

TDMS No. 20537 - 02
Test Type: 90-DAY
Route: INTRADUCTAL CANNULATION
Species/Strain: RATS/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Adenoviral Vector (AdhAQP1)
CAS Number: ADNIRVECAQP

Date Report Requested: 09/10/2009
Time Report Requested: 11:38:02
First Dose M/F: NA / 07/25/05
Lab: MBA

F1_R2_14Wk_TSAC

C Number: C20537
Lock Date: 11/19/2007
Cage Range: ALL
Date Range: ALL
Reasons For Removal: 25021 TSAC
Removal Date Range: ALL
Treatment Groups: Include 005 VEHCONTRCOHRTE Include 010 2-8ADHAQP1COHTE Include 015 8-9ADHAQP1COHTE
Include 020 2-11ADHAQP1COHTE
Study Gender: Female
TDMSE Version: 2.1.0

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 Adenoviral Vector (AdhAQP1)
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 Lab: MBA

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	9	9	9	9	9
	2	2	2	2	2
FISCHER 344 RATS FEMALE	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
VEHCONTRCOHRTE	1	1	1	1	1
	2	2	2	2	2
	1	2	3	4	5
	* TOTALS				

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	5	
Intestine Large, Cecum	+	+	+	+	+	5	
Intestine Large, Colon	+	+	+	+	+	5	
Intestine Large, Rectum	+	+	+	+	+	5	
Intestine Small, Duodenum	+	+	+	+	+	5	
Mucosa, Hyperplasia			3				1 3.0
Intestine Small, Ileum	+	+	+	+	+	5	
Intestine Small, Jejunum	+	+	+	+	+	5	
Liver	+	+	+	+	+	5	
Inflammation	2	2	1	2	1		5 1.6
Oral Mucosa	+	+	+	+	+	5	
Pancreas	+	+	+	+	+	5	
Salivary Glands	+	+		+	+	4	
Right, Submandibular Gland, Regeneration	1	1		1	1		4 1.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

Page 2

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	9	9	9	9	9
	2	2	2	2	2
<hr/>					
FISCHER 344 RATS FEMALE	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
VEHCONTRCOHRTE	1	1	1	1	1
	2	2	2	2	2
	1	2	3	4	5
	* TOTALS				

Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5
Tongue	+	+	+	+	+	5

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	5
Heart	+	+	+	+	+	5
Cardiomyopathy	1					1 1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	5
Hypertrophy, Focal			1			1 1.0
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade
 + .. Tissue examined microscopically
 x .. Lesion present
 I .. Insufficient tissue
 M .. Missing tissue
 A .. Autolysis precludes evaluation
 BLANK .. Not examined microscopically
 1-4 .. Lesion qualified as:
 1) Minimal 3) Moderate
 2) Mild 4) Marked
 Page 3

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	9	9	9	9	9
	2	2	2	2	2
<hr/>					
FISCHER 344 RATS FEMALE	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
VEHCONTRCOHRTE	1	1	1	1	1
	2	2	2	2	2
	1	2	3	4	5

* TOTALS

Pituitary Gland + + + + +

5

Thyroid Gland + + + + +

5

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland + + + + +

5

Ovary + + + + +

5

Uterus + + + + +

5

HEMATOPOIETIC SYSTEM

Bone Marrow + + + + +

5

Lymph Node, Mandibular M M M M M

0

Lymph Node, Mesenteric + + + + +

5

Spleen + + + + +

5

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Page 4

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	2	2	2	2	2	
FISCHER 344 RATS FEMALE	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	
VEHCONTRCOHRTE	1	1	1	1	1	
	2	2	2	2	2	
	1	2	3	4	5	* TOTALS
Thymus	+	+	+	+	+	5
INTEGUMENTARY SYSTEM						
Mammary Gland	+	+	+	+	+	5
Skin	+	+	+	+	+	5
MUSCULOSKELETAL SYSTEM						
Bone	+	+	+	+	+	5
NERVOUS SYSTEM						
Brain	+	+	+	+	+	5
RESPIRATORY SYSTEM						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	2	2	2	2	2	
.....						
FISCHER 344 RATS FEMALE	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	
VEHCONTRCOHRTE	1	1	1	1	1	
	2	2	2	2	2	
	1	2	3	4	5	* TOTALS

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	5
Harderian Gland Inflammation	+	+	+	+	+	5
	1	1				2 1.0

URINARY SYSTEM

Kidney Nephropathy	+	+	+	+	+	5
				1		1 1.0
Urinary Bladder	+	+	+	+	+	5

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DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	9	9	9	9	9
	2	2	2	2	2
<hr/>					
FISCHER 344 RATS FEMALE	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
2-8ADHAQP1COHTE	1	1	1	1	1
	4	4	4	4	5
	6	7	8	9	0
	* TOTALS				

