Pathology - Intergroup Comparison of Pathology Observations

For Study:	02G16015
Title:	Subchronic (13 week) brake dust inhalation toxicology study (nose-only) with lifelong follow-up in the rat
Requested By:	Heinrich Ernst
Job Number:	47665
Animal Reference:	Animal Name
Animals Excluded:	1000, 1001, 1002, 1003, 1010, 1011, 1012, 1013, 1020, 1021, 1022, 1023, 1050, 1051, 1052, 1053, 1060, 1061, 1062, 1063, 1070, 1071, 1072, 1073, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 2000, 2001, 2002, 2003, 2010, 2011, 2012, + others.
Day Numbers:	All
Groups:	All
Observation Type:	Histo - Neoplastic and Non-Neoplastic
Observation Summary:	Incidence
Report Format:	Group within Sex
Tissues:	All
Rationalisation:	6M_PE
Removal Reasons:	All
Completed Animals Only:	No
Animals with Observations Only:	No
Major Pathological Findings Only:	No
Split Observations by:	GRADE
Split Table by:	Sex
Use Alternative Descriptions:	No
Repeat First Group on Each Page:	No
Style:	Landscape - 12 Columns
Include:	NVL Tissues; NE Tissues; Neoplastic - QUALIFIERS; TUMOUR TYPE; ORIGIN; CLASSIFICATION; Non-neoplastic - QUALIFIERS; SIZE

Pathology - Intergroup Comparison of Pathology Observations

02G16015 - Subchronic (13 week) brake dust inhalation toxicology study
(nose-only) with lifelong follow-up in the rat, 6 months post exposure

Removal Reason: ALL	Male						
	Clean air control	brake dust low	Brake dust mid	Brake dust high	Titanium-dioxide	Chrysotile low	
Number of Animals:	4	4	4	4	4	4	
Number of Completed Animals:	0	0	0	0	0	0	
larynx							
Examined	4	4	4	4	4	4	
No Visible Lesions	3	3	2	3	4	4	
Dilatation, Submucosal Glands	0	1	0	0	0	0	
.... slight	0	1	0	0	0	0	
Hemorrhage, Subepithelial	0	0	0	1	0	0	
.... slight	0	0	0	1	0	0	
Infiltration, Mononuclear Cell, Subepithelial	1	0	2	0	0	0	
.... very slight	1	0	2	0	0	0	
.... slight	0	0	0	0	0	0	
lung							
Examined	4	4	4	4	4	4	
Accumulation, Fibre-Laden Macrophages, Alveolar/Interstitial	0 [1]	0	0	0	0	0	
.... very slight	0	0	0	0	0	0	
.... slight	0 [1]	0	0	0	0	0	
Accumulation, Particle-Laden Macrophages, Alveolar/Interstitial	0 [1]	3	4 f+	4 f+	4 f+	4 f+	
.... very slight	0 [1]	3	4 f+	4 f+	3	4 f+	
.... slight	0	0	0	0	1	0	

+ [Footnote is displayed in the Comments and Markers page]

1 [ccc - Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared $p < 0.001$]

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Removal Reason: ALL	Male						
	Clean air control	brake dust low	Brake dust mid	Brake dust high	Titanium-dioxide	Chrysotile low	
Number of Animals:	4	4	4	4	4	4	
Number of Completed Animals:	0	0	0	0	0	0	
lung (Continued...)							
Fibrosis, Interstitial	0 1	0	0	0	0	1	
.... very slight	0 +	0	0	0	0	1	
.... slight	0 1	0	0	0	0	0	
Fibrosis, Pleural	0	0	0	0	0	0	
.... very slight	0	0	0	0	0	0	
.... slight	0	0	0	0	0	0	
Giant Cells, Syncytial	0 1	0	0	0	0	0	
.... very slight	0 1	0	0	0	0	0	
.... slight	0	0	0	0	0	0	
Hyperplasia, Bronchiolo-Alveolar	0 +	1	2	1	1	4 f+	
.... very slight	0	1	2	1	1	3	
.... slight	0 1	0	0	0	0	1	
Infiltration, Inflammatory Cell, Peribronchiolar	0 1	0	0	0	0	0	
.... very slight	0	0	0	0	0	0	
.... slight	0 1	0	0	0	0	0	
Infiltration, Inflammatory Cell, Perivascular	0 +	1	1	1	1	4 f+	
.... very slight	0	1	1	1	1	2	
.... slight	0 c+	0	0	0	0	2	

