

Experiment Number: 08010 - 02

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH
AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

First Dose M/F: 09/13/10 / 09/13/10

Species/Strain: MICE/B6C3F1

Lab: BNW

F1_Rev.1_M3

NTP Study Number: C08010
Lock Date: 08/30/2011
Cage Range: ALL
Date Range: ALL
Reasons For Removal: ALL
Removal Date Range: ALL
Treatment Groups: Include ALL
Study Gender: Both
TDMSE Version: 3.0.2.3_002
PWG Approval Date: 09/30/2012

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10

ALIMENTARY SYSTEM

Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Gallbladder	(8)	(0)	(0)	(0)	(0)	(10)
Infiltration Cellular, Mixed Cell	1 [1.0]					
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Peyer's Patch, Inflammation, Chronic Active	1 [1.0]					
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(0)	(0)	(0)	(0)	(10)
Infiltration Cellular, Mixed Cell	1 [1.0]					3 [1.0]
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Basophilic Focus	1					1 [1.0]
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Parotid Gland, Atrophy	1 [1.0]					
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
Cyst Epithelial Inclusion						1 [1.0]

CARDIOVASCULAR SYSTEM

Blood Vessel	(10)	(0)	(0)	(1)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Mineralization						1 [1.0]

a - Number of animals examined microscopically at site and number of animals with lesion

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Valve, Inflammation, Chronic Active						1 [1.0]
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Subcapsular, Hyperplasia	3 [1.0]					3 [1.0]
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(5)	(0)	(0)	(0)	(0)	(7)
Cyst						1 [1.0]
Pituitary Gland	(9)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
Inflammation, Chronic Active	1 [1.0]					
Ultimobranchial Cyst						1
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Duct, Ectasia	1 [3.0]					3 [3.0]
Prostate	(10)	(0)	(0)	(0)	(0)	(10)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(0)	(0)	(10)
Degeneration	2 [1.0]					1 [1.0]
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(10)	(10)	(10)	(10)	(10)
Myeloid Cell, Hyperplasia	1 [1.0]				6 [1.2]	6 [1.5]

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Bronchial Pigmentation	(10) 1 [2.0]	(0)	(0)	(0)	(0)	(7)
Lymph Node, Mandibular Hyperplasia	(6)	(0)	(0)	(0)	(0)	(9) 1 [1.0]
Hyperplasia, Plasma Cell	1 [1.0]					2 [2.5]
Lymph Node, Mediastinal	(3)	(0)	(0)	(0)	(0)	(3)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
Cyst	1					
INTEGUMENTARY SYSTEM						
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
Skeletal Muscle	(0)	(0)	(0)	(0)	(0)	(7)
Laryngeal, Degeneration						4 [1.0]
Laryngeal, Necrosis						4 [1.3]
Laryngeal, Regeneration						4 [1.0]
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body			1		2	
Inflammation, Acute			1 [1.0]		2 [1.5]	
Inflammation, Chronic Active	1 [1.0]			1 [1.0]	2 [1.0]	10 [1.4]

