STable 3: Influencing factors by linear regression analysis in different risk groups

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|  |  | **Univariate linear regression**  | **Multivariate linear regression**  |
|  |  | **βCoefficient** **(95% CI)** | **P**  | **βCoefficient** **(95% CI)** | **P**  |
| **Factor for PAP** |
| High-risk | NT-proBNP(pg/ml) | 0.003(0.001,0.006) | 0.011 | 0.003(0.001,0.006) | 0.010 |
| OI (mmHg) | –0.018(–0.075, 0.039) | 0.519 | –0.010(–0.063, 0.043) | 0.751 |
| TNI (ng/ml) | –4.060(–35.932, 27.812) | 0.796 | –12.899 (–43.486, 17.689) | 0.395 |
| Intermediate-risk | NT-proBNP(pg/ml) | 0.000(–0.001,0.002) | 0.180 | 0.001(0.000,0.002) | 0.228 |
| OI (mmHg) | –0.015(–0.036, 0.006) | 0.161 | –0.014(–0.035, 0.007) | 0.199 |
| TNI (ng/ml) | 0.750(–3.889, 5.389) | 0.749 | –0.221 (–4.965, 4.522) | 0.926 |
| Low-risk | NT-proBNP(pg/ml) | 0.007(–0.018,0.004) | 0.145 | 0.004(–0.006,0.014) | 0.466 |
| OI (mmHg) | –0.007(–0.018, 0.004) | 0.186 | –0.007(–0.018, 0.003) | 0.179 |
| TNI (ng/ml) | 126.951(–9.274, 263.176) | 0.067 | 108.915 (–38.793, 265.263) | 0.146 |
| **Factor for PVO** |
| High-risk | NT-proBNP(pg/ml) | 0.000(–0.001, 0.001) | 0.317 | 0.000(–0.002,0.001) | 0.342 |
| OI (mmHg) | –0.005(–0.031, 0.022) | 0.729 | –0.005(–0.033, 0.023) | 0.707 |
| TNI (ng/ml) | –2.373(–17.261, 12.515) | 0.747 | –0.017 (–-16.037, 16.002) | 0.998 |
| Intermediate-risk | NT-proBNP(pg/ml) | 0.000(–0.002, 0.001) | 0.487 | 0.000(–0.002,0.001) | 0.318 |
| OI (mmHg) | 0.004(–0.022, 0.029) | 0.778 | 0.005(–0.021, 0.030) | 0.716 |
| TNI (ng/ml) | 3.826(–1.630, 9.283) | 0.167 | 4.567 (–-1.076, 10.211) | 0.111 |
| Low-risk | NT-proBNP(pg/ml) | 0.023(–0.002, 0.048) | 0.065 | 0.026(0.000,0.053) | 0.058 |
| OI (mmHg) | –0.026 (–0.054, 0.002) | 0.072 | –0.024(–0.052, 0.004) | 0.094 |
| TNI (ng/ml) | –2.876 (–373.209, 367.457) | 0.988 | –140.075 (–-532.316, 252.166) | 0.480 |

NOTE: TNI: troponin I; NT-proBNP: N-terminal pro-brain natriuretic peptide; PAP: pulmonary artery pressure; PVO: pulmonary vascular obstruction, OI: oxygenation index.