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Removal Reason: ALL	Male						
	Clean air control	brake dust low	Brake dust mid	Brake dust high	Titanium-dioxide	Chrysotile low	
Number of Animals:	4	4	4	4	4	4	
Number of Completed Animals:	0	0	0	0	0	0	
lung (Continued...)							
Infiltration, Inflammatory Cell, Alveolar/Interstitial	0 1	0	0	0	2	4 f+	
.... very slight	0 1	0	0	0	2	4 f+	
.... slight	0 1	0	0	0	0	0	
Infiltration, Mononuclear Cell, Interstitial	1	0	0	0	0	0	
.... very slight	1	0	0	0	0	0	
Infiltration, Mononuclear Cell, Pleural	0	0	0	0	1	0	
.... slight	0	0	0	0	1	0	
Metaplasia, Chondro-Osseous	0	0	1	0	0	0	
.... slight	0	0	1	0	0	0	
Microgranuloma	0 1	0	0	0	0	2	
.... very slight	0 1	0	0	0	0	2	
.... slight	0 1	0	0	0	0	0	
Wagner Grade 2	0 1	3	4 f+	4 f+	3	0	
Wagner Grade 3	0 c+	0	0	0	1	3	
Wagner Grade 4	0 1	0	0	0	0	1	
Wagner Grade 1	4 1	1	0 f+	0 f+	0 f+	0 f+	
Accumulation, Particle-Laden Macrophages, Balt	0 1	1	1	3	3	4 f+	
.... very slight	0 1	1	1	3	3	4 f+	

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Removal Reason: ALL	Male						
	Clean air control	brake dust low	Brake dust mid	Brake dust high	Titanium-dioxide	Chrysotile low	
Number of Animals:	4	4	4	4	4	4	
Number of Completed Animals:	0	0	0	0	0	0	
lung (Continued...)							
Accumulation, Fibre-Laden Macrophages, Balt	0 [1]	0	0	0	0	0	
.... very slight	0 [1]	0	0	0	0	0	
lung associated lymph nodes (laln)							
Examined	4	4	4	4	4	4	
No Visible Lesions	4	3	1	0	0	3	
Accumulation, Fibre-Laden Macrophages	0 [1]	0	0	0	0	0	
.... very slight	0 [c+]	0	0	0	0	0	
.... slight	0 [c+]	0	0	0	0	0	
Accumulation, Particle-Laden Macrophages	0 [1]	1	3	4 [f+]	4 [f+]	1	
.... very slight	0 [1]	1	3	4 [f+]	4 [f+]	1	
Hyperplasia, Lymphoid	0	0	0	0	0	1	
.... slight	0	0	0	0	0	1	
nasal cavity							
Examined	4	4	4	4	4	4	
No Visible Lesions	3	2	3	3	3	3	
Corpora Amylacea, Olfactory epithelial	0	1	0	0	0	0	
.... very slight	0	1	0	0	0	0	
Droplets, Hyaline, Olfactory epithelial	1	0	1	0	0	1	

+ [Footnote is displayed in the Comments and Markers page]

1 [ccc - Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared $p < 0.001$]

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Removal Reason: ALL	Male						
	Clean air control	brake dust low	Brake dust mid	Brake dust high	Titanium-dioxide	Chrysotile low	
Number of Animals:	4	4	4	4	4	4	
Number of Completed Animals:	0	0	0	0	0	0	
nasal cavity (Continued...)							
.... very slight	1	0	1	0	0	1	
.... slight	0	0	0	0	0	0	
Droplets, Hyaline, Respiratory epithelial	0 c[1]	0	0	0	0	0	
.... very slight	0 c[1]	0	0	0	0	0	
Hyperplasia, Mucous Cell	0	0	1	0	0	0	
.... very slight	0	0	1	0	0	0	
.... slight	0	0	0	0	0	0	
Infiltration, Inflammatory Cell, Subepithelial	0	1	0	0	0	0	
.... very slight	0	1	0	0	0	0	
Hyperplasia, Nalt	0	0	1	1	1	0	
.... slight	0	0	1	1	1	0	
nasopharynx							
Examined	4	4	4	4	4	4	
No Visible Lesions	4	4	4	4	4	4	
trachea							
Examined	4	4	4	4	4	4	
No Visible Lesions	3	4	3	4	3	3	
Infiltration, Mononuclear Cell, Subepithelial	1	0	1	0	1	1	

1 [c - Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared $p < 0.05$]

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02G16015 - Subchronic (13 week) brake dust inhalation toxicology study
(nose-only) with lifelong follow-up in the rat, 6 months post exposure

