

Experiment Number: 05131-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: SODIUM FLUORIDE

Date Report Requested: 10/19/2014
Time Report Requested: 03:23:57
First Dose M/F: NA / NA
Lab: NIEHS

C Number:	C55221C
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Male
PWG Approval Date	10/15/1997

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First Dose M/F: NA / NA

Lab: NIEHS

F 344/N Rat Male VEHICLE CONTROL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	
	ANIMAL ID	6	1	1	1	3	3	3	6	6	6	9	9	9	9	9	9	9	9	9	1	2	2	3	3	3	3	3	3	3	
	5	1	1	1	9	9	9	7	7	7	5	5	5	5	5	5	5	6	7	7	0	3	6	3	6	6	6	6	6	7	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	0	1	2	1	1	1	0	0	0	0	1	2	1	0	1	1	1	1	0	0	0	0	2	0	0	0	
	6	0	7	8	6	9	1	0	5	7	0	4	7	7	9	5	0	0	8	3	4	5	4	3	1	6	8	1	0	2	4
	7	7	5	9	0	0	6	9	7	9	4	7	0	1	4	5	6	0	7	4	2	3	6	9	8	4	7	8	9	9	

Alimentary System

Oral Mucosa																															
Squamous Cell Carcinoma																															
Tooth, Incisor	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Tooth, Molar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Bone Marrow																														

Integumentary System

NONE

Musculoskeletal System

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

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First Dose M/F: NA / NA
Lab: NIEHS

F 344/N Rat Male
VEHICLE CONTROL

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	
	6	1	1	1	3	3	3	6	6	6	9	9	9	9	9	9	9	9	9	1	2	2	3	3	3	3	3	3	3	3	3	
	5	1	1	1	9	9	9	7	7	7	5	5	5	5	5	5	5	6	7	7	0	3	6	3	6	6	6	6	6	7	7	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	0	1	2	1	1	1	0	0	0	0	1	2	1	0	1	1	1	1	0	0	0	0	2	0	0	0	0	
	6	0	7	8	6	9	1	0	5	7	0	4	7	7	9	5	0	0	8	3	4	5	4	3	1	6	8	1	0	2	4	
	7	7	5	9	0	0	6	9	7	9	4	7	0	1	4	5	6	0	7	4	2	3	6	9	8	4	7	8	9	9		

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Leukemia Mononuclear					X							X	X				X				X	X		X											
Lymphoma Malignant							X																												

* ..Total animals with tissue examined microscopically; Total animals with tumor
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X ..Lesion present
I ..Insufficient tissue

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 Lab: NIEHS

F 344/N Rat Male
VEHICLE CONTROL

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	7	7	7	7	7	7	7	7	7	7	7	7	7	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	1	1	1	1	1	1	1	1	1	1	2	0	0	0	0	1	1
	9	0	3	4	4	4	4	6	7	8	9	9	0	2	3	5	5	2	8
	9	2	2	6	7	8	9	3	1	6	1	8	2	1	4	2	5	2	2
	*TOTALS																		

Alimentary System

Oral Mucosa	+																			7
Squamous Cell Carcinoma	X									X										5
Tooth, Incisor	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	47
Tooth, Molar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Bone Marrow

9

Integumentary System

NONE

Musculoskeletal System

* ..Total animals with tissue examined microscopically; Total animals with tumor

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Lab: NIEHS

F 344/N Rat Male VEHICLE CONTROL	DAY ON TEST																				*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	9	9	9	9	9	9	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	0	0	0	0	1	1	
9	0	3	4	4	4	4	6	7	8	9	9	0	2	3	5	5	2	2	8	8	
9	2	2	6	7	8	9	3	1	6	1	8	2	1	4	2	5	2	2	2	2	
Bone, Cranium																				1	
Squamous Cell Carcinoma																				1	
Bone, Femur				+	+		+	+	+	+	+		+	+	+				+	28	
Bone, Humerus					+			+	+		+		+	+					+	21	
Bone, Intervertebral Disc															+					4	
Bone, Joint				+			+	+	+		+		+	+					+	23	
Bone, Mandible											+									1	
Osteosarcoma											X									1	
Bone, Maxilla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49	
Sarcoma																				1	
Squamous Cell Carcinoma	X									X					X					5	
Bone, Pelvis																				1	
Osteosarcoma																				1	
Bone, Tibia				+	+	+	+	+	+		+		+	+			+		+	28	
Bone, Vertebra									+				+	+					+	14	

