

Historical control rates for NTP Tg.AC and p53 mice

G. E. Kissling

1/31/08

Tg.AC Females, 6 months

	Trimetholpropane triacrylate	Pentaerythritol triacrylate	Bromodichloromethane			Sodium bromate		Dichloroacetic acid		Dicyclohexyl-carbodiimide	Diisopropyl-carbodiimide	Total
	dermal	dermal	water	gavage	dermal	dermal	water	dermal	water	dermal	dermal	
Length of study (weeks)	28	27	26	26	26	26	27	26	26	20	20	
Stomach, Forestomach – squamous cell papilloma	4/15	5/15	4/15	6/15	2/15	6/15	6/15	7/15	5/15	0/10	0/10	45/155 (29.0%)
Tooth – odontogenic tumor	1/15	4/15	3/15	4/15	2/15	3/15	1/15	5/15	2/15	3/10	3/10	31/155 (20.0%)
Skin – vulva, squamous cell papilloma	0/15	0/15	0/15	0/15	0/15	0/15	0/15	0/15	0/15	0/10	0/10	0/155 (0.0%)
Skin – squamous cell papilloma	0/15	0/15	0/15	1/15	1/15	5/15	6/15	6/15	4/15	0/10	1/10	24/155 (15.5%)
Skin – SOA, squamous cell papilloma	0/15	0/15			0/15	0/15		0/15		0/10	1/10	1/95 (1.1%)
Lung – alveolar/bronchiolar adenoma	1/15	0/15	0/15	0/15	0/15	0/15	0/15	0/15	0/15	0/10	0/10	1/155 (0.6%)
Nose – respiratory epithelium, adenoma										0/10	1/10	1/20 (5.0%)
Vagina – squamous cell papilloma			2/2									2/2 (100%)
Salivary glands - carcinoma	1/1		1/1	1/1	1/1		1/1	1/1	1/1		0/10	7/17 (41.2%)
Intestine, small – jejunum, carcinoma											1/9	1/9 (11.1%)
Intestine large, rectum – anus, squamous cell papilloma						0/1	1/1		2/2			3/4 (75.0%)
Multiple organs – leukemia erythrocytic	0/15	1/15	2/15	2/15	0/15	0/15	1/15	1/15	1/15	1/10	1/10	10/155 (6.5%)
Multiple organs – lymphoma malignant	0/15	0/15	0/15	0/15	0/15	0/15	1/15	0/15	0/15	1/10	0/10	2/155 (1.3%)

Tg.AC Males, 6 months

	Trimethylolpropane triacrylate	Pentaerythritol triacrylate	Bromodichloromethane			Sodium bromate		Dichloroacetic acid		Overall
	dermal	dermal	water	gavage	dermal	dermal	water	dermal	water	
Length of study (weeks)	28	27	26	26	26	26	27	26	26	
Stomach, Forestomach – squamous cell papilloma	5/15	6/15	5/15	9/15	4/15	3/15	7/15	1/15	4/15	44/135 (32.6%)
Tooth – odontoma	1/15	2/15	4/15	3/15	3/15	3/15	3/15	2/15	1/15	22/135 (16.3%)
Skin – squamous cell papilloma	0/15	0/15	6/15	1/15	1/15	2/15	0/15	5/15	2/15	17/135 (12.6%)
Skin – SOA, squamous cell papilloma	0/15	1/15	0/15	0/15	0/15	0/15	0/15	0/15	0/15	1/135 (0.7%)
Lung – alveolar/bronchiolar adenoma	0/15	2/15	0/15	0/15	1/15	0/15	0/15	1/15	0/15	4/135 (3.0%)
Salivary glands - carcinoma		1/1	0/1					1/1		2/3 (66.7%)
Multiple organs – leukemia erythrocytic	0/15	0/15	0/15	1/15	1/15	0/15	0/15	0/15	0/15	2/135 (1.5%)

