Supplementary Material

Work-related Injuries of Rehabilitation Therapists and Measures for Prevention

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**Lable:**

**Table 1:** The results of univariable logistic regression

**Table 2:** Results of ROC curves of various factors for work-related injuries.

**Table 3:** Results of ROC curves of prevention strategies for work-related injuries.

**Table 1: The results of univariable logistic regression**

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| --- | --- | --- | --- |
| **Characteristic** | **N(%)** | **OR (95%CI)** | **P** |
| **Age**  | 30.6 (6.57) | 1.00 (0.97 - 1.03) | 0.935 |
| **Gender** |
| Male | 553 (46.2%)  | 1 | 1 |
| Female | 643 (53.8%)  | 1.28 (0.91 - 1.80) | 0.151 |
| **BMI (kg/m2)** | 25.2 (9.69) | 1.01 (0.99 - 1.03) | 0.427 |
| **Working time (years)**  | 7.16 (5.27)  | 1.03 (1.00 - 1.07) | 0.087 |
| **Time of work per week (days)**  | 5.49 (0.63)  | 0.97 (0.74 - 1.28) | 0.823 |
| **Time of work per day (hours)**  |  7.59 (1.10) | 1.03 (0.88 - 1.21) | 0.682 |
| **Frequency of treatment of patients per day (n)**  | 11.5 (9.34) | 1.02 (0.99 - 1.04) | 0.189 |
| **Type of occupation** |
| Therapist working for physical factor therapy |  84 (7.02%)  | 1 | 1 |
| neuro-physiotherapists | 469 (39.2%)  | 2.338 (1.284 - 4.257) | 0.005 \*\*  |
| musculoskeletal physiotherapists | 214 (17.9%)  | 2.265 (1.150 - 4.458) | 0.018 \* |
| occupational therapists | 145 (12.1%)  | 1.375 (0.696 - 2.716) | 0.359  |
| speech therapists | 80 (6.69%)  | 1.545 (0.691 - 3.457) | 0.289  |
| physiotherapists for intensive care unit | 53 (4.43%)  | 4.545 (1.269 - 16.288) | 0.020 \*  |
| traditional chiropractors | 32 (2.68%)  | 1.182 (0.422 - 3.308) | 0.750  |
| acupuncturists | 39 (3.26%)  | 1.247 (0.473 - 3.288) | 0.656  |
| other therapists | 80 (6.69%)  | 1.406 (0.638 - 3.098) | 0.398  |
| **Degree** |
| junior college | 193 (16.1%) | 1 | 1 |
| bachelor | 905 (75.7%) | 1.21 (0.78 - 1.90) | 0.396 |
| Master  | 81 (6.77%) | 0.89 (0.43 - 1.82) | 0.744 |
| Doctor | 9 (0.75%) | 0.59 (0.12 - 3.01) | 0.529 |
| Others | 8 (0.67%) | 1.19 (0.14 - 10.03) | 0.874 |
| **Protective measures at work** |
| Changing posture |  |  |  |
| No | 144 (12.0%) | 1 | 1 |
| Yes | 1052 (88.0% | 1.49 (0.93 - 2.38) | 0.095 |
| Utilizing equipment |  |  |  |
| No | 570 (47.7%) | 1 | 1 |
| Yes | 626 (52.3%) | 0.60 (0.42 - 0.85) | 0.004\*\* |
| Improving technology |  |  |  |
| No | 614 (51.3%) | 1 | 1 |
| Yes | 582 (48.7%) | 0.49 (0.35 - 0.69) | <0.001\*\*\* |
| Wearing protective device |  |  |  |
| No | 887 (74.2%) | 1 | 1 |
| Yes | 309 (25.8%) | 1.04 (0.71 - 1.54) | 0.837 |
| Patient engagement |  |  |  |
| No | 426 (35.6%) | 1 | 1 |
| Yes | 770 (64.4%) | 0.36 (0.23 - 0.55) | <0.001\*\*\* |
| Making full use of interns and trainees |  |  |  |
| No | 841 (70.3%) | 1 | 1 |
| Yes | 355 (29.7%) | 0.87 (0.61 - 1.25) | 0.452 |
| No protective measures |  |  |  |
| No | 1133 (94.7% | 1 | 1 |
| Yes | 63 (5.27%) | 0.89 (0.43 - 1.84) | 0.748 |
| **Relevant educational pathways** |
| Never | 242 (20.2%) | 1 | 1 |
| Self-study | 358 (29.9%) | 0.98 (0.51 - 1.88) | 0.947 |
| Peer communication | 492 (41.1%) | 0.54 (0.30 - 0.96) | 0.036\*\* |
| School curriculum | 104 (8.70%) | 0.43 (0.21 - 0.90) | 0.025\*\* |
| **Exercise** |
| Don't have a habit of regular exercise | 747 (62.5%) | 1 | 1 |
| Have a habit of regular exercise | 449 (37.5%) | 0.58 (0.40 - 0.84) | 0.004\*\* |
| **Work Unit** |
| The tertiary general hospitals | 790 (66.1%)  | 1 | 1 |
| The secondary general hospitals  | 216 (18.1%) | 0.84 (0.54 - 1.30) | 0.431 |
| The community health organizations | 26 (2.17%) | 0.45 (0.18 - 1.15) | 0.095 |
| Specialized rehabilitation organizations | 131 (11.0%) | 0.97 (0.55 - 1.71) | 0.918 |
| Health-related industry organizations | 33 (2.76%) | 0.36 (0.16 - 0.80) | 0.012\* |

Note: \*P<0.05, \*\*P<0.01\*\*\*, P<0.001.

**Table 2:** Results of ROC curves of various factors for work-relted injuries

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| --- |
| **Area Under Curve (AUC)** |
| Test variable | AUC | standant errora | Progressive Sig.b | 95% C.I. |
| lower | upper |
| PT | 0.589 | 0.024 | <0.001 | 0.542 | 0.637 |
| Years of work | 0.582 | 0.027 | 0.003 | 0.528 | 0.635 |

**Table 3:** Results of ROC curves of prevention strategies for work-related injuries.

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| --- |
| **Area Under Curve (AUC)** |
| Test variable | AUC | standant errora | Progressive Sig.b | 95% C.I. |
| lower | upper |
| Utilizing equipment | 0.563 | 0.021 | 0.003 | 0.522 |  0.604  |
| Improving technology | 0.587 | 0.021  | <0.001 | 0.547 | 0.628 |
| Patient engagement | 0.601 | 0.017 | <0.001 | 0.567 | 0.635 |
| Relevant education  | 0.611 | 0.022  | <0.001 | 0.568 | 0.654 |
| Habit of regular exercise | 0.573 | 0.021 | <0.001 | 0.531 | 0.616 |