Removal Reason: ALL	Male						
	Clean air control	brake dust low	Brake dust mid	Brake dust high	Titanium-dioxide	Chrysotile low	
Number of Animals:	4	4	4	4	4	4	
Number of Completed Animals:	0	0	0	0	0	0	
trachea (Continued...)							
.... very slight	1	0	1	0	0	1	
.... slight	0	0	0	0	1	0	

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02G16015 - Subchronic (13 week) brake dust inhalation toxicology study
(nose-only) with lifelong follow-up in the rat, 6 months post exposure

Removal Reason: ALL	Male			
	Chrysotile high	Crocido-lite	Amosite	
Number of Animals:	4	4	4	
Number of Completed Animals:	0	0	0	
larynx				
Examined	4	4	4	
No Visible Lesions	2	3	2	
Dilatation, Submucosal Glands	0	0	0	
.... slight	0	0	0	
Hemorrhage, Subepithelial	0	0	2	
.... slight	0	0	2	
Infiltration, Mononuclear Cell, Subepithelial	2	1	1	
.... very slight	1	1	1	
.... slight	1	0	0	
lung				
Examined	4	4	4	
Accumulation, Fibre-Laden Macrophages, Alveolar/Interstitial	0	4 f[1]	4 f[1]	
.... very slight	0	1	0	
.... slight	0	3	4 f[1]	
Accumulation, Particle-Laden Macrophages, Alveolar/Interstitial	4 f[1]	0	0	
.... very slight	4 f[1]	0	0	
.... slight	0	0	0	

1 [f - Test: Fisher's Exact 2 Sided p < 0.05]

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(nose-only) with lifelong follow-up in the rat, 6 months post exposure

Removal Reason: ALL	Male			
	Chrysotile high	Crocido-lite	Amosite	
Number of Animals:	4	4	4	
Number of Completed Animals:	0	0	0	
lung (Continued...)				
Fibrosis, Interstitial	4 f[1]	4 f[1]	4 f[1]	
.... very slight	4 f[1]	2	0	
.... slight	0	2	4 f[1]	
Fibrosis, Pleural	0	0	2	
.... very slight	0	0	1	
.... slight	0	0	1	
Giant Cells, Syncytial	0	4 f[1]	4 f[1]	
.... very slight	0	4 f[1]	2	
.... slight	0	0	2	
Hyperplasia, Bronchiolo-Alveolar	4 f[1]	4 f[1]	4 f[1]	
.... very slight	2	0	0	
.... slight	2	4 f[1]	4 f[1]	
Infiltration, Inflammatory Cell, Peribronchiolar	0	4 f[1]	4 f[1]	
.... very slight	0	2	0	
.... slight	0	2	4 f[1]	
Infiltration, Inflammatory Cell, Perivascular	3	4 f[1]	4 f[1]	
.... very slight	3	4	2	
.... slight	0	0	2	

1 [f - Test: Fisher's Exact 2 Sided p < 0.05]

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Removal Reason: ALL	Male			
	Chrysotile high	Crocido-lite	Amosite	
Number of Animals:	4	4	4	
Number of Completed Animals:	0	0	0	
lung (Continued...)				
Infiltration, Inflammatory Cell, Alveolar/Interstitial	4 f[1]	4 f[1]	4 f[1]	
.... very slight	4 f[1]	2	0	
.... slight	0	2	4 f[1]	
Infiltration, Mononuclear Cell, Interstitial	0	0	0	
.... very slight	0	0	0	
Infiltration, Mononuclear Cell, Pleural	0	0	0	
.... slight	0	0	0	
Metaplasia, Chondro-Osseous	0	1	1	
.... slight	0	1	1	
Microgranuloma	4 f[1]	4 f[1]	4 f[1]	
.... very slight	4 f[1]	0	0	
.... slight	0	4 f[1]	4 f[1]	
Wagner Grade 2	0	0	0	
Wagner Grade 3	2	0	0	
Wagner Grade 4	2	4 f[1]	4 f[1]	
Wagner Grade 1	0 f[1]	0 f[1]	0 f[1]	
Accumulation, Particle-Laden Macrophages, Balt	4 f[1]	0	0	
.... very slight	4 f[1]	0	0	

1 [f - Test: Fisher's Exact 2 Sided p < 0.05]

