

**Supplement Table S1. Subgroup analysis between the native and the migrant workers based on the level of urine concentration of N'-methylformamide**

Characteristics	Low and moderate ( $\leq 30$ mg/L)			High ( $> 30$ mg/L)		
Nationality	Native workers (N=9,164)	Migrant workers (N=476)	P <sup>a</sup>	Native workers (N=95)	Migrant workers (N=28)	P <sup>a</sup>
<b>Sex, n(%)</b>			0.372			0.099
Male	7555 (82.4)	387 (81.3)		74 (77.9)	26 (92.9)	
Female	1609 (17.6)	89 (18.7)		21 (22.1)	2 (7.1)	
<b>Age group, n(%)</b>			<0.001			0.017
20-29 years	2847 (31.1)	201 (42.2)		21 (22.1)	13 (46.4)	
30-39 years	2666 (29.1)	190 (39.9)		15 (15.8)	7 (25.0)	
40-49 years	2016 (22)	61 (12.8)		25 (26.3)	3 (10.7)	
$\geq 50$ years	1635 (17.8)	24 (5)		34 (35.8)	5 (17.9)	
<b>Number of workers, n(%)</b>			<0.001			0.083
<5	106 (1.2)	20 (4.2)		6 (6.3)	3 (10.7)	
5-50	1643 (17.9)	260 (54.6)		59 (62.1)	22 (78.6)	
$\geq 50$	7415 (80.9)	196 (41.2)		30 (31.6)	3 (10.7)	
<b>Types of industries, Manufactures of , n(%)</b>			<0.001			0.018
Rubber and plastics products	1025 (11.2)	117 (24.6)		9 (9.5)	8 (28.6)	
Wearing apparel	223 (2.4)	69 (14.5)		7 (7.4)	2 (7.1)	
Textiles	393 (4.3)	52 (10.9)		13 (13.7)	6 (21.4)	
Chemicals and chemical products	3539 (38.6)	58 (12.2)		10 (10.5)	-	
Leather and related products	201 (2.2)	35 (7.4)		35 (36.8)	11 (39.3)	
Other manufacturing	3783 (41.3)	145 (30.5)		21 (22.1)	1 (3.6)	
<b>TWA of DMF, n(%)<sup>b</sup></b>			<0.001			0.284
Low	5442 (59.4)	132 (27.7)		4 (4.2)	2 (7.1)	
Moderate	3194 (34.9)	254 (53.4)		39 (41.1)	7 (25)	
High	528 (5.8)	90 (18.9)		52 (54.7)	19 (67.9)	
<b>Years of employment, years(SD)</b>	7.83 (9.04)	1.61(2.08)	<0.001	3.31 (6.05)	1.61(1.71)	0.577

a. P values were calculated using the statistics of Pearson's chi-square and Mann-whitney test

b. The employees having records of '0' or 'ND' were defined as 'Low' group. Others were classified into 'Moderate' and 'High' based on 5ppm, the adopted value as TLVs in ACGIH

DMF, Dimethyl Formamide; SD, Standard Deviation; TWA, Time-weighted average; ND, Not detected; TLVs, Threshold limit values; ACGIH, American Conference of Governmental Industrial Hygienists