

## ORIGINAL RESEARCH

A cross-sectional study of the impact of pain severity on absenteeism and presenteeism among Japanese full-time workers

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**Supplementary Table 1** Associations of pain location with absenteeism or presenteeism in individuals with pain (N = 221)

Pain location	Absenteeism				<i>P</i>	Presenteeism					<i>P</i>	
	-		+			0	1-2	3-10				
<b>Neck and shoulder pain, n (%)</b>	99	(56.6)	24	(52.2)	0.594	28	(50.0)	55	(61.8)	40	(52.6)	0.304
<b>Low back pain, n (%)</b>	60	(34.3)	20	(43.5)	0.253	17	(30.4)	34	(38.2)	29	(38.2)	0.569
<b>Knee pain, n (%)</b>	32	(18.3)	10	(21.7)	0.600	10	(17.9)	21	(23.6)	11	(14.5)	0.319
<b>Headache, n (%)</b>	17	(9.7)	9	(19.6)	0.081	3	(5.4)	9	(10.1)	14	(18.4)	0.056
<b>Chronic pain, n (%)</b>	121	(69.1)	34	(73.9)	0.525	34	(60.7)	61	(68.5)	60	(79.0)	0.068

**Supplementary Table 2** Loadings of measures in the identified principal components

	Work stress	Regulation	Mental instability	Less support	Home stress	Life dissatisfaction
<b>Work stress</b>						
Overload	<b>0.78</b>	0.00	0.08	-0.03	0.29	0.06
Emotional demand	<b>0.69</b>	-0.08	0.28	0.17	0.11	0.00
Control	<b>0.61</b>	-0.18	-0.07	0.35	-0.03	0.05
Excessive	<b>0.81</b>	0.01	0.09	-0.08	0.23	0.06
Compulsive	<b>0.61</b>	-0.11	0.38	0.11	0.04	0.09
<b>MAIA</b>						
Attention regulation	-0.09	<b>0.86</b>	-0.16	-0.08	-0.08	0.02
Self-regulation	-0.04	<b>0.85</b>	-0.22	-0.13	-0.01	-0.08
Trusting	-0.09	<b>0.82</b>	-0.21	-0.15	0.02	-0.23
Not-distracting	-0.30	0.09	<b>-0.72</b>	-0.05	-0.04	-0.07
Not-worrying	-0.16	0.28	<b>-0.73</b>	-0.04	-0.16	-0.06
<b>K6</b>	0.36	-0.31	<b>0.55</b>	0.23	0.05	0.22
<b>TSK</b>	-0.01	-0.16	<b>0.67</b>	0.19	0.02	-0.01
<b>Less support</b>						
Boss	0.24	-0.10	0.04	<b>0.83</b>	-0.10	0.09
Colleague	0.07	-0.14	0.14	<b>0.85</b>	0.05	0.05
Family	-0.05	-0.09	0.27	<b>0.67</b>	0.24	0.19
<b>Home stress</b>						
Overload	0.27	0.09	0.15	-0.08	<b>0.66</b>	0.05
Emotional demand	0.09	-0.04	0.31	0.05	<b>0.69</b>	0.15
Control	-0.17	0.13	0.23	-0.16	<b>-0.63</b>	0.07
<b>Dissatisfaction</b>						
Work	0.28	-0.21	0.07	0.16	-0.14	<b>0.79</b>
Home	-0.05	-0.06	0.09	0.12	0.26	<b>0.86</b>
<b>Eigenvalue</b>	5.80	2.34	1.63	1.33	1.21	1.12
<b>Explained valiance (%)</b>	29.0	11.7	8.1	6.7	6.0	5.6

Numbers with more than 0.5 absolute value were high-lighted. *SEM* standard error of the mean, *BMI* body mass index, *MAIA* multidimensional assessment of interoceptive awareness, *K6* kessler psychological distress scale, *TSK* tampa scale for kinesiophobia.