

Statistical Report

Project #: E2190.01
Project Title: Two Year Chronic Toxicology Study of Bisphenol A (BPA) [CAS # 80-05-7]
Administered by Gavage to Sprague-Dawley Rats (NCTR) from Gestational Day 6 Until Birth and Directly to F1 Pups from Postnatal Day 1 (PND 1); Continuous and Stop Dose (PND 21) Exposures
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Task: Statistical Analysis of Neoplastic and Non-neoplastic Lesions (Interim Sacrifice)
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Statistical Analysis of Neoplastic and Non-neoplastic Lesions (Interim Sacrifice)

1. Objectives

1.1 Project Objectives

The goal of this study is to study the long term toxicity of orally administered Bisphenol-A (BPA) over a broad dose range.

1.2 Analysis Objectives

The objective of this analysis is to determine the effects on histopathology of a broad range of continuous and stop doses of BPA after one year. Statistical analyses of data from continuous doses of the reference estrogen EE₂ are also presented.

2. Experimental Design

The study design consisted of first generation female and male rats (F₀) for up to 600 mating pairs randomized to treatment groups in 5 litters. The goal of the F₀ matings was to obtain 352 study litters, 50 per dose group for vehicle controls and five BPA dose groups, 2.5, 25, 250, 2500, and 25000 µg/kg bw/day, and 26 for each of two EE₂ dose groups, 0.05 and 0.5 µg/kg bw/day. Dams were dosed daily from gestation day (GD) 6 until parturition. Dosing was by gavage for F₀ dams and F₁ pups, the second study generation. Litters were culled to 10 pups on PND 1. There were two study dosing arms of F₁ animals, daily continuous dosing to termination, and daily dose stopped at post-natal day (PND) 21. There was a vehicle control group and five BPA groups (2.5, 25, 250, 2500, and 25000 µg/kg) for each study dosing arm, and EE₂ daily dose groups (0.05 and 0.50 µg/kg) for the continuous dosing arm only. From the F₁ litters, pups were allocated at weaning, PND 21, to the interim (1 year) and terminal (2 year) sacrifices for the core study. For vehicle and BPA terminal sacrifice groups, there were 50 pups each; for the interim sacrifice and the EE₂ terminal sacrifice groups, there were 20-26 pups each. Pups within litter and sex were assigned to different dosing arms and sacrifice times.

3. Statistical Methods

Statistical analyses were performed separately for the BPA study arms, stop dose and continuous dose, and for the EE₂ continuous dose.

For neoplasm and non-neoplasm incidence, the Cochran-Armitage test was used to test for linear dose trend, with Fisher's exact test to compare dosed groups to the vehicle control. This combination of tests is referred to as CAFE.

In addition, non-neoplastic lesion severity is available for many of the lesions found. Therefore, the Jonckheere-Terpstra test (Jonckheere (1954) and Terpstra (1952)) was run to test for monotonic dose trend, followed by Shirley's test (Shirley, 1977 and Williams, 1986) to compare treated groups to controls. This combination of tests will be referred to as JT/SW. JT/SW presumes a monotonic dose response. Part of the purpose of this study is to consider potential

low-dose effects, especially in the low BPA analysis. JT/SW is blind to this effect. Therefore, the nonparametric relative effects method [RTE] (Brunner, Domhof, Langer, 2002) was used to test for non-monotonic effects. This method can account for severity and does allow for trend tests and contrasts. The RTE test (as well as JT/SW) can be very sensitive to small differences in severity.

Lesions with an incidence of two or more in any treatment group were included in each analysis. The tests for the comparisons to vehicle are one-sided while the trend tests are two-sided. No adjustments are made for multiplicity.

For analysis of each endpoint, a sensitivity analysis was also performed. During initial preweaning of animals, 134 core study 1 year interim sacrifice animals (22 in vehicle control, 84 in BPA 2.5, 25, 250, 2500, and 25000 $\mu\text{g}/\text{kg}$ bw/day, and 28 in EE₂ $\mu\text{g}/\text{kg}$ bw/day dose groups) were held in the same rooms as a special BPA 250,000 $\mu\text{g}/\text{kg}$ bw/day high dose requested by an academic laboratory. In consultation with the Principal Investigator, to address the possibility of inadvertent exposure of the core study animals, a sensitivity analysis excluding these 134 animals was also performed to test the robustness of the results. Additional statistically significant pairwise comparisons from the sensitivity analysis are reported in the text.

4. Results

Tables are included in Appendix A1. Generally, simple incidence refers to all animals for which the given tissue was microscopically examined, terminal incidence refers to animals which survived to scheduled sacrifice, time-to-first indicates the number of study days of the earliest observance of the lesion, and severity profile summarizes the number of animals with minimal, mild, moderate, and marked lesion severity.

For females, there were 195 lesions assessed in 21 tissues examined. For males, 169 lesions were assessed in 23 tissues examined.

The results of CAFE analysis of lesion incidence and RTE analysis are discussed below. Results of JT/SW are presented in the tables for reference, but are not discussed.

4.1 BPA Treatments Stop Dose Arm

Results of the CAFE analysis of neoplasms for the comparison of BPA to vehicle control for the stop dose arm are given in Tables 1 (females) and 2 (males). There was no statistically different incidence of neoplasms for any BPA group for either females or males.

Results of the analysis of non-neoplasms for the comparison of BPA to vehicle control for the stop-dose arm are given in Tables 7 (females) and 8 (males). For females, there was a significantly greater incidence of liver mononuclear cell infiltration for the 2.5 $\mu\text{g}/\text{kg}$ BPA group ($p=0.012$) and the 25,000 $\mu\text{g}/\text{kg}$ BPA group ($p=0.048$) compared to the vehicle control group. There was a significantly greater incidence of ovary follicle cysts in the 25,000 $\mu\text{g}/\text{kg}$ BPA group ($p<0.001$) compared to controls. In addition, the RTE test for differences in severity was

significant for adrenal cortex cystic degeneration at 250 µg/kg ($p=0.037$), pituitary gland angiectasis at 2.5 µg/kg ($p=0.015$), thyroid gland hyperplasia c-cell at 2.5 µg/kg ($p=0.024$), uterus lumen dilation at 250 µg/kg ($p=0.045$), uterus endometrium cystic hyperplasia at 25,000 µg/kg ($p=0.030$), uterus squamous metaplasia at 25,000 µg/kg ($p=0.005$), and thymus atrophy at 25 µg/kg ($p=0.024$).

For males, there was a significantly greater incidence of spleen pigmentation for the 250 µg/kg BPA group ($p=0.012$). The RTE test for differences in severity was significant for heart cardiomyopathy at 2.5 µg/kg ($p=0.027$) and 25 µg/kg ($p=0.006$), epididymis exfoliated germ cell at 2.5 µg/kg ($p=0.034$), and bone marrow myeloid cell hyperplasia at 25 µg/kg ($p=0.020$).

4.2 BPA Treatments Continuous Dose Arm

Results of the CAFE analysis of neoplasms for the comparison of BPA to vehicle control for the continuous dose arm are given in Tables 3 (females) and 4 (males). There was no statistically different incidence of neoplasms for any BPA group for either females or males. There was a significant dose trend for uterus stromal polyp for females ($p=0.037$).

Results of the analysis of non-neoplasms for the comparison of BPA to vehicle control for the continuous dose arm are given in Tables 9 (females) and 10 (males). For females, there was a significantly greater incidence of uterus apoptosis for the 25,000 µg/kg BPA group ($p=0.022$) compared to the vehicle control group. There was a significantly greater incidence of kidney renal tubule cysts in the 2.5 µg/kg BPA group ($p=0.004$) compared to controls. There was an additional dose trend for ovary corpus luteum cysts ($p=0.047$), ovary corpus luteum depletion ($p=0.032$), ovary interstitial cell hypertrophy ($p=0.030$), uterus estrus ($p=0.014$), uterus squamous metaplasia ($p=0.037$), vagina estrus ($p=0.003$), vagina epithelium hyperplasia ($p=0.008$), and kidney mineralization ($p=0.017$). In addition, the RTE test for differences in severity was significant for pancreas cellular lymphocyte infiltration at 2.5 µg/kg ($p=0.007$), uterus endometrium hyperplasia at 2.5 µg/kg ($p=0.042$) and 250 µg/kg ($p=0.049$), vagina epithelium hyperplasia at 25,000 µg/kg ($p=0.030$), mammary gland atypical focus at 2.5 µg/kg ($p=0.017$), mammary gland dilatation duct at 25 µg/kg ($p=0.010$), kidney mineralization at 25,000 µg/kg ($p=0.025$), and kidney nephropathy at 25 µg/kg ($p=0.036$) and at 2500 µg/kg ($p=0.048$).

For males, there was a significantly greater incidence of liver hepatodiaphragmatic nodule for the 2500 µg/kg BPA group ($p=0.038$), and of liver mononuclear cell infiltration for the 250 µg/kg BPA group ($p=0.029$) and the 2500 µg/kg BPA group ($p=0.023$) compared to the vehicle control group. There was a significantly greater incidence of epididymis exfoliated germ cells ($p=0.047$) and epididymis cellular lymphocyte infiltration ($p=0.024$) in the 25,000 µg/kg BPA group compared to controls. There was an additional dose trend for kidney mineralization ($p=0.017$) and for spleen hematopoietic cell proliferation ($p=0.028$). In addition, the RTE test for differences in severity was significant for liver fatty change at 25 µg/kg ($p=0.012$), liver mononuclear cell infiltration for the 2.5 µg/kg group ($p=0.034$), adrenal cortex cytoplasmic vacuolization at 2.5 µg/kg ($p=0.031$), dorsal/lateral lobe prostate cellular lymphocyte infiltration at 2.5 µg/kg ($p=0.025$), dorsal/lateral lobe prostate suppurative inflammation at 2.5 µg/kg

($p=0.025$), 250 $\mu\text{g}/\text{kg}$ ($p=0.048$), and 2500 $\mu\text{g}/\text{kg}$ ($p=0.022$), and spleen hematopoietic cell proliferation at 25,000 $\mu\text{g}/\text{kg}$ ($p=0.013$). There was a significant severity trend, based on the RTE test, for liver cytoplasmic vacuolization ($p=0.046$).

4.3 EE₂ Treatments Continuous Dose Arm

Results of the CAFE analysis of neoplasms for the comparison of EE₂ to vehicle control for the continuous dose arm are given in Tables 5 (females) and 6 (males). There was no statistically different incidence of neoplasms for any EE₂ group for either females or males.

Results of the analysis of non-neoplasms for the comparison of EE₂ to vehicle control for the continuous dose arm are given in Tables 11 (females) and 12 (males). For females, based on the CAFE tests, there was a significantly greater incidence of heart cardiomyopathy ($p=0.015$), ovary atrophy ($p<0.001$), ovary follicle cyst ($p<0.001$), ovary corpus luteum depletion ($p<0.001$), ovary interstitial cell hypertrophy ($p<0.001$), uterus apoptosis ($p<0.001$), uterus estrus ($p<0.001$), uterus cystic endometrium hyperplasia ($p=0.021$), uterus squamous metaplasia ($p<0.001$), vagina estrus ($p<0.001$), vagina epithelium hyperplasia ($p<0.001$), mammary gland duct dilation ($p<0.001$), mammary gland lobular hyperplasia ($p<0.001$), and kidney nephropathy ($p=0.025$) for the 0.5 $\mu\text{g}/\text{kg}$ EE₂ group compared to the vehicle control group. There was a significantly greater incidence of kidney renal tubule cysts in the 0.05 $\mu\text{g}/\text{kg}$ EE₂ group ($p=0.034$) compared to controls. There was a significant dose trend for pituitary gland angiectasis at ($p=0.034$), for ovary bursa cyst ($pp=0.027$), for ovary follicle cyst ($p<0.001$), for vagina epithelium mucification ($p=0.048$), and for mammary gland galactocele ($p=0.012$). In addition, the RTE test for differences in severity was significant for pituitary gland angiectasis at 0.5 $\mu\text{g}/\text{kg}$ ($p=0.025$), pituitary gland pars distalis hyperplasia at 0.5 $\mu\text{g}/\text{kg}$ ($p=0.003$), vagina epithelium mucification at 0.5 $\mu\text{g}/\text{kg}$ ($p=0.027$), spleen pigmentation at 0.5 $\mu\text{g}/\text{kg}$ ($p=0.001$), and kidney mineralization at 0.05 $\mu\text{g}/\text{kg}$ ($p=0.030$).

For males, there was a significantly greater incidence of liver mononuclear cell infiltration for the 0.05 $\mu\text{g}/\text{kg}$ EE₂ group ($p=0.049$) compared to the vehicle control group. There was an additional dose trend for liver fatty change ($p=0.028$). In addition, the RTE test for differences in severity was significant for liver fatty change at 0.5 $\mu\text{g}/\text{kg}$ ($p=0.019$) and epididymis cellular lymphocyte infiltration at 0.5 $\mu\text{g}/\text{kg}$ ($p=0.044$).

4.4 Sensitivity Analysis

The results of the sensitivity analysis, excluding animals housed in the same room as animals exposed to BPA 250,000 $\mu\text{g}/\text{kg}$ bw/day high dose, produced results highly similar to the full analysis. There were a few significant results observed in the full analysis which were not observed in the sensitivity analysis, presumably due to the lesser statistical power of the data subset. There were two significant (CAFE) lesion incidence results in the sensitivity analysis which were not observed in the full analysis. A significant ($p=0.048$) difference in uterus squamous metaplasia for continuous dose females in the 25,000 $\mu\text{g}/\text{kg}$ BPA group (5/20) compared to controls (0/15) based on CAFE; a nonsignificant difference for the full analysis where five of 24 animals had the lesion in the BPA group compared to one of 23 in the control

group. A significant ($p=0.025$) difference in dorsal/lateral lobe prostate cellular lymphocyte infiltration (9/16) for continuous dose males in the 2.5 $\mu\text{g}/\text{kg}$ BPA group compared to controls (3/17) based on CAFE; a nonsignificant difference for the full analysis where ten of 22 animals had the lesion in the BPA group compared to four of 22 for the control group.

5. Conclusions

There was no neoplasm incidence that was significantly greater than control for any stop-dose BPA, continuous dose BPA, or continuous dose EE₂ group for either females or males. There was a significant dose trend for uterus stromal polyp for females ($p=0.037$). The incidence for the control group was 1/23 (4.3%) compared to 3/20 (15.0%) for the 2500 $\mu\text{g}/\text{kg}$ BPA group and 3/24 (12.5%) for the 25,000 $\mu\text{g}/\text{kg}$ BPA group.

For stop dose females, there was a significantly greater incidence of liver mononuclear cell infiltration for the 2.5 $\mu\text{g}/\text{kg}$ BPA group ($p=0.012$) and the 25,000 $\mu\text{g}/\text{kg}$ BPA group ($p=0.048$) compared to the vehicle control group. There was a significantly greater incidence of ovary follicle cysts in the 25,000 $\mu\text{g}/\text{kg}$ BPA group ($p<0.001$) compared to controls. For continuous dose females, there was a significantly greater incidence of uterus apoptosis for the 25,000 $\mu\text{g}/\text{kg}$ BPA group ($p=0.022$) compared to the vehicle control group. There was a significantly greater incidence of kidney renal tubule cysts in the 2.5 $\mu\text{g}/\text{kg}$ BPA group ($p=0.004$) compared to controls.

For stop dose males, there was a significantly greater incidence of spleen pigmentation for the 250 $\mu\text{g}/\text{kg}$ BPA group. For continuous dose males, there was a significantly greater incidence of liver mononuclear cell infiltration for the 250 $\mu\text{g}/\text{kg}$ BPA group ($p=0.029$) and the 2500 $\mu\text{g}/\text{kg}$ BPA group ($p=0.023$) compared to the vehicle control group. There was a significantly greater incidence of epididymis exfoliated germ cells ($p=0.047$) and epididymis cellular lymphocyte infiltration ($p=0.024$) in the 25,000 $\mu\text{g}/\text{kg}$ BPA group compared to controls.

For continuous dose EE₂ treated females, there were several non-neoplastic lesions of the ovary, uterus, and vagina with highly significant, greater incidence in the 0.5 $\mu\text{g}/\text{kg}$ EE₂ group compared to the vehicle control group. These include ovary atrophy ($p<0.001$), ovary follicle cyst ($p<0.001$), ovary corpus luteum depletion ($p<0.001$), ovary interstitial cell hypertrophy ($p<0.001$), uterus apoptosis ($p<0.001$), uterus estrus ($p<0.001$), uterus cystic endometrium hyperplasia ($p=0.021$), uterus squamous metaplasia ($p<0.001$), vagina estrus ($p<0.001$), vagina epithelium hyperplasia ($p<0.001$). Ovary atrophy, ovary follicle cyst ($p<0.001$), ovary corpus luteum depletion ($p<0.001$), and ovary interstitial cell hypertrophy ($p<0.001$) have 100% incidence in the 0.5 $\mu\text{g}/\text{kg}$ EE₂. Other lesions with significantly greater incidence for the 0.5 $\mu\text{g}/\text{kg}$ EE₂ group were heart cardiomyopathy ($p=0.015$), mammary gland duct dilation ($p<0.001$), mammary gland lobular hyperplasia ($p<0.001$), and kidney nephropathy ($p=0.025$). Spleen pigmentation showed what could be interpreted as a significantly ($p<0.001$) greater severity for the 0.5 $\mu\text{g}/\text{kg}$ EE₂ group.

For males, there was a significantly greater incidence of liver mononuclear cell infiltration for the 0.05 $\mu\text{g}/\text{kg}$ EE₂ group ($p=0.049$) compared to the vehicle control group.

References

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Appendices

A1 Statistical Tables

Table 1. Neoplasms by Body System for Interim Sacrifice Females Bisphenol-A Stop Dose Arm

<i>System and Neoplasm</i>	<i>Statistic</i>	<i>Control</i>	<i>Treatment (ug/kg)</i>				
			<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
Integumentary System							
Mammary Gland * Adenocarcinoma or Fibroadenoma	Simple Incidence	4/20 (20.0%)	1/22 (4.5%)	1/20 (5.0%)	1/22 (4.5%)	1/20 (5.0%)	2/22 (9.1%)
	Terminal Incidence	4/20 (20.0%)	1/22 (4.5%)	1/20 (5.0%)	1/22 (4.5%)	1/20 (5.0%)	2/20 (10.0%)
	Time-to-First	363 (T)	365 (T)	365 (T)	363 (T)	364 (T)	363 (T)
	CAFE P-Value	0.184N	0.144N	0.171N	0.144N	0.171N	0.286N
Mammary Gland * Fibroadenoma	Simple Incidence	4/20 (20.0%)	1/22 (4.5%)	1/20 (5.0%)	1/22 (4.5%)	1/20 (5.0%)	2/22 (9.1%)
	Terminal Incidence	4/20 (20.0%)	1/22 (4.5%)	1/20 (5.0%)	1/22 (4.5%)	1/20 (5.0%)	2/20 (10.0%)
	Time-to-First	363 (T)	365 (T)	365 (T)	363 (T)	364 (T)	363 (T)
	CAFE P-Value	0.184N	0.144N	0.171N	0.144N	0.171N	0.286N

P-values for dose trend are presented in the "Control" column.

N indicates a negative trend or negative treatment comparison to control with corresponding lower-tail p-values.

Table 2. Neoplasms by Body System for Interim Sacrifice Males Bisphenol-A Stop Dose Arm

<i>System and Neoplasm</i>	<i>Statistic</i>	<i>Control</i>	<i>Treatment (ug/kg)</i>				
			<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
none							

P-values for dose trend are presented in the "Control" column.

N indicates a negative trend or negative treatment comparison to control with corresponding lower-tail p-values.

Table 3. Neoplasms by Body System for Interim Sacrifice Females Bisphenol-A Continuous Dose Arm

<i>System and Neoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
Genital System							
Uterus * Polyp Stromal	Simple Incidence	1/23 (4.3%)	0/22 (0.0%)	1/21 (4.8%)	0/24 (0.0%)	3/20 (15.0%)	3/24 (12.5%)
	Terminal Incidence	1/21 (4.8%)	0/22 (0.0%)	1/21 (4.8%)	0/22 (0.0%)	3/20 (15.0%)	3/24 (12.5%)
	Time-to-First	362 (T)	----	360 (T)	----	362 (T)	362 (T)
	CAFE P-Value	0.037 *	0.511N	0.733	0.489N	0.252	0.321
Integumentary System							
Mammary Gland * Adenocarcinoma or Fibroadenoma	Simple Incidence	2/23 (8.7%)	4/22 (18.2%)	4/22 (18.2%)	1/24 (4.2%)	2/20 (10.0%)	6/24 (25.0%)
	Terminal Incidence	2/21 (9.5%)	4/22 (18.2%)	3/21 (14.3%)	0/22 (0.0%)	2/20 (10.0%)	6/24 (25.0%)
	Time-to-First	361 (T)	356 (T)	311	256	362 (T)	362 (T)
	CAFE P-Value	0.241	0.311	0.311	0.484N	0.641	0.136
Mammary Gland * Fibroadenoma	Simple Incidence	2/23 (8.7%)	3/22 (13.6%)	3/22 (13.6%)	1/24 (4.2%)	2/20 (10.0%)	6/24 (25.0%)
	Terminal Incidence	2/21 (9.5%)	3/22 (13.6%)	2/21 (9.5%)	0/22 (0.0%)	2/20 (10.0%)	6/24 (25.0%)
	Time-to-First	361 (T)	356 (T)	311	256	362 (T)	362 (T)
	CAFE P-Value	0.150	0.478	0.478	0.484N	0.641	0.136

P-values for dose trend are presented in the "Control" column.

N indicates a negative trend or negative treatment comparison to control with corresponding lower-tail p-values.

Table 4. Neoplasms by Body System for Interim Sacrifice Males Bisphenol-A Continuous Dose Arm

<i>System and Neoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
Alimentary System							
Liver * Lymphoma Malignant	Simple Incidence	2/22 (9.1%)	0/22 (0.0%)	0/20 (0.0%)	0/24 (0.0%)	0/19 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/18 (0.0%)	0/24 (0.0%)	0/18 (0.0%)	0/21 (0.0%)
	Time-to-First	282	----	----	----	----	----
	CAFE P-Value	0.028N*	0.244N	0.268N	0.223N	0.282N	0.244N
Pancreas * Lymphoma Malignant	Simple Incidence	2/22 (9.1%)	0/22 (0.0%)	0/20 (0.0%)	0/24 (0.0%)	0/19 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/18 (0.0%)	0/24 (0.0%)	0/18 (0.0%)	0/21 (0.0%)
	Time-to-First	282	----	----	----	----	----
	CAFE P-Value	0.028N*	0.244N	0.268N	0.223N	0.282N	0.244N

Table 4. Neoplasms by Body System for Interim Sacrifice Males Bisphenol-A Continuous Dose Arm

System and Neoplasm		Treatment (ug/kg)					
Lesion	Statistic	Control	2.5	25	250	2500	25000
Cardiovascular System							
Heart * Lymphoma Malignant	Simple Incidence	2/22 (9.1%)	0/22 (0.0%)	0/20 (0.0%)	0/24 (0.0%)	0/20 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/18 (0.0%)	0/24 (0.0%)	0/18 (0.0%)	0/21 (0.0%)
	Time-to-First	282	----	----	----	----	----
	CAFE P-Value	0.028N*	0.244N	0.268N	0.223N	0.268N	0.244N
Endocrine System							
Adrenal Cortex * Lymphoma Malignant	Simple Incidence	2/22 (9.1%)	0/22 (0.0%)	0/20 (0.0%)	0/24 (0.0%)	0/20 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/18 (0.0%)	0/24 (0.0%)	0/18 (0.0%)	0/21 (0.0%)
	Time-to-First	282	----	----	----	----	----
	CAFE P-Value	0.028N*	0.244N	0.268N	0.223N	0.268N	0.244N
Parathyroid Gland * Lymphoma Malignant	Simple Incidence	2/22 (9.1%)	0/21 (0.0%)	0/19 (0.0%)	0/24 (0.0%)	0/19 (0.0%)	0/21 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/21 (0.0%)	0/17 (0.0%)	0/24 (0.0%)	0/17 (0.0%)	0/21 (0.0%)
	Time-to-First	282	----	----	----	----	----
	CAFE P-Value	0.029N*	0.256N	0.282N	0.223N	0.282N	0.256N
Pituitary Gland * Lymphoma Malignant	Simple Incidence	2/22 (9.1%)	0/22 (0.0%)	0/20 (0.0%)	0/24 (0.0%)	0/20 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/18 (0.0%)	0/24 (0.0%)	0/18 (0.0%)	0/21 (0.0%)
	Time-to-First	282	----	----	----	----	----
	CAFE P-Value	0.028N*	0.244N	0.268N	0.223N	0.268N	0.244N
Genital System							
Prostate, Dorsal/Lateral Lobe * Lymphoma Malignant	Simple Incidence	2/22 (9.1%)	0/22 (0.0%)	0/20 (0.0%)	0/24 (0.0%)	0/20 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/18 (0.0%)	0/24 (0.0%)	0/18 (0.0%)	0/21 (0.0%)
	Time-to-First	282	----	----	----	----	----
	CAFE P-Value	0.028N*	0.244N	0.268N	0.223N	0.268N	0.244N
Hematopoietic System							
Bone Marrow * Lymphoma Malignant	Simple Incidence	2/22 (9.1%)	0/22 (0.0%)	0/20 (0.0%)	0/24 (0.0%)	0/18 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/18 (0.0%)	0/24 (0.0%)	0/18 (0.0%)	0/21 (0.0%)
	Time-to-First	282	----	----	----	----	----
	CAFE P-Value	0.028N*	0.244N	0.268N	0.223N	0.296N	0.244N
Spleen * Lymphoma Malignant	Simple Incidence	2/22 (9.1%)	0/22 (0.0%)	0/20 (0.0%)	0/24 (0.0%)	0/18 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/18 (0.0%)	0/24 (0.0%)	0/18 (0.0%)	0/21 (0.0%)

Table 4. Neoplasms by Body System for Interim Sacrifice Males Bisphenol-A Continuous Dose Arm

<i>System and Neoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
	Time-to-First	282	----	----	----	----	----
	CAFE P-Value	0.028N*	0.244N	0.268N	0.223N	0.296N	0.244N
Integumentary System							
Mammary Gland * Lymphoma Malignant	Simple Incidence	2/22 (9.1%)	0/21 (0.0%)	0/20 (0.0%)	0/24 (0.0%)	0/19 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/21 (0.0%)	0/18 (0.0%)	0/24 (0.0%)	0/17 (0.0%)	0/21 (0.0%)
	Time-to-First	282	----	----	----	----	----
	CAFE P-Value	0.028N*	0.256N	0.268N	0.223N	0.282N	0.244N
Urinary System							
Kidney * Lymphoma Malignant	Simple Incidence	2/22 (9.1%)	0/22 (0.0%)	0/20 (0.0%)	0/24 (0.0%)	0/19 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/18 (0.0%)	0/24 (0.0%)	0/18 (0.0%)	0/21 (0.0%)
	Time-to-First	282	----	----	----	----	----
	CAFE P-Value	0.028N*	0.244N	0.268N	0.223N	0.282N	0.244N

P-values for dose trend are presented in the "Control" column.

