31 (4.3) |  4 (0.6) |  0 |  1 (0.1) |
| Wear gloves for airway management (AM) | 622 (87.1) |  61 (8.5) | 21 (2.9) |  8 (1.1) |  2 (0.3) |
| Remove gloves and do HH following AM | 306 (42.9) |  183 (25.7) |  124 (17.4) |  64 (9) |  36 (5) |
| Do HH on gloved hands  | 47 (6.6) | 18 (2.5) |  44 (6.2) |  43 (6) |  561 (78.7) |
| Double-glove & remove outer glove | 27 (3.8) |  23 (3.2) |  66 (9.3) |  88 (12.4) | 508 (71.3) |
| Remove gloves before entry into cart drawers | 359 (50.3) |  252 (35.3) | 66 (9.2) |  18 (2.5) | 19 (2.7) |
| HH before entry into cart drawers | 89 (12.5) |  143 (20.1) |  225 (31.6) | 152 (21.3) |  103 (14.5) |