





























ulovasculai nospita	lizat	ions	for	Mi	nqin,	1994
Hospitalization counts	n	Mean	SD	Min	Max	
Total respiratory diseases	3435					
Male	2374	0.65	0.95	0	6	
Female	1061	0.30	0.60	0	10	
URTI	1248					
Male	854	0.23	0.52	0	5	
Female	394	0.11	0.35	0	3	
Pneumonia	1515					
Male	1104	0.30	0.64	0	5	
Female	411	0.12	0.35	0	3	
Total cardiovascular diseases	2172					
Male	1263	0.35	0.69	0	6	
Female	909	0.25	0.57	0	5	
Hypertension	468					
Male	230	0.06	0.28	0	3	
Female	238	0.07	0.28	0	3	
IHD	930					
Male	590	0.16	0.47	0	5	
Female	340	0.09	0.35	0	3	















































(1) $PM_{2.5}$ total particles, water soluble fraction and solvent extractable organics from both dust storm and normal weather all had damaging effects on alveolar macrophages and genetic toxicity on human blood lymphocytes.

- (2) The general toxicity: total particles>water-soluble fraction > solvent extractable organics.
- (3) The effects of dust storm $PM_{2.5}$ from Wuwei and Baotou were similar.
- (4) At same concentration, the toxicity of normal weather $PM_{2.5}$ was higher than that of dust storm. But when dust storm occurring, the concentration of $PM_{2.5}$ was greatly increased, so the toxicity of normal weather $PM_{2.5}$ was higher than that of dust storm.