N indicates a negative trend or negative treatment comparison to control with corresponding lower-tail p-values.

Table 5. Neoplasms by Body System for Interim Sacrifice Females EE2 Continuous Dose Arm

<i>System and Neoplasm</i>		<i>Treatment (ug/kg)</i>		
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>0.05</i>	<i>0.50</i>
Integumentary System				
Mammary Gland * Adenocarcinoma	Simple Incidence	0/23 (0.0%)	2/26 (7.7%)	0/26 (0.0%)
	Terminal Incidence	0/21 (0.0%)	1/24 (4.2%)	0/26 (0.0%)
	Time-to-First	----	257	----
	CAFE P-Value	0.639N	0.276	
Mammary Gland * Adenocarcinoma or Fibroadenoma	Simple Incidence	2/23 (8.7%)	4/26 (15.4%)	4/26 (15.4%)
	Terminal Incidence	2/21 (9.5%)	3/24 (12.5%)	4/26 (15.4%)
	Time-to-First	361 (T)	257	360 (T)
	CAFE P-Value	0.325	0.395	0.395
Mammary Gland * Fibroadenoma	Simple Incidence	2/23 (8.7%)	2/26 (7.7%)	4/26 (15.4%)

<i>Table 5. Neoplasms by Body System for Interim Sacrifice Females EE2 Continuous Dose Arm</i>				
<i>System and Neoplasm</i>		<i>Treatment (ug/kg)</i>		
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>0.05</i>	<i>0.50</i>
	Terminal Incidence	2/21 (9.5%)	2/24 (8.3%)	4/26 (15.4%)
	Time-to-First	361 (T)	361 (T)	360 (T)
	CAFE P-Value	0.297	0.647N	0.395

P-values for dose trend are presented in the "Control" column.

N indicates a negative trend or negative treatment comparison to control with corresponding lower-tail p-values.

Table 6. Neoplasms by Body System for Interim Sacrifice Males EE2 Continuous Dose Arm					
System and Neoplasm		Treatment (ug/kg)			
Lesion	Statistic	Control	0.05	0.50	
Alimentary System					
Liver * Lymphoma Malignant	Simple Incidence Terminal Incidence Time-to-First CAFE P-Value	2/22 (9.1%) 0/18 (0.0%) 282 0.086N	0/26 (0.0%) 0/22 (0.0%) ---- 0.205N	0/26 (0.0%) 0/23 (0.0%) ---- 0.205N	
Pancreas * Lymphoma Malignant	Simple Incidence Terminal Incidence Time-to-First CAFE P-Value	2/22 (9.1%) 0/18 (0.0%) 282 0.088N	0/26 (0.0%) 0/22 (0.0%) ---- 0.205N	0/25 (0.0%) 0/23 (0.0%) ---- 0.214N	
Cardiovascular System					
Heart * Lymphoma Malignant	Simple Incidence Terminal Incidence Time-to-First CAFE P-Value	2/22 (9.1%) 0/18 (0.0%) 282 0.086N	0/26 (0.0%) 0/22 (0.0%) ---- 0.205N	0/26 (0.0%) 0/23 (0.0%) ---- 0.205N	
Endocrine System					
Adrenal Cortex * Lymphoma Malignant	Simple Incidence Terminal Incidence Time-to-First CAFE P-Value	2/22 (9.1%) 0/18 (0.0%) 282 0.086N	0/26 (0.0%) 0/22 (0.0%) ---- 0.205N	0/26 (0.0%) 0/23 (0.0%) ---- 0.205N	
Parathyroid Gland * Lymphoma Malignant	Simple Incidence Terminal Incidence Time-to-First CAFE P-Value	2/22 (9.1%) 0/18 (0.0%) 282 0.086N	0/26 (0.0%) 0/22 (0.0%) ---- 0.205N	0/26 (0.0%) 0/23 (0.0%) ---- 0.205N	
Pituitary Gland * Lymphoma Malignant	Simple Incidence Terminal Incidence Time-to-First CAFE P-Value	2/22 (9.1%) 0/18 (0.0%) 282 0.086N	0/26 (0.0%) 0/22 (0.0%) ---- 0.205N	0/26 (0.0%) 0/23 (0.0%) ---- 0.205N	
Genital System					
Prostate, Dorsal/Lateral Lobe * Lymphoma Malignant	Simple Incidence	2/22 (9.1%)	0/26 (0.0%)	0/26 (0.0%)	

Table 6. Neoplasms by Body System for Interim Sacrifice Males EE2 Continuous Dose Arm				
System and Neoplasm		Treatment (ug/kg)		
Lesion	Statistic	Control	0.05	0.50
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/23 (0.0%)
	Time-to-First	282	----	----
	CAFE P-Value	0.086N	0.205N	0.205N
Hematopoietic System				
Bone Marrow * Lymphoma Malignant	Simple Incidence	2/22 (9.1%)	0/26 (0.0%)	0/26 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/23 (0.0%)
	Time-to-First	282	----	----
	CAFE P-Value	0.086N	0.205N	0.205N
Spleen * Lymphoma Malignant	Simple Incidence	2/22 (9.1%)	0/25 (0.0%)	0/25 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/23 (0.0%)
	Time-to-First	282	----	----
	CAFE P-Value	0.090N	0.214N	0.214N
Integumentary System				
Mammary Gland * Lymphoma Malignant	Simple Incidence	2/22 (9.1%)	0/26 (0.0%)	0/25 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/22 (0.0%)
	Time-to-First	282	----	----
	CAFE P-Value	0.088N	0.205N	0.214N
Urinary System				
Kidney * Lymphoma Malignant	Simple Incidence	2/22 (9.1%)	0/26 (0.0%)	0/25 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/23 (0.0%)
	Time-to-First	282	----	----
	CAFE P-Value	0.088N	0.205N	0.214N

P-values for dose trend are presented in the "Control" column.

N indicates a negative trend or negative treatment comparison to control with corresponding lower-tail p-values.

Table 7. Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
Alimentary System							
Liver * Basophilic Focus	Simple Incidence	0/20 (0.0%)	1/22 (4.5%)	1/20 (5.0%)	2/22 (9.1%)	3/20 (15.0%)	2/22 (9.1%)
	Terminal Incidence	0/20 (0.0%)	1/22 (4.5%)	1/20 (5.0%)	2/22 (9.1%)	3/20 (15.0%)	2/20 (10.0%)
	Time-to-First	----	363 (T)	363 (T)	364 (T)	363 (T)	363 (T)
	CAFE P-Value	0.058	0.524	0.500	0.268	0.115	0.268
Liver * Eosinophilic Focus	Simple Incidence	0/20 (0.0%)	0/22 (0.0%)	1/20 (5.0%)	1/22 (4.5%)	1/20 (5.0%)	2/22 (9.1%)
	Terminal Incidence	0/20 (0.0%)	0/22 (0.0%)	1/20 (5.0%)	1/22 (4.5%)	1/20 (5.0%)	2/20 (10.0%)
	Time-to-First	----	----	365 (T)	366 (T)	365 (T)	363 (T)
	CAFE P-Value	0.059		0.500	0.524	0.500	0.268
Liver * Fatty Change	Simple Incidence	1/20 (5.0%)	2/22 (9.1%)	2/20 (10.0%)	4/22 (18.2%)	1/20 (5.0%)	0/22 (0.0%)
	Terminal Incidence	1/20 (5.0%)	2/22 (9.1%)	2/20 (10.0%)	4/22 (18.2%)	1/20 (5.0%)	0/20 (0.0%)
	Time-to-First	365 (T)	364 (T)	364 (T)	363 (T)	363 (T)	----
	CAFE P-Value	0.302N	0.537	0.500	0.203	0.756	0.476N
	Severity Profile	0 1 0 0	0 2 0 0	0 0 2 0	2 2 0 0	1 0 0 0	---
	JT/SW P-Value	0.245N	0.694N	0.793N	0.885N	0.618N	0.371N
	RTE P-Value	0.264N	0.312	0.198	0.087	0.485N	0.274N
Liver * Hepatodiaphragmatic Nodule	Simple Incidence	1/20 (5.0%)	2/22 (9.1%)	1/20 (5.0%)	1/22 (4.5%)	2/20 (10.0%)	5/22 (22.7%)
	Terminal Incidence	1/20 (5.0%)	2/22 (9.1%)	1/20 (5.0%)	1/22 (4.5%)	2/20 (10.0%)	5/20 (25.0%)
	Time-to-First	363 (T)	361 (T)	364 (T)	363 (T)	363 (T)	362 (T)
	CAFE P-Value	0.051	0.537	0.756	0.732N	0.500	0.115
Liver * Hyperplasia,Bile Duct	Simple Incidence	4/20 (20.0%)	2/22 (9.1%)	4/20 (20.0%)	3/22 (13.6%)	3/20 (15.0%)	8/22 (36.4%)
	Terminal Incidence	4/20 (20.0%)	2/22 (9.1%)	4/20 (20.0%)	3/22 (13.6%)	3/20 (15.0%)	7/20 (35.0%)
	Time-to-First	361 (T)	363 (T)	364 (T)	362 (T)	363 (T)	255
	CAFE P-Value	0.095	0.286N	0.653	0.444N	0.500N	0.204
	Severity Profile	3 1 0 0	0 1 1 0	3 1 0 0	2 1 0 0	3 0 0 0	7 1 0 0
	JT/SW P-Value	0.108	0.802	0.583	0.733	0.775	0.136
	RTE P-Value	0.121	0.221N	0.500	0.308N	0.325N	0.099
Liver * Infiltration Cellular,Mononuclear Cell	Simple Incidence	2/20 (10.0%)	10/22 (45.5%)	7/20 (35.0%)	7/22 (31.8%)	2/20 (10.0%)	8/22 (36.4%)
	Terminal Incidence	2/20 (10.0%)	10/22 (45.5%)	7/20 (35.0%)	7/22 (31.8%)	2/20 (10.0%)	8/20 (40.0%)
	Time-to-First	364 (T)	359 (T)	363 (T)	363 (T)	363 (T)	362 (T)
	CAFE P-Value	0.425	0.012 *	0.064	0.088	0.698	0.048 *

Table 7. Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>				
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>
	Severity Profile	1 1 0 0	10 0 0 0	7 0 0 0	7 0 0 0	2 0 0 0
	JT/SW P-Value	0.439	0.010 ** ¹	0.031 * ¹	0.046 * ¹	0.109
	RTE P-Value	0.427	0.009 **	0.053	0.081	0.460N
Liver * Tension Lipidosis	Simple Incidence	1/20 (5.0%)	2/22 (9.1%)	2/20 (10.0%)	1/22 (4.5%)	4/20 (20.0%)
	Terminal Incidence	1/20 (5.0%)	2/22 (9.1%)	2/20 (10.0%)	1/22 (4.5%)	4/20 (20.0%)
	Time-to-First	366 (T)	361 (T)	365 (T)	363 (T)	363 (T)
	CAFE P-Value	0.065	0.537	0.500	0.732N	0.171
	Severity Profile	0 1 0 0	0 1 1 0	0 0 1 1	0 1 0 0	1 2 1 0
	JT/SW P-Value	0.060	0.296	0.308	0.446	0.075
	RTE P-Value	0.060	0.330	0.281	0.482N	0.083
Liver * Vacuolization Cytoplasmic	Simple Incidence	2/20 (10.0%)	1/22 (4.5%)	3/20 (15.0%)	4/22 (18.2%)	0/20 (0.0%)
	Terminal Incidence	2/20 (10.0%)	1/22 (4.5%)	3/20 (15.0%)	4/22 (18.2%)	0/20 (0.0%)
	Time-to-First	363 (T)	359 (T)	363 (T)	363 (T)	----
	CAFE P-Value	0.137N	0.463N	0.500	0.380	0.244N
	Severity Profile	2 0 0 0	1 0 0 0	3 0 0 0	3 1 0 0	---
	JT/SW P-Value	0.121N	0.249N	0.562N	0.727N	0.191N
	RTE P-Value	0.116N	0.257N	0.279	0.169	0.105N
Pancreas * Degeneration,Acinus	Simple Incidence	16/20 (80.0%)	14/22 (63.6%)	13/20 (65.0%)	14/22 (63.6%)	17/20 (85.0%)
	Terminal Incidence	16/20 (80.0%)	14/22 (63.6%)	13/20 (65.0%)	14/22 (63.6%)	17/20 (85.0%)
	Time-to-First	361 (T)	361 (T)	363 (T)	362 (T)	362 (T)
	CAFE P-Value	0.288	0.204N	0.240N	0.204N	0.500
	Severity Profile	1 8 6 1	3 7 4 0	4 8 1 0	4 5 4 1	6 7 3 1
	JT/SW P-Value	0.120N	0.047N* ¹	0.015N* ¹	0.035N* ¹	0.069N
	RTE P-Value	0.108N	0.041N*	0.014N*	0.041N*	0.183N
Pancreas * Pigmentation	Simple Incidence	4/20 (20.0%)	1/22 (4.5%)	1/20 (5.0%)	0/22 (0.0%)	4/20 (20.0%)
	Terminal Incidence	4/20 (20.0%)	1/22 (4.5%)	1/20 (5.0%)	0/22 (0.0%)	4/20 (20.0%)
	Time-to-First	364 (T)	365 (T)	364 (T)	----	363 (T)
	CAFE P-Value	0.445N	0.144N	0.171N	0.043N*	0.653
	Severity Profile	4 0 0 0	1 0 0 0	1 0 0 0	---	4 0 0 0
	JT/SW P-Value	0.410N	0.063N	0.062N	0.007N** ¹	0.110N
	RTE P-Value	0.402N	0.033N*	0.038N*	0.017N*	0.500

Table 7. Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
Cardiovascular System							
Heart * Cardiomyopathy	Simple Incidence	6/20 (30.0%)	8/22 (36.4%)	7/20 (35.0%)	7/22 (31.8%)	6/20 (30.0%)	7/22 (31.8%)
	Terminal Incidence	6/20 (30.0%)	8/22 (36.4%)	7/20 (35.0%)	7/22 (31.8%)	6/20 (30.0%)	7/20 (35.0%)
	Time-to-First	362 (T)	364 (T)	363 (T)	362 (T)	362 (T)	362 (T)
	CAFE P-Value	0.457N	0.457	0.500	0.582	0.634	0.582
	Severity Profile	6 0 0 0	8 0 0 0	6 1 0 0	5 2 0 0	6 0 0 0	5 2 0 0
	JT/SW P-Value	0.483	0.333	0.394	0.441	0.502	0.500
	RTE P-Value	0.484	0.342	0.337	0.377	0.500	0.377
Endocrine System							
Adrenal Cortex * Degeneration,Cystic	Simple Incidence	0/20 (0.0%)	1/22 (4.5%)	0/20 (0.0%)	2/22 (9.1%)	0/20 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/20 (0.0%)	1/22 (4.5%)	0/20 (0.0%)	2/22 (9.1%)	0/20 (0.0%)	0/20 (0.0%)
	Time-to-First	---	363 (T)	---	364 (T)	---	---
	CAFE P-Value	0.491N	0.524		0.268		
	Severity Profile	---	0 0 1 0	---	1 0 0 1	---	---
	JT/SW P-Value	0.423N	0.830N	0.583N	0.893N	0.636N	0.648N
	RTE P-Value	0.435N	0.149	0.500	0.037 *	0.500	0.500
Parathyroid Gland * Hyperplasia							
	Simple Incidence	1/20 (5.0%)	1/21 (4.8%)	0/20 (0.0%)	2/22 (9.1%)	2/19 (10.5%)	0/22 (0.0%)
	Terminal Incidence	1/20 (5.0%)	1/21 (4.8%)	0/20 (0.0%)	2/22 (9.1%)	2/19 (10.5%)	0/20 (0.0%)
	Time-to-First	365 (T)	364 (T)	---	364 (T)	363 (T)	---
	CAFE P-Value	0.534N	0.744N	0.500N	0.537	0.480	0.476N
	Severity Profile	1 0 0 0	0 1 0 0	---	0 2 0 0	1 1 0 0	---
	JT/SW P-Value	0.491N	0.500N	0.231N	0.618N	0.712N	0.317N
	RTE P-Value	0.481	0.500	0.240N	0.256	0.152	0.235N
Pituitary Gland * Angiectasis							
	Simple Incidence	0/20 (0.0%)	2/22 (9.1%)	1/20 (5.0%)	0/22 (0.0%)	0/20 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/20 (0.0%)	2/22 (9.1%)	1/20 (5.0%)	0/22 (0.0%)	0/20 (0.0%)	0/20 (0.0%)
	Time-to-First	---	363 (T)	365 (T)	---	---	---
	CAFE P-Value	0.154N	0.268	0.500			
	Severity Profile	---	0 1 1 0	0 1 0 0	---	---	---
	JT/SW P-Value	0.110N	0.914N	0.843N	0.618N	0.636N	0.648N
	RTE P-Value	0.145N	0.015 *	0.161	0.500	0.500	0.500
Pituitary Gland * Cyst,Pars Distalis							
	Simple Incidence	3/20 (15.0%)	0/22 (0.0%)	0/20 (0.0%)	0/22 (0.0%)	0/20 (0.0%)	2/22 (9.1%)
	Terminal Incidence	3/20 (15.0%)	0/22 (0.0%)	0/20 (0.0%)	0/22 (0.0%)	0/20 (0.0%)	2/20 (10.0%)

Table 7. Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
	Time-to-First	363 (T)	----	----	----	----	362 (T)
	CAFE P-Value	0.291N	0.099N	0.115N	0.099N	0.115N	0.453N
Pituitary Gland * Hyperplasia,Pars Distalis	Simple Incidence	18/20 (90.0%)	16/22 (72.7%)	14/20 (70.0%)	20/22 (90.9%)	16/20 (80.0%)	18/22 (81.8%)
	Terminal Incidence	18/20 (90.0%)	16/22 (72.7%)	14/20 (70.0%)	20/22 (90.9%)	16/20 (80.0%)	18/20 (90.0%)
	Time-to-First	361 (T)	361 (T)	363 (T)	362 (T)	362 (T)	362 (T)
	CAFE P-Value	0.496	0.152N	0.118N	0.659	0.331N	0.380N
	Severity Profile	10 8 0 0	10 4 2 0	5 5 4 0	10 9 1 0	6 7 3 0	9 8 1 0
	JT/SW P-Value	0.273	0.861	0.626	0.450	0.440	0.546
	RTE P-Value	0.264	0.179N	0.497	0.356	0.334	0.447N
Thyroid Gland * Hyperplasia,C-Cell	Simple Incidence	10/20 (50.0%)	16/22 (72.7%)	11/20 (55.0%)	12/22 (54.5%)	13/20 (65.0%)	9/22 (40.9%)
	Terminal Incidence	10/20 (50.0%)	16/22 (72.7%)	11/20 (55.0%)	12/22 (54.5%)	13/20 (65.0%)	9/20 (45.0%)
	Time-to-First	361 (T)	359 (T)	363 (T)	363 (T)	362 (T)	362 (T)
	CAFE P-Value	0.211N	0.116	0.500	0.506	0.262	0.390N
	Severity Profile	10 0 0 0	11 4 1 0	8 3 0 0	8 4 0 0	11 2 0 0	8 1 0 0
	JT/SW P-Value	0.204N	0.982N	0.859N	0.896N	0.927N	0.492N
	RTE P-Value	0.235N	0.024 *	0.221	0.194	0.126	0.367N
Thyroid Gland * Ultimobranchial Cyst	Simple Incidence	4/20 (20.0%)	6/22 (27.3%)	7/20 (35.0%)	4/22 (18.2%)	6/20 (30.0%)	6/22 (27.3%)
	Terminal Incidence	4/20 (20.0%)	6/22 (27.3%)	7/20 (35.0%)	4/22 (18.2%)	6/20 (30.0%)	6/20 (30.0%)
	Time-to-First	363 (T)	359 (T)	363 (T)	363 (T)	363 (T)	362 (T)
	CAFE P-Value	0.397	0.426	0.240	0.594N	0.358	0.426
Genital System							
Ovary * Atrophy	Simple Incidence	10/20 (50.0%)	9/22 (40.9%)	11/20 (55.0%)	6/22 (27.3%)	12/20 (60.0%)	15/22 (68.2%)
	Terminal Incidence	10/20 (50.0%)	9/22 (40.9%)	11/20 (55.0%)	6/22 (27.3%)	12/20 (60.0%)	14/20 (70.0%)
	Time-to-First	361 (T)	363 (T)	363 (T)	363 (T)	363 (T)	255
	CAFE P-Value	0.097	0.390N	0.500	0.116N	0.376	0.188
	Severity Profile	2 6 0 2	1 4 0 4	8 1 0 2	1 3 0 2	5 4 0 3	4 5 0 6
	JT/SW P-Value	0.094	0.588	0.709	0.856	0.449	0.131
	RTE P-Value	0.100	0.390N	0.374N	0.095N	0.348	0.099
Ovary * Cyst	Simple Incidence	0/20 (0.0%)	2/22 (9.1%)	0/20 (0.0%)	0/22 (0.0%)	0/20 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/20 (0.0%)	2/22 (9.1%)	0/20 (0.0%)	0/22 (0.0%)	0/20 (0.0%)	0/20 (0.0%)
	Time-to-First	----	364 (T)	----	----	----	----

Table 7. Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
	CAFE P-Value	0.160N	0.268				
Ovary * Cyst,Corpus Luteum	Simple Incidence	2/20 (10.0%)	2/22 (9.1%)	2/20 (10.0%)	5/22 (22.7%)	1/20 (5.0%)	0/22 (0.0%)
	Terminal Incidence	2/20 (10.0%)	2/22 (9.1%)	2/20 (10.0%)	5/22 (22.7%)	1/20 (5.0%)	0/20 (0.0%)
	Time-to-First	365 (T)	363 (T)	364 (T)	362 (T)	363 (T)	----
	CAFE P-Value	0.201N	0.659N	0.698	0.247	0.500N	0.221N
Ovary * Cyst,Follicle	Simple Incidence	5/20 (25.0%)	6/22 (27.3%)	4/20 (20.0%)	7/22 (31.8%)	11/20 (55.0%)	18/22 (81.8%)
	Terminal Incidence	5/20 (25.0%)	6/22 (27.3%)	4/20 (20.0%)	7/22 (31.8%)	11/20 (55.0%)	17/20 (85.0%)
	Time-to-First	362 (T)	363 (T)	364 (T)	364 (T)	363 (T)	255
	CAFE P-Value	<.001 ***	0.574	0.500N	0.443	0.053	<.001 ***
Ovary * Cyst,Periovarian Tissue	Simple Incidence	0/20 (0.0%)	0/22 (0.0%)	0/20 (0.0%)	2/22 (9.1%)	0/20 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/20 (0.0%)	0/22 (0.0%)	0/20 (0.0%)	2/22 (9.1%)	0/20 (0.0%)	0/20 (0.0%)
	Time-to-First	----	----	----	365 (T)	----	----
	CAFE P-Value	0.424			0.268		
Ovary * Depletion,Corpus Luteum	Simple Incidence	2/20 (10.0%)	4/22 (18.2%)	2/20 (10.0%)	2/22 (9.1%)	3/20 (15.0%)	6/22 (27.3%)
	Terminal Incidence	2/20 (10.0%)	4/22 (18.2%)	2/20 (10.0%)	2/22 (9.1%)	3/20 (15.0%)	6/20 (30.0%)
	Time-to-First	362 (T)	363 (T)	364 (T)	365 (T)	363 (T)	363 (T)
	CAFE P-Value	0.138	0.380	0.698	0.659N	0.500	0.152
Ovary * Diestrus	Simple Incidence	10/20 (50.0%)	11/22 (50.0%)	9/20 (45.0%)	12/22 (54.5%)	11/20 (55.0%)	13/22 (59.1%)
	Terminal Incidence	10/20 (50.0%)	11/22 (50.0%)	9/20 (45.0%)	12/22 (54.5%)	11/20 (55.0%)	11/20 (55.0%)
	Time-to-First	361 (T)	359 (T)	364 (T)	362 (T)	362 (T)	43
	CAFE P-Value	0.236	0.621	0.500N	0.506	0.500	0.390
Ovary * Hypertrophy,Interstitial Cell	Simple Incidence	4/20 (20.0%)	3/22 (13.6%)	1/20 (5.0%)	2/22 (9.1%)	3/20 (15.0%)	5/22 (22.7%)
	Terminal Incidence	4/20 (20.0%)	3/22 (13.6%)	1/20 (5.0%)	2/22 (9.1%)	3/20 (15.0%)	5/20 (25.0%)
	Time-to-First	363 (T)	363 (T)	364 (T)	365 (T)	363 (T)	363 (T)
	CAFE P-Value	0.380	0.444N	0.171N	0.286N	0.500N	0.565
	Severity Profile	0 1 3 0	0 2 1 0	0 1 0 0	0 2 0 0	0 3 0 0	0 4 1 0
	JT/SW P-Value	0.400	0.739	0.919	0.951	0.865	0.601
	RTE P-Value	0.429	0.244N	0.061N	0.117N	0.268N	0.459
Ovary * Metestrus	Simple Incidence	7/20 (35.0%)	5/22 (22.7%)	4/20 (20.0%)	4/22 (18.2%)	5/20 (25.0%)	2/22 (9.1%)
	Terminal Incidence	7/20 (35.0%)	5/22 (22.7%)	4/20 (20.0%)	4/22 (18.2%)	5/20 (25.0%)	2/20 (10.0%)