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Respiratory Epithelium, Hyperplasia, Atypical					1 [3.0]	
Respiratory Epithelium, Metaplasia, Atypical, Squamous					8 [2.8]	10 [2.6]
Respiratory Epithelium, Metaplasia, Squamous		1 [1.0]		2 [1.0]	1 [3.0]	
Respiratory Epithelium, Necrosis			1 [1.0]			3 [1.0]
Respiratory Epithelium, Regeneration		1 [2.0]	2 [1.0]	2 [1.5]	9 [1.9]	
Respiratory Epithelium, Ulcer			1 [1.0]			
Squamous Epithelium, Hyperplasia		1 [1.0]	1 [1.0]	2 [1.0]		2 [1.0]
Squamous Epithelium, Hyperplasia, Atypical					9 [2.3]	8 [1.8]
Squamous Epithelium, Necrosis					1 [1.0]	2 [1.0]
Squamous Epithelium, Regeneration				3 [1.0]	1 [3.0]	
Squamous Epithelium, Ulcer			1 [1.0]			2 [1.0]
Venule, Thrombus						1
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Bronchiole, Foreign Body						4
Bronchiole, Infiltration Cellular, Polymorphonuclear						5 [1.0]
Bronchiole, Epithelium, Degeneration						4 [1.5]
Bronchiole, Epithelium, Hyperplasia					1 [1.0]	4 [1.0]
Bronchus, Foreign Body						1
Bronchus, Infiltration Cellular, Polymorphonuclear						9 [1.1]
Bronchus, Inflammation, Chronic				1 [1.0]	6 [1.2]	9 [1.2]
Bronchus, Ulcer						1 [1.0]
Bronchus, Epithelium, Degeneration				2 [1.0]	9 [3.0]	8 [2.5]
Bronchus, Epithelium, Hyperplasia					2 [2.5]	
Bronchus, Epithelium, Hyperplasia, Atypical					7 [2.1]	
Bronchus, Epithelium, Metaplasia, Atypical, Squamous						10 [2.6]
Bronchus, Epithelium, Necrosis						3 [2.0]
Bronchus, Epithelium, Regeneration		1 [1.0]		1 [1.0]	8 [3.5]	7 [2.3]
Perivascular, Inflammation, Acute			1 [1.0]			
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body						2
Inflammation, Suppurative					10 [1.1]	10 [2.4]
Glands, Dilatation	1 [3.0]					

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First Dose M/F: 09/13/10 / 09/13/10

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Olfactory Epithelium, Accumulation, Hyaline Droplet					1 [1.0]	6 [1.7]
Olfactory Epithelium, Atrophy					10 [2.2]	10 [1.9]
Olfactory Epithelium, Metaplasia, Respiratory					10 [1.3]	9 [1.3]
Respiratory Epithelium, Accumulation, Hyaline Droplet					4 [1.0]	7 [1.1]
Respiratory Epithelium, Hyperplasia					3 [1.7]	4 [2.0]
Respiratory Epithelium, Metaplasia, Squamous				4 [1.0]	8 [1.9]	9 [2.8]
Respiratory Epithelium, Necrosis					1 [1.0]	4 [1.8]
Respiratory Epithelium, Regeneration				6 [1.0]	9 [1.4]	10 [2.2]
Septum, Necrosis						7 [1.6]
Septum, Perforation					2 [3.0]	4 [2.8]
Turbinates, Atrophy					9 [1.3]	10 [1.8]
Turbinates, Necrosis					9 [1.4]	10 [2.3]
Trachea	(10)	(10)	(9)	(10)	(10)	(10)
Foreign Body			1			1
Inflammation, Suppurative			1 [2.0]			5 [1.6]
Inflammation, Chronic Active						5 [1.2]
Epithelium, Degeneration					1 [1.0]	
Epithelium, Hyperplasia, Atypical					1 [1.0]	1 [3.0]
Epithelium, Metaplasia, Atypical, Squamous					1 [2.0]	10 [3.3]
Epithelium, Necrosis						1 [2.0]
Epithelium, Regeneration					8 [2.9]	
Lumen, Inflammation, Suppurative						2 [1.0]

SPECIAL SENSES SYSTEM

Eye	(10)	(10)	(10)	(10)	(10)	(10)
Cornea, Inflammation, Acute						1 [1.0]
Cornea, Epithelium, Cellular Alteration, Focal					1 [1.0]	
Cornea, Epithelium, Hyperplasia						1 [1.0]
Retina, Dysplasia						1
Sclera, Inflammation, Acute				1 [1.0]		
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
Hyperplasia						1 [1.0]

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE MALE	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
<hr/>						
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Infiltration Cellular, Mixed Cell	5 [1.0]					1 [1.0]
Nephropathy	2 [1.0]					4 [1.3]
Papilla, Mineralization	2 [1.0]					1 [1.0]
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(10)

*** END OF MALE ***

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Gallbladder	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(0)	(0)	(0)	(0)	(10)
Infiltration Cellular, Mixed Cell	5 [1.0]					4 [1.0]
Tension Lipidosis						1
Mesentery	(0)	(1)	(0)	(0)	(0)	(0)
Fat, Hemorrhage		1 [2.0]				
Fat, Necrosis		1 [1.0]				
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(10)
Submandibular Gland, Infiltration Cellular, Mononuclear Cell	2 [1.0]					1 [1.0]
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(10)
CARDIOVASCULAR SYSTEM						
Blood Vessel	(10)	(0)	(0)	(0)	(0)	(10)
Heart	(10)	(0)	(0)	(0)	(0)	(10)

