

번호 I-2

제 목	국문	유기용제 노출 근로자들의 신경학적 검사에 관한 연구				
	영문	Neurologic Studies for Workers Exposed to Organic Solvents				
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1. Objectives

Authors performed this study to investigate the early effect of organic solvents exposure on nervous systems and the relationship between effects central and peripheral nervous systems.

2. Methods

We measured the air solvents levels and the urinary hippuric acid level of the workers exposed to toluene. We selected 30 workers exposed to organic solvents as the exposed group and 30 workers not to exposed to organic solvents as the non-exposed group. They were examined with neurobehavior core test batteries (NCTB) and nerve conduction velocity (NCV).

3. Results

(1) The NCTB showed that the exposed group had lower score than the non-exposed group in the digit span, preferred hand of Santa Ana dexterity and pursuit aiming ($p < 0.05$), but simple reaction time, Digit Symbol and Benton Visual Retention showed no statistical differences between the exposed and the non-exposed groups.

(2) The NCV showed that the conduction velocity of median nerve decreased in the exposed group ($p < 0.05$), however, those of ulnar nerve, posterior tibial nerve, peroneal nerve and sural nerve didn't show the differences. The amplitude also showed no differences.

(3) There was little correlation between NCV and NCTB.