

**Supplemental Table 2. Select histopathological lesions in the larynx of female rats and mice exposed to metalworking fluids**

Laryngeal Lesion	Exposure Concentration (mg/m <sup>3</sup> )					
	0	25	50	100	200	400
<i>Squamous metaplasia</i>						
<b>Female Rats</b>						
Cimstar 3800	0	10**(2.9)	10**(3.4)	10**(4.0)	10**(4.0)	10**(4.0)
Syntilo 1023	0	10**(1.7)	10**(2.6)	10**(2.0)	10**(3.9)	10**(4.0)
Trim SC210	0	10**(1.6)	10**(2.1)	10**(2.8)	10**(3.1)	10**(3.8)
Trim VX	0	10**(2.0)	10**(2.1)	10**(2.7)	10**(3.1)	10**(3.4)
<i>Squamous epithelium, hyperplasia</i>						
Cimstar 3800	0	9**(1.1)	7**(1.0)	10**(1.4)	9**(1.3)	10**(1.7)
Trim SC210	0	6**(1.0)	4*(1.0)	10**(2.1)	10**(2.4)	10**(3.3)
Trim VX	0	8**(1.0)	4*(1.0)	7**(1.4)	8**(1.5)	10**(1.8)
<i>Inflammation, chronic active</i>						
Cimstar 3800	0	10**(1.0)	10**(1.1)	10**(1.6)	10**(1.7)	10**(2.2)
Syntilo 1023	0	10**(1.4)	10**(2.4)	10**(2.4)	10**(3.1)	10**(2.9)
Trim SC210	1 (1.0)	9**(1.1)	9**(1.0)	10**(1.3)	10**(2.0)	10**(2.0)
Trim VX	1 (1.0)	10**(1.0)	10**(1.0)	10**(1.0)	10**(1.0)	10**(1.0)
<i>Squamous metaplasia</i>						
<b>Female Mice</b>						
Cimstar 3800	0	10**(2.0)	10**(2.2)	10**(2.8)	10**(3.9)	10**(4.0)
Syntilo 1023	1 (1.0)	9**(1.0)	10**(2.1)	10**(3.5)	10**(4.0)	10**(4.0)
Trim SC210	0	10**(3.7)	10**(4.0)	10**(4.0)	9**(4.0)	10**(4.0)
Trim VX	0	10**(4.0)	10**(4.0)	10**(4.0)	10**(4.0)	10**(4.0)
<i>Squamous epithelium, hyperplasia</i>						
Cimstar 3800	0	0	0	1 (1.0)	10**(2.0)	10**(2.0)
Trim SC210	0	0	0	9**(1.0)	8**(1.0)	8**(1.0)
Trim VX	0	0	1 (2.0)	7**(1.9)	7**(2.0)	8**(2.0)
<i>Squamous dysplasia</i>						
Cimstar 3800	0	0	0	0	2 (1.0)	7**(1.7)
<i>Inflammation, chronic active</i>						
Cimstar 3800	0	0	1 (1.0)	9**(1.3)	10**(2.1)	10**(2.2)
Syntilo 1023	0	9**(1.2)	10**(1.7)	10**(1.9)	10**(2.3)	10**(2.3)
Trim SC210	0	0	0	0	0	1 (1.0)
Trim VX	0	4*(1.0)	5**(1.0)	8**(1.0)	9**(1.0)	5**(1.0)

\* Significantly different ( $P \leq 0.05$ ) from the chamber control group by the Fisher exact test; \*\*  $P \leq 0.01$

<sup>a</sup> Number with lesion (n = 10/group)

<sup>b</sup> Number in parentheses indicates mean severity of lesion (1 = minimal, 2 = mild, 3 = moderate, 4 = marked)

Note: If the test article is not associated with the noted lesion then it is not listed in the table.

