**SUPPLEMENTAL DIGITAL CONTENT 4**

*Endotracheal tubes collected*

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| Endotracheal Tube Model | Size (mm) | Control group (n) | Treatment group (n) |
| Mallinckrodt Hi−Lo Oral/Nasal Tracheal Tube(Covidien, Mansfield, MA) | 6.5 | 1 | - |
| 7.0 | 4 | 7 |
| 7.5 | 12 | 7 |
| 8.0 | 4 | 2 |
| Rusch Safety Clear Plus Endotracheal Tube(Teleflex Medical, Research Triangle Park, NC) | 7.0 | 1 | 3 |
| 7.5 | 11 | 7 |
| 8.0 | 2 | 1 |
| Sheridan/HVT Tracheal Tube(Teleflex Medical, Research Triangle Park, NC) | 7.0 | 1 | - |
| 7.5 | - | 2 |
| 8.0 | 1 | 1 |
| Mallinckrodt TaperGuard Evac(Covidien, Mansfield, MA) | 7.5 | - | 1 |
| 8.0 | - | 1 |
| SourceMark Standard High Volume – Low Pressure ETT (SourceMark, Brentwood, TN) | 7.5 | - | 1 |
| Vital Signs RediTube Tracheal Tube(Vital Signs, Silver Spring, MD) | 8.0 | - | 1 |