**Table 2** Characteristics of patients with and without ventilator-associated pneumonia (VAP) in intensive care units (ICU) in a teaching hospital in Tehran

| Variable | VAP +ve (n = 11) | VAP –ve (n = 40) | P-value | Mean difference (95% CI) |
|---|---|---|---|---|
| Mean (SD) age (years) | 59.1 (15.2) | 51.7 (16.6) | 0.43 | – |
| Male/female sex ratio | 8/3 | 27/13 | 0.74 | – |
| Comorbidity (no. & % of patients) | | | | |
|    Yes | 7 (63.6) | 27 (67.5) | 0.81 | – |
|    No | 4 (36.4) | 13 (32.5) | – | – |
| Admission diagnosis (No. & % of patients) | | | | |
|    Trauma | 1 (9.1) | 6 (15.0) | 0.80 | – |
|    Candidate for surgery | 7 (63.6) | 26 (65.0) | – | – |
|    Medical problems[a] | 3 (27.3) | 8 (20.0) | – | – |
| Mean (SD) length of stay in ICU (days) | 40.7 (9.8) | 19.0 (2.2) | 0.002 | 21.7 (8.5–34.8) |
| Mean (SD) duration of mechanical ventilation (days) | 39.1 (9.5) | 16.8 (1.9) | 0.04 | 22.2 (0.8–43.8) |
| Reintubated (no. & % of patients) | 9 (81.8) | 19 (47.5) | 0.04 | – |
| Mean (SD) no. of intubations | 2.4 (0.2) | 1.7 (0.1) | 0.03 | 0.7 (0.1–1.3) |

[a]Including diabetes, hypertension.

SD = standard deviation; CI = confidence interval.