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Lab: BNW

B6C3F1 MICE FEMALE	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
ENDOCRINE SYSTEM						
Adrenal Cortex	(10)	(10)	(10)	(10)	(10)	(10)
Subcapsular, Hyperplasia	6 [1.7]					6 [1.5]
X-zone, Vacuolization Cytoplasmic	10 [2.8]	10 [2.3]	10 [1.9]	10 [2.4]	10 [1.5]	10 [1.0]
Adrenal Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(6)	(0)	(0)	(0)	(0)	(7)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
Ultimobranchial Cyst	1					1

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

Clitoral Gland	(8)	(0)	(0)	(0)	(0)	(7)
Inflammation						1 [1.0]
Ovary	(5)	(7)	(9)	(7)	(10)	(9)
Follicle, Polyovular	1		3		1	3
Uterus	(10)	(1)	(0)	(0)	(0)	(9)
Decidual Reaction		1				

HEMATOPOIETIC SYSTEM

Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node, Bronchial	(9)	(0)	(0)	(0)	(0)	(9)
Hyperplasia, Plasma Cell						1 [1.0]
Lymph Node, Mandibular	(10)	(8)	(10)	(8)	(9)	(9)
Hyperplasia, Plasma Cell					1 [1.0]	4 [1.5]

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B6C3F1 MICE FEMALE	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Lymph Node, Mediastinal	(1)	(0)	(0)	(0)	(0)	(6)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Depletion Cellular	1 [1.0]					
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
Skeletal Muscle	(0)	(0)	(0)	(0)	(0)	(6)
Laryngeal, Degeneration						2 [1.0]
Laryngeal, Necrosis						1 [1.0]
Laryngeal, Regeneration						6 [1.0]
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
RESPIRATORY SYSTEM						
Larynx	(10)	(10)	(10)	(10)	(10)	(10)
Inflammation, Acute			2 [1.5]			
Inflammation, Chronic Active			1 [1.0]	1 [1.0]	2 [1.0]	10 [1.6]
Lumen, Inflammation, Suppurative						1 [3.0]
Respiratory Epithelium, Hyperplasia		1 [1.0]			1 [4.0]	
Respiratory Epithelium, Hyperplasia, Atypical						1 [2.0]
Respiratory Epithelium, Metaplasia, Atypical, Squamous					9 [2.2]	10 [3.0]
Respiratory Epithelium, Metaplasia, Squamous		1 [2.0]				

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B6C3F1 MICE FEMALE	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Respiratory Epithelium, Necrosis			2 [1.0]			2 [1.0]
Respiratory Epithelium, Regeneration				1 [1.0]	7 [2.0]	
Respiratory Epithelium, Ulcer					1 [1.0]	
Squamous Epithelium, Hyperplasia				4 [1.5]	1 [1.0]	
Squamous Epithelium, Hyperplasia, Atypical					9 [2.2]	10 [2.4]
Squamous Epithelium, Necrosis					3 [1.0]	3 [1.0]
Squamous Epithelium, Regeneration			2 [1.0]			
Squamous Epithelium, Ulcer						1 [1.0]
Lung	(10)	(10)	(10)	(10)	(10)	(10)
Bronchiole, Foreign Body						1
Bronchiole, Infiltration Cellular, Polymorphonuclear						3 [1.0]
Bronchiole, Epithelium, Hyperplasia					1 [1.0]	1 [1.0]
Bronchus, Foreign Body						1
Bronchus, Infiltration Cellular, Polymorphonuclear						9 [1.3]
Bronchus, Inflammation, Chronic					4 [1.0]	9 [1.6]
Bronchus, Epithelium, Degeneration					9 [1.8]	8 [2.8]
Bronchus, Epithelium, Hyperplasia					1 [2.0]	
Bronchus, Epithelium, Hyperplasia, Atypical					1 [3.0]	
Bronchus, Epithelium, Metaplasia, Atypical, Squamous						10 [2.1]
Bronchus, Epithelium, Necrosis						2 [1.0]
Bronchus, Epithelium, Regeneration					9 [2.4]	9 [2.1]
Bronchus, Epithelium, Ulcer						2 [1.0]
Perivascular, Inflammation, Chronic Active	1 [2.0]					
Nose	(10)	(10)	(10)	(10)	(10)	(10)
Foreign Body					3	
Inflammation, Suppurative					10 [1.8]	10 [2.5]
Inflammation, Acute				1 [1.0]		
Olfactory Epithelium, Accumulation, Hyaline Droplet					7 [1.1]	10 [1.5]
Olfactory Epithelium, Atrophy		1 [1.0]			10 [2.0]	9 [1.8]
Olfactory Epithelium, Metaplasia, Respiratory					7 [1.1]	8 [1.3]
Respiratory Epithelium, Accumulation, Hyaline Droplet	1 [1.0]				5 [1.0]	10 [1.5]
Respiratory Epithelium, Hyperplasia					8 [1.8]	4 [1.8]