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Removal Reason: ALL	Male			
	Chrysotile high	Crocido-lite	Amosite	
Number of Animals:	4	4	4	
Number of Completed Animals:	0	0	0	
lung (Continued...)				
Accumulation, Fibre-Laden Macrophages, Balt	0	4 f[1]	4 f[1]	
.... very slight	0	4 f[1]	4 f[1]	
lung associated lymph nodes (laln)				
Examined	4	4	4	
No Visible Lesions	1	0	0	
Accumulation, Fibre-Laden Macrophages	0	4 f[1]	4 f[1]	
.... very slight	0	2	2	
.... slight	0	2	2	
Accumulation, Particle-Laden Macrophages	3	0	0	
.... very slight	3	0	0	
Hyperplasia, Lymphoid	1	0	2	
.... slight	1	0	2	
nasal cavity				
Examined	4	4	4	
No Visible Lesions	2	1	1	
Corpora Amylacea, Olfactory epithelial	0	0	0	
.... very slight	0	0	0	
Droplets, Hyaline, Olfactory epithelial	1	3	2	

1 [f - Test: Fisher's Exact 2 Sided p < 0.05]

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Removal Reason: ALL	Male			
	Chrysotile high	Crocido-lite	Amosite	
Number of Animals:	4	4	4	
Number of Completed Animals:	0	0	0	
nasal cavity (Continued...)				
.... very slight	1	2	0	
.... slight	0	1	2	
Droplets, Hyaline, Respiratory epithelial	0	2	2	
.... very slight	0	2	2	
Hyperplasia, Mucous Cell	1	0	1	
.... very slight	0	0	1	
.... slight	1	0	0	
Infiltration, Inflammatory Cell, Subepithelial	0	0	1	
.... very slight	0	0	1	
Hyperplasia, Nalt	1	0	3	
.... slight	1	0	3	
nasopharynx				
Examined	4	4	4	
No Visible Lesions	4	4	4	
trachea				
Examined	4	4	4	
No Visible Lesions	3	4	4	
Infiltration, Mononuclear Cell, Subepithelial	1	0	0	

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Removal Reason: ALL	Male			
	Chrysotile high	Crocido-lite	Amosite	
Number of Animals:	4	4	4	
Number of Completed Animals:	0	0	0	
trachea (Continued...)				
.... very slight	1	0	0	
.... slight	0	0	0	

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(nose-only) with lifelong follow-up in the rat, 6 months post exposure

Comments and Markers

Removal Reason	Sex	Group	Measurement	Marker
ALL	Male	1	lung : Accumulation, Fibre-Laden Macrophages, Alveolar/Interstitial	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung : Accumulation, Fibre-Laden Macrophages, Alveolar/Interstitial, slight	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung : Accumulation, Particle-Laden Macrophages, Alveolar/Interstitial	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	3	lung : Accumulation, Particle-Laden Macrophages, Alveolar/Interstitial	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	4	lung : Accumulation, Particle-Laden Macrophages, Alveolar/Interstitial	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	5	lung : Accumulation, Particle-Laden Macrophages, Alveolar/Interstitial	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	6	lung : Accumulation, Particle-Laden Macrophages, Alveolar/Interstitial	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	1	lung : Accumulation, Particle-Laden Macrophages, Alveolar/Interstitial, very slight	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	3	lung : Accumulation, Particle-Laden Macrophages, Alveolar/Interstitial, very slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	4	lung : Accumulation, Particle-Laden Macrophages, Alveolar/Interstitial, very slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	6	lung : Accumulation, Particle-Laden Macrophages, Alveolar/Interstitial, very slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			

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Comments and Markers

Removal Reason	Sex	Group	Measurement	Marker
ALL	Male	1	lung : Fibrosis, Interstitial	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung : Fibrosis, Interstitial, very slight	cc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.01			
ALL	Male	1	lung : Fibrosis, Interstitial, slight	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung : Giant Cells, Syncytial	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung : Giant Cells, Syncytial, very slight	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung : Hyperplasia, Bronchiolo-Alveolar	cc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.01			
ALL	Male	6	lung : Hyperplasia, Bronchiolo-Alveolar	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	1	lung : Hyperplasia, Bronchiolo-Alveolar, slight	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung : Infiltration, Inflammatory Cell, Peribronchiolar	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung : Infiltration, Inflammatory Cell, Peribronchiolar, slight	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung : Infiltration, Inflammatory Cell, Perivascular	cc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.01			

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Comments and Markers

Removal Reason	Sex	Group	Measurement	Marker
ALL	Male	6	lung : Infiltration, Inflammatory Cell, Perivascular	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	1	lung : Infiltration, Inflammatory Cell, Perivascular, slight	c
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.05			
ALL	Male	1	lung : Infiltration, Inflammatory Cell, Alveolar/Interstitial	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	6	lung : Infiltration, Inflammatory Cell, Alveolar/Interstitial	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	1	lung : Infiltration, Inflammatory Cell, Alveolar/Interstitial, very slight	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	6	lung : Infiltration, Inflammatory Cell, Alveolar/Interstitial, very slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	1	lung : Infiltration, Inflammatory Cell, Alveolar/Interstitial, slight	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung : Microgranuloma	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung : Microgranuloma, very slight	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung : Microgranuloma, slight	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung : Wagner Grade 2	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			