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	5
Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Inflammation	3	3	2	2	3	5 2.6
Oral Mucosa	+	+	+	+	+	5
Pancreas	+	+	+	+	+	5
Salivary Glands	+	+	+	+		4
Right, Submandibular Gland, Regeneration	1	2	1	1		4 1.3

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	2	2	2	2	2	
FISCHER 344 RATS FEMALE	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	
2-8ADHAQP1COHTE	1	1	1	1	1	
	4	4	4	4	5	
	6	7	8	9	0	
						* TOTALS
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5
Tongue	+	+	+	+	+	5
CARDIOVASCULAR SYSTEM						
Blood Vessel	+	+	+	+	+	5
Heart	+	+	+	+	+	5
Cardiomyopathy		1	1	1		3 1.0
ENDOCRINE SYSTEM						
Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	9	9	9	9	9
	2	2	2	2	2
<hr/>					
FISCHER 344 RATS FEMALE	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
2-8ADHAQP1COHTE	1	1	1	1	1
	4	4	4	4	5
	6	7	8	9	0
	* TOTALS				

Thyroid Gland	+	+	+	+	+	5
---------------	---	---	---	---	---	----------

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	5
Ovary	+	+	+	+	+	5
Uterus	+	+	+	+	+	5

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5

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+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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1-4 .. Lesion qualified as:

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2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	9	9	9	9	9
	2	2	2	2	2
<hr/>					
FISCHER 344 RATS FEMALE	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
2-8ADHAQP1COHTE	1	1	1	1	1
	4	4	4	4	5
	6	7	8	9	0
	* TOTALS				

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+	+	+	5
Skin	+	+	+	+	+	5

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	5
------	---	---	---	---	---	---

NERVOUS SYSTEM

Brain	+	+	+	+	+	5
-------	---	---	---	---	---	---

RESPIRATORY SYSTEM

Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5

SPECIAL SENSES SYSTEM

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

Page 10

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

	DAY ON TEST	0	0	0	0	0	
		0	0	0	0	0	
		9	9	9	9	9	
		2	2	2	2	2	
FISCHER 344 RATS FEMALE		0	0	0	0	0	
2-8ADHAQP1COHTE	ANIMAL ID	0	0	0	0	0	
		1	1	1	1	1	
		4	4	4	4	5	
		6	7	8	9	0	
							* TOTALS

Eye	+	+	+	+	+		5
Harderian Gland Inflammation	+	+	+	+	+		5
	1			1			2 1.0

URINARY SYSTEM

Kidney	+	+	+	+	+		5
Urinary Bladder	+	+	+	+	+		5

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	9	9	9	9	9
	2	2	2	2	2
<hr/>					
FISCHER 344 RATS FEMALE	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
8-9ADHAQP1COHTE	1	1	1	1	1
	7	7	7	7	7
	1	2	3	4	5
	* TOTALS				

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	5
Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Inflammation	1	1	2	2	2	5 1.6
Oral Mucosa	+	+	+	+	+	5
Pancreas	+	+	+	+	+	5
Salivary Glands		+		+	+	3
Left, Submandibular Gland, Regeneration					1	1 1.0
Parotid Gland, Right, Regeneration			1			1 1.0

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

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BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

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DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	9	9	9	9	9
	2	2	2	2	2
<hr/>					
FISCHER 344 RATS FEMALE	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
8-9ADHAQP1COHTE	1	1	1	1	1
	7	7	7	7	7
	1	2	3	4	5

*** TOTALS**

Right, Submandibular Gland, Regeneration	1	1				2 1.0
Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5
Tongue	+	+	+	+	+	5

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	5
Heart	+	+	+	+	+	5
Cardiomyopathy	1				1	2 1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	9	9	9	9	9
	2	2	2	2	2
.....					
FISCHER 344 RATS FEMALE	0	0	0	0	0
8-9ADHAQP1COHTE	0	0	0	0	0
ANIMAL ID	1	1	1	1	1
	7	7	7	7	7
	1	2	3	4	5
	* TOTALS				

Pituitary Gland	+	+	+	+	+	5
.....						
Thyroid Gland	+	+	+	+	+	5

GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	5
.....						
Ovary	+	+	+	+	+	5
.....						
Uterus	+	+	+	+	+	5

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	5
.....						
Lymph Node, Mandibular	M	M	M	M	M	0
.....						
Lymph Node, Mesenteric	+	+	+	+	+	5
.....						
Spleen	+	+	+	+	+	5

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0	
	0	0	0	0	0	
	9	9	9	9	9	
	2	2	2	2	2	
FISCHER 344 RATS FEMALE	0	0	0	0	0	
8-9ADHAQP1COHTE	0	0	0	0	0	
ANIMAL ID	1	1	1	1	1	
	7	7	7	7	7	
	1	2	3	4	5	* TOTALS
Thymus	+	+	+	+	+	5
INTEGUMENTARY SYSTEM						
Mammary Gland	+	+	+	+	+	5
Skin	+	+	+	+	+	5
MUSCULOSKELETAL SYSTEM						
Bone	+	+	+	+	+	5
NERVOUS SYSTEM						
Brain	+	+	+	+	+	5
RESPIRATORY SYSTEM						
Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

