**Table 4**. Risk factors for complications after surgical tracheostomy

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | With complications | Without complications | p value | OR (95% CI) |
| Patients, n (%) | 49 (17) | 239 (83) | N/A | N/A |
| Complications |  |  |  |  |
| Bleeding, n (%) | 11 (4) | N/A | N/A | N/A |
| Infection, n (%) | 29 (10) | N/A | N/A | N/A |
| Subcutaneous emphysema, n (%) | 16 (6) | N/A | N/A | N/A |
| Age (years), median [IQR] | 64 (56–74) | 63 (47–73) | 0.21 | N/A |
| Male, n (%) | 36 (73) | 148 (62) | 0.14 | 1.7 (0.86–3.38) |
| BMI ≥ 25, n (%) | 10 (20) | 46 (19) | 0.84 | 1.08 (0.5–2.31) |
| DM, n (%) | 12 (24) | 52 (22) | 0.71 | 1.17 (0.57–2.4) |
| HT, n (%) | 17 (35) | 75 (31) | 0.74 | 1.16 (0.61–2.22) |
| Local anesthesia (without intubation), n (%) | 17 (35) | 40 (17) | 0.01\*\* | 0.38 (0.19–0.75) |
| Airway emergency, n (%) | 12 (24) | 27(11) | 0.02\* | 2.55 (1.19–5.47) |
| Antithrombotic drug, n (%) | 6 (12) | 34 (14) | 0.82 | 0.84 (0.33–2.13) |
| Laboratory data |  |  |  |  |
| Albumin level (g/dL) < 3.0, n (%) | 33 (67) | 169 (71) | 0.73 | 0.85 (0.44–1.65) |
| Lymphocyte count (/μL) < 1500, n (%) | 37 (76) | 201 (84) | 0.15 | 0.58 (0.28–1.22) |
| Platelet count (/μL) < 50000, n (%) | 0 (0) | 9 (4) | 0.37 | 0.25 (0.01–4.28) |
| PT (s) > 14, n (%) | 11 (22) | 38 (16) | 0.30 | 1.53 (0.72–3.26) |
| APTT (s) > 40, n (%) | 11 (22) | 33 (14) | 0.13 | 1.81 (0.84–3.88) |
| PT-INR > 1.5, n (%) | 2 (4) | 12 (5) | 1.00 | 0.8 (0.17–3.72) |
|  |  |  |  |  |

BMI: body mass index; DM: diabetes mellitus; HT: hypertension; PT: prothrombin time; APTT: activated partial thromboplastin time; PT-INR: prothrombin time-international normalized ratio; OR: odds ratio; CI: confidence interval; IQR: interquartile range; N/A: not applicable. \*: p < 0.05 was considered statistically significant; \*\*: p < 0.01.