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

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Date Report Requested: 10/19/2014

Test Type: CHRONIC

Test Compound: SODIUM FLUORIDE

Time Report Requested: 03:23:58

Route: DOSED WATER

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NIEHS

F 344/N Rat Male
VEHICLE CONTROL

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	7	7	7	7	7	7	7	7	7	7	7	7	9	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	1	1	1	1	1	1	1	1	1	1	2	0	0	0	0	1	1
	9	0	3	4	4	4	4	6	7	8	9	9	0	2	3	5	5	2	8
	9	2	2	6	7	8	9	3	1	6	1	8	2	1	4	2	5	2	2
	*TOTALS																		

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Leukemia Mononuclear																				7
Lymphoma Malignant																				1

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

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Test Compound: SODIUM FLUORIDE

Date Report Requested: 10/19/2014
Time Report Requested: 03:23:58
First Dose M/F: NA / NA
Lab: NIEHS

F 344/N Rat Male
250 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7
	8	8	1	1	3	3	3	6	6	6	9	9	9	9	9	0	1	1	1	2	3	3	3	3	3	3	3	3
ANIMAL ID	3	3	1	1	9	9	9	7	7	7	1	5	5	5	5	4	2	6	6	0	0	2	6	6	6	6	6	6
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	2	0	0	0	1	2	0	1	1	1	0	0	0	2	0	1	0	1	2	0	0	0	0	0	0	0	0
	9	0	3	3	5	5	0	2	1	4	2	0	0	7	2	5	8	5	8	1	1	1	2	3	3	5	5	6
	5	7	5	8	0	0	9	6	3	2	6	1	5	5	2	4	0	9	4	3	4	3	3	3	7	2	3	7

Alimentary System

Oral Mucosa																												
Squamous Cell Carcinoma																												
Tooth, Incisor	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tooth, Molar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

Tissue NOS
Osteosarcoma

Genital System

NONE

Hematopoietic System

Bone Marrow																											
Femur, Sarcoma, Metastatic, Uncertain Primary Site																											
Humerus, Sarcoma, Metastatic, Uncertain Primary Site																											

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
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Date Report Requested: 10/19/2014

Test Type: CHRONIC

Test Compound: SODIUM FLUORIDE

Time Report Requested: 03:23:58

Route: DOSED WATER

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NIEHS

F 344/N Rat Male
250 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	8	8	1	1	3	3	3	6	6	6	9	9	9	9	9	0	1	1	1	2	3	3	3	3	3	3	3	3	3
	3	3	1	1	9	9	9	7	7	7	1	5	5	5	5	4	2	6	6	0	0	2	6	6	6	6	6	6	6
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	2	0	0	0	1	2	0	1	1	1	0	0	0	2	0	1	0	1	2	0	0	0	0	0	0	0	0	0
	9	0	3	3	5	5	0	2	1	4	2	0	0	7	2	5	8	5	8	1	1	9	0	1	1	2	3	3	5
	5	7	5	8	0	0	9	6	3	2	6	1	5	5	2	4	0	9	4	3	4	3	3	3	7	5	2	3	1

Integumentary System

NONE

Musculoskeletal System

Bone, Cranium

Bone, Femur

Bone, Humerus

Bone, Joint

Bone, Maxilla

Squamous Cell Carcinoma

Bone, Rib

Sarcoma, Metastatic, Uncertain Primary Site

Bone, Tibia

Bone, Vertebra

Sarcoma, Metastatic, Uncertain Primary Site

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

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F 344/N Rat Male
250 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	6	6	6	6	6	6	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	8	8	1	1	3	3	3	6	6	6	9	9	9	9	9	0	1	1	1	2	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	3	3	1	1	9	9	9	7	7	7	1	5	5	5	5	4	2	6	6	0	0	2	6	6	6	6	6	6	6	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	2	0	0	0	1	2	0	1	1	1	0	0	0	2	0	1	0	1	2	0	0	0	0	0	0	0	0	0	0
	9	0	3	3	5	5	0	2	1	4	2	0	0	7	2	5	8	5	8	1	1	1	2	3	3	5	5	6	6	
	5	7	5	8	0	0	9	6	3	2	6	1	5	5	2	4	0	9	4	3	4	3	3	3	7	5	2	3	1	7