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Comments and Markers

Removal Reason	Sex	Group	Measurement	Marker
ALL	Male	3	lung : Wagner Grade 2	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	4	lung : Wagner Grade 2	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	1	lung : Wagner Grade 3	c
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.05			
ALL	Male	1	lung : Wagner Grade 4	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung : Wagner Grade 1	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	3	lung : Wagner Grade 1	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	4	lung : Wagner Grade 1	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	5	lung : Wagner Grade 1	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	6	lung : Wagner Grade 1	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	1	lung : Accumulation, Particle-Laden Macrophages, Balt	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	6	lung : Accumulation, Particle-Laden Macrophages, Balt	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			

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02G16015 - Subchronic (13 week) brake dust inhalation toxicology study
(nose-only) with lifelong follow-up in the rat, 6 months post exposure

Comments and Markers

Removal Reason	Sex	Group	Measurement	Marker
ALL	Male	1	lung : Accumulation, Particle-Laden Macrophages, Balt, very slight	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	6	lung : Accumulation, Particle-Laden Macrophages, Balt, very slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	1	lung : Accumulation, Fibre-Laden Macrophages, Balt	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung : Accumulation, Fibre-Laden Macrophages, Balt, very slight	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung associated lymph nodes (laln) : Accumulation, Fibre-Laden Macrophages	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	1	lung associated lymph nodes (laln) : Accumulation, Fibre-Laden Macrophages, very slight	c
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.05			
ALL	Male	1	lung associated lymph nodes (laln) : Accumulation, Fibre-Laden Macrophages, slight	c
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.05			
ALL	Male	1	lung associated lymph nodes (laln) : Accumulation, Particle-Laden Macrophages	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			
ALL	Male	4	lung associated lymph nodes (laln) : Accumulation, Particle-Laden Macrophages	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	5	lung associated lymph nodes (laln) : Accumulation, Particle-Laden Macrophages	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	1	lung associated lymph nodes (laln) : Accumulation, Particle-Laden Macrophages, very slight	ccc
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.001			

Pathology - Intergroup Comparison of Pathology Observations

02G16015 - Subchronic (13 week) brake dust inhalation toxicology study
(nose-only) with lifelong follow-up in the rat, 6 months post exposure

Comments and Markers

Removal Reason	Sex	Group	Measurement	Marker
ALL	Male	4	lung associated lymph nodes (laln) : Accumulation, Particle-Laden Macrophages, very slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	5	lung associated lymph nodes (laln) : Accumulation, Particle-Laden Macrophages, very slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	1	nasal cavity : Droplets, Hyaline, Respiratory epithelial	c
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.05			
ALL	Male	1	nasal cavity : Droplets, Hyaline, Respiratory epithelial, very slight	c
	Comment: Group Factor Chi-Squared & Fisher's Exact: Test: Chi-Squared p < 0.05			
ALL	Male	8	lung : Accumulation, Fibre-Laden Macrophages, Alveolar/Interstitial	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Accumulation, Fibre-Laden Macrophages, Alveolar/Interstitial	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Accumulation, Fibre-Laden Macrophages, Alveolar/Interstitial, slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	7	lung : Accumulation, Particle-Laden Macrophages, Alveolar/Interstitial	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	7	lung : Accumulation, Particle-Laden Macrophages, Alveolar/Interstitial, very slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	7	lung : Fibrosis, Interstitial	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	8	lung : Fibrosis, Interstitial	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			

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02G16015 - Subchronic (13 week) brake dust inhalation toxicology study
(nose-only) with lifelong follow-up in the rat, 6 months post exposure

Comments and Markers

Removal Reason	Sex	Group	Measurement	Marker
ALL	Male	9	lung : Fibrosis, Interstitial	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	7	lung : Fibrosis, Interstitial, very slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Fibrosis, Interstitial, slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	8	lung : Giant Cells, Syncytial	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Giant Cells, Syncytial	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	8	lung : Giant Cells, Syncytial, very slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	7	lung : Hyperplasia, Bronchiolo-Alveolar	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	8	lung : Hyperplasia, Bronchiolo-Alveolar	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Hyperplasia, Bronchiolo-Alveolar	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	8	lung : Hyperplasia, Bronchiolo-Alveolar, slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Hyperplasia, Bronchiolo-Alveolar, slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			

