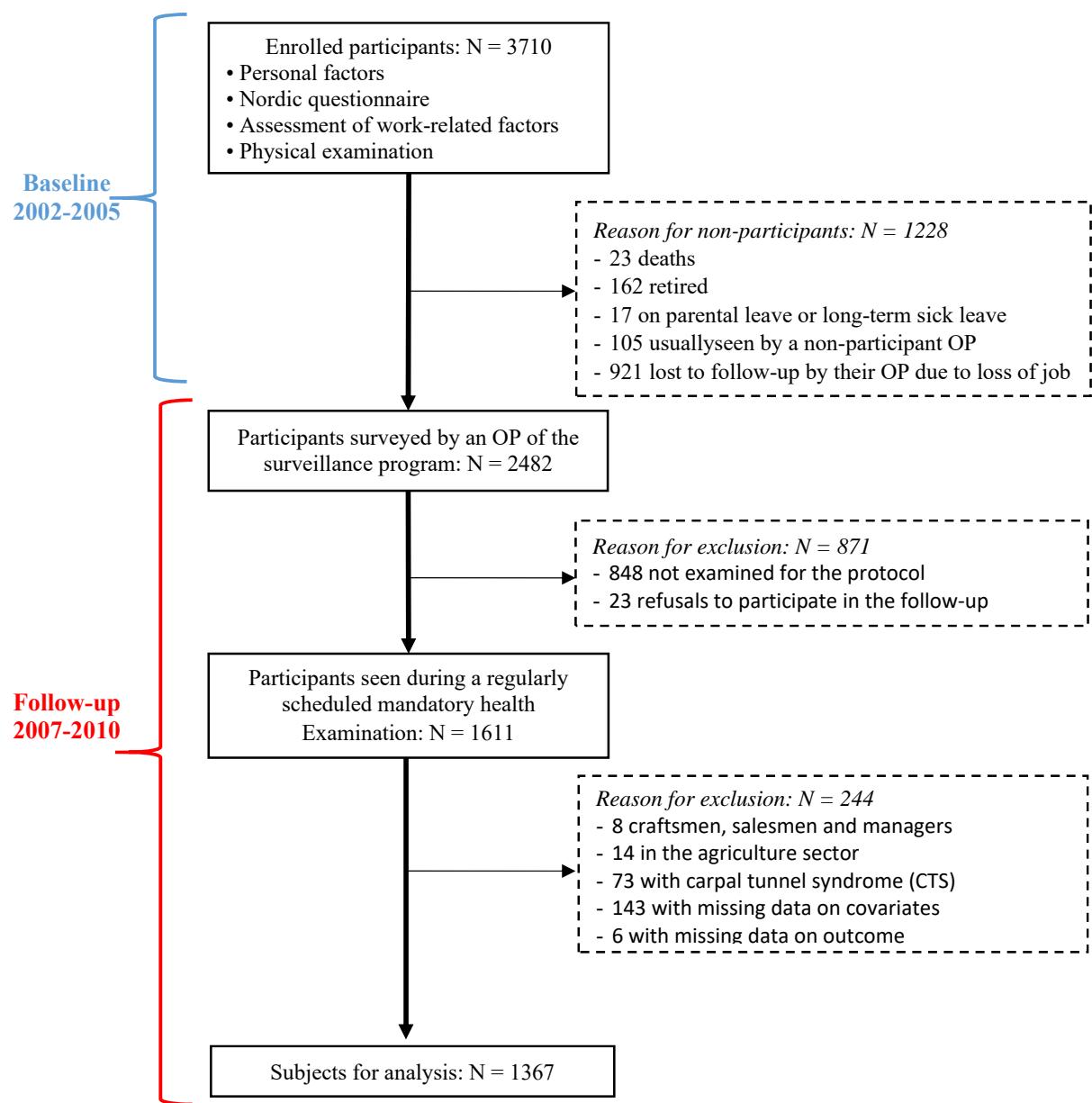


**Supplementary Figure 1. Participants' flow diagram**

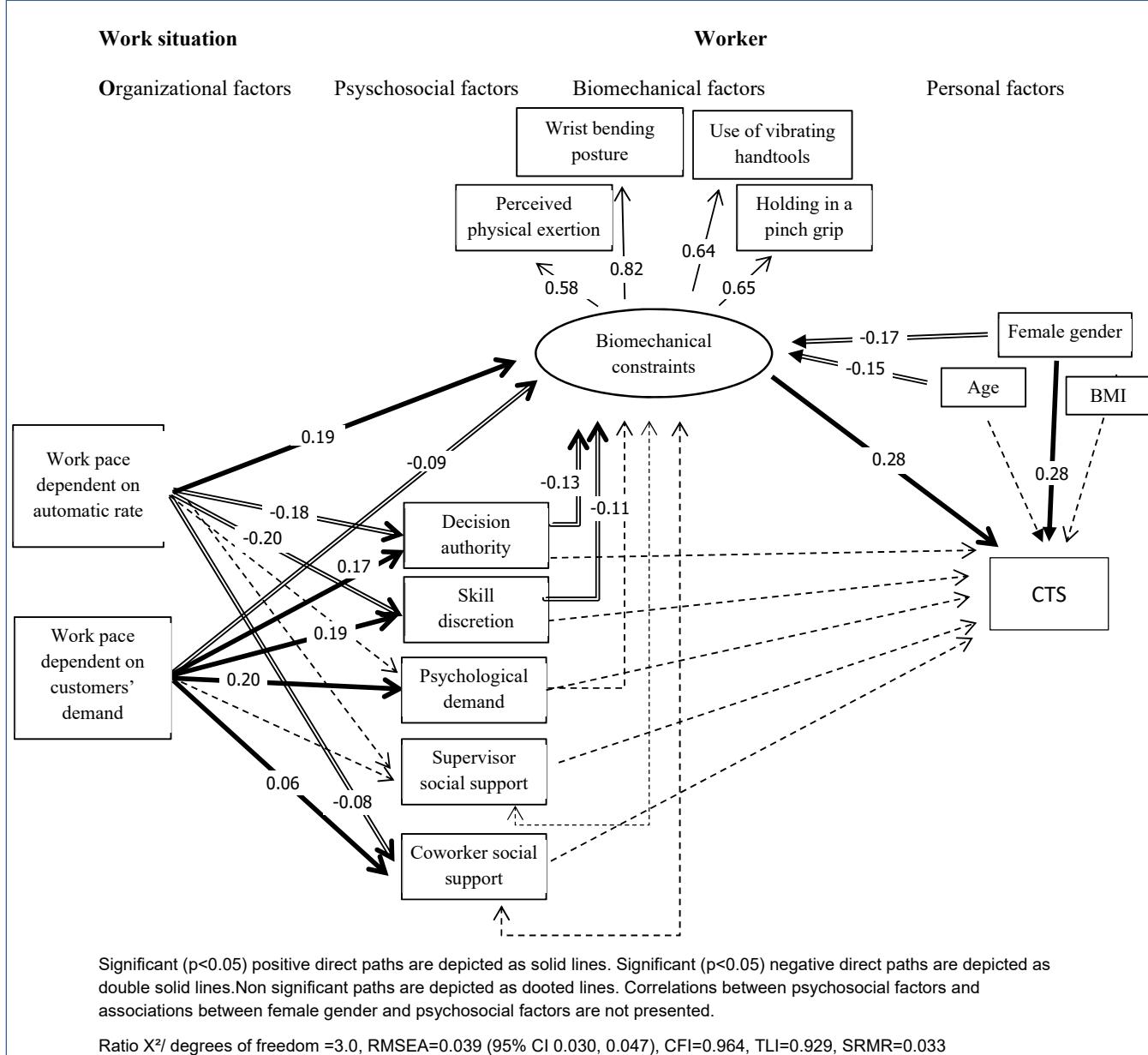


**Supplementary Table 1. Results from structural equation modeling of relationships between organizational, psychosocial, biomechanical, and personal factors and carpal tunnel syndrome (CTS) in French workers, Cosali (COhorté des SALariés Ligériens) survey (n=1,367): symptomatic CTS and CTS based on symptoms and physical examination signs**