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Leukemia Mononuclear														X																				

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Lab: NIEHS

F 344/N Rat Male
250 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	0	0
	7	7	8	9	1	2	5	6	6	7	8	9	9	0	0	1	2	2	8
	8	9	3	2	4	3	4	5	6	2	8	4	7	3	8	9	1	3	8
	*TOTALS																		

Alimentary System

Oral Mucosa																				5
Squamous Cell Carcinoma																				5
Tooth, Incisor	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Tooth, Molar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

Tissue NOS																				1
Osteosarcoma																				1

Genital System

NONE

Hematopoietic System

Bone Marrow																				2
Femur, Sarcoma, Metastatic, Uncertain Primary Site																				1
Humerus, Sarcoma, Metastatic, Uncertain Primary Site																				1

* ..Total animals with tissue examined microscopically; Total animals with tumor

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First Dose M/F: NA / NA
Lab: NIEHS

F 344/N Rat Male
250 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	0
	7	7	8	9	1	2	5	6	6	7	8	9	9	0	0	1	2	2	8
	8	9	3	2	4	3	4	5	6	2	8	4	7	3	8	9	1	3	8
	*TOTALS																		

Integumentary System

NONE

Musculoskeletal System

Bone, Cranium							+													1
Bone, Femur								+		+			+						+	19
Bone, Humerus					+			+						+						13
Bone, Joint										+									+	16
Bone, Maxilla		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Squamous Cell Carcinoma														X		X				5
Bone, Rib																				2
Sarcoma, Metastatic, Uncertain Primary Site																				1
Bone, Tibia									+										+	17
Bone, Vertebra									+				+							15
Sarcoma, Metastatic, Uncertain Primary Site																				1

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05131-03

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/19/2014

Test Type: CHRONIC

Test Compound: SODIUM FLUORIDE

Time Report Requested: 03:23:58

Route: DOSED WATER

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NIEHS

F 344/N Rat Male
250 PPM

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	0	0
	7	7	8	9	1	2	5	6	7	8	9	9	0	0	1	2	2	2	8
	8	9	3	2	4	3	4	5	6	2	8	4	7	3	8	9	1	2	3
	*TOTALS																		

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Leukemia Mononuclear																				1

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue

M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05131-03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
 Test Compound: SODIUM FLUORIDE

Date Report Requested: 10/19/2014
 Time Report Requested: 03:23:58
 First Dose M/F: NA / NA
 Lab: NIEHS

	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F 344/N Rat Male IRRAD WATER		5	5	5	5	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
		2	5	6	6	8	8	8	8	1	1	3	6	6	6	9	0	0	0	1	2	3	3	3	3	3	3	3	3	3	3	3	3	
	ANIMAL ID	7	5	5	5	3	3	3	3	1	1	9	7	7	7	5	2	2	5	1	3	6	6	6	6	8	8	8	8	8	9	9	9	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		1	0	0	1	0	1	1	1	2	2	0	1	2	1	1	1	0	0	0	1	1	2	0	0	0	1	0	0	0	0	0		
		7	5	1	3	9	1	4	6	3	0	1	4	9	2	1	0	8	4	9	4	2	5	1	2	4	9	1	1	2	3	3		
		3	6	6	0	7	1	1	9	4	5	5	4	9	5	9	0	3	6	6	1	0	3	0	2	2	8	2	2	0	7	9		

Alimentary System

Oral Mucosa																																		
Squamous Cell Carcinoma																																		
Tooth, Incisor	+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Tooth, Molar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	

Cardiovascular System

NONE																																		
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Endocrine System

NONE																																		
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Body System

NONE																																		
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Genital System

NONE																																		
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Hematopoietic System

Bone Marrow																																		
-------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Integumentary System

NONE																																		
------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Musculoskeletal System

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05131-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: SODIUM FLUORIDE

Date Report Requested: 10/19/2014

Time Report Requested: 03:23:59

First Dose M/F: NA / NA

Lab: NIEHS

**F 344/N Rat Male
IRRAD WATER**

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2
	6	6	8	9	0	0	2	3	4	5	6	6	7	7	1	1	2	2
	1	4	5	0	3	5	9	3	0	6	0	2	8	4	4	8	3	4
	*TOTALS																	