Pathology - Intergroup Comparison of Pathology Observations

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Comments and Markers

Removal Reason	Sex	Group	Measurement	Marker
ALL	Male	8	lung : Infiltration, Inflammatory Cell, Peribronchiolar	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Infiltration, Inflammatory Cell, Peribronchiolar	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Infiltration, Inflammatory Cell, Peribronchiolar, slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	8	lung : Infiltration, Inflammatory Cell, Perivascular	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Infiltration, Inflammatory Cell, Perivascular	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	7	lung : Infiltration, Inflammatory Cell, Alveolar/Interstitial	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	8	lung : Infiltration, Inflammatory Cell, Alveolar/Interstitial	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Infiltration, Inflammatory Cell, Alveolar/Interstitial	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	7	lung : Infiltration, Inflammatory Cell, Alveolar/Interstitial, very slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Infiltration, Inflammatory Cell, Alveolar/Interstitial, slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	7	lung : Microgranuloma	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			

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(nose-only) with lifelong follow-up in the rat, 6 months post exposure

Comments and Markers

Removal Reason	Sex	Group	Measurement	Marker
ALL	Male	8	lung : Microgranuloma	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Microgranuloma	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	7	lung : Microgranuloma, very slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	8	lung : Microgranuloma, slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Microgranuloma, slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	8	lung : Wagner Grade 4	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Wagner Grade 4	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	7	lung : Wagner Grade 1	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	8	lung : Wagner Grade 1	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Wagner Grade 1	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	7	lung : Accumulation, Particle-Laden Macrophages, Balt	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			

Pathology - Intergroup Comparison of Pathology Observations

02G16015 - Subchronic (13 week) brake dust inhalation toxicology study
(nose-only) with lifelong follow-up in the rat, 6 months post exposure

Comments and Markers

Removal Reason	Sex	Group	Measurement	Marker
ALL	Male	7	lung : Accumulation, Particle-Laden Macrophages, Balt, very slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	8	lung : Accumulation, Fibre-Laden Macrophages, Balt	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Accumulation, Fibre-Laden Macrophages, Balt	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	8	lung : Accumulation, Fibre-Laden Macrophages, Balt, very slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung : Accumulation, Fibre-Laden Macrophages, Balt, very slight	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	8	lung associated lymph nodes (laln) : Accumulation, Fibre-Laden Macrophages	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			
ALL	Male	9	lung associated lymph nodes (laln) : Accumulation, Fibre-Laden Macrophages	f
	Comment: Test: Fisher's Exact 2 Sided p < 0.05			

Pathology - Intergroup Comparison of Pathology Observations

02G16015 - Subchronic (13 week) brake dust inhalation toxicology study (nose-only) with lifelong follow-up in the rat, 6 months post exposure

Key Page

Measurement/Statistics

Measurement	Descriptive	Comparative	Arithmetic/Adjusted	Transformation
Pathology Observation	Count Positives	Chi-Squared & Fisher's Exact		

Group Information

Short Name	Long Name	Report Headings	
1	Clean air	Clean air	control
2	brake dust low	brake dust	low
3	brake dust mid	Brake dust	mid
4	brake dust high	Brake dust	high
5	Particel Control	Titanium-	dioxide
6	Chrysotile low	Chrysotile	low
7	Chrysotile high	Chrysotile	high
8	Crocidolite	Crocido-	lite
9	Amosite	Amosite	

Removal Reason Grouping

Grouping Name	Abbreviation	Removal Reasons
Killed - Terminal Kill	TeKi	Killed - Terminal Kill
Killed - Moribund	US	Killed - Moribund
Found Dead	FD	Found Dead

Key Page

Rationalisation Details

Rationalisation: 6M_PE

Merges

larynx, Hemorrhage, Subepithelial, subepithelial, focal, very slight
- Is used to report the following findings:
  - larynx, Hemorrhage, subepithelial, focal, very slight
  - larynx, Hemorrhage, subepithelial, multifocal, very slight

larynx, Infiltration, Mononuclear Cell, Subepithelial, subepithelial, focal, very slight
- Is used to report the following findings:
  - larynx, Infiltration, Mononuclear Cell, subepithelial, focal, very slight
  - larynx, Infiltration, Mononuclear Cell, subepithelial, multifocal, very slight

