

## APPENDIX A

**Table A-1. Incidence of Non-Neoplastic Respiratory Tract Lesions in Rats and Mice Exposed to Molybdenum Trioxide for 2 Years**

	Concentration (mg molybdenum/m <sup>3</sup> )			
	0	6.7	20	67
<b>Male rats</b>				
Hyaline degeneration of nasal respiratory epithelium	2/50	7/49	48/49 <sup>a</sup>	49/50 <sup>a</sup>
Squamous metaplasia of epiglottis	0/49	11/48 <sup>a</sup>	16/49 <sup>a</sup>	39/49 <sup>a</sup>
Chronic lung inflammation in alveolus	2/50	3/50	25/50 <sup>a</sup>	47/50 <sup>a</sup>
<b>Female rats</b>				
Hyaline degeneration of nasal respiratory epithelium	1/48	13/49 <sup>a</sup>	50/50 <sup>a</sup>	50/50 <sup>a</sup>
Hyaline degeneration of nasal olfactory epithelium	39/48	47/49 <sup>b</sup>	50/50 <sup>a</sup>	50/50 <sup>a</sup>
Squamous metaplasia of epiglottis	0/49	18/49 <sup>a</sup>	29/49 <sup>a</sup>	49/50 <sup>a</sup>
Chronic lung inflammation	14/50	13/50	43/50 <sup>a</sup>	49/50 <sup>a</sup>
<b>Male mice</b>				
Nasal suppurative inflammation	2/50	6/50	10/49 <sup>b</sup>	8/50 <sup>b</sup>
Nasal olfactory epithelium atrophy	3/50	5/50	3/49	10/50 <sup>b</sup>
Hyaline degeneration of nasal respiratory epithelium	11/50	13/50	11/49	41/50 <sup>a</sup>
Squamous metaplasia of epiglottis	0/50	26/49 <sup>a</sup>	37/48 <sup>a</sup>	49/50 <sup>a</sup>
Laryngeal hyperplasia	1/50	3/49	6/48	41/50
Histiocyte infiltration in the lungs	2/50	16/50 <sup>a</sup>	9/49 <sup>b</sup>	9/50 <sup>b</sup>
Alveolar epithelial metaplasia	0/50	32/50 <sup>a</sup>	36/49 <sup>a</sup>	49/50 <sup>a</sup>
<b>Female mice</b>				
Hyaline degeneration of nasal respiratory epithelium	26/49	23/50	28/49	48/49 <sup>a</sup>
Hyaline degeneration of nasal olfactory epithelium	22/49	14/50	14/49	36/49 <sup>a</sup>

## APPENDIX A

**Table A-1. Incidence of Non-Neoplastic Respiratory Tract Lesions in Rats and Mice Exposed to Molybdenum Trioxide for 2 Years**

	Concentration (mg molybdenum/m <sup>3</sup> )			
	0	6.7	20	67
Squamous metaplasia of epiglottis	1/49	36/50 <sup>a</sup>	43/49 <sup>a</sup>	49/50 <sup>a</sup>
Laryngeal hyperplasia	1/49	1/50	7/49	35/50
Alveolar epithelial metaplasia	2/50	26/50 <sup>a</sup>	39/49 <sup>a</sup>	46/49 <sup>b</sup>

<sup>a</sup>Significantly different from controls;  $p \leq 0.01$ .

<sup>b</sup>Significantly different from controls;  $p \leq 0.05$ .

Source: NTP 1997