Alimentary System

Oral Mucosa																			+	4
Squamous Cell Carcinoma																			X	2
Tooth, Incisor	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		48
Tooth, Molar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		49

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

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

Integumentary System

NONE

Musculoskeletal System

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05131-03

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/19/2014

Test Type: CHRONIC

Test Compound: SODIUM FLUORIDE

Time Report Requested: 03:23:59

Route: DOSED WATER

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NIEHS

F 344/N Rat Male
IRRAD WATER

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2
	6	6	8	9	0	0	2	3	4	5	6	6	6	7	1	1	2	2
	1	4	5	0	3	5	9	3	0	6	0	2	8	4	4	8	3	4
	*TOTALS																	

Bone, Cranium																			1
Bone, Femur	+	+	+	+	+		+						+						19
Bone, Humerus			+		+	+								+					16
Bone, Intervertebral Disc			+							+					+				7
Bone, Joint			+	+	+	+								+				+	17
Sarcoma, Metastatic, Uncertain Primary Site																			1
Bone, Maxilla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	48
Squamous Cell Carcinoma																			1
Bone, Pelvis				+															1
Bone, Rib							+												1
Bone, Scapula								+									+		2
Bone, Tarsal																			1
Bone, Tibia		+	+	+	+							+	+			+			19
Bone, Vertebra		+	+	+				+					+	+					18

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 05131-03
 Test Type: CHRONIC
 Route: DOSED WATER
 Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: SODIUM FLUORIDE

Date Report Requested: 10/19/2014
 Time Report Requested: 03:23:59
 First Dose M/F: NA / NA
 Lab: NIEHS

F 344/N Rat Male
IRRAD WATER

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2
	6	6	8	9	0	0	2	3	4	5	6	6	7	1	1	2	2	2
	1	4	5	0	3	5	9	3	0	6	0	2	8	4	4	8	3	4
	*TOTALS																	

Urinary System

NONE

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	49
Leukemia Mononuclear													X						3

* ..Total animals with tissue examined microscopically; Total animals with tumor
 + ..Tissue examined microscopically
 X ..Lesion present
 I ..Insufficient tissue

M ..Missing tissue
 A ..Autolysis precludes evaluation
 BLANK ..Not examined microscopically

Experiment Number: 05131-03

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/19/2014

Test Type: CHRONIC

Test Compound: SODIUM FLUORIDE

Time Report Requested: 03:23:59

Route: DOSED WATER

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NIEHS

F 344/N Rat Male
250 PPM IRR FL

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	5	5	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
	5	5	5	8	8	8	1	1	3	9	9	9	0	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	5	5	5	3	3	3	1	1	9	5	5	6	9	6	3	3	6	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	1	0	0	1	0	1	1	1	1	1	2	1	2	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0
	0	3	7	0	2	8	0	3	1	1	9	6	0	7	1	6	1	7	8	0	2	1	0	1	1	1	3	4	5	6	6	6
	2	6	6	9	4	7	6	1	5	0	6	4	4	8	2	6	0	2	2	4	5	1	7	1	5	8	0	5	3	2	3	3

Alimentary System

Oral Mucosa																																				
Squamous Cell Carcinoma																																				
Tooth																																				
Tooth, Incisor	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Tooth, Molar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex +

General Body System

NONE

Genital System

NONE

Hematopoietic System

Bone Marrow + A

Integumentary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor

M ..Missing tissue

+ ..Tissue examined microscopically

A ..Autolysis precludes evaluation

X ..Lesion present

BLANK ..Not examined microscopically

I ..Insufficient tissue

Experiment Number: 05131-03

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/19/2014

Test Type: CHRONIC

Test Compound: SODIUM FLUORIDE

Time Report Requested: 03:23:59

Route: DOSED WATER

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NIEHS

F 344/N Rat Male 250 PPM IRR FL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		5	5	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
	ANIMAL ID	5	5	5	8	8	3	3	3	1	1	3	9	9	9	0	1	2	3	3	3	3	3	3	3	3	3	3	3		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	0	1	1	0	0	1	0	1	1	1	1	1	2	1	2	0	0	0	0	1	1	2	0	0	0	0	0	0	0		
	0	3	7	0	2	8	0	3	1	1	9	6	0	7	1	6	1	7	8	0	2	1	0	1	1	1	3	4	5	6	6
	2	6	6	9	4	7	6	1	5	0	6	4	4	8	2	6	0	2	2	4	5	1	7	1	5	8	0	5	3	2	3