	Symptomatic CTS			CTS based on symptoms and physical examination signs		
	Standardized beta	Standard error	p-value	Standardized beta	Standard error	p-value
<b>Hypothesis 1</b>						
Biomechanical factors → CTS	0.19	0.08	<b>0.011</b>	0.28	0.08	<b>0.001</b>
Decision authority → CTS	0.02	0.07	0.765	-0.08	0.07	0.256
Skill discretion → CTS	-0.02	0.08	0.778	0.01	0.08	0.863
Psychological demand → CTS	0.02	0.06	0.752	0.05	0.07	0.462
Supervisor social support → CTS	-0.06	0.07	0.373	0.04	0.11	0.672
Coworker social support → CTS	-0.02	0.06	0.721	0.03	0.08	0.722
<b>Hypothesis 2</b>						
Workspace dependent on automatic rate →						
Biomechanical factors	0.19	0.03	<b>&lt;0.001</b>	0.19	0.03	<b>&lt;0.001</b>
Decision authority	-0.18	0.02	<b>&lt;0.001</b>	-0.18	0.02	<b>&lt;0.001</b>
Skill discretion	-0.20	0.02	<b>&lt;0.001</b>	-0.20	0.02	<b>&lt;0.001</b>
Psychological demand	0.03	0.03	0.382	0.03	0.03	0.369
Supervisor social support	-0.05	0.03	0.070	-0.04	0.03	0.075
Coworker social support	-0.08	0.03	<b>0.002</b>	-0.08	0.03	<b>0.002</b>
Workspace dependent on customers' demand →						
Biomechanical factors	-0.09	0.03	<b>0.006</b>	-0.09	0.03	<b>0.006</b>
Decision authority	0.17	0.03	<b>&lt;0.001</b>	0.17	0.03	<b>&lt;0.001</b>
Skill discretion	0.19	0.03	<b>&lt;0.001</b>	0.19	0.03	<b>&lt;0.001</b>
Psychological demand	0.20	0.03	<b>&lt;0.001</b>	0.20	0.03	<b>&lt;0.001</b>
Supervisor social support	0.00	0.03	0.891	0.00	0.03	0.873
Coworker social support	0.06	0.03	<b>0.041</b>	0.06	0.03	<b>0.042</b>
<b>Hypothesis 3</b>						
Decision authority → Biomechanical factors	-0.13	0.04	<b>&lt;0.001</b>	-0.13	0.04	<b>&lt;0.001</b>
Skill discretion → Biomechanical factors	-0.11	0.04	<b>0.003</b>	-0.11	0.04	<b>0.003</b>
Psychological demand → Biomechanical factors	0.05	0.03	0.113	0.05	0.03	0.112
<b>Hypothesis 4</b>						
Supervisor social support ↔ Biomechanical factors	0.05	0.03	0.104	0.05	0.03	0.106
Coworker social support ↔ Biomechanical factors	0.04	0.03	0.170	0.04	0.03	0.172
<b>Other hypotheses</b>						
Age → Biomechanical factors	-0.15	0.03	<b>&lt;0.001</b>	-0.15	0.03	<b>&lt;0.001</b>
Age → CTS at follow-up	0.15	0.07	<b>0.042</b>	0.12	0.09	<b>0.164</b>
Body mass index → CTS at follow-up	0.01	0.07	0.890	0.02	0.08	0.763
Female gender → CTS at follow-up	0.25	0.06	<b>&lt;0.001</b>	0.28	0.08	<b>&lt;0.001</b>
Female gender → Biomechanical factors	-0.17	0.03	<b>&lt;0.001</b>	-0.17	0.03	<b>&lt;0.001</b>
Female gender → Decision authority	-0.14	0.03	<b>&lt;0.001</b>	-0.14	0.03	<b>&lt;0.001</b>
Female gender → Skill discretion	-0.17	0.03	<b>&lt;0.001</b>	-0.17	0.03	<b>&lt;0.001</b>
Female gender → Psychological demand	0.02	0.03	0.514	0.02	0.03	0.552
Female gender → Supervisor social support	0.04	0.03	0.153	0.04	0.03	0.151
Female gender → Coworker social support	0.02	0.03	0.514	0.02	0.03	0.466
<b>Correlations</b>						
Decision authority ↔ Skill discretion	0.49	0.02	<b>&lt;0.001</b>	0.49	0.02	<b>&lt;0.001</b>
Decision authority ↔ Psychological demand	-0.01	0.02	0.629	-0.01	0.02	0.638
Decision authority ↔ Supervisor social support	0.22	0.02	<b>&lt;0.001</b>	0.22	0.02	<b>&lt;0.001</b>
Decision authority ↔ Coworker social support	0.12	0.02	<b>&lt;0.001</b>	0.12	0.02	<b>&lt;0.001</b>
Skill discretion ↔ Psychological demand	0.20	0.02	<b>&lt;0.001</b>	0.20	0.02	<b>&lt;0.001</b>
Skill discretion ↔ Supervisor social support	0.27	0.02	<b>&lt;0.001</b>	0.27	0.02	<b>&lt;0.001</b>
Skill discretion ↔ Coworker social support	0.14	0.02	<b>&lt;0.001</b>	0.14	0.02	<b>&lt;0.001</b>
Psychological demand ↔ Supervisor social support	-0.15	0.02	<b>&lt;0.001</b>	-0.15	0.02	<b>&lt;0.001</b>
Psychological demand ↔ Coworker social support	-0.07	0.02	<b>0.005</b>	-0.07	0.02	<b>0.005</b>
Supervisor social support ↔ Coworker social support	0.32	0.02	<b>&lt;0.001</b>	0.32	0.02	<b>&lt;0.001</b>

In bold, p-value < 0.05.

