### Supplement 1. General characteristics of inpatients with work-related injuries in 2010-2014 by age sub-group

|                          | 20-34 (N=2,116) | 35-49 (N=4,091) | 50-64 (N=4,485) | ≥65 (N=1,413) | p     |
|--------------------------|-----------------|-----------------|-----------------|--------------|-------|
| **Sex**                  |                 |                 |                 |              | <0.001|
| Male                     | 1,871 (91.2)    | 3629 (88.4)     | 3737 (82.3)     | 966 (66.9)   |       |
| Female                   | 245 (8.8)       | 462 (11.6)      | 748 (17.7)      | 447 (33.1)   |       |
| **Admission route**      |                 |                 |                 |              | 0.032 |
| ER                       | 1,370 (63.9)    | 2,757 (65.5)    | 2,968 (63.5)    | 906 (60.8)   |       |
| Outpatient clinic        | 744 (36.1)      | 1,331 (34.5)    | 1,515 (36.5)    | 507 (39.2)   |       |
| **Financial resource**   |                 |                 |                 |              | <0.001|
| NHI                      | 1037 (46.9)     | 2047 (48.3)     | 2407 (51.8)     | 1,060 (74.3) |       |
| Medical aid              | 19 (0.8)        | 66 (1.6)        | 67 (1.5)        | 45 (3.5)     |       |
| IACI                     | 637 (31.7)      | 1401 (35.5)     | 1449 (33.8)     | 186 (13.7)   |       |
| Car insurance            | 200 (8.6)       | 265 (6.3)       | 292 (6.4)       | 94 (6.3)     |       |
| Others                   | 221 (11.3)      | 312 (8.3)       | 269 (6.5)       | 28 (2.2)     |       |
| **Charlson co-morbidity index** | 0.01 (0.002) | 0.02 (0.003) | 0.03 (0.004) | 0.15 (0.012) <0.001 |
| **Hospitalization period(days)** | 17.51 (1.530) | 20.07 (0.568) | 22.63 (0.987) | 18.96 (0.694) 0.005 |
| **Undergoing surgical operation** |                 |                 |                 | <0.001 |
| Yes                      | 1,258 (58.1)    | 2,474 (58.8)    | 2,537 (54.5)    | 714 (47.9)   |       |
| No                       | 858 (41.9)      | 1,617 (41.2)    | 1,948 (45.5)    | 699 (52.1)   |       |
| **Treatment outcome**    |                 |                 |                 |              | 0.039 |
| Getting better           | 2052 (96.9)     | 3949 (96.7)     | 4312 (96.3)     | 1,338 (95.0) |       |
| Unchanged/Getting worse  | 30 (1.7)        | 65 (1.7)        | 71 (1.8)        | 20 (1.8)     |       |
| Dead                     | 10 (0.2)        | 31 (0.6)        | 44 (0.8)        | 29 (1.6)     |       |
| Not treated              | 24 (1.2)        | 46 (1.0)        | 55 (1.2)        | 26 (1.7)     |       |

NHI= National Health Insurance; IACI=Industrial Accident Compensation Insurance
ER= Emergency room, CCI= Charlson co-morbidity index SE=Standard error
a Continuous variables including CCI and hospitalization period were expressed as estimated mean with standard error, others as the number with their estimated rate(%)  
b Rao-Scott chi-square test and t-test were used.
c Missed values were excluded in analysis
Supplement 2. Annual incidence rates of hospitalisation due to work-related injuries from January 2010 to December 2014, according to age sub-group.