larynx, Infiltration, Mononuclear Cell, Subepithelial, subepithelial, focal, slight
- Is used to report the following findings:
  - larynx, Infiltration, Mononuclear Cell, subepithelial, focal, slight
  - larynx, Infiltration, Mononuclear Cell, subepithelial, multifocal, slight

trachea, Infiltration, Mononuclear Cell, Subepithelial, subepithelial, focal, very slight
- Is used to report the following findings:
  - trachea, Infiltration, Mononuclear Cell, subepithelial, focal, very slight
  - trachea, Infiltration, Mononuclear Cell, subepithelial, multifocal, very slight

nasal cavity, Infiltration, Inflammatory Cell, Subepithelial, subepithelial, focal, very slight
- Is used to report the following findings:
  - nasal cavity, Infiltration, Inflammatory Cell, subepithelial, focal, very slight
  - nasal cavity, Infiltration, Inflammatory Cell, subepithelial, multifocal, very slight

Key Page

Merges (Continued)

lung, Accumulation, Particle-Laden Macrophages, Alveolar/Interstitial, alveolar/interstitial, focal, very slight
Is used to report the following findings:
lung, Accumulation, Particle-Laden Macrophages, alveolar/interstitial, focal, very slight
lung, Accumulation, Particle-Laden Macrophages, alveolar/interstitial, multifocal, very slight

lung, Infiltration, Inflammatory Cell, Alveolar/Interstitial, alveolar/interstitial, focal, very slight
Is used to report the following findings:
lung, Infiltration, Inflammatory Cell, alveolar/interstitial, focal, very slight
lung, Infiltration, Inflammatory Cell, alveolar/interstitial, multifocal, very slight

lung, Fibrosis, Interstitial, interstitial, focal, very slight
Is used to report the following findings:
lung, Fibrosis, interstitial, focal, very slight
lung, Fibrosis, interstitial, multifocal, very slight

lung, Giant Cells, Syncytial, focal, very slight
Is used to report the following findings:
lung, Giant Cells, Syncytial, focal, very slight
lung, Giant Cells, Syncytial, multifocal, very slight

lung, Hyperplasia, Bronchiolo-Alveolar, focal, very slight
Is used to report the following findings:
lung, Hyperplasia, Bronchiolo-Alveolar, focal, very slight
lung, Hyperplasia, Bronchiolo-Alveolar, multifocal, very slight

lung, Infiltration, Inflammatory Cell, Peribronchiolar, peribronchiolar, focal, very slight
Is used to report the following findings:
lung, Infiltration, Inflammatory Cell, peribronchiolar, focal, very slight

Key Page

Merges (Continued)

lung, Infiltration, Inflammatory Cell, peribronchiolar, multifocal, very slight

lung, Infiltration, Inflammatory Cell, Peribronchiolar, peribronchiolar, focal, slight

Is used to report the following findings:

lung, Infiltration, Inflammatory Cell, peribronchiolar, focal, slight

lung, Infiltration, Inflammatory Cell, peribronchiolar, multifocal, slight

lung, Infiltration, Inflammatory Cell, Perivascular, perivascular, focal, very slight

Is used to report the following findings:

lung, Infiltration, Inflammatory Cell, perivascular, focal, very slight

lung, Infiltration, Inflammatory Cell, perivascular, multifocal, very slight

lung, Infiltration, Inflammatory Cell, Perivascular, perivascular, focal, slight

Is used to report the following findings:

lung, Infiltration, Inflammatory Cell, perivascular, focal, slight

lung, Infiltration, Inflammatory Cell, perivascular, multifocal, slight

lung, Macrophage Aggregation, Alveolar, focal, very slight

Is used to report the following findings:

lung, Macrophage Aggregation, Alveolar, focal, very slight

lung, Macrophage Aggregation, Alveolar, multifocal, very slight

lung, Microgranuloma, focal, very slight

Is used to report the following findings:

lung, Microgranuloma, focal, very slight

lung, Microgranuloma, multifocal, very slight

lung, Accumulation, Particle-Laden Macrophages, Balt, focal, very slight

Is used to report the following findings:

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Key Page

Merges (Continued)

lung, Accumulation, Particle-Laden Macrophages, Balt, focal, very slight
lung, Accumulation, Particle-Laden Macrophages, Balt, multifocal, very slight

lung, Accumulation, Fibre-Laden Macrophages, Balt, focal, very slight
Is used to report the following findings:
lung, Accumulation, Fibre-Laden Macrophages, Balt, focal, very slight
lung, Accumulation, Fibre-Laden Macrophages, Balt, multifocal, very slight

lung associated lymph nodes (laln), Accumulation, Fibre-Laden Macrophages, focal, very slight
Is used to report the following findings:
lung associated lymph nodes (laln), Accumulation, Fibre-Laden Macrophages, focal, very slight
lung associated lymph nodes (laln), Accumulation, Fibre-Laden Macrophages, multifocal, very slight

lung associated lymph nodes (laln), Accumulation, Particle-Laden Macrophages, focal, very slight
Is used to report the following findings:
lung associated lymph nodes (laln), Accumulation, Particle-Laden Macrophages, focal, very slight
lung associated lymph nodes (laln), Accumulation, Particle-Laden Macrophages, multifocal, very slight