Tg.AC Females, 9 months

	Aspartame	Acesulfame potassium	Bromodichloromethane			Sodium bromate		Dichloroacetic acid		Allyl bromide	Total
	feed	feed	water	gavage	dermal	dermal	water	dermal	water	gavage	
Length of study (weeks)	40	40	42	41	39	39	43	39	41	40	
Stomach, Forestomach – squamous cell papilloma	4/15	9/14	5/10	4/10	1/10	2/9	1/10	6/10	6/10	8/14	46/112 (41.1%)
Tooth – odontogenic tumor	4/15	2/15	3/10	4/10	4/10	2/9	3/10	4/10	1/10	2/15	29/114 (25.4%)
Skin – squamous cell carcinoma	0/15	0/15	0/10	0/10	1/10	0/9	0/10	1/10	0/10	0/15	2/114 (1.8%)
Skin – vulva, squamous cell papilloma	1/15	2/15	0/10	0/10	0/10	0/9	0/10	0/10	0/10	2/15	5/114 (4.4%)
Skin – squamous cell papilloma	0/15	1/15	6/10	6/10	6/10	6/9	5/10	7/10	6/10	1/15	44/114 (38.6%)
Skin – lip, squamous cell papilloma										1/15	1/15 (6.7%)
Skin – SOA, squamous cell papilloma					0/10	1/9		0/10			1/29 (3.4%)
Lung – alveolar/bronchiolar adenoma	1/15	1/15	0/10	0/10	0/10	0/9	1/10	0/10	0/10	0/14	2/113 (1.8%)
Ovary – teratoma, benign	0/15	0/13	0/10	0/10	0/10	1/9	0/10	0/10	0/10	0/13	1/112 (0.9%)
Ovary - luteoma	0/15	0/13	0/10	0/10	0/10	0/9	1/10	0/10	0/10	0/13	1/112 (0.9%)
Vagina - leiomyosarcoma	0/15	0/13			1/2						1/30 (3.3%)
Vagina – squamous cell papilloma	0/15	0/13			1/2						1/30 (3.3%)
Salivary glands - carcinoma	0/15	0/14	1/1			0/1	1/1				2/32 (6.3%)
Intestine large, rectum – anus, squamous cell papilloma	0/15	0/13							1/1		1/29 (3.4%)
Multiple organs – leukemia erythrocytic	1/15	2/15	1/10	0/10	2/10	1/9	0/10	0/10	3/10	0/15	10/114 (8.8%)
Multiple organs – lymphoma malignant	0/15	0/15	0/10	0/10	0/10	0/9	0/10	1/10	0/10	2/15	3/114 (2.6%)
Zymbal's gland - carcinoma	0/15	0/11				1/2					1/28 (3.6%)

Tg.AC Males, 9 months

	Aspartame	Acesulfame potassium	Bromodichloromethane			Sodium bromate		Dichloroacetic acid		Allyl bromide	Total
	feed	feed	water	gavage	dermal	dermal	water	dermal	water	gavage	
Length of study (weeks)	40	40	42	41	39	39	43	39	41	40	
Stomach, Forestomach – squamous cell papilloma	8/12	5/15	7/10	8/10	3/10	3/10	4/10	7/10	5/10	6/15	56/112 (50.0%)
Tooth – odontoma	3/15	4/15	3/10	4/10	3/10	2/10	3/10	1/10	2/10	5/15	30/115 (26.1%)
Skin – squamous cell carcinoma	0/15	0/15	0/10	0/10	0/10	1/10	0/10	0/10	0/10	0/15	1/115 (0.9%)
Skin – prepuce, squamous cell papilloma	0/15	1/15	0/10	0/10	0/10	0/10	0/10	0/10	0/10	0/15	1/115 (0.9%)
Skin – lip, squamous cell papilloma	0/15	2/15	0/10	0/10	0/10	0/10	0/10	0/10	0/10	1/15	3/115 (2.6%)
Skin – squamous cell papilloma	0/15	1/15	8/10	5/10	6/10	7/10	5/10	8/10	9/10	5/15	54/115 (50.0%)
Skin – dermis, mast cell tumor, benign	0/15	1/15	0/10	0/10	0/10	0/10	0/10	0/10	0/10	0/15	1/115 (0.9%)
Lung – alveolar/bronchiolar adenoma	0/14	1/15	0/10	0/10	0/10	1/10	1/10	0/10	1/10	1/15	5/115 (4.3%)
Thyroid gland - adenoma	0/13	1/15	0/10	0/10	0/10	0/10	0/10	0/10	0/10	0/15	1/113 (0.9%)
Salivary glands - carcinoma	0/13	0/14		2/2	1/1	1/2					4/32 (12.5%)
Salivary glands - carcinosarcoma	0/13	0/14		0/2		1/2					1/31 (3.2%)
Multiple organs – leukemia erythrocytic	1/15	0/15	1/10	0/10	0/10	0/10	2/10	1/10	0/10	0/15	5/115 (4.3%)