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Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Respiratory Epithelium, Metaplasia, Squamous				8 [1.0]	10 [2.0]	10 [2.1]
Respiratory Epithelium, Necrosis					1 [1.0]	2 [1.0]
Respiratory Epithelium, Regeneration				1 [1.0]	5 [1.2]	9 [2.4]
Septum, Necrosis						8 [2.1]
Septum, Perforation					1 [3.0]	3 [3.0]
Squamous Epithelium, Necrosis					2 [1.0]	
Turbinate, Atrophy					10 [1.0]	10 [1.9]
Turbinate, Necrosis					9 [2.3]	10 [2.4]
Trachea	(10)	(10)	(10)	(10)	(10)	(8)
Foreign Body						1
Inflammation, Suppurative						5 [1.6]
Inflammation, Chronic Active						3 [2.0]
Epithelium, Hyperplasia, Atypical						3 [2.0]
Epithelium, Metaplasia, Atypical, Squamous					1 [1.0]	8 [3.1]
Epithelium, Metaplasia, Squamous		1 [1.0]	1 [1.0]			
Epithelium, Necrosis					1 [1.0]	1 [1.0]
Epithelium, Regeneration	1 [1.0]				10 [2.8]	
Lumen, Inflammation, Suppurative						1 [4.0]
SPECIAL SENSES SYSTEM						
Eye	(10)	(10)	(10)	(10)	(10)	(10)
Ciliary Body, Inflammation, Acute						1 [1.0]
Cornea, Inflammation, Acute						2 [1.5]
Cornea, Mineralization						6 [2.3]
Cornea, Ulcer						2 [1.5]
Cornea, Epithelium, Cellular Alteration, Focal					3 [1.0]	
Cornea, Epithelium, Hyperplasia						3 [1.0]
Harderian Gland	(10)	(0)	(0)	(0)	(0)	(10)
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Infiltration Cellular, Mixed Cell	2 [1.0]					
Infiltration Cellular, Mononuclear Cell						1 [1.0]

a - Number of animals examined microscopically at site and number of animals with lesion

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)

Experiment Number: 08010 - 02

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH
AVERAGE SEVERITY GRADES[b]**

Date Report Requested: 04/29/2016

Test Type: 90-DAY

2,3-Pentanedione

Time Report Requested: 09:08:24

Route: RESPIRATORY EXPOSURE WHOLE BODY

CAS Number: 600-14-6

First Dose M/F: 09/13/10 / 09/13/10

Species/Strain: MICE/B6C3F1

Lab: BNW

B6C3F1 MICE FEMALE	Control	6.25 ppm	12.5 ppm	25 ppm	50 ppm	100 ppm
Nephropathy	3 [1.0]					3 [1.0]
Renal Tubule, Dilatation						1 [2.0]
Ureter	(0)	(0)	(0)	(0)	(0)	(1)
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(9)

*** END OF REPORT ***

a - Number of animals examined microscopically at site and number of animals with lesion

b-Average severity grade(1-minimal;2-mild;3-moderate;4-marked)