**Supplementary Figure 2. Structural equation model of the relationships between organizational, psychosocial, biomechanical, and personal factors and carpal tunnel syndrome (CTS based on symptoms and physical examination signs) in French workers, Cosali (COhorté des SALariés Ligériens) survey (n=1,367)**



**Supplementary Table 2. Results from structural equation modeling of relationships between organizational, psychosocial, biomechanical, and personal factors and carpal tunnel syndrome (CTS) in French workers, Cosali (COhorte des SALariés Ligériens) survey: men (n=804) and women (n=563)**

	Men (n=804)			Women (n=563)		
	Standardized beta	Standard error	p-value	Standardized beta	Standard error	p-value
<b>Hypothesis 1</b>						
Biomechanical factors → CTS	0.36	0.11	<b>0.002</b>	0.22	0.11	<b>0.047</b>
Decision authority → CTS	-0.07	0.11	0.548	0.09	0.10	0.372
Skill discretion → CTS	-0.05	0.12	0.672	0.03	0.11	0.793
Psychological demand → CTS	0.05	0.08	0.505	-0.01	0.09	0.895
Supervisor social support → CTS	-0.11	0.09	0.227	-0.02	0.09	0.844
Coworker social support → CTS	0.08	0.07	0.229	-0.09	0.10	0.327
<b>Hypothesis 2</b>						
Workplace dependent on automatic rate →						
Biomechanical factors	0.18	0.05	<b>&lt;0.001</b>	0.19	0.05	<b>&lt;0.001</b>
Decision authority	-0.16	0.03	<b>&lt;0.001</b>	-0.22	0.03	<b>&lt;0.001</b>
Skill discretion	-0.21	0.03	<b>&lt;0.001</b>	-0.19	0.04	<b>&lt;0.001</b>
Psychological demand	0.00	0.04	0.994	0.08	0.04	0.074
Supervisor social support	-0.01	0.03	0.696	-0.11	0.04	<b>0.005</b>
Coworker social support	-0.06	0.04	0.095	-0.13	0.04	<b>0.002</b>
Workplace dependent on customers' demand →						
Biomechanical factors	-0.15	0.05	<b>0.002</b>	-0.05	0.05	0.333
Decision authority	0.21	0.03	<b>&lt;0.001</b>	0.11	0.04	<b>0.008</b>
Skill discretion	0.19	0.03	<b>&lt;0.001</b>	0.18	0.04	<b>&lt;0.001</b>
Psychological demand	0.17	0.03	<b>&lt;0.001</b>	0.25	0.04	<b>&lt;0.001</b>
Supervisor social support	0.02	0.04	0.616	-0.02	0.04	0.575
Coworker social support	0.10	0.04	<b>0.005</b>	0.00	0.04	0.985
<b>Hypothesis 3</b>						
Decision authority → Biomechanical factors	-0.06	0.05	0.206	-0.22	0.05	<b>&lt;0.001</b>
Skill discretion → Biomechanical factors	-0.09	0.05	0.073	-0.17	0.06	<b>0.004</b>
Psychological demand → Biomechanical factors	0.06	0.04	0.152	0.00	0.05	0.937
<b>Hypothesis 4</b>						
Supervisor social support ↔ Biomechanical factors	0.00	0.04	0.988	0.13	0.05	<b>0.004</b>
Coworker social support ↔ Biomechanical factors	-0.02	0.04	0.608	0.08	0.05	0.117
<b>Other hypotheses</b>						
Age → Biomechanical factors	-0.17	0.04	<b>&lt;0.001</b>	-0.16	0.05	<b>0.001</b>
Age → CTS at follow-up	0.16	0.13	0.192	0.18	0.10	0.065
Body mass index → CTS at follow-up	-0.17	0.14	0.238	0.10	0.09	0.292
<b>Correlations</b>						
Decision authority ↔ Skill discretion	0.49	0.02	<b>&lt;0.001</b>	0.49	0.03	<b>&lt;0.001</b>
Decision authority ↔ Psychological demand	-0.02	0.03	0.605	0.00	0.04	0.911
Decision authority ↔ Supervisor social support	0.22	0.03	<b>&lt;0.001</b>	0.20	0.04	<b>&lt;0.001</b>
Decision authority ↔ Coworker social support	0.18	0.03	<b>&lt;0.001</b>	0.04	0.03	0.278
Skill discretion ↔ Psychological demand	0.20	0.03	<b>&lt;0.001</b>	0.18	0.04	<b>&lt;0.001</b>
Skill discretion ↔ Supervisor social support	0.27	0.03	<b>&lt;0.001</b>	0.28	0.03	<b>&lt;0.001</b>
Skill discretion ↔ Coworker social support	0.22	0.03	<b>&lt;0.001</b>	0.05	0.04	0.213
Psychological demand ↔ Supervisor social support	-0.14	0.03	<b>&lt;0.001</b>	-0.17	0.04	<b>&lt;0.001</b>
Psychological demand ↔ Coworker social support	-0.01	0.03	0.622	-0.13	0.04	<b>0.001</b>
Supervisor social support ↔ Coworker social support	0.27	0.02	<b>&lt;0.001</b>	0.38	0.03	<b>&lt;0.001</b>

In bold, p-value < 0.05.