Edits

larynx, Hemorrhage, Subepithelial, subepithelial, focal, slight
Is used to report the following findings:
larynx, Hemorrhage, subepithelial, focal, slight

larynx, Infiltration, Inflammatory Cell, Subepithelial, subepithelial, focal, very slight
Is used to report the following findings:
larynx, Infiltration, Inflammatory Cell, subepithelial, focal, very slight

trachea, Infiltration, Mononuclear Cell, Subepithelial, subepithelial, focal, slight
Is used to report the following findings:

Key Page

Edits (Continued)

trachea, Infiltration, Mononuclear Cell, subepithelial, focal, slight

lung, Accumulation, Fibre-Laden Macrophages, Alveolar/Interstitial, alveolar/interstitial, multifocal, very slight
Is used to report the following findings:
lung, Accumulation, Fibre-Laden Macrophages, alveolar/interstitial, multifocal, very slight

lung, Accumulation, Fibre-Laden Macrophages, Alveolar/Interstitial, alveolar/interstitial, multifocal, slight
Is used to report the following findings:
lung, Accumulation, Fibre-Laden Macrophages, alveolar/interstitial, multifocal, slight

lung, Accumulation, Particle-Laden Macrophages, Alveolar/Interstitial, alveolar/interstitial, focal, slight
Is used to report the following findings:
lung, Accumulation, Particle-Laden Macrophages, alveolar/interstitial, focal, slight

lung, Infiltration, Inflammatory Cell, Alveolar/Interstitial, alveolar/interstitial, multifocal, slight
Is used to report the following findings:
lung, Infiltration, Inflammatory Cell, alveolar/interstitial, multifocal, slight

lung, Hemorrhage, Alveolar, alveolar, focal, very slight
Is used to report the following findings:
lung, Hemorrhage, alveolar, focal, very slight

lung, Fibrosis, Interstitial, interstitial, multifocal, slight
Is used to report the following findings:
lung, Fibrosis, interstitial, multifocal, slight

lung, Infiltration, Mononuclear Cell, Interstitial, interstitial, focal, very slight
Is used to report the following findings:
lung, Infiltration, Mononuclear Cell, interstitial, focal, very slight

lung, Infiltration, Mononuclear Cell, Perivascular, perivascular, focal, very slight

Key Page

Edits (Continued)

Is used to report the following findings:
lung, Infiltration, Mononuclear Cell, perivascular, focal, very slight

lung, Infiltration, Mononuclear Cell, Pleural, pleural, focal, slight
Is used to report the following findings:
lung, Infiltration, Mononuclear Cell, pleural, focal, slight

lung, Fibrosis, Pleural, pleural, focal, very slight
Is used to report the following findings:
lung, Fibrosis, pleural, focal, very slight

lung, Fibrosis, Pleural, pleural, focal, slight
Is used to report the following findings:
lung, Fibrosis, pleural, focal, slight

lung, Infiltration, Inflammatory Cell, Pleural, pleural, focal, very slight
Is used to report the following findings:
lung, Infiltration, Inflammatory Cell, pleural, focal, very slight

nasal cavity, Corpora Amylacea, Olfactory epithelial, olfactory epithelial, focal, very slight
Is used to report the following findings:
nasal cavity, Corpora Amylacea, olfactory epithelial, focal, very slight

nasal cavity, Droplets, Hyaline, Olfactory epithelial, olfactory epithelial, multifocal, very slight
Is used to report the following findings:
nasal cavity, Droplets, Hyaline, olfactory epithelial, multifocal, very slight

nasal cavity, Droplets, Hyaline, Olfactory epithelial, olfactory epithelial, multifocal, slight
Is used to report the following findings:
nasal cavity, Droplets, Hyaline, olfactory epithelial, multifocal, slight

Key Page

Edits (Continued)

nasal cavity, Droplets, Hyaline, Respiratory epithelial, respiratory epithelial, multifocal, very slight

Is used to report the following findings:

nasal cavity, Droplets, Hyaline, respiratory epithelial, multifocal, very slight

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