**Table S1.** Multilevel logistic regression examining individual characteristics, pain-related factors and family functioning associated with depressive symptoms

|  |  |  |  |
| --- | --- | --- | --- |
| Variables | Odds Ratio | | |
| Model 1 | Model 2 | Model 3 |
| **1. individual characteristics** |  |  |  |
| Age | 1.02\*\* | 1.01 | 1.01 |
| Sex | 1.17 | 1.12 | 0.99 |
| Marital status | 0.58\*\* | 0.68 | 0.77 |
| Educational level |  |  |  |
| Secondary school | 1.54\* | 1.22 | 1.25 |
| Senior high school | 1.16 | 1.02 | 0.91 |
| Junior college | 0.86 | 0.87 | 0.80 |
| University or above | 0.91 | 1.02 | 1.16 |
| Work status |  |  |  |
| Manual worker | 1.16 | 1.55 | 1.34 |
| Non-manual worker | 1.96\*\* | 1.54 | 1.24 |
| Monthly personal income | 0.51\*\*\* | 0.63\* | 0.67 |
| Medical insurance | 3.12\*\*\* | 1.74\* | 1.46 |
| 2. pain-related factors |  |  |  |
| Pain severity |  | 1.14\*\*\* | 1.13\*\*\* |
| Duration of pain |  |  |  |
| 6 months to 1 years |  | 1.41 | 1.10 |
| 1 to 3 years |  | 3.87\*\*\* | 2.91\*\*\* |
| 3 to 5 years |  | 4.67\*\*\* | 3.09\*\* |
| ＞5 years |  | 1.82 | 1.33 |
| Pain self-efficacy |  | 0.94\*\*\* | 0.94\*\*\* |
| 3. family function |  |  |  |
| Good family function |  |  | 0.25\*\*\* |
| Moderate family dysfunction |  |  | 0.47\*\* |
| **-2 log likelihood** | 1228.43 | 865.60 | 834.55 |
| **Akaike’s information criterion (AIC)** | 1252.43 | 901.60 | 874.55 |
| **Schwarz criterion (SC)** | 1313.22 | 992.80 | 975.88 |

\**P* value < 0.05, \*\* *P* value < 0.01, \*\*\* *P* value < 0.001.