**SUPPLEMENTAL DIGITAL CONTENT 7**

Table 1 – In-hospital follow-up (n= 71 patients)

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|  | Control group(n=35) | Treatment group (n=36) |
| ICU Dead, No. (%) | 12 (34) | 9 (25) |
| Hospital Dead, No. (%) | 12 (34) | 11 (31) |
| Ventilator-free days, median [IQR] | 17.1 [0 – 23.5] | 16.5 [0 – 23.4] |
| VAP, clinical diagnosis, No. (%) | 3 (9) | 4 (11) |
| ICU Length of Stay, median [IQR] | 13 [8.8 – 21] | 15.5 [8.1 – 22] |
| Hospital Length of Stay, median [IQR] | 21 [12 – 30] | 22.5 [13.9 – 36] |
| Tracheostomy, No. (%) | 9 (26) | 7 (19) |

ICU: Intensive Care Unit; IQR: Interquartile Range; VAP: Ventilator-Associated Pneumonia; VAE: Ventilator-Associated Event

Table 2 - Staff Feedback Survey

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| 1) Did you experience any adverse event? |
| Yes: 0/280% | No: 28/28100% |
| 2) Ease of setup and use was: |
| Excellent: 11/2839% | Good: 13/2846% | Fair: 4/2814% | Poor: 0/280% |
| 3) Do you generally perceive secretion removal as a problem: |
| Yes: 24/2886% | No: 4/2814% |
| 4) How do you compare endOclear to standard suctioning? |
| Much better: 4/2814% | Better: 19/2868% | The same 5/2818% | Worse/Much Worse: 0/280% |
| 5) Compared to what expected, the amount of secretions removed was: |
| More: 13/2846% | Equal: 9/2832% | Less: 6/2821% | Don’t know: 0/280% |
| 6) Would you recommend endOclear cleaning in all intubated patients? |
| Yes: 15/2854% | No: 13/2846% |
| 7) In which category of patients do you think it would be useful? |
| Nobody:1/28(4%) | Post-Surgery 0/28 | Medical ICU 5/28(18%) | COPD3/28(11%) | Acute Respiratory Failure: 2/28 | Any patient ventilated for more than 48h: 10/28 |
| 8) Average score from 1-10: |
| 7.1±2.1 |
| Relevant comments:* It should be used as a “rescue” system
* Would be better with a closed circuit system (2 comments)
* Effective at removing ETT plugs and casts
* Helpful in avoiding endotracheal tube exchange for mucous plugs
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