Musculoskeletal System

Bone, Femur	+			+					+	+	+			+	+	+			+	+										+	
Bone, Humerus	+			+					+		+				+		+	+												+	
Bone, Joint	+			+					+	+	+			+	+	+		+												+	
Bone, Mandible																															
Osteosarcoma																															
Bone, Maxilla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Squamous Cell Carcinoma				X							X																				
Bone, Radius																															+
Bone, Rib																															
Bone, Tibia	+			+					+	+	+			+	+	+			+	+			+							+	
Bone, Vertebra	+			+			+		+		+				+		+	+													+

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with tumor

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

Experiment Number: 05131-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)
Test Compound: SODIUM FLUORIDE

Date Report Requested: 10/19/2014
Time Report Requested: 03:24:00
First Dose M/F: NA / NA
Lab: NIEHS

F 344/N Rat Male
250 PPM IRR FL

DAY ON TEST																																			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5	5	5	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
ANIMAL ID	5	5	5	8	8	8	1	1	3	9	9	9	0	1	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	5	5	5	3	3	3	1	1	9	5	5	6	9	6	3	3	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	1	1	0	0	1	0	1	1	1	1	1	2	1	2	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0
0	3	7	0	2	8	0	3	1	1	9	6	0	7	1	6	1	7	8	0	2	1	0	1	1	1	3	4	5	5	6	6	6	6	6	
2	6	6	9	4	7	6	1	5	0	6	4	4	8	2	6	0	2	2	4	5	1	7	1	5	8	0	5	3	2	3	3	3	3	3	

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Histiocytic Sarcoma																																					

* ..Total animals with tissue examined microscopically; Total animals with tumor
+ ..Tissue examined microscopically
X ..Lesion present
I ..Insufficient tissue
M ..Missing tissue
A ..Autolysis precludes evaluation
BLANK ..Not examined microscopically

Experiment Number: 05131-03

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Date Report Requested: 10/19/2014

Test Type: CHRONIC

Test Compound: SODIUM FLUORIDE

Time Report Requested: 03:24:00

Route: DOSED WATER

First Dose M/F: NA / NA

Species/Strain: Rat/F 344/N

Lab: NIEHS

F 344/N Rat Male
250 PPM IRR FL

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2
	6	7	7	8	9	9	0	0	1	1	2	2	3	5	6	7	8	9	0
	9	3	4	7	1	5	1	8	6	8	1	4	9	8	1	0	1	2	0
	*TOTALS																		

Alimentary System

Oral Mucosa			+			+	+				+								+	8
Squamous Cell Carcinoma							X													3
Tooth																				1
Tooth, Incisor	+	+	+	+	+	+	+	+	+	+	+		+	+	+	+	+	+	+	47
Tooth, Molar	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50

Cardiovascular System

NONE																				
Adrenal Cortex																			+	2

Endocrine System

General Body System

NONE																				
NONE																				

Genital System

NONE																				
NONE																				

Hematopoietic System

Bone Marrow							+	+											+	4
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Integumentary System

NONE																				
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+ ..Tissue examined microscopically

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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2
	6	7	7	8	9	9	0	0	1	1	2	2	3	5	6	7	8	9	0
	9	3	4	7	1	5	1	8	6	8	1	4	9	8	1	0	1	2	0
	*TOTALS																		

Musculoskeletal System

Bone, Femur				+		+	+				+		+		+	+	+		+
Bone, Humerus				+		+							+		+	+			+
Bone, Joint				+							+				+	+	+		+
Bone, Mandible															+				
Osteosarcoma															X				
Bone, Maxilla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Squamous Cell Carcinoma							X												
Bone, Radius																			
Bone, Rib															+				
Bone, Tibia				+						+		+			+	+	+		+
Bone, Vertebra				+		+								+		+			+

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	2
	6	7	7	8	9	9	0	0	1	1	2	2	3	5	6	7	8	9	0
	9	3	4	7	1	5	1	8	6	8	1	4	9	8	1	0	1	2	0
	*TOTALS																		

SYSTEMIC LESIONS

Multiple Organ	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	50
Histiocytic Sarcoma													X							1

END OF MALE DATA

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