p53 Females, 6 months

	Bromodichloro- methane		Sodium bromate	Diisopropyl- carbodiimide	Dichloroacetic acid	Dicyclohexyl- carbodiimide	Diisopropyl- carbodiimide	Overall
	water	gavage	water	dermal	water	dermal	dermal	
Length of study (weeks)	26	26	27	27	26	27	26	
Uterus – stromal polyp	1/15	0/15	1/15	0/15	1/15	0/15	0/15	3/105 (2.9%)
Multiple organs – lymphoma malignant	0/15	0/15	1/15	0/15	0/15	0/15	0/15	1/105 (1.0%)

p53 Males, 6 months

	Bromodichloro- methane		Sodium bromate	Dichloroacetic acid	Overall
	water	gavage	water	water	
Length of study (weeks)	26	26	27	26	
Liver – hepatocellular adenoma	1/15	0/15	0/15	0/15	1/60 (1.7%)
Thyroid gland – follicular cell carcinoma	1/15	0/15	0/15	0/15	1/60 (1.7%)
Multiple organs – lymphoma malignant	0/15	0/15	1/15	0/15	1/60 (1.7%)

p53 Females, 9 months

	Aspartame	Acesulfame potassium	Bromodichloro-methane		Sodium bromate	Dichloroacetic acid	Overall
	feed	feed	water	gavage	water	water	
Length of study (weeks)	40	40	42	41	43	41	
Bone – osteosarcoma	1/15	1/15		1/1		0/10	3/41 (7.3%)
Uterus – stromal polyp	0/15	0/15	2/10	0/10	0/10	0/10	2/70 (2.9%)
Pituitary gland – pars distalis adenoma	1/9	0/13	0/10	0/10	0/10	0/10	1/62 (1.6%)
Mammary gland – carcinoma	1/13	0/15	0/10	0/10	0/10	0/10	1/68 (1.5%)
Skin – carcinoma	0/15	0/15	1/10	0/10	0/10	0/10	1/70 (1.4%)
Ovary - cystadenoma	0/15	0/15	0/10	0/10	1/10	0/10	1/70 (1.4%)
Multiple organs – lymphoma malignant	1/15	0/15	0/10	0/10	2/10	0/10	3/70 (4.3%)

p53 Males, 9 months

	Aspartame	Acesulfame potassium	Bromodichloro-methane		Sodium bromate	Dichloroacetic acid	Overall
	feed	feed	water	gavage	water	water	
Length of study (weeks)	40	40	42	41	43	41	
Bone – osteosarcoma	0/15	0/15			1/10	0/10	1/50 (2.0%)
Liver – hepatocellular adenoma	0/15	0/15	0/10	2/10	0/10	0/10	2/70 (2.9%)
Multiple organs – lymphoma malignant	0/15	0/15	1/10	1/10	0/10	0/10	2/70 (2.9%)