Table 7. Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A 50 mg/kg Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>				
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>
	Time-to-First	362 (T)	361 (T)	363 (T)	363 (T)	363 (T)
	CAFE P-Value	0.055N	0.296N	0.240N	0.188N	0.366N
Ovary * Proestrus	Simple Incidence	1/20 (5.0%)	2/22 (9.1%)	5/20 (25.0%)	4/22 (18.2%)	1/20 (5.0%)
	Terminal Incidence	1/20 (5.0%)	2/22 (9.1%)	5/20 (25.0%)	4/22 (18.2%)	1/20 (5.0%)
	Time-to-First	364 (T)	363 (T)	363 (T)	363 (T)	366 (T)
	CAFE P-Value	0.382N	0.537	0.091	0.203	0.756
Uterus * Apoptosis	Simple Incidence	2/20 (10.0%)	3/22 (13.6%)	2/20 (10.0%)	2/22 (9.1%)	1/20 (5.0%)
	Terminal Incidence	2/20 (10.0%)	3/22 (13.6%)	2/20 (10.0%)	2/22 (9.1%)	1/20 (5.0%)
	Time-to-First	362 (T)	363 (T)	364 (T)	365 (T)	363 (T)
	CAFE P-Value	0.171	0.547	0.698	0.659N	0.500N
	Severity Profile	0 0 0 2	0 1 0 2	0 0 1 1	0 0 2 0	0 0 0 1
	JT/SW P-Value	0.149	0.377	0.522	0.603	0.680
	RTE P-Value	0.161	0.382	0.479N	0.425N	0.312N
Uterus * Cyst,Endometrium	Simple Incidence	0/20 (0.0%)	1/22 (4.5%)	2/20 (10.0%)	2/22 (9.1%)	3/20 (15.0%)
	Terminal Incidence	0/20 (0.0%)	1/22 (4.5%)	2/20 (10.0%)	2/22 (9.1%)	3/20 (15.0%)
	Time-to-First	----	363 (T)	365 (T)	364 (T)	363 (T)
	CAFE P-Value	0.314	0.524	0.244	0.268	0.115
Uterus * Diestrus	Simple Incidence	7/20 (35.0%)	10/22 (45.5%)	7/20 (35.0%)	7/22 (31.8%)	9/20 (45.0%)
	Terminal Incidence	7/20 (35.0%)	10/22 (45.5%)	7/20 (35.0%)	7/22 (31.8%)	9/20 (45.0%)
	Time-to-First	361 (T)	361 (T)	364 (T)	363 (T)	362 (T)
	CAFE P-Value	0.324	0.355	0.629	0.543N	0.374
Uterus * Dilatation,Lumen	Simple Incidence	1/20 (5.0%)	0/22 (0.0%)	1/20 (5.0%)	4/22 (18.2%)	1/20 (5.0%)
	Terminal Incidence	1/20 (5.0%)	0/22 (0.0%)	1/20 (5.0%)	4/22 (18.2%)	1/20 (5.0%)
	Time-to-First	363 (T)	----	363 (T)	363 (T)	366 (T)
	CAFE P-Value	0.515	0.476N	0.756	0.203	0.756
	Severity Profile	0 0 0 1	---	0 0 0 1	0 0 1 3	0 0 1 0
	JT/SW P-Value	0.485	0.853	0.583	0.064	0.264
	RTE P-Value	0.479	0.234N	0.500	0.045 *	0.485N
Uterus * Estrus	Simple Incidence	2/20 (10.0%)	4/22 (18.2%)	2/20 (10.0%)	2/22 (9.1%)	2/20 (10.0%)
	Terminal Incidence	2/20 (10.0%)	4/22 (18.2%)	2/20 (10.0%)	2/22 (9.1%)	2/20 (10.0%)
	Time-to-First	362 (T)	363 (T)	364 (T)	365 (T)	363 (T)

Table 7. Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>				
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>
	CAFE P-Value	0.185	0.380	0.698	0.659N	0.698
Uterus * Hyperplasia,Cystic,Endometrium	Simple Incidence	2/20 (10.0%)	4/22 (18.2%)	2/20 (10.0%)	2/22 (9.1%)	1/20 (5.0%)
	Terminal Incidence	2/20 (10.0%)	4/22 (18.2%)	2/20 (10.0%)	2/22 (9.1%)	1/20 (5.0%)
	Time-to-First	362 (T)	359 (T)	364 (T)	365 (T)	363 (T)
	CAFE P-Value	0.148	0.380	0.698	0.659N	0.500N
	Severity Profile	0 1 0 1	0 2 2 0	0 2 0 0	0 2 0 0	0 0 0 1
	JT/SW P-Value	0.158	0.241	0.429	0.527	0.617
	RTE P-Value	0.173	0.224	0.474N	0.441N	0.329N
Uterus * Hyperplasia,Endometrial Glands	Simple Incidence	1/20 (5.0%)	0/22 (0.0%)	1/20 (5.0%)	1/22 (4.5%)	0/20 (0.0%)
	Terminal Incidence	1/20 (5.0%)	0/22 (0.0%)	1/20 (5.0%)	1/22 (4.5%)	0/20 (0.0%)
	Time-to-First	362 (T)	----	364 (T)	366 (T)	----
	CAFE P-Value	0.313	0.476N	0.756	0.732N	0.500N
	Severity Profile	0 1 0 0	---	0 1 0 0	0 1 0 0	0 2 0 0
	JT/SW P-Value	0.263	0.853	0.583	0.636	0.771
	RTE P-Value	0.290	0.207N	0.500	0.470N	0.212N
Uterus * Hyperplasia,Endometrium	Simple Incidence	6/20 (30.0%)	9/22 (40.9%)	5/20 (25.0%)	7/22 (31.8%)	6/20 (30.0%)
	Terminal Incidence	6/20 (30.0%)	9/22 (40.9%)	5/20 (25.0%)	7/22 (31.8%)	6/20 (30.0%)
	Time-to-First	361 (T)	361 (T)	364 (T)	363 (T)	363 (T)
	CAFE P-Value	0.392	0.340	0.500N	0.582	0.634
	Severity Profile	1 4 1 0	1 6 2 0	2 2 1 0	2 4 1 0	0 6 0 0
	JT/SW P-Value	0.333	0.216	0.488	0.544	0.581
	RTE P-Value	0.338	0.211	0.340N	0.486	0.499N
Uterus * Metaplasia,Squamous	Simple Incidence	0/20 (0.0%)	2/22 (9.1%)	1/20 (5.0%)	1/22 (4.5%)	0/20 (0.0%)
	Terminal Incidence	0/20 (0.0%)	2/22 (9.1%)	1/20 (5.0%)	1/22 (4.5%)	0/20 (0.0%)
	Time-to-First	----	364 (T)	365 (T)	365 (T)	----
	CAFE P-Value	0.091	0.268	0.500	0.524	0.065
	Severity Profile	---	2 0 0 0	0 1 0 0	1 0 0 0	---
	JT/SW P-Value	0.067	0.086	0.177	0.220	0.289
	RTE P-Value	0.067	0.134	0.190	0.278	0.500
Uterus * Metestrus	Simple Incidence	8/20 (40.0%)	7/22 (31.8%)	6/20 (30.0%)	8/22 (36.4%)	7/20 (35.0%)
	Terminal Incidence	8/20 (40.0%)	7/22 (31.8%)	6/20 (30.0%)	8/22 (36.4%)	7/20 (35.0%)
	Time-to-First	362 (T)	359 (T)	363 (T)	363 (T)	362 (T)
						43

Table 7. Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>				
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>
	CAFE P-Value	0.146N	0.409N	0.371N	0.530N	0.500N
Uterus * Proestrus	Simple Incidence	2/20 (10.0%)	1/22 (4.5%)	5/20 (25.0%)	5/22 (22.7%)	2/20 (10.0%)
	Terminal Incidence	2/20 (10.0%)	1/22 (4.5%)	5/20 (25.0%)	5/22 (22.7%)	2/20 (10.0%)
	Time-to-First	363 (T)	365 (T)	363 (T)	362 (T)	365 (T)
	CAFE P-Value	0.464	0.463N	0.204	0.247	0.698
Vagina * Diestrus	Simple Incidence	6/20 (30.0%)	11/22 (50.0%)	9/20 (45.0%)	10/22 (45.5%)	9/20 (45.0%)
	Terminal Incidence	6/20 (30.0%)	11/22 (50.0%)	9/20 (45.0%)	10/22 (45.5%)	9/20 (45.0%)
	Time-to-First	361 (T)	359 (T)	364 (T)	363 (T)	362 (T)
	CAFE P-Value	0.276	0.158	0.257	0.239	0.257
Vagina * Estrus	Simple Incidence	2/20 (10.0%)	3/22 (13.6%)	2/20 (10.0%)	2/22 (9.1%)	2/20 (10.0%)
	Terminal Incidence	2/20 (10.0%)	3/22 (13.6%)	2/20 (10.0%)	2/22 (9.1%)	2/20 (10.0%)
	Time-to-First	362 (T)	363 (T)	364 (T)	365 (T)	363 (T)
	CAFE P-Value	0.125	0.547	0.698	0.659N	0.698
Vagina * Hyperplasia,Epithelium	Simple Incidence	2/20 (10.0%)	4/22 (18.2%)	2/20 (10.0%)	1/22 (4.5%)	2/20 (10.0%)
	Terminal Incidence	2/20 (10.0%)	4/22 (18.2%)	2/20 (10.0%)	1/22 (4.5%)	2/20 (10.0%)
	Time-to-First	362 (T)	363 (T)	364 (T)	365 (T)	363 (T)
	CAFE P-Value	0.199	0.380	0.698	0.463N	0.698
	Severity Profile	0 0 2 0	0 0 4 0	0 0 2 0	0 0 0 1	0 1 1 0
	JT/SW P-Value	0.189	0.227	0.409	0.567	0.604
	RTE P-Value	0.201	0.219	0.500	0.320N	0.477N
Vagina * Metestrus	Simple Incidence	9/20 (45.0%)	6/22 (27.3%)	4/20 (20.0%)	5/22 (22.7%)	7/20 (35.0%)
	Terminal Incidence	9/20 (45.0%)	6/22 (27.3%)	4/20 (20.0%)	5/22 (22.7%)	7/20 (35.0%)
	Time-to-First	362 (T)	361 (T)	363 (T)	363 (T)	362 (T)
	CAFE P-Value	0.105N	0.191N	0.088N	0.115N	0.374N
Vagina * Mucification,Epithelium	Simple Incidence	8/20 (40.0%)	11/22 (50.0%)	9/20 (45.0%)	11/22 (50.0%)	8/20 (40.0%)
	Terminal Incidence	8/20 (40.0%)	11/22 (50.0%)	9/20 (45.0%)	11/22 (50.0%)	8/20 (40.0%)
	Time-to-First	361 (T)	361 (T)	364 (T)	363 (T)	363 (T)
	CAFE P-Value	0.515	0.367	0.500	0.367	0.626
	Severity Profile	1 2 1 4	0 3 4 4	0 3 4 2	0 6 2 3	0 1 3 4
	JT/SW P-Value	0.405	0.271	0.410	0.433	0.481
	RTE P-Value	0.402	0.270	0.442	0.379	0.420

Table 7. Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
Vagina * Proestrus	Simple Incidence	2/20 (10.0%)	2/22 (9.1%)	5/20 (25.0%)	5/22 (22.7%)	2/20 (10.0%)	2/22 (9.1%)
	Terminal Incidence	2/20 (10.0%)	2/22 (9.1%)	5/20 (25.0%)	5/22 (22.7%)	2/20 (10.0%)	2/20 (10.0%)
	Time-to-First	363 (T)	363 (T)	363 (T)	362 (T)	365 (T)	362 (T)
	CAFE P-Value	0.504N	0.659N	0.204	0.247	0.698	0.659N
Hematopoietic System							
Spleen * Hematopoietic Cell Proliferation	Simple Incidence	2/20 (10.0%)	0/22 (0.0%)	1/20 (5.0%)	3/22 (13.6%)	3/20 (15.0%)	2/22 (9.1%)
	Terminal Incidence	2/20 (10.0%)	0/22 (0.0%)	1/20 (5.0%)	3/22 (13.6%)	3/20 (15.0%)	1/20 (5.0%)
	Time-to-First	366 (T)	---	365 (T)	364 (T)	362 (T)	43
	CAFE P-Value	0.194	0.221N	0.500N	0.547	0.500	0.659N
	Severity Profile	0 2 0 0	---	0 1 0 0	0 2 1 0	1 1 1 0	1 0 1 0
	JT/SW P-Value	0.168	0.933	0.846	0.398	0.381	0.510
	RTE P-Value	0.176	0.165N	0.291N	0.328	0.290	0.461N
Spleen * Pigmentation	Simple Incidence	20/20 (100.0%)	22/22 (100.0%)	20/20 (100.0%)	22/22 (100.0%)	20/20 (100.0%)	20/22 (90.9%)
	Terminal Incidence	20/20 (100.0%)	22/22 (100.0%)	20/20 (100.0%)	22/22 (100.0%)	20/20 (100.0%)	19/20 (95.0%)
	Time-to-First	361 (T)	359 (T)	363 (T)	362 (T)	362 (T)	255
	CAFE P-Value	0.029N*					0.268N
	Severity Profile	6 6 5 3	2 7 10 3	5 8 3 4	5 7 9 1	0 9 10 1	1 6 10 3
	JT/SW P-Value	0.183	0.096	0.279	0.370	0.137	0.160
	RTE P-Value	0.192	0.085	0.469	0.446	0.122	0.132
Thymus * Atrophy	Simple Incidence	18/20 (90.0%)	19/22 (86.4%)	18/20 (90.0%)	17/22 (77.3%)	18/20 (90.0%)	16/22 (72.7%)
	Terminal Incidence	18/20 (90.0%)	19/22 (86.4%)	18/20 (90.0%)	17/22 (77.3%)	18/20 (90.0%)	16/20 (80.0%)
	Time-to-First	361 (T)	359 (T)	363 (T)	362 (T)	362 (T)	362 (T)
	CAFE P-Value	0.100N	0.547N	0.698N	0.247N	0.698N	0.152N
	Severity Profile	0 8 5 5	0 8 2 9	0 2 4 12	0 5 6 6	0 5 5 8	0 4 4 8
	JT/SW P-Value	0.464N	0.640N	0.938N	0.571N	0.792N	0.690N
	RTE P-Value	0.483N	0.323	0.024 *	0.457N	0.189	0.462
Integumentary System							
Mammary Gland * Dilatation,Duct	Simple Incidence	4/20 (20.0%)	2/22 (9.1%)	1/20 (5.0%)	1/22 (4.5%)	1/20 (5.0%)	1/22 (4.5%)
	Terminal Incidence	4/20 (20.0%)	2/22 (9.1%)	1/20 (5.0%)	1/22 (4.5%)	1/20 (5.0%)	1/20 (5.0%)
	Time-to-First	363 (T)	364 (T)	364 (T)	365 (T)	363 (T)	364 (T)
	CAFE P-Value	0.046N*	0.286N	0.171N	0.144N	0.171N	0.144N

Table 7. Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>				
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>
	Severity Profile	2 1 1 0	1 1 0 0	0 1 0 0	1 0 0 0	0 1 0 0
	JT/SW P-Value	0.036N*	0.155N	0.084N	0.051N	0.054N
	RTE P-Value	0.035N*	0.073N	0.053N	0.026N*	0.050N
Mammary Gland * Hyperplasia,Lobular	Simple Incidence	15/20 (75.0%)	12/22 (54.5%)	8/20 (40.0%)	12/22 (54.5%)	7/20 (35.0%)
	Terminal Incidence	15/20 (75.0%)	12/22 (54.5%)	8/20 (40.0%)	12/22 (54.5%)	7/20 (35.0%)
	Time-to-First	361 (T)	361 (T)	363 (T)	362 (T)	363 (T)
	CAFE P-Value	0.072N	0.145N	0.027N*	0.145N	0.012N*
	Severity Profile	10 4 1 0	8 3 1 0	5 1 2 0	8 3 1 0	4 3 0 0
	JT/SW P-Value	0.133N	0.115N	0.034N* ¹	0.074N	0.014N* ¹
	RTE P-Value	0.118N	0.119N	0.031N*	0.119N	0.015N*
Urinary System						
Kidney * Casts Protein	Simple Incidence	3/20 (15.0%)	1/22 (4.5%)	1/20 (5.0%)	0/22 (0.0%)	1/20 (5.0%)
	Terminal Incidence	3/20 (15.0%)	1/22 (4.5%)	1/20 (5.0%)	0/22 (0.0%)	1/20 (5.0%)
	Time-to-First	362 (T)	365 (T)	365 (T)	---	363 (T)
	CAFE P-Value	0.123N	0.267N	0.302N	0.099N	0.302N
	Severity Profile	3 0 0 0	1 0 0 0	1 0 0 0	---	1 0 0 0
	JT/SW P-Value	0.099N	0.127N	0.142N	0.025N* ¹	0.055N
	RTE P-Value	0.094N	0.061N	0.094N	0.037N*	0.094N
Kidney * Cyst,Cortex	Simple Incidence	3/20 (15.0%)	2/22 (9.1%)	6/20 (30.0%)	4/22 (18.2%)	7/20 (35.0%)
	Terminal Incidence	3/20 (15.0%)	2/22 (9.1%)	6/20 (30.0%)	4/22 (18.2%)	7/20 (35.0%)
	Time-to-First	364 (T)	359 (T)	364 (T)	363 (T)	363 (T)
	CAFE P-Value	0.242	0.453N	0.225	0.556	0.137
	Severity Profile	3 0 0 0	1 0 0 0	1 0 0 0	---	1 0 0 0
	JT/SW P-Value	0.099N	0.127N	0.142N	0.025N* ¹	0.055N
	RTE P-Value	0.094N	0.061N	0.094N	0.037N*	0.094N
Kidney * Cyst,Renal Tubule	Simple Incidence	4/20 (20.0%)	3/22 (13.6%)	4/20 (20.0%)	4/22 (18.2%)	6/20 (30.0%)
	Terminal Incidence	4/20 (20.0%)	3/22 (13.6%)	4/20 (20.0%)	4/22 (18.2%)	6/20 (30.0%)
	Time-to-First	362 (T)	363 (T)	364 (T)	364 (T)	363 (T)
	CAFE P-Value	0.226	0.444N	0.653	0.594N	0.358
	Severity Profile	3 0 0 0	1 0 0 0	1 0 0 0	---	1 0 0 0
	JT/SW P-Value	0.099N	0.127N	0.142N	0.025N* ¹	0.055N
	RTE P-Value	0.094N	0.061N	0.094N	0.037N*	0.094N
Kidney * Mineralization	Simple Incidence	13/20 (65.0%)	11/22 (50.0%)	11/20 (55.0%)	14/22 (63.6%)	13/20 (65.0%)
	Terminal Incidence	13/20 (65.0%)	11/22 (50.0%)	11/20 (55.0%)	14/22 (63.6%)	13/20 (65.0%)
	Time-to-First	361 (T)	359 (T)	363 (T)	362 (T)	363 (T)
	CAFE P-Value	0.428N	0.252N	0.374N	0.591N	0.629N
	Severity Profile	8 4 0 1	9 2 0 0	6 4 0 1	8 6 0 0	6 6 1 0
	JT/SW P-Value	0.099N	0.127N	0.142N	0.025N* ¹	0.055N
	RTE P-Value	0.094N	0.061N	0.094N	0.037N*	0.094N

Table 7. Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
	JT/SW P-Value	0.466N	0.093N	0.225N	0.346N	0.465N	0.169N
	RTE P-Value	0.470N	0.100N	0.326N	0.477N	0.376	0.128N
Kidney * Nephropathy	Simple Incidence	10/20 (50.0%)	10/22 (45.5%)	10/20 (50.0%)	11/22 (50.0%)	12/20 (60.0%)	13/22 (59.1%)
	Terminal Incidence	10/20 (50.0%)	10/22 (45.5%)	10/20 (50.0%)	11/22 (50.0%)	12/20 (60.0%)	12/20 (60.0%)
	Time-to-First	361 (T)	361 (T)	363 (T)	363 (T)	362 (T)	43
	CAFE P-Value	0.177	0.506N	0.624N	0.621	0.376	0.390
	Severity Profile	7 2 1 0	7 2 1 0	9 1 0 0	7 3 1 0	7 5 0 0	10 1 1 1
	JT/SW P-Value	0.157	0.610	0.704	0.580	0.302	0.364
	RTE P-Value	0.169	0.392N	0.372N	0.465	0.230	0.319

P-values for dose trend are presented in the "Control" column.

N indicates a negative trend or negative treatment comparison to control with corresponding lower-tail p-values.

¹ Nonsignificant SW test due to the assumption of monotonicity.

Table 8. Nonneoplasms by Body System for Interim Sacrifice Males Bisphenol-A Stop Dose Arm

System and Nonneoplasm	Lesion	Statistic	Treatment (ug/kg)				
			Control	2.5	25	250	2500
Alimentary System							
Liver * Basophilic Focus	Simple Incidence	1/20 (5.0%)	2/20 (10.0%)	0/20 (0.0%)	0/19 (0.0%)	0/20 (0.0%)	1/22 (4.5%)
	Terminal Incidence	1/20 (5.0%)	2/20 (10.0%)	0/19 (0.0%)	0/19 (0.0%)	0/20 (0.0%)	1/22 (4.5%)
	Time-to-First	364 (T)	363 (T)	---	---	---	365 (T)
	CAFE P-Value	0.226N	0.500	0.500N	0.513N	0.500N	0.732N
Liver * Degeneration,Cystic	Simple Incidence	4/20 (20.0%)	4/20 (20.0%)	3/20 (15.0%)	1/19 (5.3%)	0/20 (0.0%)	0/22 (0.0%)
	Terminal Incidence	4/20 (20.0%)	4/20 (20.0%)	3/19 (15.8%)	1/19 (5.3%)	0/20 (0.0%)	0/22 (0.0%)
	Time-to-First	364 (T)	364 (T)	364 (T)	365 (T)	---	---
	CAFE P-Value	0.001N**	0.653	0.500N	0.187N	0.053N	0.043N*
	Severity Profile	3 1 0 0	4 0 0 0	3 0 0 0	1 0 0 0	---	---
	JT/SW P-Value	0.001N**	0.469N	0.379N	0.117N	0.030N*	0.017N*
	RTE P-Value	0.001N**	0.479N	0.279N	0.039N*	0.010N*	0.013N*
Liver * Fatty Change	Simple Incidence	0/20 (0.0%)	1/20 (5.0%)	1/20 (5.0%)	0/19 (0.0%)	2/20 (10.0%)	1/22 (4.5%)
	Terminal Incidence	0/20 (0.0%)	1/20 (5.0%)	1/19 (5.3%)	0/19 (0.0%)	2/20 (10.0%)	1/22 (4.5%)
	Time-to-First	---	363 (T)	365 (T)	---	363 (T)	364 (T)
	CAFE P-Value	0.235	0.500	0.500	0.244	0.524	
	Severity Profile	---	0 1 0 0	0 0 1 0	---	0 0 2 0	0 0 1 0
	JT/SW P-Value	0.186	0.159	0.224	0.322	0.067	0.163
	RTE P-Value	0.179	0.224	0.215	0.500	0.082	0.231
Liver * Hepatodiaphragmatic Nodule	Simple Incidence	1/20 (5.0%)	2/20 (10.0%)	3/20 (15.0%)	3/19 (15.8%)	2/20 (10.0%)	1/22 (4.5%)
	Terminal Incidence	1/20 (5.0%)	2/20 (10.0%)	2/19 (10.5%)	3/19 (15.8%)	2/20 (10.0%)	1/22 (4.5%)
	Time-to-First	363 (T)	363 (T)	131	364 (T)	363 (T)	364 (T)
	CAFE P-Value	0.503N	0.500	0.302	0.283	0.500	0.732N
Liver * Hyperplasia,Bile Duct	Simple Incidence	8/20 (40.0%)	9/20 (45.0%)	5/20 (25.0%)	5/19 (26.3%)	5/20 (25.0%)	5/22 (22.7%)
	Terminal Incidence	8/20 (40.0%)	9/20 (45.0%)	5/19 (26.3%)	5/19 (26.3%)	5/20 (25.0%)	5/22 (22.7%)
	Time-to-First	361 (T)	361 (T)	364 (T)	363 (T)	365 (T)	363 (T)
	CAFE P-Value	0.051N	0.500	0.250N	0.286N	0.250N	0.191N
	Severity Profile	7 1 0 0	8 1 0 0	4 1 0 0	3 2 0 0	4 1 0 0	5 0 0 0
	JT/SW P-Value	0.049N*	0.616N	0.215N	0.268N	0.231N	0.142N
	RTE P-Value	0.049N*	0.375	0.168N	0.227N	0.171N	0.110N
Liver * Infiltration Cellular,Mononuclear Cell	Simple Incidence	11/20 (55.0%)	13/20 (65.0%)	9/20 (45.0%)	13/19 (68.4%)	11/20 (55.0%)	15/22 (68.2%)

Table 8. Nonneoplasms by Body System for Interim Sacrifice Males Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
	Terminal Incidence	11/20 (55.0%)	13/20 (65.0%)	9/19 (47.4%)	13/19 (68.4%)	11/20 (55.0%)	15/22 (68.2%)
	Time-to-First	364 (T)	361 (T)	363 (T)	363 (T)	362 (T)	362 (T)
	CAFE P-Value	0.268	0.374	0.376N	0.298	0.624N	0.288
	Severity Profile	11 0 0 0	13 0 0 0	9 0 0 0	13 0 0 0	11 0 0 0	15 0 0 0
	JT/SW P-Value	0.249	0.262	0.583	0.255	0.445	0.262
	RTE P-Value	0.259	0.262	0.262N	0.192	0.500	0.201
Liver * Tension Lipidosis	Simple Incidence	1/20 (5.0%)	0/20 (0.0%)	3/20 (15.0%)	2/19 (10.5%)	1/20 (5.0%)	2/22 (9.1%)
	Terminal Incidence	1/20 (5.0%)	0/20 (0.0%)	3/19 (15.8%)	2/19 (10.5%)	1/20 (5.0%)	2/22 (9.1%)
	Time-to-First	365 (T)	----	363 (T)	364 (T)	363 (T)	364 (T)
	CAFE P-Value	0.300	0.500N	0.302	0.480	0.756	0.537
	Severity Profile	0 1 0 0	---	0 1 1 1	0 0 2 0	0 0 1 0	0 0 2 0
	JT/SW P-Value	0.251	0.841	0.115	0.215	0.331	0.352
	RTE P-Value	0.250	0.287N	0.087	0.186	0.484	0.294
Liver * Vacuolization Cytoplasmic	Simple Incidence	6/20 (30.0%)	5/20 (25.0%)	10/20 (50.0%)	5/19 (26.3%)	4/20 (20.0%)	8/22 (36.4%)
	Terminal Incidence	6/20 (30.0%)	5/20 (25.0%)	10/19 (52.6%)	5/19 (26.3%)	4/20 (20.0%)	8/22 (36.4%)
	Time-to-First	360 (T)	364 (T)	363 (T)	364 (T)	365 (T)	363 (T)
	CAFE P-Value	0.504N	0.500N	0.167	0.540N	0.358N	0.457
	Severity Profile	4 2 0 0	3 2 0 0	5 5 0 0	3 2 0 0	3 1 0 0	6 2 0 0
	JT/SW P-Value	0.444N	0.378N	0.803N	0.531N	0.323N	0.572N
	RTE P-Value	0.424N	0.384N	0.064	0.419N	0.243N	0.357
Pancreas * Degeneration,Acinus	Simple Incidence	18/20 (90.0%)	19/20 (95.0%)	12/20 (60.0%)	17/19 (89.5%)	18/20 (90.0%)	20/22 (90.9%)
	Terminal Incidence	18/20 (90.0%)	19/20 (95.0%)	12/19 (63.2%)	17/19 (89.5%)	18/20 (90.0%)	20/22 (90.9%)
	Time-to-First	360 (T)	361 (T)	363 (T)	363 (T)	363 (T)	363 (T)
	CAFE P-Value	0.404	0.500	0.032N*	0.678N	0.698N	0.659
	Severity Profile	2 9 5 2	3 9 4 3	3 5 3 1	5 6 4 2	3 8 7 0	8 8 3 1
	JT/SW P-Value	0.109N	0.563N	0.019N* ¹	0.102N	0.191N	0.089N
	RTE P-Value	0.102N	0.428	0.009N**	0.255N	0.371N	0.065N
Pancreas * Pigmentation	Simple Incidence	11/20 (55.0%)	8/20 (40.0%)	9/20 (45.0%)	8/19 (42.1%)	8/20 (40.0%)	10/22 (45.5%)
	Terminal Incidence	11/20 (55.0%)	8/20 (40.0%)	9/19 (47.4%)	8/19 (42.1%)	8/20 (40.0%)	10/22 (45.5%)
	Time-to-First	360 (T)	363 (T)	363 (T)	363 (T)	363 (T)	364 (T)
	CAFE P-Value	0.318N	0.264N	0.376N	0.314N	0.264N	0.379N
	Severity Profile	5 6 0 0	8 0 0 0	6 3 0 0	6 2 0 0	8 0 0 0	7 3 0 0
	JT/SW P-Value	0.203N	0.053N	0.120N	0.136N	0.064N	0.125N

Table 8. Nonneoplasms by Body System for Interim Sacrifice Males Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
	RTE P-Value	0.196N	0.058N	0.175N	0.122N	0.057N	0.163N
Cardiovascular System							
Heart * Cardiomyopathy	Simple Incidence	17/20 (85.0%)	20/20 (100.0%)	19/20 (95.0%)	13/19 (68.4%)	18/20 (90.0%)	19/22 (86.4%)
	Terminal Incidence	17/20 (85.0%)	20/20 (100.0%)	19/19 (100.0%)	13/19 (68.4%)	18/20 (90.0%)	19/22 (86.4%)
	Time-to-First	360 (T)	361 (T)	363 (T)	363 (T)	362 (T)	362 (T)
	CAFE P-Value	0.242N	0.115	0.302	0.199N	0.500	0.620
	Severity Profile	12 3 2 0	10 7 2 1	7 7 3 2	10 3 0 0	14 3 1 0	9 8 2 0
	JT/SW P-Value	0.258N	0.971N	0.994N	0.148N	0.329N	0.609N
	RTE P-Value	0.201N	0.027 *	0.006 **	0.098N	0.441N	0.150
Endocrine System							
Adrenal Cortex * Vacuolization Cytoplasmic	Simple Incidence	2/20 (10.0%)	3/20 (15.0%)	3/20 (15.0%)	3/19 (15.8%)	3/20 (15.0%)	2/22 (9.1%)
	Terminal Incidence	2/20 (10.0%)	3/20 (15.0%)	3/19 (15.8%)	3/19 (15.8%)	3/20 (15.0%)	2/22 (9.1%)
	Time-to-First	365 (T)	364 (T)	364 (T)	365 (T)	363 (T)	365 (T)
	CAFE P-Value	0.494N	0.500	0.500	0.475	0.500	0.659N
	Severity Profile	0 2 0 0	0 3 0 0	0 3 0 0	2 1 0 0	1 2 0 0	0 1 1 0
	JT/SW P-Value	0.455N	0.682N	0.764N	0.777N	0.795N	0.630N
	RTE P-Value	0.472N	0.322	0.322	0.341	0.343	0.484N
Parathyroid Gland * Hyperplasia	Simple Incidence	4/20 (20.0%)	9/20 (45.0%)	3/19 (15.8%)	7/19 (36.8%)	4/19 (21.1%)	8/22 (36.4%)
	Terminal Incidence	4/20 (20.0%)	9/20 (45.0%)	3/18 (16.7%)	7/19 (36.8%)	4/19 (21.1%)	8/22 (36.4%)
	Time-to-First	364 (T)	361 (T)	363 (T)	363 (T)	364 (T)	364 (T)
	CAFE P-Value	0.367	0.088	0.531N	0.209	0.622	0.204
	Severity Profile	1 2 1 0	7 1 1 0	1 2 0 0	5 2 0 0	4 0 0 0	1 6 1 0
	JT/SW P-Value	0.297	0.090	0.345	0.243	0.424	0.129
	RTE P-Value	0.324	0.084	0.355N	0.199	0.399N	0.098
Pituitary Gland * Cyst,Pars Distalis	Simple Incidence	1/20 (5.0%)	2/20 (10.0%)	0/20 (0.0%)	1/19 (5.3%)	0/20 (0.0%)	2/22 (9.1%)
	Terminal Incidence	1/20 (5.0%)	2/20 (10.0%)	0/19 (0.0%)	1/19 (5.3%)	0/20 (0.0%)	2/22 (9.1%)
	Time-to-First	364 (T)	364 (T)	----	364 (T)	----	365 (T)
	CAFE P-Value	0.526N	0.500	0.500N	0.744	0.500N	0.537
Pituitary Gland * Hyperplasia,Pars Distalis	Simple Incidence	8/20 (40.0%)	9/20 (45.0%)	3/20 (15.0%)	4/19 (21.1%)	4/20 (20.0%)	7/22 (31.8%)
	Terminal Incidence	8/20 (40.0%)	9/20 (45.0%)	3/19 (15.8%)	4/19 (21.1%)	4/20 (20.0%)	7/22 (31.8%)
	Time-to-First	361 (T)	361 (T)	363 (T)	364 (T)	364 (T)	364 (T)

Table 8. Nonneoplasms by Body System for Interim Sacrifice Males Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>				
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>
	CAFE P-Value	0.118N	0.500	0.078N	0.175N	0.150N
	Severity Profile	8 0 0 0	7 1 0 1	0 3 0 0	4 0 0 0	4 0 0 0
	JT/SW P-Value	0.115N	0.712N	0.139N	0.139N	0.122N
	RTE P-Value	0.093N	0.295	0.089N	0.105N	0.093N
Thyroid Gland * Hyperplasia,C-Cell	Simple Incidence	13/20 (65.0%)	9/20 (45.0%)	10/20 (50.0%)	11/19 (57.9%)	10/20 (50.0%)
	Terminal Incidence	13/20 (65.0%)	9/20 (45.0%)	10/19 (52.6%)	11/19 (57.9%)	10/20 (50.0%)
	Time-to-First	360 (T)	363 (T)	364 (T)	363 (T)	363 (T)
	CAFE P-Value	0.400N	0.170N	0.262N	0.450N	0.262N
	Severity Profile	5 7 1 0	1 4 4 0	6 2 2 0	3 7 1 0	7 2 1 0
	JT/SW P-Value	0.257N	0.365N	0.200N	0.354N	0.139N
	RTE P-Value	0.242N	0.303N	0.159N	0.414N	0.111N
Thyroid Gland * Hyperplasia,Follicular Cell	Simple Incidence	1/20 (5.0%)	1/20 (5.0%)	4/20 (20.0%)	1/19 (5.3%)	0/20 (0.0%)
	Terminal Incidence	1/20 (5.0%)	1/20 (5.0%)	4/19 (21.1%)	1/19 (5.3%)	0/20 (0.0%)
	Time-to-First	364 (T)	365 (T)	364 (T)	364 (T)	----
	CAFE P-Value	0.417	0.756	0.171	0.744	0.500N
	Severity Profile	0 0 1 0	0 0 1 0	0 1 3 0	0 0 1 0	---
	JT/SW P-Value	0.367	0.500	0.072	0.257	0.445
	RTE P-Value	0.391	0.500	0.061	0.488	0.281N
Thyroid Gland * Ultimobranchial Cyst	Simple Incidence	6/20 (30.0%)	3/20 (15.0%)	9/20 (45.0%)	5/19 (26.3%)	4/20 (20.0%)
	Terminal Incidence	6/20 (30.0%)	3/20 (15.0%)	9/19 (47.4%)	5/19 (26.3%)	4/20 (20.0%)
	Time-to-First	360 (T)	363 (T)	363 (T)	364 (T)	362 (T)
	CAFE P-Value	0.331N	0.225N	0.257	0.540N	0.358N
Genital System						
Epididymis * Exfoliated Germ Cell	Simple Incidence	0/20 (0.0%)	3/20 (15.0%)	1/20 (5.0%)	2/19 (10.5%)	1/20 (5.0%)
	Terminal Incidence	0/20 (0.0%)	3/20 (15.0%)	1/19 (5.3%)	2/19 (10.5%)	1/20 (5.0%)
	Time-to-First	----	361 (T)	364 (T)	363 (T)	365 (T)
	CAFE P-Value	0.516N	0.115	0.500	0.231	0.500
	Severity Profile	---	1 2 0 0	0 1 0 0	2 0 0 0	0 1 0 0
	JT/SW P-Value	0.462N	0.962N	0.821N	0.908N	0.864N
	RTE P-Value	0.474N	0.034 *	0.258	0.150	0.258
Epididymis * Hypospermia	Simple Incidence	1/20 (5.0%)	4/20 (20.0%)	2/20 (10.0%)	1/19 (5.3%)	3/20 (15.0%)
						1/22 (4.5%)

Table 8. Nonneoplasms by Body System for Interim Sacrifice Males Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
Epididymis * Infiltration Cellular,Lymphocyte	Terminal Incidence	1/20 (5.0%)	4/20 (20.0%)	2/19 (10.5%)	1/19 (5.3%)	3/20 (15.0%)	1/22 (4.5%)
	Time-to-First	360 (T)	361 (T)	364 (T)	365 (T)	362 (T)	364 (T)
	CAFE P-Value	0.368N	0.171	0.500	0.744	0.302	0.732N
	Severity Profile	0 0 0 1	0 0 0 4	0 0 0 2	0 0 0 1	0 0 0 3	0 0 0 1
	JT/SW P-Value	0.332N	0.922N	0.774N	0.629N	0.832N	0.626N
	RTE P-Value	0.346N	0.076	0.300	0.489	0.157	0.481N
	Simple Incidence	1/20 (5.0%)	1/20 (5.0%)	4/20 (20.0%)	1/19 (5.3%)	2/20 (10.0%)	2/22 (9.1%)
Prostate, Dorsal/Lateral Lobe * Infiltration Cellular,Lymphocyte	Terminal Incidence	1/20 (5.0%)	1/20 (5.0%)	4/19 (21.1%)	1/19 (5.3%)	2/20 (10.0%)	2/22 (9.1%)
	Time-to-First	365 (T)	364 (T)	364 (T)	364 (T)	365 (T)	363 (T)
	CAFE P-Value	0.388	0.756	0.171	0.744	0.500	0.537
	Severity Profile	1 0 0 0	1 0 0 0	4 0 0 0	1 0 0 0	2 0 0 0	2 0 0 0
	JT/SW P-Value	0.350	0.500	0.068	0.252	0.300	0.334
	RTE P-Value	0.349	0.500	0.079	0.489	0.293	0.324
	Simple Incidence	9/20 (45.0%)	5/20 (25.0%)	4/20 (20.0%)	8/18 (44.4%)	8/20 (40.0%)	6/22 (27.3%)
Prostate, Dorsal/Lateral Lobe * Inflammation,Suppurative	Terminal Incidence	9/20 (45.0%)	5/20 (25.0%)	3/19 (15.8%)	8/18 (44.4%)	8/20 (40.0%)	6/22 (27.3%)
	Time-to-First	363 (T)	361 (T)	131	363 (T)	364 (T)	364 (T)
	CAFE P-Value	0.420N	0.160N	0.088N	0.615N	0.500N	0.191N
	Severity Profile	9 0 0 0	4 1 0 0	3 1 0 0	8 0 0 0	5 3 0 0	6 0 0 0
	JT/SW P-Value	0.428N	0.124N	0.072N	0.231N	0.338N	0.167N
	RTE P-Value	0.455N	0.128N	0.076N	0.486N	0.495	0.124N
	Simple Incidence	18/20 (90.0%)	19/20 (95.0%)	16/20 (80.0%)	16/18 (88.9%)	19/20 (95.0%)	18/22 (81.8%)
Prostate, Ventral Lobe * Hyperplasia,Epithelium	Terminal Incidence	18/20 (90.0%)	19/20 (95.0%)	16/19 (84.2%)	16/18 (88.9%)	19/20 (95.0%)	18/22 (81.8%)
	Time-to-First	360 (T)	361 (T)	363 (T)	363 (T)	362 (T)	362 (T)
	CAFE P-Value	0.312N	0.500	0.331N	0.656N	0.500	0.380N
	Severity Profile	5 13 0 0	12 7 0 0	6 10 0 0	7 9 0 0	9 10 0 0	5 12 1 0
	JT/SW P-Value	0.457	0.937	0.923	0.892	0.872	0.812
	RTE P-Value	0.460	0.083N	0.146N	0.215N	0.262N	0.340N
	Simple Incidence	1/20 (5.0%)	1/20 (5.0%)	0/20 (0.0%)	2/18 (11.1%)	0/20 (0.0%)	0/22 (0.0%)
	Terminal Incidence	1/20 (5.0%)	1/20 (5.0%)	0/19 (0.0%)	2/18 (11.1%)	0/20 (0.0%)	0/22 (0.0%)
	Time-to-First	361 (T)	364 (T)	----	364 (T)	----	----
	CAFE P-Value	0.229N	0.756	0.500N	0.459	0.500N	0.476N
	Severity Profile	0 1 0 0	0 1 0 0	---	2 0 0 0	---	---
	JT/SW P-Value	0.171N	0.500N	0.229N	0.618N	0.277N	0.244N

Table 8. Nonneoplasms by Body System for Interim Sacrifice Males Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
	RTE P-Value	0.194N	0.500	0.104N	0.101	0.105N	0.140N
Prostate, Ventral Lobe * Infiltration Cellular,Lymphocyte	Simple Incidence	9/20 (45.0%)	8/20 (40.0%)	9/20 (45.0%)	9/18 (50.0%)	8/20 (40.0%)	9/22 (40.9%)
	Terminal Incidence	9/20 (45.0%)	8/20 (40.0%)	8/19 (42.1%)	9/18 (50.0%)	8/20 (40.0%)	9/22 (40.9%)
	Time-to-First	360 (T)	361 (T)	131	363 (T)	362 (T)	363 (T)
	CAFE P-Value	0.448N	0.500N	0.624	0.507	0.500N	0.517N
	Severity Profile	8 1 0 0	7 1 0 0	8 1 0 0	8 1 0 0	7 1 0 0	9 0 0 0
	JT/SW P-Value	0.384N	0.384N	0.519N	0.615N	0.501N	0.467N
	RTE P-Value	0.395N	0.384N	0.500	0.382	0.384N	0.351N
Prostate, Ventral Lobe * Inflammation,Suppurative	Simple Incidence	3/20 (15.0%)	2/20 (10.0%)	2/20 (10.0%)	6/18 (33.3%)	4/20 (20.0%)	2/22 (9.1%)
	Terminal Incidence	3/20 (15.0%)	2/20 (10.0%)	2/19 (10.5%)	6/18 (33.3%)	4/20 (20.0%)	2/22 (9.1%)
	Time-to-First	364 (T)	361 (T)	364 (T)	364 (T)	363 (T)	364 (T)
	CAFE P-Value	0.423	0.500N	0.500N	0.173	0.500	0.453N
	Severity Profile	2 1 0 0	2 0 0 0	2 0 0 0	6 0 0 0	4 0 0 0	2 0 0 0
	JT/SW P-Value	0.425	0.698	0.789	0.098	0.259	0.478
	RTE P-Value	0.385	0.310N	0.310N	0.082	0.359	0.278N
Testes * Degeneration,Seminiferous Tubule	Simple Incidence	6/20 (30.0%)	7/20 (35.0%)	9/20 (45.0%)	4/19 (21.1%)	9/20 (45.0%)	6/22 (27.3%)
	Terminal Incidence	6/20 (30.0%)	7/20 (35.0%)	9/19 (47.4%)	4/19 (21.1%)	9/20 (45.0%)	6/22 (27.3%)
	Time-to-First	360 (T)	361 (T)	363 (T)	363 (T)	362 (T)	363 (T)
	CAFE P-Value	0.477N	0.500	0.257	0.394N	0.257	0.557N
	Severity Profile	5 0 0 1	3 0 0 4	6 1 0 2	3 0 0 1	6 0 0 3	4 1 0 1
	JT/SW P-Value	0.437N	0.728N	0.872N	0.390N	0.764N	0.603N
	RTE P-Value	0.454N	0.263	0.149	0.308N	0.132	0.461N
Hematopoietic System							
Bone Marrow * Hyperplasia,Myeloid Cell	Simple Incidence	0/20 (0.0%)	0/20 (0.0%)	2/20 (10.0%)	0/19 (0.0%)	1/20 (5.0%)	0/22 (0.0%)
	Terminal Incidence	0/20 (0.0%)	0/20 (0.0%)	2/19 (10.5%)	0/19 (0.0%)	1/20 (5.0%)	0/22 (0.0%)
	Time-to-First	----	----	363 (T)	----	365 (T)	----
	CAFE P-Value	0.514		0.244		0.500	
	Severity Profile	---	---	0 0 1 1	---	0 0 1 0	---
	JT/SW P-Value	0.453	0.500	0.047 * 1	0.198	0.232	0.300
	RTE P-Value	0.433	0.500	0.020 *	0.500	0.165	0.500
Spleen * Hematopoietic Cell Proliferation	Simple Incidence	0/20 (0.0%)	1/20 (5.0%)	0/20 (0.0%)	0/19 (0.0%)	1/20 (5.0%)	2/22 (9.1%)

Table 8. Nonneoplasms by Body System for Interim Sacrifice Males Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
	Terminal Incidence	0/20 (0.0%)	1/20 (5.0%)	0/19 (0.0%)	0/19 (0.0%)	1/20 (5.0%)	2/22 (9.1%)
	Time-to-First	----	363 (T)	----	----	365 (T)	364 (T)
	CAFE P-Value	0.105	0.500			0.500	0.268
	Severity Profile	---	0 0 1 0	---	---	0 0 1 0	1 0 1 0
	JT/SW P-Value	0.079	0.159	0.323	0.406	0.173	0.067
	RTE P-Value	0.097	0.194	0.500	0.500	0.195	0.090
Spleen * Pigmentation	Simple Incidence	12/20 (60.0%)	14/20 (70.0%)	13/20 (65.0%)	18/19 (94.7%)	15/20 (75.0%)	18/22 (81.8%)
	Terminal Incidence	12/20 (60.0%)	14/20 (70.0%)	13/19 (68.4%)	18/19 (94.7%)	15/20 (75.0%)	18/22 (81.8%)
	Time-to-First	363 (T)	361 (T)	363 (T)	363 (T)	362 (T)	363 (T)
	CAFE P-Value	0.035 *	0.371	0.500	0.012 *	0.250	0.111
	Severity Profile	4 6 2 0	5 9 0 0	7 5 1 0	11 7 0 0	5 10 0 0	6 11 0 1
	JT/SW P-Value	0.068	0.398	0.577	0.241	0.298	0.148
	RTE P-Value	0.084	0.386	0.358N	0.225	0.256	0.115
Thymus * Atrophy	Simple Incidence	18/20 (90.0%)	19/20 (95.0%)	17/20 (85.0%)	18/19 (94.7%)	18/20 (90.0%)	21/22 (95.5%)
	Terminal Incidence	18/20 (90.0%)	19/20 (95.0%)	17/19 (89.5%)	18/19 (94.7%)	18/20 (90.0%)	21/22 (95.5%)
	Time-to-First	360 (T)	361 (T)	363 (T)	363 (T)	362 (T)	362 (T)
	CAFE P-Value	0.363	0.500	0.500N	0.520	0.698N	0.463
	Severity Profile	0 0 6 12	0 2 5 12	1 3 3 10	0 4 3 11	0 0 3 15	0 5 2 14
	JT/SW P-Value	0.333	0.525	0.792	0.761	0.299	0.497
	RTE P-Value	0.324	0.490N	0.146N	0.368N	0.231	0.473N
Integumentary System							
Mammary Gland * Hyperplasia,Lobular	Simple Incidence	0/19 (0.0%)	1/20 (5.0%)	2/20 (10.0%)	2/19 (10.5%)	0/17 (0.0%)	1/22 (4.5%)
	Terminal Incidence	0/19 (0.0%)	1/20 (5.0%)	1/19 (5.3%)	2/19 (10.5%)	0/17 (0.0%)	1/22 (4.5%)
	Time-to-First	----	363 (T)	131	365 (T)	----	365 (T)
	CAFE P-Value	0.464	0.513	0.256	0.243		0.537
	Severity Profile	---	1 0 0 0	1 1 0 0	1 1 0 0	---	1 0 0 0
	JT/SW P-Value	0.406	0.165	0.092	0.117	0.223	0.239
	RTE P-Value	0.423	0.246	0.073	0.078	0.500	0.261
Urinary System							
Kidney * Cyst,Cortex	Simple Incidence	2/20 (10.0%)	4/20 (20.0%)	6/20 (30.0%)	6/19 (31.6%)	6/20 (30.0%)	4/22 (18.2%)
	Terminal Incidence	2/20 (10.0%)	4/20 (20.0%)	6/19 (31.6%)	6/19 (31.6%)	6/20 (30.0%)	4/22 (18.2%)
	Time-to-First	364 (T)	364 (T)	363 (T)	364 (T)	362 (T)	362 (T)

Table 8. Nonneoplasms by Body System for Interim Sacrifice Males Bisphenol-A Stop Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
	CAFE P-Value	0.212	0.331	0.118	0.101	0.118	0.380
Kidney * Cyst,Renal Tubule	Simple Incidence	5/20 (25.0%)	4/20 (20.0%)	8/20 (40.0%)	6/19 (31.6%)	6/20 (30.0%)	8/22 (36.4%)
	Terminal Incidence	5/20 (25.0%)	4/20 (20.0%)	8/19 (42.1%)	6/19 (31.6%)	6/20 (30.0%)	8/22 (36.4%)
	Time-to-First	360 (T)	361 (T)	363 (T)	364 (T)	363 (T)	362 (T)
	CAFE P-Value	0.194	0.500N	0.250	0.460	0.500	0.323
Kidney * Nephropathy	Simple Incidence	19/20 (95.0%)	20/20 (100.0%)	19/20 (95.0%)	17/19 (89.5%)	20/20 (100.0%)	21/22 (95.5%)
	Terminal Incidence	19/20 (95.0%)	20/20 (100.0%)	19/19 (100.0%)	17/19 (89.5%)	20/20 (100.0%)	21/22 (95.5%)
	Time-to-First	360 (T)	361 (T)	363 (T)	363 (T)	362 (T)	362 (T)
	CAFE P-Value	0.519N	0.500	0.756N	0.480N	0.500	0.732
	Severity Profile	5 11 3 0	6 11 3 0	7 5 4 3	10 4 2 1	6 10 3 1	10 3 4 4
	JT/SW P-Value	0.458N	0.536N	0.699N	0.091N	0.382N	0.499N
	RTE P-Value	0.441N	0.454	0.353	0.078N	0.370	0.477

P-values for dose trend are presented in the "Control" column.

N indicates a negative trend or negative treatment comparison to control with corresponding lower-tail p-values.

¹ Nonsignificant SW test due to the assumption of monotonicity.

Table 9 Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
Alimentary System							
Liver * Basophilic Focus	Simple Incidence	1/23 (4.3%)	0/22 (0.0%)	0/22 (0.0%)	5/24 (20.8%)	0/20 (0.0%)	1/24 (4.2%)
	Terminal Incidence	1/21 (4.8%)	0/22 (0.0%)	0/21 (0.0%)	5/22 (22.7%)	0/20 (0.0%)	1/24 (4.2%)
	Time-to-First	362 (T)	----	----	362 (T)	----	361 (T)
	CAFE P-Value	0.332	0.511N	0.511N	0.104	0.535N	0.745N
Liver * Fatty Change	Simple Incidence	2/23 (8.7%)	4/22 (18.2%)	2/22 (9.1%)	1/24 (4.2%)	0/20 (0.0%)	1/24 (4.2%)
	Terminal Incidence	2/21 (9.5%)	4/22 (18.2%)	2/21 (9.5%)	1/22 (4.5%)	0/20 (0.0%)	1/24 (4.2%)
	Time-to-First	362 (T)	361 (T)	360 (T)	361 (T)	----	361 (T)
	CAFE P-Value	0.052N	0.311	0.679	0.484N	0.280N	0.484N
	Severity Profile	0 1 1 0	1 2 1 0	1 1 0 0	0 1 0 0	---	0 0 1 0
	JT/SW P-Value	0.042N*	0.806N	0.566N	0.370N	0.188N	0.269N
	RTE P-Value	0.039N*	0.122	0.495N	0.268N	0.097N	0.278N
Liver * Hepatodiaphragmatic Nodule	Simple Incidence	2/23 (8.7%)	2/22 (9.1%)	1/22 (4.5%)	2/24 (8.3%)	1/20 (5.0%)	0/24 (0.0%)
	Terminal Incidence	2/21 (9.5%)	2/22 (9.1%)	1/21 (4.8%)	2/22 (9.1%)	1/20 (5.0%)	0/24 (0.0%)
	Time-to-First	359 (T)	361 (T)	363 (T)	361 (T)	362 (T)	----
	CAFE P-Value	0.124N	0.679	0.517N	0.679N	0.554N	0.234N
Liver * Hyperplasia,Bile Duct	Simple Incidence	3/23 (13.0%)	6/22 (27.3%)	5/22 (22.7%)	5/24 (20.8%)	3/20 (15.0%)	2/24 (8.3%)
	Terminal Incidence	3/21 (14.3%)	6/22 (27.3%)	5/21 (23.8%)	4/22 (18.2%)	3/20 (15.0%)	2/24 (8.3%)
	Time-to-First	362 (T)	360 (T)	362 (T)	322	362 (T)	361 (T)
	CAFE P-Value	0.196N	0.207	0.324	0.375	0.597	0.479N
	Severity Profile	3 0 0 0	4 2 0 0	3 2 0 0	4 1 0 0	3 0 0 0	1 1 0 0
	JT/SW P-Value	0.184N	0.898N	0.886N	0.863N	0.701N	0.493N
	RTE P-Value	0.185N	0.086	0.161	0.235	0.437	0.370N
Liver * Infiltration Cellular,Mononuclear Cell	Simple Incidence	4/23 (17.4%)	6/22 (27.3%)	4/22 (18.2%)	5/24 (20.8%)	5/20 (25.0%)	4/24 (16.7%)
	Terminal Incidence	4/21 (19.0%)	6/22 (27.3%)	4/21 (19.0%)	5/22 (22.7%)	5/20 (25.0%)	4/24 (16.7%)
	Time-to-First	362 (T)	361 (T)	362 (T)	361 (T)	363 (T)	362 (T)
	CAFE P-Value	0.471N	0.331	0.624	0.529	0.405	0.625N
	Severity Profile	4 0 0 0	5 1 0 0	4 0 0 0	5 0 0 0	5 0 0 0	4 0 0 0
	JT/SW P-Value	0.432N	0.802N	0.610N	0.694N	0.759N	0.621N
	RTE P-Value	0.442N	0.174	0.475	0.389	0.275	0.476N

Table 9 Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>				
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>
Liver * Mixed Cell Focus	Simple Incidence	0/23 (0.0%)	0/22 (0.0%)	0/22 (0.0%)	2/24 (8.3%)	0/20 (0.0%)
	Terminal Incidence	0/21 (0.0%)	0/22 (0.0%)	0/21 (0.0%)	1/22 (4.5%)	0/20 (0.0%)
	Time-to-First	----	----	----	256	----
	CAFE P-Value	0.417			0.255	
Liver * Tension Lipidosis	Simple Incidence	3/23 (13.0%)	3/22 (13.6%)	2/22 (9.1%)	2/24 (8.3%)	1/20 (5.0%)
	Terminal Incidence	2/21 (9.5%)	3/22 (13.6%)	2/21 (9.5%)	2/22 (9.1%)	1/20 (5.0%)
	Time-to-First	307	358 (T)	361 (T)	362 (T)	363 (T)
	CAFE P-Value	0.094N	0.646	0.522N	0.479N	0.359N
	Severity Profile	0 2 1 0	0 1 1 1	0 1 0 1	0 1 1 0	0 0 1 0
	JT/SW P-Value	0.078N	0.554N	0.431N	0.399N	0.272N
Liver * Vacuolization Cytoplasmic	Simple Incidence	2/23 (8.7%)	1/22 (4.5%)	1/22 (4.5%)	1/24 (4.2%)	1/20 (5.0%)
	Terminal Incidence	2/21 (9.5%)	1/22 (4.5%)	1/21 (4.8%)	1/22 (4.5%)	1/20 (5.0%)
	Time-to-First	360 (T)	361 (T)	362 (T)	363 (T)	363 (T)
	CAFE P-Value	0.328N	0.517N	0.517N	0.484N	0.554N
	Severity Profile	2 0 0 0	1 0 0 0	1 0 0 0	1 0 0 0	0 1 0 0
	JT/SW P-Value	0.292N	0.291N	0.334N	0.319N	0.370N
Pancreas * Degeneration,Acinus	Simple Incidence	13/23 (56.5%)	13/22 (59.1%)	14/22 (63.6%)	19/24 (79.2%)	13/20 (65.0%)
	Terminal Incidence	12/21 (57.1%)	13/22 (59.1%)	14/21 (66.7%)	17/22 (77.3%)	13/20 (65.0%)
	Time-to-First	56	358 (T)	360 (T)	256	362 (T)
	CAFE P-Value	0.067	0.551	0.428	0.088	0.400
	Severity Profile	5 5 2 1	7 4 1 1	7 6 0 1	8 7 4 0	6 5 1 1
	JT/SW P-Value	0.044 *	0.567	0.554	0.119	0.276
Pancreas * Infiltration Cellular,Lymphocyte	Simple Incidence	0/23 (0.0%)	2/22 (9.1%)	0/22 (0.0%)	0/24 (0.0%)	1/20 (5.0%)
	Terminal Incidence	0/21 (0.0%)	2/22 (9.1%)	0/21 (0.0%)	0/22 (0.0%)	1/20 (5.0%)
	Time-to-First	----	361 (T)	----	----	361 (T)
	CAFE P-Value	0.374N	0.233			0.465
	Severity Profile	---	1 0 1 0	---	---	1 0 0 0
	JT/SW P-Value	0.303N	0.928N	0.583N	0.618N	0.760N
	RTE P-Value	0.314N	0.007 **	0.500	0.500	0.138
						0.500

Table 9 Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
Cardiovascular System							
Heart * Cardiomyopathy	Simple Incidence	7/23 (30.4%)	10/22 (45.5%)	9/22 (40.9%)	8/24 (33.3%)	9/20 (45.0%)	7/24 (29.2%)
	Terminal Incidence	7/21 (33.3%)	10/22 (45.5%)	8/21 (38.1%)	7/22 (31.8%)	9/20 (45.0%)	7/24 (29.2%)
	Time-to-First	360 (T)	358 (T)	311	322	361 (T)	361 (T)
	CAFE P-Value	0.431N	0.233	0.337	0.540	0.252	0.588N
	Severity Profile	6 1 0 0	8 2 0 0	7 2 0 0	8 0 0 0	8 1 0 0	6 1 0 0
	JT/SW P-Value	0.378N	0.856N	0.857N	0.651N	0.814N	0.608N
	RTE P-Value	0.397N	0.140	0.215	0.469	0.177	0.465N
Endocrine System							
Adrenal Cortex * Degeneration,Cystic	Simple Incidence	2/23 (8.7%)	2/22 (9.1%)	3/22 (13.6%)	2/24 (8.3%)	2/20 (10.0%)	2/24 (8.3%)
	Terminal Incidence	2/21 (9.5%)	2/22 (9.1%)	3/21 (14.3%)	2/22 (9.1%)	2/20 (10.0%)	2/24 (8.3%)
	Time-to-First	362 (T)	360 (T)	361 (T)	362 (T)	363 (T)	362 (T)
	CAFE P-Value	0.497N	0.679	0.478	0.679N	0.641	0.679N
	Severity Profile	1 0 1 0	0 2 0 0	1 1 0 1	0 1 0 1	0 1 1 0	1 0 1 0
	JT/SW P-Value	0.471N	0.518N	0.706N	0.620N	0.672N	0.630N
	RTE P-Value	0.476N	0.483	0.288	0.498	0.432	0.484N
Adrenal Cortex * Vacuolization Cytoplasmic	Simple Incidence	2/23 (8.7%)	0/22 (0.0%)	1/22 (4.5%)	0/24 (0.0%)	0/20 (0.0%)	0/24 (0.0%)
	Terminal Incidence	1/21 (4.8%)	0/22 (0.0%)	1/21 (4.8%)	0/22 (0.0%)	0/20 (0.0%)	0/24 (0.0%)
	Time-to-First	56	----	363 (T)	----	----	----
	CAFE P-Value	0.045N*	0.256N	0.517N	0.234N	0.280N	0.234N
	Severity Profile	0 2 0 0	---	0 1 0 0	---	---	---
	JT/SW P-Value	0.031N*	0.081N	0.180N	0.059N	0.050N	0.027N*
	RTE P-Value	0.037N*	0.025N*	0.299N	0.031N*	0.017N*	0.031N*
Parathyroid Gland * Hyperplasia	Simple Incidence	2/23 (8.7%)	0/21 (0.0%)	3/20 (15.0%)	2/23 (8.7%)	1/20 (5.0%)	1/23 (4.3%)
	Terminal Incidence	1/21 (4.8%)	0/21 (0.0%)	3/20 (15.0%)	1/21 (4.8%)	1/20 (5.0%)	1/23 (4.3%)
	Time-to-First	56	----	362 (T)	322	363 (T)	361 (T)
	CAFE P-Value	0.422N	0.267N	0.431	0.696N	0.554N	0.500N
	Severity Profile	2 0 0 0	---	2 1 0 0	1 1 0 0	1 0 0 0	0 1 0 0
	JT/SW P-Value	0.394N	0.086N	0.522N	0.584N	0.430N	0.405N
	RTE P-Value	0.402N	0.141N	0.160	0.484	0.323N	0.301N
Pituitary Gland * Cyst.Pars Distalis	Simple Incidence	2/23 (8.7%)	0/22 (0.0%)	0/22 (0.0%)	2/24 (8.3%)	1/20 (5.0%)	2/24 (8.3%)

Table 9 Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
	Terminal Incidence	2/21 (9.5%)	0/22 (0.0%)	0/21 (0.0%)	2/22 (9.1%)	1/20 (5.0%)	2/24 (8.3%)
	Time-to-First	360 (T)	----	----	362 (T)	363 (T)	361 (T)
	CAFE P-Value	0.332	0.256N	0.256N	0.679N	0.554N	0.679N
Pituitary Gland * Hyperplasia,Pars Distalis	Simple Incidence	18/23 (78.3%)	17/22 (77.3%)	18/22 (81.8%)	15/24 (62.5%)	16/20 (80.0%)	20/24 (83.3%)
	Terminal Incidence	17/21 (81.0%)	17/22 (77.3%)	17/21 (81.0%)	15/22 (68.2%)	16/20 (80.0%)	20/24 (83.3%)
	Time-to-First	307	356 (T)	311	360 (T)	361 (T)	361 (T)
	CAFE P-Value	0.448	0.609N	0.530	0.195N	0.595	0.471
	Severity Profile	8 6 3 1	7 6 3 1	7 4 5 2	8 4 2 1	8 6 1 1	7 8 4 1
	JT/SW P-Value	0.451	0.477	0.273	0.684	0.708	0.355
	RTE P-Value	0.474	0.478	0.232	0.118N	0.413N	0.263
Thyroid Gland * Hyperplasia,C-Cell	Simple Incidence	14/23 (60.9%)	11/22 (50.0%)	15/21 (71.4%)	12/24 (50.0%)	8/20 (40.0%)	16/24 (66.7%)
	Terminal Incidence	14/21 (66.7%)	11/22 (50.0%)	15/21 (71.4%)	11/22 (50.0%)	8/20 (40.0%)	16/24 (66.7%)
	Time-to-First	359 (T)	356 (T)	360 (T)	322	361 (T)	361 (T)
	CAFE P-Value	0.457N	0.333N	0.338	0.325N	0.145N	0.456
	Severity Profile	8 6 0 0	9 2 0 0	12 3 0 0	9 3 0 0	4 3 1 0	12 3 1 0
	JT/SW P-Value	0.423N	0.126N	0.343N	0.174N	0.145N	0.309N
	RTE P-Value	0.408N	0.126N	0.443	0.140N	0.114N	0.492
Thyroid Gland * Ultimobranchial Cyst	Simple Incidence	7/23 (30.4%)	7/22 (31.8%)	5/21 (23.8%)	8/24 (33.3%)	6/20 (30.0%)	11/24 (45.8%)
	Terminal Incidence	7/21 (33.3%)	7/22 (31.8%)	5/21 (23.8%)	8/22 (36.4%)	6/20 (30.0%)	11/24 (45.8%)
	Time-to-First	361 (T)	358 (T)	362 (T)	361 (T)	361 (T)	361 (T)
	CAFE P-Value	0.166	0.587	0.440N	0.540	0.619N	0.216
Genital System							
Ovary * Atrophy	Simple Incidence	10/23 (43.5%)	7/22 (31.8%)	9/22 (40.9%)	14/24 (58.3%)	11/20 (55.0%)	11/24 (45.8%)
	Terminal Incidence	10/21 (47.6%)	7/22 (31.8%)	8/21 (38.1%)	13/22 (59.1%)	11/20 (55.0%)	11/24 (45.8%)
	Time-to-First	361 (T)	356 (T)	311	322	361 (T)	361 (T)
	CAFE P-Value	0.153	0.309N	0.551N	0.234	0.327	0.552
	Severity Profile	1 4 0 5	0 3 0 4	0 2 0 7	6 4 0 4	2 1 0 8	0 2 0 9
	JT/SW P-Value	0.096	0.748	0.514	0.430	0.226	0.299
	RTE P-Value	0.091	0.267N	0.432	0.350	0.173	0.283
Ovary * Cyst	Simple Incidence	1/23 (4.3%)	0/22 (0.0%)	2/22 (9.1%)	0/24 (0.0%)	1/20 (5.0%)	0/24 (0.0%)
	Terminal Incidence	1/21 (4.8%)	0/22 (0.0%)	2/21 (9.5%)	0/22 (0.0%)	1/20 (5.0%)	0/24 (0.0%)

Table 9 Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>				
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>
	Time-to-First	362 (T)	----	361 (T)	----	362 (T)
	CAFE P-Value	0.334N	0.511N	0.483	0.489N	0.720
Ovary * Cyst,Bursa	Simple Incidence	0/23 (0.0%)	0/22 (0.0%)	3/22 (13.6%)	2/24 (8.3%)	1/20 (5.0%)
	Terminal Incidence	0/21 (0.0%)	0/22 (0.0%)	3/21 (14.3%)	2/22 (9.1%)	1/20 (5.0%)
	Time-to-First	----	----	361 (T)	362 (T)	361 (T)
	CAFE P-Value	0.056		0.109	0.255	0.465
Ovary * Cyst,Corpus Luteum	Simple Incidence	0/23 (0.0%)	0/22 (0.0%)	0/22 (0.0%)	0/24 (0.0%)	2/20 (10.0%)
	Terminal Incidence	0/21 (0.0%)	0/22 (0.0%)	0/21 (0.0%)	0/22 (0.0%)	2/20 (10.0%)
	Time-to-First	----	----	----	----	363 (T)
	CAFE P-Value	0.047 *				0.210
Ovary * Cyst,Follicle	Simple Incidence	8/23 (34.8%)	4/22 (18.2%)	10/22 (45.5%)	5/24 (20.8%)	10/20 (50.0%)
	Terminal Incidence	8/21 (38.1%)	4/22 (18.2%)	9/21 (42.9%)	5/22 (22.7%)	10/20 (50.0%)
	Time-to-First	361 (T)	356 (T)	311	361 (T)	361 (T)
	CAFE P-Value	0.083	0.179N	0.335	0.229N	0.242
Ovary * Depletion,Corpus Luteum	Simple Incidence	4/23 (17.4%)	4/22 (18.2%)	7/22 (31.8%)	4/24 (16.7%)	8/20 (40.0%)
	Terminal Incidence	4/21 (19.0%)	4/22 (18.2%)	6/21 (28.6%)	4/22 (18.2%)	8/20 (40.0%)
	Time-to-First	362 (T)	356 (T)	311	361 (T)	361 (T)
	CAFE P-Value	0.032 *	0.624	0.219	0.625N	0.095
Ovary * Diestrus	Simple Incidence	15/23 (65.2%)	12/22 (54.5%)	8/22 (36.4%)	12/24 (50.0%)	8/20 (40.0%)
	Terminal Incidence	14/21 (66.7%)	12/22 (54.5%)	8/21 (38.1%)	10/22 (45.5%)	8/20 (40.0%)
	Time-to-First	56	360 (T)	360 (T)	256	361 (T)
	CAFE P-Value	0.031N*	0.335N	0.050N	0.224N	0.089N
Ovary * Hypertrophy,Interstitial Cell	Simple Incidence	4/23 (17.4%)	4/22 (18.2%)	6/22 (27.3%)	3/24 (12.5%)	8/20 (40.0%)
	Terminal Incidence	4/21 (19.0%)	4/22 (18.2%)	5/21 (23.8%)	2/22 (9.1%)	8/20 (40.0%)
	Time-to-First	362 (T)	356 (T)	311	322	361 (T)
	CAFE P-Value	0.030 *	0.624	0.331	0.475N	0.095
	Severity Profile	0 4 0 0	0 3 1 0	0 2 4 0	0 0 2 1	0 6 2 0
	JT/SW P-Value	0.038 *	0.446	0.174	0.428	0.049 * ¹
	RTE P-Value	0.031 *	0.445	0.154	0.462N	0.042 *
Ovary * Metestrus	Simple Incidence	3/23 (13.0%)	3/22 (13.6%)	4/22 (18.2%)	6/24 (25.0%)	1/20 (5.0%)
						5/24 (20.8%)

Table 9 Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>				
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>
Ovary * Proestrus	Terminal Incidence	2/21 (9.5%)	3/22 (13.6%)	4/21 (19.0%)	6/22 (27.3%)	1/20 (5.0%)
	Time-to-First	307	361 (T)	360 (T)	360 (T)	362 (T)
	CAFE P-Value	0.373	0.646	0.474	0.253	0.359N
	Simple Incidence	1/23 (4.3%)	3/22 (13.6%)	3/22 (13.6%)	1/24 (4.2%)	3/20 (15.0%)
Uterus * Apoptosis	Terminal Incidence	1/21 (4.8%)	3/22 (13.6%)	3/21 (14.3%)	1/22 (4.5%)	3/20 (15.0%)
	Time-to-First	364 (T)	360 (T)	362 (T)	362 (T)	361 (T)
	CAFE P-Value	0.292N	0.287	0.287	0.745N	0.252
	Severity Profile	0 0 0 2	0 0 0 1	0 1 1 2	0 1 0 4	0 0 3 2
Uterus * Cyst,Endometrium	JT/SW P-Value	0.003 **	0.709	0.181	0.147	0.112
	RTE P-Value	0.003 **	0.350N	0.219	0.142	0.103
	Simple Incidence	0/23 (0.0%)	1/22 (4.5%)	1/21 (4.8%)	3/24 (12.5%)	0/20 (0.0%)
	Terminal Incidence	0/21 (0.0%)	1/22 (4.5%)	1/21 (4.8%)	3/22 (13.6%)	0/20 (0.0%)
Uterus * Diestrus	Time-to-First	----	356 (T)	363 (T)	360 (T)	----
	CAFE P-Value	0.496N	0.489	0.477	0.125	----
	Simple Incidence	10/23 (43.5%)	12/22 (54.5%)	6/21 (28.6%)	11/24 (45.8%)	8/20 (40.0%)
	Terminal Incidence	9/21 (42.9%)	12/22 (54.5%)	6/21 (28.6%)	9/22 (40.9%)	8/20 (40.0%)
Uterus * Dilatation,Lumen	Time-to-First	56	360 (T)	360 (T)	256	361 (T)
	CAFE P-Value	0.052N	0.329	0.239N	0.552	0.532N
	Severity Profile	---	0 0 1 0	0 0 0 2	0 0 0 1	0 0 0 2
	JT/SW P-Value	0.142	0.153	0.075	0.114	0.175
Uterus * Estrus	RTE P-Value	0.159	0.274	0.132	0.120	0.247
	Simple Incidence	4/23 (17.4%)	2/22 (9.1%)	4/21 (19.0%)	5/24 (20.8%)	6/20 (30.0%)
	Terminal Incidence	4/21 (19.0%)	2/22 (9.1%)	4/21 (19.0%)	5/22 (22.7%)	6/20 (30.0%)
	Severity Profile	---	0 0 1 0	0 0 0 2	0 0 0 1	0 0 0 2

Table 9 Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>				
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>
	Time-to-First	362 (T)	358 (T)	361 (T)	361 (T)	362 (T)
	CAFE P-Value	0.014 *	0.354N	0.596	0.529	0.269
Uterus * Hyperplasia,Cystic,Endometrium	Simple Incidence	5/23 (21.7%)	1/22 (4.5%)	4/21 (19.0%)	3/24 (12.5%)	7/20 (35.0%)
	Terminal Incidence	5/21 (23.8%)	1/22 (4.5%)	4/21 (19.0%)	3/22 (13.6%)	7/20 (35.0%)
	Time-to-First	362 (T)	361 (T)	361 (T)	361 (T)	361 (T)
	CAFE P-Value	0.246	0.103N	0.562N	0.325N	0.265
	Severity Profile	1 2 1 1	1 0 0 0	1 2 1 0	1 1 1 0	0 6 1 0
	JT/SW P-Value	0.212	0.960	0.706	0.855	0.180
	RTE P-Value	0.178	0.051N	0.384N	0.175N	0.129
Uterus * Hyperplasia,Endometrium	Simple Incidence	2/23 (8.7%)	7/22 (31.8%)	5/21 (23.8%)	7/24 (29.2%)	5/20 (25.0%)
	Terminal Incidence	2/21 (9.5%)	7/22 (31.8%)	5/21 (23.8%)	6/22 (27.3%)	5/20 (25.0%)
	Time-to-First	362 (T)	360 (T)	360 (T)	256	361 (T)
	CAFE P-Value	0.417N	0.058	0.170	0.078	0.152
	Severity Profile	0 2 0 0	3 3 1 0	0 4 1 0	2 4 1 0	1 2 2 0
	JT/SW P-Value	0.431N	0.967N	0.950N	0.977N	0.973N
	RTE P-Value	0.437N	0.042 *	0.105	0.049 *	0.083
Uterus * Metaplasia,Squamous	Simple Incidence	1/23 (4.3%)	1/22 (4.5%)	4/21 (19.0%)	3/24 (12.5%)	3/20 (15.0%)
	Terminal Incidence	1/21 (4.8%)	1/22 (4.5%)	4/21 (19.0%)	3/22 (13.6%)	3/20 (15.0%)
	Time-to-First	362 (T)	361 (T)	361 (T)	361 (T)	361 (T)
	CAFE P-Value	0.037 *	0.744	0.145	0.321	0.252
	Severity Profile	0 1 0 0	0 1 0 0	3 1 0 0	3 0 0 0	2 0 1 0
	JT/SW P-Value	0.041 *	0.487	0.063	0.144	0.178
	RTE P-Value	0.044 *	0.491	0.093	0.226	0.165
Uterus * Metestrus	Simple Incidence	7/23 (30.4%)	4/22 (18.2%)	7/21 (33.3%)	7/24 (29.2%)	2/20 (10.0%)
	Terminal Incidence	6/21 (28.6%)	4/22 (18.2%)	7/21 (33.3%)	7/22 (31.8%)	2/20 (10.0%)
	Time-to-First	307	356 (T)	360 (T)	360 (T)	362 (T)
	CAFE P-Value	0.488N	0.272N	0.546	0.588N	0.101N
Uterus * Proestrus	Simple Incidence	2/23 (8.7%)	4/22 (18.2%)	3/21 (14.3%)	1/24 (4.2%)	4/20 (20.0%)
	Terminal Incidence	2/21 (9.5%)	4/22 (18.2%)	3/21 (14.3%)	1/22 (4.5%)	4/20 (20.0%)
	Time-to-First	364 (T)	360 (T)	360 (T)	362 (T)	361 (T)
	CAFE P-Value	0.462N	0.311	0.455	0.484N	0.266

Table 9 Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>				
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>
Vagina * Diestrus	Simple Incidence	11/23 (47.8%)	11/22 (50.0%)	7/21 (33.3%)	10/24 (41.7%)	9/20 (45.0%)
	Terminal Incidence	10/21 (47.6%)	11/22 (50.0%)	7/21 (33.3%)	9/22 (40.9%)	9/20 (45.0%)
	Time-to-First	56	360 (T)	360 (T)	256	361 (T)
	CAFE P-Value	0.124N	0.560	0.252N	0.448N	0.548N
Vagina * Estrus	Simple Incidence	3/23 (13.0%)	2/22 (9.1%)	3/21 (14.3%)	5/24 (20.8%)	7/20 (35.0%)
	Terminal Incidence	3/21 (14.3%)	2/22 (9.1%)	3/21 (14.3%)	5/22 (22.7%)	7/20 (35.0%)
	Time-to-First	362 (T)	358 (T)	363 (T)	361 (T)	361 (T)
	CAFE P-Value	0.003 **	0.522N	0.622	0.375	0.090
Vagina * Hyperplasia,Epithelium	Simple Incidence	3/23 (13.0%)	2/22 (9.1%)	2/21 (9.5%)	4/24 (16.7%)	6/20 (30.0%)
	Terminal Incidence	3/21 (14.3%)	2/22 (9.1%)	2/21 (9.5%)	4/22 (18.2%)	6/20 (30.0%)
	Time-to-First	362 (T)	358 (T)	363 (T)	361 (T)	362 (T)
	CAFE P-Value	0.008 **	0.522N	0.545N	0.525	0.162
	Severity Profile	0 1 2 0	0 1 1 0	0 1 1 0	0 0 4 0	0 1 5 0
	JT/SW P-Value	0.005 **	0.669	0.742	0.418	0.074
Vagina * Metestrus	RTE P-Value	0.005 **	0.360N	0.375N	0.343	0.067
	Simple Incidence	7/23 (30.4%)	5/22 (22.7%)	8/21 (38.1%)	8/24 (33.3%)	2/20 (10.0%)
	Terminal Incidence	6/21 (28.6%)	5/22 (22.7%)	8/21 (38.1%)	7/22 (31.8%)	2/20 (10.0%)
	Time-to-First	307	356 (T)	360 (T)	322	362 (T)
Vagina * Mucification,Epithelium	CAFE P-Value	0.422N	0.403N	0.414	0.540	0.101N
	Simple Incidence	10/23 (43.5%)	12/22 (54.5%)	7/21 (33.3%)	9/24 (37.5%)	7/20 (35.0%)
	Terminal Incidence	10/21 (47.6%)	12/22 (54.5%)	7/21 (33.3%)	8/22 (36.4%)	7/20 (35.0%)
	Time-to-First	360 (T)	358 (T)	360 (T)	256	361 (T)
	CAFE P-Value	0.123N	0.329	0.353N	0.452N	0.400N
	Severity Profile	0 6 1 3	0 7 4 1	0 0 3 4	0 1 5 3	0 0 2 5
	JT/SW P-Value	0.272N	0.720N	0.552N	0.607N	0.638N
Vagina * Proestrus	RTE P-Value	0.256N	0.317	0.447N	0.482N	0.471
	Simple Incidence	2/23 (8.7%)	4/22 (18.2%)	2/21 (9.5%)	1/24 (4.2%)	2/20 (10.0%)
	Terminal Incidence	2/21 (9.5%)	4/22 (18.2%)	2/21 (9.5%)	1/22 (4.5%)	2/20 (10.0%)
	Time-to-First	364 (T)	360 (T)	362 (T)	362 (T)	361 (T)
	CAFE P-Value	0.072N	0.311	0.661	0.484N	0.641
						0.234N

Table 9 Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
Hematopoietic System							
Spleen * Hematopoietic Cell Proliferation	Simple Incidence	3/23 (13.0%)	3/22 (13.6%)	2/22 (9.1%)	3/24 (12.5%)	1/20 (5.0%)	1/24 (4.2%)
	Terminal Incidence	2/21 (9.5%)	3/22 (13.6%)	1/21 (4.8%)	1/22 (4.5%)	1/20 (5.0%)	1/24 (4.2%)
	Time-to-First	56	356 (T)	311	256	361 (T)	361 (T)
	CAFE P-Value	0.118N	0.646	0.522N	0.646N	0.359N	0.288N
	Severity Profile	1 2 0 0	0 2 1 0	2 0 0 0	1 0 1 1	0 1 0 0	0 1 0 0
	JT/SW P-Value	0.107N	0.561N	0.381N	0.523N	0.276N	0.215N
	RTE P-Value	0.111N	0.447	0.314N	0.498	0.222N	0.191N
Spleen * Pigmentation							
Spleen * Pigmentation	Simple Incidence	22/23 (95.7%)	21/22 (95.5%)	20/22 (90.9%)	24/24 (100.0%)	19/20 (95.0%)	23/24 (95.8%)
	Terminal Incidence	21/21 (100.0%)	21/22 (95.5%)	19/21 (90.5%)	22/22 (100.0%)	19/20 (95.0%)	23/24 (95.8%)
	Time-to-First	307	356 (T)	311	256	361 (T)	361 (T)
	CAFE P-Value	0.451	0.744N	0.483N	0.489	0.720N	0.745
	Severity Profile	0 8 10 4	4 6 8 3	2 4 9 5	1 7 11 5	0 6 8 5	1 5 12 5
	JT/SW P-Value	0.123	0.851	0.601	0.430	0.439	0.421
	RTE P-Value	0.115	0.166N	0.493	0.339	0.331	0.314
Thymus * Atrophy							
Thymus * Atrophy	Simple Incidence	20/23 (87.0%)	20/22 (90.9%)	18/22 (81.8%)	21/24 (87.5%)	16/20 (80.0%)	22/24 (91.7%)
	Terminal Incidence	19/21 (90.5%)	20/22 (90.9%)	18/21 (85.7%)	20/22 (90.9%)	16/20 (80.0%)	22/24 (91.7%)
	Time-to-First	56	356 (T)	360 (T)	256	361 (T)	361 (T)
	CAFE P-Value	0.525	0.522	0.474N	0.646	0.418N	0.479
	Severity Profile	0 2 8 10	1 4 7 8	0 6 8 4	2 3 7 9	0 4 5 7	0 5 10 7
	JT/SW P-Value	0.263N	0.282N	0.035N* ¹	0.131N	0.170N	0.187N
	RTE P-Value	0.260N	0.287N	0.036N*	0.243N	0.156N	0.237N
Integumentary System							
Mammary Gland * Atypical Focus	Simple Incidence	0/23 (0.0%)	3/22 (13.6%)	2/22 (9.1%)	2/24 (8.3%)	0/20 (0.0%)	0/24 (0.0%)
	Terminal Incidence	0/21 (0.0%)	3/22 (13.6%)	2/21 (9.5%)	2/22 (9.1%)	0/20 (0.0%)	0/24 (0.0%)
	Time-to-First	----	358 (T)	362 (T)	362 (T)	----	----
	CAFE P-Value	0.186N	0.109	0.233	0.255		
	Severity Profile	---	1 2 0 0	0 2 0 0	2 0 0 0	---	---
	JT/SW P-Value	0.149N	0.965N	0.934N	0.931N	0.636N	0.648N
	RTE P-Value	0.133N	0.017 *	0.057	0.134	0.500	0.500
Mammary Gland * Dilatation,Duct	Simple Incidence	2/23 (8.7%)	2/22 (9.1%)	7/22 (31.8%)	1/24 (4.2%)	2/20 (10.0%)	2/24 (8.3%)
	Terminal Incidence	2/21 (9.5%)	2/22 (9.1%)	6/21 (28.6%)	1/22 (4.5%)	2/20 (10.0%)	2/24 (8.3%)

Table 9 Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>				
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>
	Time-to-First	362 (T)	358 (T)	311	362 (T)	362 (T)
	CAFE P-Value	0.348N	0.679	0.058	0.484N	0.641
	Severity Profile	1 1 0 0	0 0 0 2	2 4 1 0	0 0 1 0	1 0 1 0
	JT/SW P-Value	0.308N	0.555N	0.927N	0.447N	0.576N
	RTE P-Value	0.312N	0.428	0.010 **	0.338N	0.436
Mammary Gland * Hyperplasia,Lobular		Simple Incidence	10/23 (43.5%)	14/22 (63.6%)	13/22 (59.1%)	15/24 (62.5%)
		Terminal Incidence	10/21 (47.6%)	14/22 (63.6%)	12/21 (57.1%)	14/22 (63.6%)
		Time-to-First	361 (T)	356 (T)	311	256
		CAFE P-Value	0.355	0.145	0.227	0.155
		Severity Profile	5 5 0 0	7 7 0 0	7 6 0 0	11 3 1 0
		JT/SW P-Value	0.421N	0.894N	0.886N	0.889N
		RTE P-Value	0.444N	0.099	0.174	0.205
Urinary System		Simple Incidence	2/23 (8.7%)	4/22 (18.2%)	2/22 (9.1%)	4/24 (16.7%)
Kidney * Casts Protein		Terminal Incidence	1/21 (4.8%)	4/22 (18.2%)	2/21 (9.5%)	4/22 (18.2%)
		Time-to-First	307	361 (T)	360 (T)	361 (T)
		CAFE P-Value	0.348N	0.311	0.679	0.354
		Severity Profile	2 0 0 0	4 0 0 0	2 0 0 0	4 0 0 0
		JT/SW P-Value	0.341N	0.823N	0.601N	0.790N
		RTE P-Value	0.351N	0.168	0.484	0.204
Kidney * Cyst,Cortex		Simple Incidence	2/23 (8.7%)	2/22 (9.1%)	2/22 (9.1%)	4/24 (16.7%)
		Terminal Incidence	2/21 (9.5%)	2/22 (9.1%)	2/21 (9.5%)	3/22 (13.6%)
		Time-to-First	362 (T)	360 (T)	362 (T)	322
		CAFE P-Value	0.380	0.679	0.679	0.354
Kidney * Cyst,Renal Tubule		Simple Incidence	0/23 (0.0%)	7/22 (31.8%)	3/22 (13.6%)	3/24 (12.5%)
		Terminal Incidence	0/21 (0.0%)	7/22 (31.8%)	3/21 (14.3%)	3/22 (13.6%)
		Time-to-First	---	356 (T)	361 (T)	361 (T)
		CAFE P-Value	0.324N	0.004 **	0.109	0.125
Kidney * Mineralization		Simple Incidence	11/23 (47.8%)	5/22 (22.7%)	11/22 (50.0%)	12/24 (50.0%)
		Terminal Incidence	10/21 (47.6%)	5/22 (22.7%)	10/21 (47.6%)	11/22 (50.0%)
		Time-to-First	307	360 (T)	311	256
					361 (T)	361 (T)

Table 9 Nonneoplasms by Body System for Interim Sacrifice Females Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>				
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>
	CAFE P-Value	0.017 *	0.073N	0.560	0.557	0.435
	Severity Profile	11 0 0 0	3 1 1 0	7 2 1 1	11 1 0 0	8 3 0 0
	JT/SW P-Value	0.006 **	0.923	0.319	0.416	0.274
	RTE P-Value	0.006 **	0.124N	0.232	0.401	0.204
Kidney * Nephropathy	Simple Incidence	6/23 (26.1%)	7/22 (31.8%)	11/22 (50.0%)	8/24 (33.3%)	11/20 (55.0%)
	Terminal Incidence	5/21 (23.8%)	7/22 (31.8%)	10/21 (47.6%)	7/22 (31.8%)	11/20 (55.0%)
	Time-to-First	56	356 (T)	311	322	361 (T)
	CAFE P-Value	0.258	0.462	0.089	0.412	0.052
	Severity Profile	4 1 0 1	5 1 1 0	6 2 0 3	6 1 0 1	9 0 2 0
	JT/SW P-Value	0.236	0.355	0.045 * ¹	0.171	0.057
	RTE P-Value	0.213	0.372	0.036 *	0.334	0.048 *

P-values for dose trend are presented in the “Control” column.

N indicates a negative trend or negative treatment comparison to control with corresponding lower-tail p-values.

¹ Nonsignificant SW test due to the assumption of monotonicity.

Table 10. Nonneoplasms by Body System for Interim Sacrifice Males Bisphenol-A Continuous Dose Arm

System and Nonneoplasm	Lesion	Statistic	Treatment (ug/kg)				
			Control	2.5	25	250	2500
Alimentary System							
Liver * Basophilic Focus	Simple Incidence	1/22 (4.5%)	0/22 (0.0%)	3/20 (15.0%)	0/24 (0.0%)	0/19 (0.0%)	0/22 (0.0%)
	Terminal Incidence	1/18 (5.6%)	0/22 (0.0%)	3/18 (16.7%)	0/24 (0.0%)	0/18 (0.0%)	0/21 (0.0%)
	Time-to-First	363 (T)	----	360 (T)	----	----	----
	CAFE P-Value	0.162N	0.500N	0.267	0.478N	0.537N	0.500N
Liver * Clear Cell Focus	Simple Incidence	3/22 (13.6%)	1/22 (4.5%)	0/20 (0.0%)	1/24 (4.2%)	0/19 (0.0%)	1/22 (4.5%)
	Terminal Incidence	3/18 (16.7%)	1/22 (4.5%)	0/18 (0.0%)	1/24 (4.2%)	0/18 (0.0%)	1/21 (4.8%)
	Time-to-First	361 (T)	362 (T)	----	361 (T)	----	362 (T)
	CAFE P-Value	0.097N	0.303N	0.134N	0.271N	0.144N	0.303N
Liver * Degeneration,Cystic	Simple Incidence	2/22 (9.1%)	0/22 (0.0%)	1/20 (5.0%)	0/24 (0.0%)	1/19 (5.3%)	0/22 (0.0%)
	Terminal Incidence	2/18 (11.1%)	0/22 (0.0%)	1/18 (5.6%)	0/24 (0.0%)	1/18 (5.6%)	0/21 (0.0%)
	Time-to-First	362 (T)	----	361 (T)	----	360 (T)	----
	CAFE P-Value	0.162N	0.244N	0.537N	0.223N	0.556N	0.244N
	Severity Profile	2 0 0 0	---	1 0 0 0	---	1 0 0 0	---
	JT/SW P-Value	0.122N	0.076N	0.184N	0.056N	0.169N	0.053N
	RTE P-Value	0.147N	0.037N*	0.224N	0.036N*	0.242N	0.037N*
Liver * Eosinophilic Focus	Simple Incidence	1/22 (4.5%)	0/22 (0.0%)	1/20 (5.0%)	1/24 (4.2%)	2/19 (10.5%)	1/22 (4.5%)
	Terminal Incidence	1/18 (5.6%)	0/22 (0.0%)	1/18 (5.6%)	1/24 (4.2%)	2/18 (11.1%)	1/21 (4.8%)
	Time-to-First	361 (T)	----	361 (T)	362 (T)	360 (T)	362 (T)
	CAFE P-Value	0.266	0.500N	0.732	0.733N	0.444	0.756
Liver * Fatty Change	Simple Incidence	0/22 (0.0%)	0/22 (0.0%)	2/20 (10.0%)	0/24 (0.0%)	0/19 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	2/18 (11.1%)	0/24 (0.0%)	0/18 (0.0%)	0/21 (0.0%)
	Time-to-First	----	----	359 (T)	----	----	----
	CAFE P-Value	0.423N		0.221			
	Severity Profile	---	---	0 2 0 0	---	---	---
	JT/SW P-Value	0.342N	0.500N	0.882N	0.618N	0.636N	0.648N
	RTE P-Value	0.324N	0.500	0.012 *	0.500	0.500	0.500
Liver * Hepatodiaphragmatic Nodule	Simple Incidence	0/22 (0.0%)	2/22 (9.1%)	2/20 (10.0%)	3/24 (12.5%)	4/19 (21.1%)	1/22 (4.5%)
	Terminal Incidence	0/18 (0.0%)	2/22 (9.1%)	1/18 (5.6%)	3/24 (12.5%)	3/18 (16.7%)	1/21 (4.8%)
	Time-to-First	----	362 (T)	319	360 (T)	244	362 (T)
	CAFE P-Value	0.158	0.244	0.221	0.133	0.038 *	0.500

Table 10. Nonneoplasms by Body System for Interim Sacrifice Males Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>	<i>Lesion</i>	<i>Statistic</i>	<i>Treatment (ug/kg)</i>				
			<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>
Liver * Hyperplasia,Bile Duct	Simple Incidence	3/22 (13.6%)	6/22 (27.3%)	2/20 (10.0%)	6/24 (25.0%)	5/19 (26.3%)	1/22 (4.5%)
	Terminal Incidence	2/18 (11.1%)	6/22 (27.3%)	2/18 (11.1%)	6/24 (25.0%)	5/18 (27.8%)	1/21 (4.8%)
	Time-to-First	258	360 (T)	361 (T)	359 (T)	360 (T)	362 (T)
	CAFE P-Value	0.318N	0.228	0.547N	0.277	0.265	0.303N
	Severity Profile	2 0 1 0	3 3 0 0	2 0 0 0	5 1 0 0	4 1 0 0	0 1 0 0
	JT/SW P-Value	0.286N	0.865N	0.421N	0.743N	0.819N	0.303N
	RTE P-Value	0.300N	0.101	0.354N	0.183	0.163	0.223N
Liver * Infiltration Cellular,Mononuclear Cell	Simple Incidence	5/22 (22.7%)	11/22 (50.0%)	9/20 (45.0%)	13/24 (54.2%)	11/19 (57.9%)	8/22 (36.4%)
	Terminal Incidence	5/18 (27.8%)	11/22 (50.0%)	9/18 (50.0%)	13/24 (54.2%)	11/18 (61.1%)	8/21 (38.1%)
	Time-to-First	361 (T)	360 (T)	359 (T)	359 (T)	360 (T)	359 (T)
	CAFE P-Value	0.149	0.058	0.115	0.029 *	0.023 *	0.255
	Severity Profile	5 0 0 0	11 0 0 0	9 0 0 0	12 1 0 0	11 0 0 0	8 0 0 0
	JT/SW P-Value	0.130	0.032 * ¹	0.059	0.015 *	0.016 *	0.046 *
	RTE P-Value	0.128	0.034 *	0.080	0.012 *	0.015 *	0.165
Liver * Tension Lipidosis	Simple Incidence	1/22 (4.5%)	0/22 (0.0%)	3/20 (15.0%)	3/24 (12.5%)	2/19 (10.5%)	1/22 (4.5%)
	Terminal Incidence	1/18 (5.6%)	0/22 (0.0%)	3/18 (16.7%)	3/24 (12.5%)	2/18 (11.1%)	1/21 (4.8%)
	Time-to-First	362 (T)	----	361 (T)	362 (T)	362 (T)	361 (T)
	CAFE P-Value	0.305	0.500N	0.267	0.338	0.444	0.756
	Severity Profile	0 1 0 0	---	0 2 0 1	0 1 2 0	1 1 0 0	0 0 1 0
	JT/SW P-Value	0.270	0.841	0.094	0.156	0.228	0.302
	RTE P-Value	0.274	0.292N	0.083	0.139	0.254	0.486
Liver * Vacuolization Cytoplasmic	Simple Incidence	8/22 (36.4%)	1/22 (4.5%)	6/20 (30.0%)	11/24 (45.8%)	8/19 (42.1%)	8/22 (36.4%)
	Terminal Incidence	8/18 (44.4%)	1/22 (4.5%)	6/18 (33.3%)	11/24 (45.8%)	8/18 (44.4%)	8/21 (38.1%)
	Time-to-First	359 (T)	362 (T)	361 (T)	360 (T)	360 (T)	361 (T)
	CAFE P-Value	0.073	0.011N*	0.457N	0.363	0.478	0.623N
	Severity Profile	6 2 0 0	1 0 0 0	4 2 0 0	6 5 0 0	6 2 0 0	4 4 0 0
	JT/SW P-Value	0.050	0.995	0.755	0.245	0.352	0.419
	RTE P-Value	0.046 *	0.014N*	0.356N	0.191	0.353	0.417
Pancreas * Basophilic Focus	Simple Incidence	0/22 (0.0%)	0/22 (0.0%)	0/20 (0.0%)	2/24 (8.3%)	0/19 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/18 (0.0%)	2/24 (8.3%)	0/18 (0.0%)	0/21 (0.0%)
	Time-to-First	----	----	----	362 (T)	----	----
	CAFE P-Value	0.410				0.267	

Table 10. Nonneoplasms by Body System for Interim Sacrifice Males Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
Pancreas * Degeneration,Acinus	Simple Incidence	19/22 (86.4%)	21/22 (95.5%)	17/20 (85.0%)	23/24 (95.8%)	16/19 (84.2%)	19/22 (86.4%)
	Terminal Incidence	17/18 (94.4%)	21/22 (95.5%)	16/18 (88.9%)	23/24 (95.8%)	15/18 (83.3%)	19/21 (90.5%)
	Time-to-First	173	356 (T)	127	359 (T)	244	359 (T)
	CAFE P-Value	0.386N	0.303	0.620N	0.271	0.594N	0.668N
	Severity Profile	4 4 5 6	3 9 7 2	8 6 3 0	6 10 5 2	1 8 6 1	5 3 8 3
	JT/SW P-Value	0.358N	0.386N	0.010N* ¹	0.067N	0.133N	0.184N
	RTE P-Value	0.362N	0.452N	0.007N**	0.190N	0.267N	0.329N
Pancreas * Pigmentation	Simple Incidence	8/22 (36.4%)	7/22 (31.8%)	10/20 (50.0%)	13/24 (54.2%)	7/19 (36.8%)	11/22 (50.0%)
	Terminal Incidence	7/18 (38.9%)	7/22 (31.8%)	10/18 (55.6%)	13/24 (54.2%)	7/18 (38.9%)	11/21 (52.4%)
	Time-to-First	258	356 (T)	359 (T)	359 (T)	360 (T)	361 (T)
	CAFE P-Value	0.161	0.500N	0.281	0.180	0.614	0.272
	Severity Profile	6 2 0 0	5 2 0 0	9 1 0 0	13 0 0 0	6 1 0 0	8 3 0 0
	JT/SW P-Value	0.164	0.611	0.286	0.250	0.400	0.229
	RTE P-Value	0.176	0.393N	0.246	0.203	0.470N	0.178
Cardiovascular System							
Heart * Cardiomyopathy	Simple Incidence	16/22 (72.7%)	16/22 (72.7%)	16/20 (80.0%)	18/24 (75.0%)	15/20 (75.0%)	20/22 (90.9%)
	Terminal Incidence	14/18 (77.8%)	16/22 (72.7%)	15/18 (83.3%)	18/24 (75.0%)	14/18 (77.8%)	20/21 (95.2%)
	Time-to-First	258	356 (T)	319	360 (T)	300	359 (T)
	CAFE P-Value	0.116	0.632N	0.426	0.563	0.574	0.120
	Severity Profile	11 4 1 0	11 3 2 0	11 5 0 0	11 4 2 1	14 1 0 0	15 4 0 1
	JT/SW P-Value	0.326	0.475	0.422	0.383	0.596	0.240
	RTE P-Value	0.352	0.477	0.346	0.297	0.231N	0.178
Endocrine System							
Adrenal Cortex * Vacuolization Cytoplasmic	Simple Incidence	0/22 (0.0%)	3/22 (13.6%)	1/20 (5.0%)	2/24 (8.3%)	0/20 (0.0%)	2/22 (9.1%)
	Terminal Incidence	0/18 (0.0%)	3/22 (13.6%)	1/18 (5.6%)	2/24 (8.3%)	0/18 (0.0%)	2/21 (9.5%)
	Time-to-First	----	361 (T)	362 (T)	362 (T)	----	362 (T)
	CAFE P-Value	0.453	0.116	0.476	0.267		0.244
	Severity Profile	---	0 3 0 0	0 1 0 0	1 1 0 0	---	1 0 1 0
	JT/SW P-Value	0.416	0.038 * ¹	0.122	0.142	0.216	0.139
	RTE P-Value	0.431	0.031 *	0.250	0.141	0.500	0.109
Parathyroid Gland * Hyperplasia	Simple Incidence	7/22 (31.8%)	5/21 (23.8%)	7/19 (36.8%)	5/24 (20.8%)	2/19 (10.5%)	2/21 (9.5%)

Table 10. Nonneoplasms by Body System for Interim Sacrifice Males Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
	Terminal Incidence	7/18 (38.9%)	5/21 (23.8%)	7/17 (41.2%)	5/24 (20.8%)	2/17 (11.8%)	2/21 (9.5%)
	Time-to-First	361 (T)	356 (T)	360 (T)	359 (T)	361 (T)	361 (T)
	CAFE P-Value	0.018N*	0.404N	0.496	0.305N	0.102N	0.076N
	Severity Profile	3 4 0 0	2 3 0 0	3 3 1 0	1 4 0 0	0 2 0 0	1 1 0 0
	JT/SW P-Value	0.019N*	0.289N	0.547N	0.309N	0.097N	0.055N
	RTE P-Value	0.019N*	0.273N	0.333	0.216N	0.064N	0.045N*
Pituitary Gland * Cyst,Pars Distalis	Simple Incidence	1/22 (4.5%)	0/22 (0.0%)	0/20 (0.0%)	3/24 (12.5%)	1/20 (5.0%)	2/22 (9.1%)
	Terminal Incidence	1/18 (5.6%)	0/22 (0.0%)	0/18 (0.0%)	3/24 (12.5%)	1/18 (5.6%)	2/21 (9.5%)
	Time-to-First	361 (T)	----	----	362 (T)	362 (T)	359 (T)
	CAFE P-Value	0.129	0.500N	0.524N	0.338	0.732	0.500
Pituitary Gland * Hyperplasia,Pars Distalis	Simple Incidence	4/22 (18.2%)	6/22 (27.3%)	2/20 (10.0%)	4/24 (16.7%)	2/20 (10.0%)	4/22 (18.2%)
	Terminal Incidence	4/18 (22.2%)	6/22 (27.3%)	2/18 (11.1%)	4/24 (16.7%)	2/18 (11.1%)	4/21 (19.0%)
	Time-to-First	359 (T)	361 (T)	362 (T)	359 (T)	362 (T)	361 (T)
	CAFE P-Value	0.279N	0.360	0.380N	0.598N	0.380N	0.651
	Severity Profile	3 1 0 0	6 0 0 0	1 1 0 0	2 2 0 0	2 0 0 0	2 2 0 0
	JT/SW P-Value	0.288N	0.730N	0.311N	0.464N	0.303N	0.493N
	RTE P-Value	0.287N	0.246	0.256N	0.472N	0.234N	0.473
Thyroid Gland * Hyperplasia,C-Cell	Simple Incidence	10/22 (45.5%)	13/22 (59.1%)	9/20 (45.0%)	12/24 (50.0%)	7/18 (38.9%)	10/21 (47.6%)
	Terminal Incidence	8/18 (44.4%)	13/22 (59.1%)	9/18 (50.0%)	12/24 (50.0%)	7/18 (38.9%)	10/21 (47.6%)
	Time-to-First	173	356 (T)	360 (T)	362 (T)	361 (T)	360 (T)
	CAFE P-Value	0.344N	0.273	0.610N	0.495	0.462N	0.565
	Severity Profile	3 4 3 0	7 4 2 0	6 2 1 0	5 4 3 0	2 4 0 1	6 3 1 0
	JT/SW P-Value	0.263N	0.652N	0.343N	0.529N	0.422N	0.457N
	RTE P-Value	0.263N	0.327	0.294N	0.448	0.321N	0.368N
Thyroid Gland * Hyperplasia,Follicular Cell	Simple Incidence	1/22 (4.5%)	1/22 (4.5%)	2/20 (10.0%)	2/24 (8.3%)	2/18 (11.1%)	1/21 (4.8%)
	Terminal Incidence	1/18 (5.6%)	1/22 (4.5%)	2/18 (11.1%)	2/24 (8.3%)	2/18 (11.1%)	1/21 (4.8%)
	Time-to-First	359 (T)	360 (T)	361 (T)	362 (T)	361 (T)	362 (T)
	CAFE P-Value	0.385	0.756	0.463	0.533	0.423	0.744
	Severity Profile	0 1 0 0	0 0 1 0	1 0 1 0	0 1 1 0	0 0 2 0	0 0 1 0
	JT/SW P-Value	0.324	0.487	0.281	0.343	0.267	0.407
	RTE P-Value	0.329	0.486	0.251	0.307	0.174	0.475
Thyroid Gland * Ultimobranchial Cyst	Simple Incidence	5/22 (22.7%)	4/22 (18.2%)	6/20 (30.0%)	5/24 (20.8%)	5/18 (27.8%)	7/21 (33.3%)

Table 10. Nonneoplasms by Body System for Interim Sacrifice Males Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
	Terminal Incidence	5/18 (27.8%)	4/22 (18.2%)	6/18 (33.3%)	5/24 (20.8%)	5/18 (27.8%)	7/21 (33.3%)
	Time-to-First	353 (T)	361 (T)	359 (T)	359 (T)	360 (T)	361 (T)
	CAFE P-Value	0.198	0.500N	0.426	0.578N	0.497	0.332
Genital System							
Epididymis * Exfoliated Germ Cell	Simple Incidence	1/22 (4.5%)	1/22 (4.5%)	1/20 (5.0%)	1/24 (4.2%)	0/20 (0.0%)	6/22 (27.3%)
	Terminal Incidence	1/18 (5.6%)	1/22 (4.5%)	1/18 (5.6%)	1/24 (4.2%)	0/18 (0.0%)	6/21 (28.6%)
	Time-to-First	362 (T)	362 (T)	362 (T)	362 (T)	----	360 (T)
	CAFE P-Value	0.021 *	0.756	0.732	0.733N	0.524N	0.047 *
	Severity Profile	1 0 0 0	1 0 0 0	0 1 0 0	1 0 0 0	---	6 0 0 0
	JT/SW P-Value	0.018 *	0.500	0.538	0.610	0.709	0.003 **
	RTE P-Value	0.019 *	0.500	0.458	0.480N	0.286N	0.002 **
Epididymis * Hypospermia	Simple Incidence	2/22 (9.1%)	4/22 (18.2%)	1/20 (5.0%)	2/24 (8.3%)	0/20 (0.0%)	2/22 (9.1%)
	Terminal Incidence	1/18 (5.6%)	4/22 (18.2%)	1/18 (5.6%)	2/24 (8.3%)	0/18 (0.0%)	2/21 (9.5%)
	Time-to-First	258	361 (T)	362 (T)	362 (T)	----	361 (T)
	CAFE P-Value	0.186N	0.332	0.537N	0.662N	0.268N	0.697N
	Severity Profile	0 0 1 1	0 0 0 4	0 0 0 1	0 0 0 2	---	0 0 0 2
	JT/SW P-Value	0.170N	0.828N	0.420N	0.526N	0.201N	0.429N
	RTE P-Value	0.168N	0.088	0.333N	0.482N	0.151N	0.482
Epididymis * Infiltration Cellular,Lymphocyte	Simple Incidence	0/22 (0.0%)	1/22 (4.5%)	3/20 (15.0%)	2/24 (8.3%)	0/20 (0.0%)	5/22 (22.7%)
	Terminal Incidence	0/18 (0.0%)	1/22 (4.5%)	3/18 (16.7%)	2/24 (8.3%)	0/18 (0.0%)	5/21 (23.8%)
	Time-to-First	----	362 (T)	360 (T)	362 (T)	----	361 (T)
	CAFE P-Value	0.032 *	0.500	0.099	0.267		0.024 *
	Severity Profile	---	0 1 0 0	3 0 0 0	2 0 0 0	---	5 0 0 0
	JT/SW P-Value	0.030 *	0.159	0.029 * ¹	0.083	0.182	0.004 **
	RTE P-Value	0.034 *	0.276	0.050	0.120	0.500	0.006 **
Prostate, Dorsal/Lateral Lobe * Infiltration Cellular,Lymphocyte	Simple Incidence	4/22 (18.2%)	10/22 (45.5%)	5/20 (25.0%)	6/24 (25.0%)	5/20 (25.0%)	7/22 (31.8%)
	Terminal Incidence	4/18 (22.2%)	10/22 (45.5%)	5/18 (27.8%)	6/24 (25.0%)	5/18 (27.8%)	7/21 (33.3%)
	Time-to-First	361 (T)	356 (T)	362 (T)	360 (T)	361 (T)	361 (T)
	CAFE P-Value	0.487	0.052	0.435	0.422	0.435	0.244
	Severity Profile	4 0 0 0	9 1 0 0	5 0 0 0	5 1 0 0	5 0 0 0	5 2 0 0
	JT/SW P-Value	0.413	0.025 * ¹	0.123	0.185	0.246	0.167
	RTE P-Value	0.419	0.025 *	0.320	0.282	0.320	0.126

Table 10. Nonneoplasms by Body System for Interim Sacrifice Males Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
Prostate, Dorsal/Lateral Lobe * Inflammation,Suppurative	Simple Incidence	18/22 (81.8%)	20/22 (90.9%)	18/20 (90.0%)	22/24 (91.7%)	18/20 (90.0%)	19/22 (86.4%)
	Terminal Incidence	17/18 (94.4%)	20/22 (90.9%)	16/18 (88.9%)	22/24 (91.7%)	17/18 (94.4%)	19/21 (90.5%)
	Time-to-First	258	356 (T)	127	359 (T)	300	359 (T)
	CAFE P-Value	0.383	0.332	0.380	0.291	0.380	0.500
	Severity Profile	11 7 0 0	6 14 0 0	9 9 0 0	9 12 1 0	6 10 2 0	7 11 1 0
	JT/SW P-Value	0.076	0.022 * ¹	0.077	0.053	0.025 *	0.048 *
	RTE P-Value	0.074	0.025 *	0.175	0.048 *	0.022 *	0.063
Prostate, Ventral Lobe * Infiltration Cellular,Lymphocyte	Simple Incidence	8/22 (36.4%)	10/22 (45.5%)	10/20 (50.0%)	8/24 (33.3%)	9/20 (45.0%)	8/22 (36.4%)
	Terminal Incidence	7/18 (38.9%)	10/22 (45.5%)	9/18 (50.0%)	8/24 (33.3%)	8/18 (44.4%)	8/21 (38.1%)
	Time-to-First	173	360 (T)	127	360 (T)	244	360 (T)
	CAFE P-Value	0.434N	0.380	0.281	0.537N	0.399	0.623N
	Severity Profile	8 0 0 0	8 2 0 0	9 1 0 0	7 1 0 0	8 1 0 0	7 1 0 0
	JT/SW P-Value	0.437N	0.793N	0.883N	0.582N	0.745N	0.701N
	RTE P-Value	0.442N	0.209	0.162	0.468N	0.256	0.452
Prostate, Ventral Lobe * Inflammation,Suppurative	Simple Incidence	10/22 (45.5%)	3/22 (13.6%)	4/20 (20.0%)	5/24 (20.8%)	3/20 (15.0%)	1/22 (4.5%)
	Terminal Incidence	10/18 (55.6%)	3/22 (13.6%)	4/18 (22.2%)	5/24 (20.8%)	3/18 (16.7%)	1/21 (4.8%)
	Time-to-First	353 (T)	361 (T)	361 (T)	362 (T)	360 (T)	363 (T)
	CAFE P-Value	0.003N**	0.023N*	0.077N	0.071N	0.035N*	0.002N**
	Severity Profile	9 1 0 0	3 0 0 0	2 2 0 0	4 1 0 0	3 0 0 0	1 0 0 0
	JT/SW P-Value	0.003N**	0.010N*	0.027N*	0.026N*	0.012N*	<.001N***
	RTE P-Value	0.003N**	0.005N**	0.027N*	0.021N*	0.009N**	<.001N***
Testes * Degeneration,Seminiferous Tubule	Simple Incidence	6/22 (27.3%)	7/22 (31.8%)	9/20 (45.0%)	10/24 (41.7%)	5/20 (25.0%)	9/22 (40.9%)
	Terminal Incidence	4/18 (22.2%)	7/22 (31.8%)	9/18 (50.0%)	10/24 (41.7%)	5/18 (27.8%)	9/21 (42.9%)
	Time-to-First	258	361 (T)	360 (T)	359 (T)	360 (T)	360 (T)
	CAFE P-Value	0.303	0.500	0.191	0.238	0.574N	0.263
	Severity Profile	3 1 0 2	3 0 0 4	7 1 0 1	8 0 0 2	5 0 0 0	3 4 0 2
	JT/SW P-Value	0.326	0.336	0.216	0.252	0.428	0.198
	RTE P-Value	0.347	0.335	0.184	0.227	0.328N	0.152
Hematopoietic System							
Spleen * Hematopoietic Cell Proliferation	Simple Incidence	0/22 (0.0%)	0/22 (0.0%)	0/20 (0.0%)	0/24 (0.0%)	0/18 (0.0%)	2/22 (9.1%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/18 (0.0%)	0/24 (0.0%)	0/18 (0.0%)	1/21 (4.8%)

Table 10. Nonneoplasms by Body System for Interim Sacrifice Males Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>					
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>	<i>25000</i>
	Time-to-First	----	----	----	----	----	28
	CAFE P-Value	0.028 *					0.244
	Severity Profile	---	---	---	---	---	0 2 0 0
	JT/SW P-Value	0.019 *	0.500	0.583	0.618	0.636	0.009 **
	RTE P-Value	0.013 *	0.500	0.500	0.500	0.500	0.013 *
Spleen * Pigmentation	Simple Incidence	15/22 (68.2%)	16/22 (72.7%)	15/20 (75.0%)	16/24 (66.7%)	15/18 (83.3%)	13/22 (59.1%)
	Terminal Incidence	14/18 (77.8%)	16/22 (72.7%)	14/18 (77.8%)	16/24 (66.7%)	15/18 (83.3%)	13/21 (61.9%)
	Time-to-First	173	356 (T)	319	360 (T)	360 (T)	359 (T)
	CAFE P-Value	0.382N	0.500	0.443	0.582N	0.233	0.377N
	Severity Profile	6 7 1 1	7 9 0 0	2 10 3 0	7 9 0 0	2 13 0 0	6 6 1 0
	JT/SW P-Value	0.397N	0.475N	0.786N	0.414N	0.775N	0.288N
	RTE P-Value	0.433N	0.451N	0.094	0.320N	0.082	0.211N
Thymus * Atrophy	Simple Incidence	18/22 (81.8%)	21/22 (95.5%)	17/20 (85.0%)	22/24 (91.7%)	17/19 (89.5%)	20/21 (95.2%)
	Terminal Incidence	18/18 (100.0%)	21/22 (95.5%)	16/18 (88.9%)	22/24 (91.7%)	17/18 (94.4%)	20/20 (100.0%)
	Time-to-First	353 (T)	356 (T)	319	359 (T)	360 (T)	359 (T)
	CAFE P-Value	0.176	0.172	0.556	0.291	0.406	0.187
	Severity Profile	2 1 1 14	0 2 5 14	1 0 2 14	1 4 6 11	0 1 6 10	0 1 5 14
	JT/SW P-Value	0.454	0.288	0.351	0.546	0.595	0.288
	RTE P-Value	0.458	0.282	0.278	0.241N	0.456N	0.215
Integumentary System							
Mammary Gland * Hyperplasia,Lobular	Simple Incidence	2/22 (9.1%)	1/21 (4.8%)	0/20 (0.0%)	3/24 (12.5%)	1/19 (5.3%)	0/22 (0.0%)
	Terminal Incidence	2/18 (11.1%)	1/21 (4.8%)	0/18 (0.0%)	3/24 (12.5%)	1/17 (5.9%)	0/21 (0.0%)
	Time-to-First	361 (T)	361 (T)	----	362 (T)	362 (T)	----
	CAFE P-Value	0.257N	0.518N	0.268N	0.543	0.556N	0.244N
	Severity Profile	0 2 0 0	1 0 0 0	---	1 1 1 0	0 1 0 0	---
	JT/SW P-Value	0.224N	0.273N	0.097N	0.433N	0.410N	0.121N
	RTE P-Value	0.226N	0.256N	0.076N	0.307	0.295N	0.083N
Urinary System							
Kidney * Accumulation, Hyaline Droplet	Simple Incidence	2/22 (9.1%)	0/22 (0.0%)	0/20 (0.0%)	0/24 (0.0%)	0/19 (0.0%)	0/22 (0.0%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/18 (0.0%)	0/24 (0.0%)	0/18 (0.0%)	0/21 (0.0%)
	Time-to-First	282	----	----	----	----	----
	CAFE P-Value	0.028N*	0.244N	0.268N	0.223N	0.282N	0.244N

Table 10. Nonneoplasms by Body System for Interim Sacrifice Males Bisphenol-A Continuous Dose Arm

<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>				
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>2.5</i>	<i>25</i>	<i>250</i>	<i>2500</i>
	Severity Profile	0 0 0 2	---	---	---	---
	JT/SW P-Value	0.019N*	0.076N	0.054N	0.024N*	0.020N*
	RTE P-Value	0.013N*	0.013N*	0.013N*	0.013N*	0.013N*
Kidney * Casts Protein	Simple Incidence	2/22 (9.1%)	1/22 (4.5%)	0/20 (0.0%)	1/24 (4.2%)	0/19 (0.0%)
	Terminal Incidence	1/18 (5.6%)	1/22 (4.5%)	0/18 (0.0%)	1/24 (4.2%)	0/18 (0.0%)
	Time-to-First	258	361 (T)	----	363 (T)	----
	CAFE P-Value	0.055N	0.500N	0.268N	0.467N	0.282N
	Severity Profile	1 1 0 0	1 0 0 0	---	1 0 0 0	---
	JT/SW P-Value	0.039N*	0.268N	0.097N	0.166N	0.079N
	RTE P-Value	0.035N*	0.130N	0.043N*	0.102N	0.046N*
Kidney * Cyst,Cortex	Simple Incidence	4/22 (18.2%)	7/22 (31.8%)	6/20 (30.0%)	2/24 (8.3%)	4/19 (21.1%)
	Terminal Incidence	4/18 (22.2%)	7/22 (31.8%)	5/18 (27.8%)	2/24 (8.3%)	4/18 (22.2%)
	Time-to-First	361 (T)	360 (T)	319	359 (T)	361 (T)
	CAFE P-Value	0.357N	0.244	0.296	0.291N	0.562
Kidney * Cyst,Renal Tubule	Simple Incidence	4/22 (18.2%)	6/22 (27.3%)	9/20 (45.0%)	7/24 (29.2%)	4/19 (21.1%)
	Terminal Incidence	4/18 (22.2%)	6/22 (27.3%)	8/18 (44.4%)	7/24 (29.2%)	4/18 (22.2%)
	Time-to-First	362 (T)	360 (T)	127	359 (T)	361 (T)
	CAFE P-Value	0.337	0.360	0.061	0.301	0.562
Kidney * Nephropathy	Simple Incidence	16/22 (72.7%)	20/22 (90.9%)	18/20 (90.0%)	19/24 (79.2%)	16/19 (84.2%)
	Terminal Incidence	15/18 (83.3%)	20/22 (90.9%)	17/18 (94.4%)	19/24 (79.2%)	16/18 (88.9%)
	Time-to-First	173	356 (T)	127	359 (T)	360 (T)
	CAFE P-Value	0.476N	0.120	0.152	0.434	0.308
	Severity Profile	9 5 2 0	12 7 1 0	10 6 2 0	10 7 2 0	8 7 0 1
	JT/SW P-Value	0.392N	0.801N	0.893N	0.812N	0.863N
	RTE P-Value	0.396N	0.205	0.148	0.306	0.204

P-values for dose trend are presented in the "Control" column.

N indicates a negative trend or negative treatment comparison to control with corresponding lower-tail p-values.

¹ Nonsignificant SW test due to the assumption of monotonicity.

Table 11. Nonneoplasms by Body System for Interim Sacrifice Females EE2 Continuous Dose Arm

System and Nonneoplasm		Treatment (ug/kg)		
Lesion	Statistic	Control	0.05	0.50
Alimentary System				
Liver * Basophilic Focus	Simple Incidence	1/23 (4.3%)	3/26 (11.5%)	3/26 (11.5%)
	Terminal Incidence	1/21 (4.8%)	3/24 (12.5%)	3/26 (11.5%)
	Time-to-First	362 (T)	361 (T)	360 (T)
	CAFE P-Value	0.279	0.353	0.353
Liver * Hyperplasia,Bile Duct	Simple Incidence	3/23 (13.0%)	8/26 (30.8%)	4/26 (15.4%)
	Terminal Incidence	3/21 (14.3%)	8/24 (33.3%)	4/26 (15.4%)
	Time-to-First	362 (T)	360 (T)	361 (T)
	CAFE P-Value	0.515	0.127	0.571
	Severity Profile	3 0 0 0	6 2 0 0	2 2 0 0
	JT/SW P-Value	0.401	0.061	0.204
	RTE P-Value	0.373	0.057	0.373
Liver * Infiltration Cellular,Mononuclear Cell	Simple Incidence	4/23 (17.4%)	7/26 (26.9%)	2/26 (7.7%)
	Terminal Incidence	4/21 (19.0%)	7/24 (29.2%)	2/26 (7.7%)
	Time-to-First	362 (T)	361 (T)	362 (T)
	CAFE P-Value	0.225N	0.326	0.276N
	Severity Profile	4 0 0 0	7 0 0 0	2 0 0 0
	JT/SW P-Value	0.165N	0.785N	0.224N
	RTE P-Value	0.220N	0.217	0.220N
Liver * Tension Lipidosis	Simple Incidence	3/23 (13.0%)	3/26 (11.5%)	0/26 (0.0%)
	Terminal Incidence	2/21 (9.5%)	3/24 (12.5%)	0/26 (0.0%)
	Time-to-First	307	362 (T)	----
	CAFE P-Value	0.076N	0.605N	0.096N
	Severity Profile	0 2 1 0	1 1 0 1	---
	JT/SW P-Value	0.043N*	0.430N	0.055N
	RTE P-Value	0.059N	0.418N	0.059N
Liver * Vacuolization Cytoplasmic	Simple Incidence	2/23 (8.7%)	2/26 (7.7%)	1/26 (3.8%)
	Terminal Incidence	2/21 (9.5%)	2/24 (8.3%)	1/26 (3.8%)
	Time-to-First	360 (T)	362 (T)	362 (T)
	CAFE P-Value	0.347N	0.647N	0.453N
	Severity Profile	2 0 0 0	2 0 0 0	1 0 0 0
	JT/SW P-Value	0.246N	0.450N	0.299N

Table 11. Nonneoplasms by Body System for Interim Sacrifice Females EE2 Continuous Dose Arm				
System and Nonneoplasm		Treatment (ug/kg)		
Lesion	Statistic	Control	0.05	0.50
	RTE P-Value	0.253N	0.445N	0.253N
Pancreas * Basophilic Focus	Simple Incidence	0/23 (0.0%)	2/26 (7.7%)	0/26 (0.0%)
	Terminal Incidence	0/21 (0.0%)	1/24 (4.2%)	0/26 (0.0%)
	Time-to-First	----	257	----
	CAFE P-Value	0.639N	0.276	
Pancreas * Degeneration,Acinus	Simple Incidence	13/23 (56.5%)	20/26 (76.9%)	18/26 (69.2%)
	Terminal Incidence	12/21 (57.1%)	18/24 (75.0%)	18/26 (69.2%)
	Time-to-First	56	257	360 (T)
	CAFE P-Value	0.227	0.112	0.266
	Severity Profile	5 5 2 1	9 10 1 0	10 5 1 2
	JT/SW P-Value	0.390	0.204	0.320
	RTE P-Value	0.364	0.194	0.364
Cardiovascular System				
Heart * Cardiomyopathy	Simple Incidence	7/23 (30.4%)	8/26 (30.8%)	17/26 (65.4%)
	Terminal Incidence	7/21 (33.3%)	8/24 (33.3%)	17/26 (65.4%)
	Time-to-First	360 (T)	360 (T)	360 (T)
	CAFE P-Value	0.009 **	0.613	0.015 *
	Severity Profile	6 1 0 0	8 0 0 0	13 4 0 0
	JT/SW P-Value	0.004 **	0.530	0.006 **
	RTE P-Value	0.004 **	0.456N	0.004 **
Endocrine System				
Adrenal Cortex * Degeneration,Cystic	Simple Incidence	2/23 (8.7%)	0/26 (0.0%)	6/26 (23.1%)
	Terminal Incidence	2/21 (9.5%)	0/24 (0.0%)	6/26 (23.1%)
	Time-to-First	362 (T)	----	360 (T)
	CAFE P-Value	0.071	0.215N	0.166
	Severity Profile	1 0 1 0	---	1 4 1 0
	JT/SW P-Value	0.042 *	0.936	0.062
	RTE P-Value	0.056	0.173N	0.056
Parathyroid Gland * Hyperplasia	Simple Incidence	2/23 (8.7%)	2/26 (7.7%)	1/25 (4.0%)
	Terminal Incidence	1/21 (4.8%)	2/24 (8.3%)	1/25 (4.0%)
	Time-to-First	56	361 (T)	363 (T)

Table 11. Nonneoplasms by Body System for Interim Sacrifice Females EE2 Continuous Dose Arm

System and Nonneoplasm		Treatment (ug/kg)		
Lesion	Statistic	Control	0.05	0.50
	CAFE P-Value	0.360N	0.647N	0.468N
	Severity Profile	2 0 0 0	0 2 0 0	1 0 0 0
	JT/SW P-Value	0.265N	0.483N	0.318N
	RTE P-Value	0.269N	0.475N	0.269N
Pituitary Gland * Angiectasis	Simple Incidence	1/23 (4.3%)	2/25 (8.0%)	6/26 (23.1%)
	Terminal Incidence	1/21 (4.8%)	2/23 (8.7%)	6/26 (23.1%)
	Time-to-First	362 (T)	361 (T)	361 (T)
	CAFE P-Value	0.034 *	0.532	0.069
	Severity Profile	0 1 0 0	0 1 0 1	0 4 1 1
	JT/SW P-Value	0.022 *	0.294	0.026 *
	RTE P-Value	0.025 *	0.333	0.025 *
Pituitary Gland * Cyst,Pars Distalis	Simple Incidence	2/23 (8.7%)	0/25 (0.0%)	4/26 (15.4%)
	Terminal Incidence	2/21 (9.5%)	0/23 (0.0%)	4/26 (15.4%)
	Time-to-First	360 (T)	----	361 (T)
	CAFE P-Value	0.261	0.224N	0.395
Pituitary Gland * Hyperplasia,Pars Distalis	Simple Incidence	18/23 (78.3%)	20/25 (80.0%)	25/26 (96.2%)
	Terminal Incidence	17/21 (81.0%)	20/23 (87.0%)	25/26 (96.2%)
	Time-to-First	307	361 (T)	360 (T)
	CAFE P-Value	0.057	0.581	0.070
	Severity Profile	8 6 3 1	10 7 3 0	4 1 1 6 4
	JT/SW P-Value	0.002 **	0.598	0.003 **
	RTE P-Value	0.003 **	0.370N	0.003 **
Thyroid Gland * Hyperplasia,C-Cell	Simple Incidence	14/23 (60.9%)	11/26 (42.3%)	13/26 (50.0%)
	Terminal Incidence	14/21 (66.7%)	11/24 (45.8%)	13/26 (50.0%)
	Time-to-First	359 (T)	361 (T)	361 (T)
	CAFE P-Value	0.283N	0.156N	0.318N
	Severity Profile	8 6 0 0	7 4 0 0	11 1 1 0
	JT/SW P-Value	0.139N	0.094N	0.122N
	RTE P-Value	0.126N	0.087N	0.126N
Thyroid Gland * Ultimobranchial Cyst	Simple Incidence	7/23 (30.4%)	7/26 (26.9%)	11/26 (42.3%)
	Terminal Incidence	7/21 (33.3%)	7/24 (29.2%)	11/26 (42.3%)
	Time-to-First	361 (T)	361 (T)	360 (T)

Table 11. Nonneoplasms by Body System for Interim Sacrifice Females EE2 Continuous Dose Arm

System and Nonneoplasm		Treatment (ug/kg)		
Lesion	Statistic	Control	0.05	0.50
	CAFE P-Value	0.226	0.517N	0.287
Genital System				
Ovary * Atrophy	Simple Incidence	10/23 (43.5%)	9/25 (36.0%)	26/26 (100.0%)
	Terminal Incidence	10/21 (47.6%)	9/24 (37.5%)	26/26 (100.0%)
	Time-to-First	361 (T)	361 (T)	360 (T)
	CAFE P-Value	<.001 ***	0.407N	<.001 ***
	Severity Profile	1 4 0 5	0 3 0 6	0 0 0 26
	JT/SW P-Value	<.001 ***	0.616	<.001 ***
	RTE P-Value	<.001 ***	0.426N	<.001 ***
Ovary * Cyst	Simple Incidence	1/23 (4.3%)	1/25 (4.0%)	2/26 (7.7%)
	Terminal Incidence	1/21 (4.8%)	1/24 (4.2%)	2/26 (7.7%)
	Time-to-First	362 (T)	361 (T)	361 (T)
	CAFE P-Value	0.421	0.734N	0.547
Ovary * Cyst,Bursa	Simple Incidence	0/23 (0.0%)	1/25 (4.0%)	4/26 (15.4%)
	Terminal Incidence	0/21 (0.0%)	1/24 (4.2%)	4/26 (15.4%)
	Time-to-First	----	363 (T)	360 (T)
	CAFE P-Value	0.027 *	0.521	0.071
Ovary * Cyst,Follicle	Simple Incidence	8/23 (34.8%)	9/25 (36.0%)	26/26 (100.0%)
	Terminal Incidence	8/21 (38.1%)	9/24 (37.5%)	26/26 (100.0%)
	Time-to-First	361 (T)	361 (T)	360 (T)
	CAFE P-Value	<.001 ***	0.585	<.001 ***
Ovary * Depletion,Corpus Luteum	Simple Incidence	4/23 (17.4%)	6/25 (24.0%)	26/26 (100.0%)
	Terminal Incidence	4/21 (19.0%)	6/24 (25.0%)	26/26 (100.0%)
	Time-to-First	362 (T)	361 (T)	360 (T)
	CAFE P-Value	<.001 ***	0.419	<.001 ***
Ovary * Diestrus	Simple Incidence	15/23 (65.2%)	12/25 (48.0%)	0/26 (0.0%)
	Terminal Incidence	14/21 (66.7%)	11/24 (45.8%)	0/26 (0.0%)
	Time-to-First	56	257	----
	CAFE P-Value	<.001N***	0.182N	<.001N***

Table 11. Nonneoplasms by Body System for Interim Sacrifice Females EE2 Continuous Dose Arm

System and Nonneoplasm		Treatment (ug/kg)		
Lesion		Statistic	Control	0.05
				0.50
Ovary * Hypertrophy,Interstitial Cell	Simple Incidence	4/23 (17.4%)	5/25 (20.0%)	26/26 (100.0%)
	Terminal Incidence	4/21 (19.0%)	5/24 (20.8%)	26/26 (100.0%)
	Time-to-First	362 (T)	361 (T)	360 (T)
	CAFE P-Value	<.001 ***	0.556	<.001 ***
	Severity Profile	0 4 0 0	0 4 1 0	1 13 10 2
	JT/SW P-Value	<.001 ***	0.386	<.001 ***
	RTE P-Value	<.001 ***	0.339	<.001 ***
Ovary * Metestrus	Simple Incidence	3/23 (13.0%)	6/25 (24.0%)	0/26 (0.0%)
	Terminal Incidence	2/21 (9.5%)	6/24 (25.0%)	0/26 (0.0%)
	Time-to-First	307	361 (T)	----
	CAFE P-Value	0.107N	0.276	0.096N
Uterus * Apoptosis	Simple Incidence	2/23 (8.7%)	6/25 (24.0%)	18/26 (69.2%)
	Terminal Incidence	2/21 (9.5%)	6/24 (25.0%)	18/26 (69.2%)
	Time-to-First	362 (T)	361 (T)	360 (T)
	CAFE P-Value	<.001 ***	0.151	<.001 ***
	Severity Profile	0 0 0 2	0 1 2 3	0 2 6 10
	JT/SW P-Value	<.001 ***	0.096	<.001 ***
	RTE P-Value	<.001 ***	0.141	<.001 ***
Uterus * Cyst,Endometrium	Simple Incidence	0/23 (0.0%)	2/25 (8.0%)	2/26 (7.7%)
	Terminal Incidence	0/21 (0.0%)	2/24 (8.3%)	2/26 (7.7%)
	Time-to-First	----	362 (T)	362 (T)
	CAFE P-Value	0.206	0.266	0.276
Uterus * Diestrus	Simple Incidence	10/23 (43.5%)	8/25 (32.0%)	0/26 (0.0%)
	Terminal Incidence	9/21 (42.9%)	8/24 (33.3%)	0/26 (0.0%)
	Time-to-First	56	360 (T)	----
	CAFE P-Value	<.001N***	0.301N	<.001N***
Uterus * Estrus	Simple Incidence	4/23 (17.4%)	6/25 (24.0%)	21/26 (80.8%)
	Terminal Incidence	4/21 (19.0%)	6/24 (25.0%)	21/26 (80.8%)
	Time-to-First	362 (T)	361 (T)	360 (T)
	CAFE P-Value	<.001 ***	0.419	<.001 ***
Uterus * Hyperplasia,Cystic,Endometrium	Simple Incidence	5/23 (21.7%)	6/25 (24.0%)	14/26 (53.8%)

Table 11. Nonneoplasms by Body System for Interim Sacrifice Females EE2 Continuous Dose Arm

System and Nonneoplasm		Treatment (ug/kg)		
Lesion	Statistic	Control	0.05	0.50
Terminal Incidence	5/21 (23.8%)	6/24 (25.0%)	14/26 (53.8%)	
Time-to-First	362 (T)	361 (T)	360 (T)	
CAFE P-Value	0.012 *	0.563	0.021 *	
Severity Profile	1 2 1 1	3 3 0 0	4 6 2 2	
JT/SW P-Value	0.008 **	0.511	0.013 *	
RTE P-Value	0.012 *	0.452N	0.012 *	
Uterus * Hyperplasia,Endometrial Glands	Simple Incidence	0/23 (0.0%)	1/25 (4.0%)	2/26 (7.7%)
	Terminal Incidence	0/21 (0.0%)	1/24 (4.2%)	2/26 (7.7%)
	Time-to-First	----	363 (T)	361 (T)
	CAFE P-Value	0.165	0.521	0.276
	Severity Profile	---	0 1 0 0	1 1 0 0
	JT/SW P-Value	0.091	0.169	0.106
	RTE P-Value	0.125	0.241	0.125
Uterus * Hyperplasia,Endometrium	Simple Incidence	2/23 (8.7%)	4/25 (16.0%)	0/26 (0.0%)
	Terminal Incidence	2/21 (9.5%)	4/24 (16.7%)	0/26 (0.0%)
	Time-to-First	362 (T)	361 (T)	----
	CAFE P-Value	0.185N	0.375	0.215N
	Severity Profile	0 2 0 0	0 4 0 0	---
	JT/SW P-Value	0.116N	0.775N	0.160N
	RTE P-Value	0.174N	0.232	0.174N
Uterus * Metaplasia,Squamous	Simple Incidence	1/23 (4.3%)	2/25 (8.0%)	14/26 (53.8%)
	Terminal Incidence	1/21 (4.8%)	2/24 (8.3%)	14/26 (53.8%)
	Time-to-First	362 (T)	361 (T)	361 (T)
	CAFE P-Value	<.001 ***	0.532	<.001 ***
	Severity Profile	0 1 0 0	1 0 1 0	8 4 2 0
	JT/SW P-Value	<.001 ***	0.303	<.001 ***
	RTE P-Value	<.001 ***	0.367	<.001 ***
Uterus * Metestrus	Simple Incidence	7/23 (30.4%)	9/25 (36.0%)	5/26 (19.2%)
	Terminal Incidence	6/21 (28.6%)	8/24 (33.3%)	5/26 (19.2%)
	Time-to-First	307	257	362 (T)
	CAFE P-Value	0.230N	0.460	0.282N
Uterus * Proestrus	Simple Incidence	2/23 (8.7%)	2/25 (8.0%)	0/26 (0.0%)

Table 11. Nonneoplasms by Body System for Interim Sacrifice Females EE2 Continuous Dose Arm

System and Nonneoplasm		Treatment (ug/kg)		
Lesion	Statistic	Control	0.05	0.50
	Terminal Incidence	2/21 (9.5%)	2/24 (8.3%)	0/26 (0.0%)
	Time-to-First	364 (T)	362 (T)	----
	CAFE P-Value	0.152N	0.663N	0.215N
Vagina * Diestrus	Simple Incidence	11/23 (47.8%)	10/25 (40.0%)	0/26 (0.0%)
	Terminal Incidence	10/21 (47.6%)	10/24 (41.7%)	0/26 (0.0%)
	Time-to-First	56	360 (T)	----
	CAFE P-Value	<.001N***	0.399N	<.001N***
Vagina * Estrus	Simple Incidence	3/23 (13.0%)	6/25 (24.0%)	20/26 (76.9%)
	Terminal Incidence	3/21 (14.3%)	6/24 (25.0%)	20/26 (76.9%)
	Time-to-First	362 (T)	361 (T)	360 (T)
	CAFE P-Value	<.001 ***	0.276	<.001 ***
Vagina * Hyperplasia,Epithelium	Simple Incidence	3/23 (13.0%)	7/25 (28.0%)	20/26 (76.9%)
	Terminal Incidence	3/21 (14.3%)	7/24 (29.2%)	20/26 (76.9%)
	Time-to-First	362 (T)	361 (T)	361 (T)
	CAFE P-Value	<.001 ***	0.180	<.001 ***
	Severity Profile	0 1 2 0	0 4 3 0	0 9 11 0
	JT/SW P-Value	<.001 ***	0.119	<.001 ***
	RTE P-Value	<.001 ***	0.150	<.001 ***
Vagina * Metestrus	Simple Incidence	7/23 (30.4%)	8/25 (32.0%)	6/26 (23.1%)
	Terminal Incidence	6/21 (28.6%)	7/24 (29.2%)	6/26 (23.1%)
	Time-to-First	307	257	361 (T)
	CAFE P-Value	0.335N	0.578	0.397N
Vagina * Mucification,Epithelium	Simple Incidence	10/23 (43.5%)	15/25 (60.0%)	18/26 (69.2%)
	Terminal Incidence	10/21 (47.6%)	15/24 (62.5%)	18/26 (69.2%)
	Time-to-First	360 (T)	360 (T)	360 (T)
	CAFE P-Value	0.048 *	0.196	0.063
	Severity Profile	0 6 1 3	0 5 1 9	1 4 6 7
	JT/SW P-Value	0.030 *	0.059	0.028 *
	RTE P-Value	0.027 *	0.052	0.027 *

Table 11. Nonneoplasms by Body System for Interim Sacrifice Females EE2 Continuous Dose Arm

System and Nonneoplasm		Treatment (ug/kg)		
Lesion	Statistic	Control	0.05	0.50
Hematopoietic System				
Spleen * Pigmentation	Simple Incidence	22/23 (95.7%)	26/26 (100.0%)	26/26 (100.0%)
	Terminal Incidence	21/21 (100.0%)	24/24 (100.0%)	26/26 (100.0%)
	Time-to-First	307	257	360 (T)
	CAFE P-Value	0.307	0.469	0.469
	Severity Profile	0 8 10 4	0 10 11 5	0 2 10 14
	JT/SW P-Value	<.001 ***	0.415	<.001 ***
	RTE P-Value	0.001 **	0.418	0.001 **
Thymus * Atrophy				
	Simple Incidence	20/23 (87.0%)	20/25 (80.0%)	24/26 (92.3%)
	Terminal Incidence	19/21 (90.5%)	20/23 (87.0%)	24/26 (92.3%)
	Time-to-First	56	360 (T)	360 (T)
	CAFE P-Value	0.354	0.400N	0.440
	Severity Profile	0 2 8 10	0 5 6 9	0 6 2 16
	JT/SW P-Value	0.232	0.830	0.297
	RTE P-Value	0.249	0.180N	0.249
Integumentary System				
Mammary Gland * Dilatation,Duct	Simple Incidence	2/23 (8.7%)	3/26 (11.5%)	22/26 (84.6%)
	Terminal Incidence	2/21 (9.5%)	3/24 (12.5%)	22/26 (84.6%)
	Time-to-First	362 (T)	361 (T)	360 (T)
	CAFE P-Value	<.001 ***	0.560	<.001 ***
	Severity Profile	1 1 0 0	1 2 0 0	6 12 2 2
	JT/SW P-Value	<.001 ***	0.366	<.001 ***
	RTE P-Value	<.001 ***	0.373	<.001 ***
Mammary Gland * Galactocele	Simple Incidence	0/23 (0.0%)	0/26 (0.0%)	4/26 (15.4%)
	Terminal Incidence	0/21 (0.0%)	0/24 (0.0%)	4/26 (15.4%)
	Time-to-First	----	----	361 (T)
	CAFE P-Value	0.012 *		0.071

Table 11. Nonneoplasms by Body System for Interim Sacrifice Females EE2 Continuous Dose Arm

System and Nonneoplasm		Treatment (ug/kg)		
Lesion	Statistic	Control	0.05	0.50
Mammary Gland * Hyperplasia,Lobular	Simple Incidence	10/23 (43.5%)	13/26 (50.0%)	23/26 (88.5%)
	Terminal Incidence	10/21 (47.6%)	13/24 (54.2%)	23/26 (88.5%)
	Time-to-First	361 (T)	360 (T)	360 (T)
	CAFE P-Value	<.001 ***	0.433	<.001 ***
	Severity Profile	5 5 0 0	6 6 1 0	11 11 1 0
	JT/SW P-Value	0.001 **	0.295	0.002 **
	RTE P-Value	0.002 **	0.279	0.002 **
Urinary System				
Kidney * Casts Protein	Simple Incidence	2/23 (8.7%)	2/26 (7.7%)	4/26 (15.4%)
	Terminal Incidence	1/21 (4.8%)	1/24 (4.2%)	4/26 (15.4%)
	Time-to-First	307	315	361 (T)
	CAFE P-Value	0.297	0.647N	0.395
	Severity Profile	2 0 0 0	1 1 0 0	4 0 0 0
	JT/SW P-Value	0.222	0.534	0.274
	RTE P-Value	0.232	0.474N	0.232
Kidney * Cyst,Cortex	Simple Incidence	2/23 (8.7%)	4/26 (15.4%)	0/26 (0.0%)
	Terminal Incidence	2/21 (9.5%)	4/24 (16.7%)	0/26 (0.0%)
	Time-to-First	362 (T)	361 (T)	----
	CAFE P-Value	0.183N	0.395	0.215N
	Severity Profile			
	JT/SW P-Value			
	RTE P-Value			
Kidney * Cyst,Renal Tubule	Simple Incidence	0/23 (0.0%)	5/26 (19.2%)	4/26 (15.4%)
	Terminal Incidence	0/21 (0.0%)	3/24 (12.5%)	4/26 (15.4%)
	Time-to-First	----	257	361 (T)
	CAFE P-Value	0.084	0.034 *	0.071
	Severity Profile			
	JT/SW P-Value			
	RTE P-Value			
Kidney * Mineralization	Simple Incidence	11/23 (47.8%)	17/26 (65.4%)	14/26 (53.8%)
	Terminal Incidence	10/21 (47.6%)	16/24 (66.7%)	14/26 (53.8%)
	Time-to-First	307	257	360 (T)
	CAFE P-Value	0.407	0.171	0.447
	Severity Profile	11 0 0 0	10 6 1 0	7 5 1 1
	JT/SW P-Value	0.098	0.023 * ¹	0.064
	RTE P-Value	0.097	0.030 *	0.097

Table 11. Nonneoplasms by Body System for Interim Sacrifice Females EE2 Continuous Dose Arm				
System and Nonneoplasm		Treatment (ug/kg)		
Lesion	Statistic	Control	0.05	0.50
Kidney * Nephropathy	Simple Incidence	6/23 (26.1%)	13/26 (50.0%)	15/26 (57.7%)
	Terminal Incidence	5/21 (23.8%)	13/24 (54.2%)	15/26 (57.7%)
	Time-to-First	56	360 (T)	360 (T)
	CAFE P-Value	0.020 *	0.077	0.025 *
	Severity Profile	4 1 0 1	8 5 0 0	10 4 1 0
	JT/SW P-Value	0.021 *	0.051	0.022 *
	RTE P-Value	0.020 *	0.053	0.020 *

P-values for dose trend are presented in the “Control” column.

N indicates a negative trend or negative treatment comparison to control with corresponding lower-tail p-values.

¹ Nonsignificant SW test due to the assumption of monotonicity.

Table 12. Nonneoplasms by Body System for Interim Sacrifice Males EE2 Continuous Dose Arm

System and Nonneoplasm	Lesion	Statistic	Treatment (ug/kg)	
			Control	0.05
Alimentary System				
Liver * Clear Cell Focus	Simple Incidence	3/22 (13.6%)	0/26 (0.0%)	2/26 (7.7%)
	Terminal Incidence	3/18 (16.7%)	0/22 (0.0%)	2/23 (8.7%)
	Time-to-First	361 (T)	----	362 (T)
	CAFE P-Value	0.331N	0.089N	0.419N
Liver * Fatty Change	Simple Incidence	0/22 (0.0%)	1/26 (3.8%)	4/26 (15.4%)
	Terminal Incidence	0/18 (0.0%)	1/22 (4.5%)	4/23 (17.4%)
	Time-to-First	----	361 (T)	361 (T)
	CAFE P-Value	0.028 *	0.542	0.077
	Severity Profile	---	0 0 1 0	0 1 3 0
	JT/SW P-Value	0.016 *	0.179	0.021 *
	RTE P-Value	0.019 *	0.294	0.019 *
Liver * Hepatodiaphragmatic Nodule	Simple Incidence	0/22 (0.0%)	4/26 (15.4%)	4/26 (15.4%)
	Terminal Incidence	0/18 (0.0%)	3/22 (13.6%)	4/23 (17.4%)
	Time-to-First	----	348	362 (T)
	CAFE P-Value	0.077	0.077	0.077
Liver * Hyperplasia,Bile Duct	Simple Incidence	3/22 (13.6%)	3/26 (11.5%)	4/26 (15.4%)
	Terminal Incidence	2/18 (11.1%)	3/22 (13.6%)	4/23 (17.4%)
	Time-to-First	258	362 (T)	360 (T)
	CAFE P-Value	0.508	0.582N	0.597
	Severity Profile	2 0 1 0	2 1 0 0	4 0 0 0
	JT/SW P-Value	0.450	0.593	0.539
	RTE P-Value	0.460	0.412N	0.460
Liver * Infiltration Cellular,Mononuclear Cell	Simple Incidence	5/22 (22.7%)	13/26 (50.0%)	5/26 (19.2%)
	Terminal Incidence	5/18 (27.8%)	13/22 (59.1%)	5/23 (21.7%)
	Time-to-First	361 (T)	359 (T)	360 (T)
	CAFE P-Value	0.408N	0.049 *	0.521N
	Severity Profile	5 0 0 0	13 0 0 0	5 0 0 0
	JT/SW P-Value	0.328N	0.973N	0.470N
	RTE P-Value	0.395N	0.024 *	0.395N

Table 12. Nonneoplasms by Body System for Interim Sacrifice Males EE2 Continuous Dose Arm

System and Nonneoplasm	Lesion	Statistic	Treatment (ug/kg)	
			Control	0.05
Liver * Tension Lipidosis	Simple Incidence	1/22 (4.5%)	1/26 (3.8%)	2/26 (7.7%)
	Terminal Incidence	1/18 (5.6%)	1/22 (4.5%)	2/23 (8.7%)
	Time-to-First	362 (T)	362 (T)	360 (T)
	CAFE P-Value	0.434	0.712N	0.564
	Severity Profile	0 1 0 0	0 0 1 0	0 1 1 0
	JT/SW P-Value	0.302	0.536	0.370
	RTE P-Value	0.313	0.472N	0.313
Liver * Vacuolization Cytoplasmic	Simple Incidence	8/22 (36.4%)	2/26 (7.7%)	4/26 (15.4%)
	Terminal Incidence	8/18 (44.4%)	2/22 (9.1%)	3/23 (13.0%)
	Time-to-First	359 (T)	362 (T)	315
	CAFE P-Value	0.059N	0.018N*	0.090N
	Severity Profile	6 2 0 0	1 1 0 0	3 1 0 0
	JT/SW P-Value	0.047N*	0.010N**	0.019N*
	RTE P-Value	0.032N*	0.007N**	0.032N*
Pancreas * Degeneration,Acinus	Simple Incidence	19/22 (86.4%)	18/26 (69.2%)	21/25 (84.0%)
	Terminal Incidence	17/18 (94.4%)	16/22 (72.7%)	20/23 (87.0%)
	Time-to-First	173	323	346
	CAFE P-Value	0.517N	0.144N	0.574N
	Severity Profile	4 4 5 6	4 6 5 3	7 7 4 3
	JT/SW P-Value	0.119N	0.055N	0.086N
	RTE P-Value	0.101N	0.050N*	0.101N
Pancreas * Pigmentation	Simple Incidence	8/22 (36.4%)	10/26 (38.5%)	8/25 (32.0%)
	Terminal Incidence	7/18 (38.9%)	9/22 (40.9%)	7/23 (30.4%)
	Time-to-First	258	348	346
	CAFE P-Value	0.431N	0.560	0.497N
	Severity Profile	6 2 0 0	6 4 0 0	6 2 0 0
	JT/SW P-Value	0.373N	0.614N	0.454N
	RTE P-Value	0.385N	0.388	0.385N
Cardiovascular System				
Heart * Cardiomyopathy	Simple Incidence	16/22 (72.7%)	24/26 (92.3%)	23/26 (88.5%)
	Terminal Incidence	14/18 (77.8%)	21/22 (95.5%)	21/23 (91.3%)

Table 12. Nonneoplasms by Body System for Interim Sacrifice Males EE2 Continuous Dose Arm

System and Nonneoplasm	Statistic	Control	Treatment (ug/kg)
Lesion		0.05	0.50
	Time-to-First	258	323
	CAFE P-Value	0.106	0.077
	Severity Profile	11 4 1 0	15 7 2 0
	JT/SW P-Value	0.072	0.059
	RTE P-Value	0.066	0.062
Endocrine System			
Adrenal Cortex * Hyperplasia	Simple Incidence	0/22 (0.0%)	2/26 (7.7%)
	Terminal Incidence	0/18 (0.0%)	2/22 (9.1%)
	Time-to-First	----	361 (T)
	CAFE P-Value	0.629N	0.288
	Severity Profile	---	0 1 1 0
	JT/SW P-Value	0.444N	0.906N
	RTE P-Value	0.500N	0.059
Adrenal Cortex * Vacuolization Cytoplasmic	Simple Incidence	0/22 (0.0%)	3/26 (11.5%)
	Terminal Incidence	0/18 (0.0%)	2/22 (9.1%)
	Time-to-First	----	323
	CAFE P-Value	0.127	0.150
	Severity Profile	---	0 3 0 0
	JT/SW P-Value	0.088	0.052
	RTE P-Value	0.074	0.053
Parathyroid Gland * Hyperplasia	Simple Incidence	7/22 (31.8%)	6/26 (23.1%)
	Terminal Incidence	7/18 (38.9%)	5/22 (22.7%)
	Time-to-First	361 (T)	348
	CAFE P-Value	0.122N	0.361N
	Severity Profile	3 4 0 0	0 6 0 0
	JT/SW P-Value	0.126N	0.335N
	RTE P-Value	0.126N	0.311N
Pituitary Gland * Cyst,Pars Distalis	Simple Incidence	1/22 (4.5%)	3/26 (11.5%)
	Terminal Incidence	1/18 (5.6%)	3/22 (13.6%)
	Time-to-First	361 (T)	361 (T)
	CAFE P-Value	0.295	0.371

Table 12. Nonneoplasms by Body System for Interim Sacrifice Males EE2 Continuous Dose Arm

System and Nonneoplasm	Lesion	Statistic	Treatment (ug/kg)	
			Control	0.05
Pituitary Gland * Hyperplasia,Pars Distalis	Simple Incidence	4/22 (18.2%)	7/26 (26.9%)	2/26 (7.7%)
	Terminal Incidence	4/18 (22.2%)	6/22 (27.3%)	2/23 (8.7%)
	Time-to-First	359 (T)	118	362 (T)
	CAFE P-Value	0.203N	0.357	0.256N
	Severity Profile	3 1 0 0	4 2 1 0	1 1 0 0
	JT/SW P-Value	0.161N	0.785N	0.224N
	RTE P-Value	0.192N	0.190	0.192N
Thyroid Gland * Hyperplasia,C-Cell	Simple Incidence	10/22 (45.5%)	7/25 (28.0%)	9/24 (37.5%)
	Terminal Incidence	8/18 (44.4%)	7/22 (31.8%)	9/23 (39.1%)
	Time-to-First	173	361 (T)	360 (T)
	CAFE P-Value	0.354N	0.174N	0.402N
	Severity Profile	3 4 3 0	4 2 1 0	4 5 0 0
	JT/SW P-Value	0.217N	0.073N	0.142N
	RTE P-Value	0.199N	0.065N	0.199N
Thyroid Gland * Hyperplasia,Follicular Cell	Simple Incidence	1/22 (4.5%)	4/25 (16.0%)	2/24 (8.3%)
	Terminal Incidence	1/18 (5.6%)	4/22 (18.2%)	2/23 (8.7%)
	Time-to-First	359 (T)	362 (T)	361 (T)
	CAFE P-Value	0.443	0.216	0.533
	Severity Profile	0 1 0 0	0 0 4 0	0 0 2 0
	JT/SW P-Value	0.330	0.091	0.210
	RTE P-Value	0.315	0.072	0.315
Thyroid Gland * Ultimobranchial Cyst	Simple Incidence	5/22 (22.7%)	3/25 (12.0%)	8/24 (33.3%)
	Terminal Incidence	5/18 (27.8%)	3/22 (13.6%)	8/23 (34.8%)
	Time-to-First	353 (T)	361 (T)	360 (T)
	CAFE P-Value	0.237	0.278N	0.320
	RTE P-Value	0.235	0.072	0.315
Genital System				
Epididymis * Exfoliated Germ Cell	Simple Incidence	1/22 (4.5%)	4/26 (15.4%)	2/26 (7.7%)
	Terminal Incidence	1/18 (5.6%)	3/22 (13.6%)	2/23 (8.7%)
	Time-to-First	362 (T)	348	362 (T)
	CAFE P-Value	0.479	0.230	0.564
	Severity Profile	1 0 0 0	3 1 0 0	2 0 0 0
	JT/SW P-Value	0.396	0.109	0.243

Table 12. Nonneoplasms by Body System for Interim Sacrifice Males EE2 Continuous Dose Arm

System and Nonneoplasm	Statistic	Treatment (ug/kg)	
		Control	0.05
	RTE P-Value	0.359	0.104
		0.359	0.359
Epididymis * Hypospermia	Simple Incidence	2/22 (9.1%)	3/26 (11.5%)
	Terminal Incidence	1/18 (5.6%)	2/22 (9.1%)
	Time-to-First	258	323
	CAFE P-Value	0.333N	0.581
	Severity Profile	0 0 1 1	0 0 0 3
	JT/SW P-Value	0.251N	0.630N
	RTE P-Value	0.270N	0.362
		0.270N	0.270N
Epididymis * Infiltration Cellular,Lymphocyte	Simple Incidence	0/22 (0.0%)	1/26 (3.8%)
	Terminal Incidence	0/18 (0.0%)	1/22 (4.5%)
	Time-to-First	----	364 (T)
	CAFE P-Value	0.072	0.542
	Severity Profile	---	1 0 0 0
	JT/SW P-Value	0.038 *	0.179
	RTE P-Value	0.044 *	0.279
		0.044 *	0.044 *
Prostate, Dorsal/Lateral Lobe * Infiltration Cellular,Lymphocyte	Simple Incidence	4/22 (18.2%)	9/26 (34.6%)
	Terminal Incidence	4/18 (22.2%)	9/22 (40.9%)
	Time-to-First	361 (T)	359 (T)
	CAFE P-Value	0.442N	0.171
	Severity Profile	4 0 0 0	9 0 0 0
	JT/SW P-Value	0.361N	0.897N
	RTE P-Value	0.409N	0.101
		0.409N	0.409N
Prostate, Dorsal/Lateral Lobe * Inflammation,Suppurative	Simple Incidence	18/22 (81.8%)	25/26 (96.2%)
	Terminal Incidence	17/18 (94.4%)	22/22 (100.0%)
	Time-to-First	258	323
	CAFE P-Value	0.069	0.126
	Severity Profile	11 7 0 0	13 11 0 1
	JT/SW P-Value	0.059	0.069
	RTE P-Value	0.051	0.070
		0.051	0.051
Prostate, Ventral Lobe * Infiltration Cellular,Lymphocyte	Simple Incidence	8/22 (36.4%)	13/26 (50.0%)
	Terminal Incidence	7/18 (38.9%)	12/22 (54.5%)
	Time-to-First	173	118
		173	361 (T)

Table 12. Nonneoplasms by Body System for Interim Sacrifice Males EE2 Continuous Dose Arm

System and Nonneoplasm	Statistic	Treatment (ug/kg)	Control	0.05	0.50
Lesion					
	CAFE P-Value	0.222	0.256	0.256	
	Severity Profile	8 0 0 0	11 2 0 0	12 1 0 0	
	JT/SW P-Value	0.172	0.132	0.171	
	RTE P-Value	0.156	0.132	0.156	
Prostate, Ventral Lobe * Inflammation,Suppurative	Simple Incidence	10/22 (45.5%)	4/26 (15.4%)	5/26 (19.2%)	
	Terminal Incidence	10/18 (55.6%)	4/22 (18.2%)	5/23 (21.7%)	
	Time-to-First	353 (T)	361 (T)	361 (T)	
	CAFE P-Value	0.034N*	0.024N*	0.050N	
	Severity Profile	9 1 0 0	3 1 0 0	5 0 0 0	
	JT/SW P-Value	0.025N*	0.015N*	0.016N*	
	RTE P-Value	0.017N*	0.010N*	0.017N*	
Testes * Degeneration,Seminiferous Tubule	Simple Incidence	6/22 (27.3%)	12/26 (46.2%)	6/25 (24.0%)	
	Terminal Incidence	4/18 (22.2%)	10/22 (45.5%)	6/22 (27.3%)	
	Time-to-First	258	323	361 (T)	
	CAFE P-Value	0.440N	0.148	0.530N	
	Severity Profile	3 1 0 2	8 1 0 3	6 0 0 0	
	JT/SW P-Value	0.256N	0.878N	0.358N	
	RTE P-Value	0.298N	0.101	0.298N	
Hematopoietic System					
Spleen * Hematopoietic Cell Proliferation	Simple Incidence	0/22 (0.0%)	2/25 (8.0%)	0/25 (0.0%)	
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	0/23 (0.0%)	
	Time-to-First	----	323	----	
	CAFE P-Value	0.638N	0.278		
	Severity Profile	---	0 2 0 0	---	
	JT/SW P-Value	0.457N	0.910N	0.583N	
	RTE P-Value	0.500	0.058	0.500	
Spleen * Pigmentation	Simple Incidence	15/22 (68.2%)	18/25 (72.0%)	18/25 (72.0%)	
	Terminal Incidence	14/18 (77.8%)	17/22 (77.3%)	16/23 (69.6%)	
	Time-to-First	173	348	315	
	CAFE P-Value	0.452	0.512	0.512	
	Severity Profile	6 7 1 1	6 11 1 0	7 9 1 1	
	JT/SW P-Value	0.416	0.398	0.478	

Table 12. Nonneoplasms by Body System for Interim Sacrifice Males EE2 Continuous Dose Arm

System and Nonneoplasm	Lesion	Statistic	Treatment (ug/kg)	
			0.05	0.50
	RTE P-Value		0.413	0.399
			0.413	0.413
Thymus * Atrophy	Simple Incidence	18/22 (81.8%)	24/26 (92.3%)	21/24 (87.5%)
	Terminal Incidence	18/18 (100.0%)	22/22 (100.0%)	20/22 (90.9%)
	Time-to-First	353 (T)	323	346
	CAFE P-Value	0.370	0.256	0.449
	Severity Profile	2 1 1 14	0 3 5 16	1 2 9 9
	JT/SW P-Value	0.145N	0.640N	0.195N
	RTE P-Value	0.160N	0.341	0.160N
Integumentary System				
Mammary Gland * Hyperplasia,Lobular	Simple Incidence	2/22 (9.1%)	3/26 (11.5%)	2/25 (8.0%)
	Terminal Incidence	2/18 (11.1%)	2/22 (9.1%)	2/22 (9.1%)
	Time-to-First	361 (T)	118	361 (T)
	CAFE P-Value	0.539N	0.581	0.645N
	Severity Profile	0 2 0 0	2 1 0 0	2 0 0 0
	JT/SW P-Value	0.402N	0.577N	0.487N
	RTE P-Value	0.414N	0.416	0.414N
Nervous System				
Brain, Cerebrum * Dilatation,Ventricle	Simple Incidence	0/22 (0.0%)	0/26 (0.0%)	2/26 (7.7%)
	Terminal Incidence	0/18 (0.0%)	0/22 (0.0%)	2/23 (8.7%)
	Time-to-First	----	----	363 (T)
	CAFE P-Value	0.120		0.288
	Severity Profile	---	---	1 1 0 0
	JT/SW P-Value	0.045 *	0.500	0.061
	RTE P-Value	0.061	0.500	0.061
Urinary System				
Kidney * Cyst,Cortex	Simple Incidence	4/22 (18.2%)	3/26 (11.5%)	6/25 (24.0%)
	Terminal Incidence	4/18 (22.2%)	3/22 (13.6%)	6/23 (26.1%)
	Time-to-First	361 (T)	361 (T)	361 (T)
	CAFE P-Value	0.359	0.403N	0.451
Kidney * Cyst,Renal Tubule	Simple Incidence	4/22 (18.2%)	10/26 (38.5%)	4/25 (16.0%)
	Terminal Incidence	4/18 (22.2%)	10/22 (45.5%)	4/23 (17.4%)

<i>Table 12. Nonneoplasms by Body System for Interim Sacrifice Males EE2 Continuous Dose Arm</i>				
<i>System and Nonneoplasm</i>		<i>Treatment (ug/kg)</i>		
<i>Lesion</i>	<i>Statistic</i>	<i>Control</i>	<i>0.05</i>	<i>0.50</i>
	Time-to-First	362 (T)	361 (T)	361 (T)
	CAFE P-Value	0.467N	0.110	0.573N
Kidney * Nephropathy	Simple Incidence	16/22 (72.7%)	23/26 (88.5%)	23/25 (92.0%)
	Terminal Incidence	15/18 (83.3%)	21/22 (95.5%)	22/23 (95.7%)
	Time-to-First	173	346	346
	CAFE P-Value	0.054	0.154	0.086
	Severity Profile	9 5 2 0	12 7 3 1	13 7 2 1
	JT/SW P-Value	0.122	0.108	0.128
	RTE P-Value	0.112	0.106	0.112

P-values for dose trend are presented in the "Control" column.

N indicates a negative trend or negative treatment comparison to control with corresponding lower-tail p-values.

¹ Nonsignificant SW test due to the assumption of monotonicity.