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DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	9	9	9	9	9
	2	2	2	2	2
.....					
FISCHER 344 RATS FEMALE	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
8-9ADHAQP1COHTE	1	1	1	1	1
	7	7	7	7	7
	1	2	3	4	5
	* TOTALS				

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5

URINARY SYSTEM

Kidney	+	+	+	+	+	5
Urinary Bladder	+	+	+	+	+	5

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DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	9	9	9	9	9
	2	2	2	2	2
<hr/>					
FISCHER 344 RATS FEMALE	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
2-11ADHAQP1COHTE	1	1	1	1	2
	9	9	9	9	0
	6	7	8	9	0
	* TOTALS				

ALIMENTARY SYSTEM

Esophagus	+	+	+	+	+	5
Intestine Large, Cecum	+	+	+	+	+	5
Intestine Large, Colon	+	+	+	+	+	5
Intestine Large, Rectum	+	+	+	+	+	5
Intestine Small, Duodenum	+	+	+	+	+	5
Intestine Small, Ileum	+	+	+	+	+	5
Intestine Small, Jejunum	+	+	+	+	+	5
Liver	+	+	+	+	+	5
Inflammation	1	3	1	3	2	5 2.0
Oral Mucosa	+	+	+	+	+	5
Pancreas	+	+	+	+	+	5
Salivary Glands	+	+			+	3
Right, Submandibular Gland, Inflammation					1	1 1.0
Right, Submandibular Gland, Regeneration	1	1			1	3 1.0

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+ .. Tissue examined microscopically

x .. Lesion present

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Page 17

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	9	9	9	9	9
	2	2	2	2	2
<hr/>					
FISCHER 344 RATS FEMALE	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
2-11ADHAQP1COHTE	1	1	1	1	2
	9	9	9	9	0
	6	7	8	9	0
	* TOTALS				

Stomach, Forestomach	+	+	+	+	+	5
Stomach, Glandular	+	+	+	+	+	5
Tongue	+	+	+	+	+	5

CARDIOVASCULAR SYSTEM

Blood Vessel	+	+	+	+	+	5
Heart	+	+	+	+	+	5
Cardiomyopathy	1				1	2 1.0

ENDOCRINE SYSTEM

Adrenal Cortex	+	+	+	+	+	5
Adrenal Medulla	+	+	+	+	+	5
Islets, Pancreatic	+	+	+	+	+	5
Parathyroid Gland	+	+	+	+	+	5
Pituitary Gland	+	+	+	+	+	5

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DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	9	9	9	9	9
	2	2	2	2	2
FISCHER 344 RATS FEMALE	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
2-11ADHAQP1COHTE	1	1	1	1	2
	9	9	9	9	0
	6	7	8	9	0
	* TOTALS				

Thyroid Gland	+	+	+	+	+	5
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GENERAL BODY SYSTEM

NONE

GENITAL SYSTEM

Clitoral Gland	+	+	+	+	+	5
Ovary	+	+	+	+	+	5
Uterus	+	+	+	+	+	5

HEMATOPOIETIC SYSTEM

Bone Marrow	+	+	+	+	+	5
Lymph Node, Mandibular	M	M	M	M	M	0
Lymph Node, Mesenteric	+	+	+	+	+	5
Spleen	+	+	+	+	+	5
Thymus	+	+	+	+	+	5

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	9	9	9	9	9
	2	2	2	2	2
<hr/>					
FISCHER 344 RATS FEMALE	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
2-11ADHAQP1COHTE	1	1	1	1	2
	9	9	9	9	0
	6	7	8	9	0
	* TOTALS				

INTEGUMENTARY SYSTEM

Mammary Gland	+	+	+		+	4
Skin	+	+	+	+	+	5

MUSCULOSKELETAL SYSTEM

Bone	+	+	+	+	+	5
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NERVOUS SYSTEM

Brain	+	+	+	+	+	5
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RESPIRATORY SYSTEM

Lung	+	+	+	+	+	5
Nose	+	+	+	+	+	5
Trachea	+	+	+	+	+	5

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

DAY ON TEST	0	0	0	0	0
	0	0	0	0	0
	9	9	9	9	9
	2	2	2	2	2
.....					
FISCHER 344 RATS FEMALE	0	0	0	0	0
ANIMAL ID	0	0	0	0	0
2-11ADHAQP1COHTE	1	1	1	1	2
	9	9	9	9	0
	6	7	8	9	0
	* TOTALS				

SPECIAL SENSES SYSTEM

Eye	+	+	+	+	+	5
Harderian Gland	+	+	+	+	+	5

URINARY SYSTEM

Kidney	+	+	+	+	+	5
Cyst, Multiple				X	X	2
Urinary Bladder	+	+	+	+	+	5

*** END OF REPORT ***

* .. Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

x .. Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

BLANK .. Not examined microscopically

1-4 .. Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked