### DOG CLINICAL TRIALS

Supervised by W. Jean Dodds, DVM, Conducted at The HEMOPET Center for Greyhound Rescue and Pet Animal Recovery, Garden Grove, CA.

#### **OBJECTIVE**

Clinical Research Trials were conducted to prove the overall efficacy and specifically, the retardation of plaque achieved through use of dog::ESSENTIAL™ healthymouth™ dental care water. There were six phases to the trials.

#### Phase 1:

Selection of Hemopet greyhounds to be in each of the two studies (40 dogs per study). The criteria used in selecting the greyhounds were as follows: Adoption greyhounds received first priority as they are most used to having their teeth cleaned. Second priority was based on kennel housing; one entire kennel of test dogs on healthymouth<sup>TM</sup> and another entire kennel of control dogs on double purified water only. Dogs missing teeth were not permitted to be in the study group.

#### Phase 2:

An anesthesia dental cleaning was given to each of the forty dogs in the study groups. Hemopet's veterinarian and veterinary technician hygienist administered all cleanings.

#### Phase 3:

healthymouth<sup>™</sup> was substituted for all regular water in test group, double purified water only for control group.

#### Phase 4:

Before a dog entered into the study, and after the dental cleaning, the dog was scored at a level of 0 (this means completely plaque and tartar free) for both the upper and lower jaws. This scoring was entered into the clinical trial journal.

#### Phase 5:

After a dog was entered, that dog was re-scored every seven days on both the upper and lower jaws. All dogs were scored on the upper and lower jaws. Each study lasted for twenty-eight days. After each seven-day interval the results were entered into the clinical trial log. Each dog had a dedicated journal space to record the weekly scoring.

The entire study was supervised by W. Jean Dodds DVM and facilitated monitored by the Veterinary Technician staff of Hemopet including Heidi Stahl (the dental hygienist), Wendy Crone and Mark Lojero, as well as a supervising attendant on duty.

#### TRIAL PARTICIPANTS

There were two trials. In each trial there were 40 greyhounds, 20 in control group, 20 in test group.

Duration of clinical: 28 weeks

## **CLINICAL TRIAL ORGANIZATION**

dog::ESSENTIAL replaced all drinking water in the test group with healthymouth<sup>TM</sup>, while the control group was given double purified water. Each trial began with the a dental cleaning by the HEMOPET staff dental hygienist on every dog in both groups; providing the study with 40 clean mouthed dogs free of all plaque and tartar with a dental score of 0. Teeth (upper jaw and lower jaw) of each dog in both the test and control group were scored and examined every seven days until to determine the amount of plaque accumulation on each of the relevant teeth on both the upper and lower jaws.

Plaque points used: 0=no plaque 1=1/3 with plaque 2=1/3 to % with plaque 3= more than % with plaque

Each dog's scores were then recorded in the clinical study log dedicated to each specific trial. The scoring was conducted by the HEMOPET Veterinarian Technicians.

#### **OBSERVATIONS**

Throughout the two studies, it was observed by the Veterinary Technicians and dental hygenist that the longer the test dogs drank healthymouth™ the better their results (less and less plaque accumulation). By the end of the twenty-eight day trial, the benefits showed no indication of plateau.

Throughout the two studies it was observed that healthymouth™ made tartar and plaque very soft and easy to remove. The dental hygienist during each seven day re-scoring observed that plaque left on the teeth of the control group dogs had hardened and had to be removed with an instrument. Any plaque left on the teeth of the test dogs fell off on its own or could be easily wiped away with a dry piece of gauze.

#### **RESULTS**

At the conclusion of clinical trials, all data was compiled and calculated based on formatted statistics, by the Lab Director of HEMOPET, Ferdie Ongchangco; producing the Plaque Index Summary.

The data conclusion found plaque reduced 80% on the upper jaw and 77% on the lower for all participants in the test group, for a total reduction of plaque ~80%.

#### **ABOUT HEMOPET**

Veterinary transfusion medicine is a vibrant emerging specialty. HEMOPET, HEMOPET is a 501 (c) (3) charitable organization, established the first private non-profit animal blood bank in 1991 and has since expanded worldwide. HEMOPET services over 2000 veterinary clinics nationwide and in Canada. Hemopot's licensed facility houses a colony of healthy, canine donors of universal blood type (DEA 4), maintained in an outstanding environment, screened for an inclusive list of pathogens, and current on all vaccinations. All canines are all rescued Greyhounds deemed unsuitable for the racing industry. HEMOPET currently maintains 175 donors in a large facility in Garden Grove, California and has initiated a novel rescue-donor-adoption program for them. All dogs have been neutered and receive on-site 24 hours-a-day veterinary care and maintenance. Dr. Dodds is actively expanding HEMOPET's range of nonprofit services and educational activities. The animal blood bank program provides canine blood components, blood bank supplies, and related services throughout North America. HEMOPET's retired Greyhound blood donors are adopted as pets through the Pet Life-Line arm of the project. On behalf of HEMOPET, Dr. Dodds consults in clinical pathology nationally and internationally.

#### First Experiment OCT to DEC 2007 First 4 Weeks Upper Jaw

	Test (Treated)	
1	JayRack	1
3	Torie	2
5	Monica	3
7	Poppy	4
9	Louise	5
11	Lick Ums	6
13	Bid	7
15	Heiress	8
17	Venus	9
20	Willow	10
21	Rich	11
23	Stetson	12
25	Tina	13
27	Jennifer	14
29	Ocean	15
31	Jingle	16
33	Case	17
36	Siren	18
37	Art	19
39	Mache Man	20

	UP	PER J	AW			PER J	AW		UPI	PER J	AW			UP	PER J	AW			
13	ပ	Р3	P4	МІ	13	U	P3	P4	MI	13	U	P3	P4	MI	13	U	P3	P4	MI
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	0	1	1
0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1
0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	1
0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1	1
0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	1
0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	1
0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	1
0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	1

n mean sd mode

20 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.4 0.0 0.1 0.4 0.1 1.0 0.1 0.2 0.5 0.2 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.5 0.0 0.3 0.5 0.2 0.2 0.2 0.4 0.5 0.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 1.0 0.0 0.0

ALL 400 0.19 0.39 0.00

ALL 400

0.73

0.67

1.00

First 4 Weeks Upper J	aw
Control (not treated)	

38 Geronimo

40 Karma

	Control (not treated)	
2	Whoopsie	1
4	Busted	2
6	Leslie	3
8	Matinee	4
10	Clear lake	5
12	Good fella	6
14	Timmy	7
16	Benny	8
18	Fran	9
19	Koko QT	10
22	Flurry	11
24	Juice	12
26	Alison	13
28	Yukon	14
30	Arnie	15
32	Beamer	16
	Zap	17
35	Cheezit	18

1		UPI	PER J	AW			UPI	PER J	AW			UP	PER J	AW			UPI	PER J	AW	
	13	С	P3	P4	MI	13	С	P3	P4	MI	13	С	P3	P4	MI	13	ပ	P3	P4	MI
	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	2
	0	0	0	0	0	0	0	0	0	1	1	0	1	1	1	1	1	1	1	1
	0	0	0	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	2
	0	0	0	0	0	1	0	0	0	1	1	1	1	1	1	1	2	1	1	1
	0	0	0	0	0	1	0	1	0	1	1	1	1	1	1	1	1	2	1	2
	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	2	1	2
	0	0	0	0	0	1	0	1	0	1	1	1	1	1	2	1	1	2	1	2
	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	2	1	2
	0	0	0	0	0	0	0	1	0	1	1	0	1	1	1	1	1	1	2	2
	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	2	1	1	1	2
	0	0	0	0	0	1	0	0	1	1	1	1	1	1	2	1	1	2	1	2
	0	0	0	0	0	1	0	0	0	1	1	1	1	1	2	1	1	2	1	2
	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	2	1	2
	0	0	0	0	0	1	1	1	0	1	1	1	1	1	2	1	1	2	1	2
	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	2	2	2
	0	0	0	0	0	1	1	0	0	1	1	1	1	1	2	2	1	2	2	3
	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	1	2	2	2
	0	0	0	0	0	1	1	0	1	1	1	1	1	2	2	2	1	1	2	2
	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	1
	0	0	0	0	0	0	1	1	0	1	1	1	1	1	2	1	1	2	2	2

n mean sd mode 18

19

20

20																			
0.0	0.0	0.0	0.0	0.0	0.6	0.4	0.3	0.3	1.0	1.0	0.9	1.0	1.0	1.4	1.2	1.0	1.6	1.3	1.9
0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.2	0.4	0.0	0.3	0.5	0.5	0.3	0.5	0.6	0.4
0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	2.0

Total Points (test and control) Points for Test (treated) Grp Points for Control (not) Grp % improvement

/5
293
72%

I	368	% plaque re	emainin
	75	28%	
	293	72%	
	72%	-	•

Plaque points used:

0 = no plaque

1 = less than 1/3 plaque

2 = 1/3 to 2/3 with plaque

3 = more than 2/3 with plaque

\*an Effect Size value of 0.5 represents a Moderate, and 0.8 a Large statistical and clinical difference between the two groups.

n mean sd

iest
(Treated)
400
0.1875
0.3908

Control
(not treated)
400
0.7325
0.6724

#### First Experiment OCT to DEC 2007

	First week Lower Jaw				OWE				_	R JAW				R JAW	_			R JAW	_	total
	TESTS (treated)			С	P3	P4	M1	C	P3	P4	M1	С	P3	P4	M1	С	P3	P4	M1	points
1	JayRack		1	0	0	0	0	0	0	0	1	0	0	0	1	1	1	0	1	5
3	Torie		2	0	0	0	0	0	0	1	0	0	0	1	1	0	0	1	1	5
5	Monica		3	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
7	Poppy		4	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	1	5
	Louise		5	0	0	0	0	0	0	1	1	0	0	1	1	0	0	1	1	6
	Lick Ums Bid		6 7	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	1	2
	Heiress		8	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	5 3
	Venus		9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Willow		10	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	3
	Rich		11	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	3
	Stetson		12	0	0	0	0	0	1	0	0	0	1	0	1	0	1	1	1	6
	Tina		13	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	3
	Jennifer		14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
	Ocean		15	0	0	0	0	0	0	0	0	0	Ō	0	1	0	0	0	1	2
	Jingle		16	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	1	4
	Case	1	17	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	4
36	Siren	1	18	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	1	4
37	Art	1	19	0	0	0	0	0	1	0	0	0	1	0	1	0	1	0	1	5
39	Mache Man	2	20	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	1	4
																				AVE 72
		n		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	320
		mean		0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4	0.0	0.3	0.2	0.8	0.1	0.5	0.3	0.9	0.2
		sd		0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.5	0.0	0.4	0.4	0.4	0.2	0.6	0.5	0.4	0.4
		mode		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0
	First week Lower Jaw			L	.OWEF	R JAW			LOWE	R JAW				R JAW			LOWE	R JAW		total
	CONTROLS (not treated)			С	P3	P4	M1	O	P3	P4	M1	С	P3	P4	M1	O	P3	P4	M1	points
2	Whoopsie		1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	2	8
4	Busted		2	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	6
6	Leslie		3	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	7
8	Matinee		4	^	0	0	0	^		^	^			4						
			4	0				0	0	0	0	1	1	1	1	1	1	1	1	8
	Clear lake		5	0	0	0	0	0	1	0	1	1	1	1	2	1	2	1	2	13
12	Clear lake Good fella		5 6	0	0	0	0	0	1	0	1	1	1	1	2	1	2	1	2	13 12
12 14	Clear lake Good fella Timmy		5 6 7	0 0 0	0 0	0 0	0 0	0 0	1 1 1	0 0 1	1 1 1	1 1	1 1 1	1 1 1	2 2	1 1	1 1	1 1 2	2 2 2	13 12 14
12 14 16	Clear lake Good fella Timmy Benny		5 6 7	0 0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	1 1 1	0 0 1 0	1 1 1	1 1 1	1 1 1	1 1 1	2 2 2	1 1 1	2 1 1 2	1 1 2 1	2 2 2 1	13 12 14 11
12 14 16 18	Clear lake Good fella Timmy Benny Fran		5 6 7 8 9	0 0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	1 1 1 1 0	0 0 1 0 0	1 1 1 1	1 1 1 1 1	1 1 1 1	1 1 1 1	2 2 2 1	1 1 1 1 1	2 1 1 2 2	1 1 2 1	2 2 2 1 2	13 12 14 11 11
12 14 16 18 19	Clear lake Good fella Timmy Benny Fran Koko QT	1	5 6 7 8 9	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 0 0	1 1 1 1 0 0	0 0 1 0 0	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1	2 2 2 1 1	1 1 1 1 1 1	2 1 1 2 2 2	1 1 2 1 1	2 2 2 1 2	13 12 14 11 11
12 14 16 18 19 22	Clear lake Good fella Timmy Benny Fran Koko QT Flurry	1 1	5	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	1 1 1 1 0 0	0 0 1 0 0 1	1 1 1 1 1 1 1 0	1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1 1 2	2 2 2 1 1 1	1 1 1 1 1 1 1	2 1 1 2 2 1	1 1 2 1 1 1 2	2 2 2 1 2 2 2	13 12 14 11 11 11
12 14 16 18 19 22 24	Clear lake Good fella Timmy Benny Fran Koko QT Flurry Juice	1 1 1	5	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	1 1 1 1 0 0 1 1	0 0 1 0 0 0 1 0	1 1 1 1 1 1 0	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 2	2 2 2 1 1 1 1	1 1 1 1 1 1 1	2 1 1 2 2 1 1 1	1 1 2 1 1 1 2 2	2 2 2 1 2 2 2 2	13 12 14 11 11 11 12
12 14 16 18 19 22 24 26	Clear lake Good fella Timmy Benny Fran Koko QT Flurry Juice Alison	1 1 1	5	0 0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0	1 1 1 1 0 0 1 1 1	0 0 1 0 0 1 0 0	1 1 1 1 1 1 0 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 2 1 0	2 2 2 1 1 1 1 1	1 1 1 1 1 1 1 1	2 1 1 2 2 2 1 1 1 2	1 1 2 1 1 1 2 2 1	2 2 2 1 2 2 2 2 2	13 12 14 11 11 11 12 12
12 14 16 18 19 22 24 26 28	Clear lake Good fella Timmy Benny Fran Koko QT Flurry Juice Alison Yukon	1 1 1 1	5	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	1 1 1 1 0 0 1 1 1 1	0 0 1 0 0 1 0 0 1 0	1 1 1 1 1 1 0 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 2 1 0	2 2 2 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1	2 1 1 2 2 1 1 1 1 2 2	1 1 2 1 1 1 2 2 1 1	2 2 2 1 2 2 2 2 2 2 2	13 12 14 11 11 11 12 12 12
12 14 16 18 19 22 24 26 28 30	Clear lake Good fella Timmy Benny Fran Koko QT Flurry Juice Alison Yukon Arnie	1 1 1 1 1	5	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	1 1 1 1 0 0 1 1 1 1 0	0 0 1 0 0 1 0 0 1 0	1 1 1 1 1 1 0 1 1 1	1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 2 1 0 1	2 2 2 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	2 1 1 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2	1 1 2 1 1 1 2 2 1 1 1	2 2 2 1 2 2 2 2 2 2 2 2	13 12 14 11 11 11 12 12 12 12
12 14 16 18 19 22 24 26 28 30 32	Clear lake Good fella Timmy Benny Fran Koko QT Flurry Juice Alison Yukon Arnie Beamer	1 1 1 1 1 1	5 6 7 8 9 9 10 11 1 12 13 14 15 16 16	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	1 1 1 1 0 0 1 1 1 1 0	0 0 1 0 0 1 0 0 1 0 0	1 1 1 1 1 1 0 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 2 1 0 1 1 1	2 2 2 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 2 2 1 1 1 1 2 2 2 1 1 1 2 2 2 1	1 1 2 1 1 1 2 2 2 1 1 1 1 2 2	2 2 2 1 2 2 2 2 2 2 2 2 2 3	13 12 14 11 11 11 12 12 12 12 12
12 14 16 18 19 22 24 26 28 30 32 34	Clear lake Good fella Timmy Benny Fran Koko QT Flurry Juice Alison Yukon Arnie Beamer Zap	1 1 1 1 1 1	5 6 7 8 9 10 111 12 13 14 15 16 17	0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 1 0	1 1 1 1 0 0 1 1 1 1 0 0 1 1 1 0	0 0 1 0 0 1 0 0 1 0 0 0 1 0 0	1 1 1 1 1 1 0 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 2 1 0 1 1 1 1	2 2 2 1 1 1 1 1 1 1 1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2	2 1 1 2 2 1 1 1 1 2 2 2 2 1 1 2 2 2 1 1 2 2 2 2 1 2 2 2 2 2 2 1 2	1 1 2 1 1 1 2 2 1 1 1 1 1 2 2 1 1 1 1 1	2 2 2 1 2 2 2 2 2 2 2 2 2 3 3	13 12 14 11 11 11 12 12 12 12 12 16 16
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12 14 16 18 19 22 24 26 28 30 32 34 35 38	Clear lake Good fella Timmy Benny Fran Koko QT Flurry Juice Alison Yukon Arnie Beamer Zap Cheezit Geronimo Karma  Total Points (test and co	1 1 1 1 1 1 1 1 2 n mean sd mode ontrol) d) Grp t) Grp ement	5 6 7 8 8 9 9 100 111 122 133 144 1515 1515 1517 1718 1819 1919 1919 1919 1919 1919 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 1 0	1 1 1 1 0 0 1 1 1 0 1 1 1 0 1 1 1 1 0 0 1 1 1 1 1 1 1 0 0 0 1	0 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 1 2 2 1 1 1 1 2 2 2 1 1 2 2 1 3 2 1 3 1 1 3 1 1 1 2 1 1 1 1	1 1 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 2 2 1	2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	13 12 14 11 11 11 12 12 12 12 12 12 16 16 15 5 17 ALL 320 0.72 0.72
12 14 16 18 19 22 24 26 28 30 32 34 35 38	Clear lake Good fella Timmy Benny Fran Koko QT Flurry Juice Alison Yukon Arnie Beamer Zap Cheezit Geronimo Karma  Total Points (test and co	1 1 1 1 1 1 1 1 2 n mean sd mode ontrol) d) Grp t) Grp ement	5 6 7 8 8 9 9 100 111 122 133 144 1515 1515 1517 1718 1819 1919 1919 1919 1919 1919 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 1 1 0	1 1 1 1 0 0 1 1 1 0 1 1 1 0 1 1 1 1 0 0 1 1 1 1 1 1 1 0 0 0 1	0 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 1 2 2 1 1 1 1 2 2 2 1 1 2 2 1 3 2 1 3 1 1 3 1 1 1 2 1 1 1 1	1 1 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 2 2 1	2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	13 12 14 11 11 11 12 12 12 12 12 12 16 16 15 5 17 ALL 320 0.72 0.72
12 14 16 18 19 22 24 26 28 30 32 34 35 38	Clear lake Good fella Timmy Benny Fran Koko QT Flurry Juice Alison Yukon Arnie Beamer Zap Cheezit Geronimo Karma  Total Points (test and co	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 6 7 8 8 9 9 100 111 122 133 144 1515 1515 1517 1718 1819 1919 1919 1919 1919 1919 19	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0	1 1 1 1 0 0 1 1 1 0 1 1 1 0 1 1 1 1 0 0 1 1 1 1 1 1 1 0 0 0 1	0 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 1 2 2 1 1 1 1 2 2 2 1 1 2 2 1 3 2 1 3 1 1 3 1 1 1 2 1 1 1 1	1 1 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 2 2 1	2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	13 12 14 11 11 11 12 12 12 12 12 12 16 16 15 5 17 ALL 320 0.72 0.72
12 14 16 18 19 22 24 26 28 30 32 34 35 38	Clear lake Good fella Timmy Benny Fran Koko QT Flurry Juice Alison Yukon Arnie Beamer Zap Cheezit Geronimo Karma  Total Points (test and co	1 1 1 1 1 1 1 1 1 1 2 n mean sd mode ontrol) d) Grp t) Grp ement n mean sd	5 6 7 8 8 9 9 10 111 122 1314 145 15 166 177 18 18 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0	1 1 1 1 0 0 1 1 1 0 1 1 1 0 1 1 1 1 0 0 1 1 1 1 1 1 1 0 0 0 1	0 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 0 1 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 1 2 2 1 1 1 1 2 2 2 1 1 2 2 1 3 2 1 3 1 1 3 1 1 1 2 1 1 1 1	1 1 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1 1 2 2 1	2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	13 12 14 11 11 11 12 12 12 12 12 12 16 16 15 5 17 ALL 320 0.72 0.72

#### **Anti-Plaque Water**

Test subjects: Greyhounds from HEMOPET Study dates: Oct 2007 to December 2007

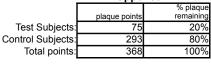
Data for First 4 Weeks

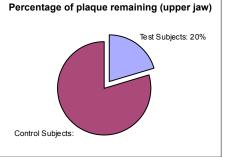
Total Test Subjects: 20 Total Test Controls: 20 Plaque points used: 0 = no plaque

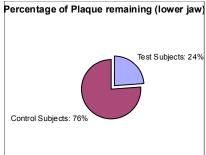
1 = less than 1/3 plaque

2 = 1/3 to 2/3 with plaque 3 = more than 2/3 with plaque

#### **Upper Jaw** plaque points Test Subjects 20% 293 80% Total points 368 100%







#### Lower Jaw

		% plaque
	plaque points	remaining
Test Subjects:	72	24%
Control Subjects:	230	76%
Total points:	302	100%

**Combined Upper and Lower Jaws** 

Mean Mouth Plaque Score =26.15 (C);7.35 (T

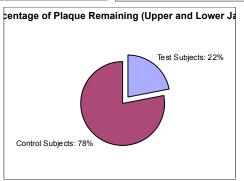
Γ)	plaque points	remaining
Test Subjects:	147	22%
Control Subjects:	523	78%
Total points:	670	100%

**VOHC** % Reduction = 26.15-7.35 ÷ 26.15 = 71.9 %

% Effectivity: 71.90%

t Toot: Daired Two Cample for Moone

t-Test: Paired_	Two Sample	e for Means		
Ī	Uppe	r Jaw	Lowe	r Jaw
	Test	Control	Test	Control
n	400	400	320	320
mean	0.1875	0.7325	0.2250	0.7188
sa	0.3908	0.6724	0.4257	0.7185
Std Error of Mean (SEM)	0.01954	0.33620	0.02380	0.04017
Lower 95% conf. limit	0.1492	0.6666	0.1784	0.6400
Upper 95% conf. Limit	0.2258	0.7984	0.2716	0.7975
min	0.000	0.000	0.000	0.000
max	1.0000	3.0000	2.000	3.000
median (50th percentile)	0.000	1.000	0.000	1.000
Normality Test KS	0.4968	0.2621	0.4796	0.2664
Normality p	<0.0001	<0.0001	<0.0001	< 0.0001
two-tailed p	<0.0	001	<0.0	0001
4	18.	589	13.	628
df	39	99	3′	19
95 % confidence interval:				
Mean of paired differences =	-0.5	450	-04	938
The 95% confidence interval of the difference	-0.6026 to	o -0.4874	-0.5650 t	o -0.4225
r[	0.49	1660	0.45	350
one-tailed p	<0.0	0001	<0.0	0001
Kolmogorov and Smirnov distance KS	0.32	2000	0.33	3000
KS p	<0.0	001	<0.	001



#### Upper Jaw 2nd Experiment Feb to Mar 2008

#### First 4 Weeks Upper Jaw

	Test (Treated)	
1	GAME	1
3	ROOSKIE	2
5	BEAMER	3
7	CONKER	4
9	AUTHORITY	5
11	BE-REAL	6
13	BRAX	7
15	DELTA	8
17	GABLE	9
19	HAVEN	10
21	HURRY	11
23	KEEPER	12
25	MALI	13
27	MCFATTIE	14
29	MCLOVIN	15
31	RAPPIN	16
33	RHETT	17
35	SAPHIRA	18
37	SERENA	19
39	SPENCE	20

	UPP	ER J	٩W			UPF	PER J	AW			UPI	PER J	AW			UP	PER J	AW	
13	С	P3	P4	MI	13	С	P3	P4	MI	13	С	P3	P4	MI	13	С	P3	P4	MI
0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1
0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1
0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	1
0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	1	0	1
0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	0	1	1	1
0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	1
0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	1
0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	1
0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1
0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	1	1
0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	1
0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	1
0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	0	0	1	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1

mean sd mode

20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.6	0.0	0.1	0.3	0.2	1.0	0.0	0.1	0.3	0.3	1.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.5	0.0	0.2	0.5	0.4	0.0	0.0	0.2	0.5	0.5	0.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0

400 0.2 0.4 0.0

ALL

First 4 Weeks Upper	Jaw
Control (not treated)	

	Control (not treateu)	
2	ZEN	1
4	BETTY BOOP	2
6	GOODFELLA	3
8	GREEN WAVE	4
10	GRIZZLY	5
12	JIMINY	6
14	JULIE	7
16	MOVE OVER	8
18	PAK-B	9
20	PETROS	10
22	POPPY	11
24	SANDBERG	12
26	SUAVE	13
28	VELVET	14
30	WHOOPSIE	15
32	XAMINE	16
34	Z-DOG	17
36	STATIC	18

38 RAIN

40 **ART** 

	UPP	ER JA	AW			UPF	PER J	AW			UPI	PER J	AW			UPF	PER J	AW	
13	С	P3	P4	MI	13	С	P3	P4	MI	13	С	P3	P4	MI	13	С	P3	P4	MI
0	0	0	0	0	0	0	1	0	1	1	0	1	1	1	1	1	2	1	2
0	0	0	0	0	0	0	1	1	0	1	1	1	1	2	1	1	2	2	2
0	0	0	0	0	1	0	0	1	1	1	1	1	1	2	1	2	1	2	2
0	0	0	0	0	1	0	1	0	1	1	1	1	1	2	2	1	2	1	2
0	0	0	0	0	1	0	2	0	1	1	1	1	1	2	1	1	2	2	3
0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	1	1	2	2	2
0	0	0	0	0	1	0	1	0	1	1	1	1	2	2	2	1	2	2	3
0	0	0	0	0	0	1	1	0	1	1	1	1	1	2	1	1	2	2	2
0	0	0	0	0	0	1	1	0	1	1	1	1	1	2	2	1	2	2	3
0	0	0	0	0	0	0	0	0	1	0	1	1	1	2	1	2	2	1	3
0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	2	2
0	0	0	0	0	0	0	1	0	1	1	1	1	2	1	2	2	2	3	2
0	0	0	0	0	0	0	1	0	1	1	1	1	1	2	2	1	2	2	2
0	0	0	0	0	0	1	0	1	1	1	1	1	1	2	1	2	1	2	3
0	0	0	0	0	0	1	0	1	0	0	1	1	1	2	1	1	2	2	3
0	0	0	0	0	0	1	1	0	1	1	1	1	1	2	2	1	2	2	3
0	0	0	0	0	1	0	1	0	0	1	1	1	1	2	2	1	2	2	3
0	0	0	0	0	0	1	0	1	0	0	1	1	1	2	1	2	2	2	3
0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	2	2	2	2	3
0	0	0		)	Ο	1	1	0	1	1	1	1	1	1	2	2	2	2	2

	points
	13
	16
	17
	17
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	19 17 20 17 19
	15
	19
	19 17
	17
	18
	16
	19
	18
	17
	18
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Ι.	·

total

n mean sd mode

19

20

20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.8	0.4	0.8	0.9	1.0	1.0	1.1	1.8	1.5	1.4	1.9	1.9	2.5
0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.6	0.5	0.4	0.4	0.2	0.0	0.3	0.4	0.5	0.5	0.3	0.4	0.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	2.0	2.0	2.0

ALL 400 0.9 0.8

Total Points (test and control) Points for Test (treated) Grp Points for Control (not) Grp % improvement

428
79
349
82%

% plaque remaining 18% 82%

Plaque points used: 0 = no plaque

1 = less than 1/3 plaque

2 = 1/3 to 2/3 with plaque

3 = more than 2/3 with plaque

n mean sd mode effect size\*

	reated)
400	
0.2	
0.4	
0.0	
000	

ontrol (not treated)								
400	ave % bias							
0.9	-77%							
0.8								
0.0								

\*an Effect Size value of 0.5 represents a Moderate, and 0.8 a Large statistical and clinical difference between the two groups.

#### Upper Jaw 2nd Experiment Feb to Mar 2008

effect size\*

0.82

	First week Lower Jaw				LOWER	₹ JAW		_	LOWE	R JAW			LOWE	R JAW			LOWE	R JAW			total
	TESTS (treated)			С	P3	P4	M1	С	P3	P4	M1	С	P3	P4	M1	ပ	P3	P4	M1		points
	GAME		1	0	-	-	_	0	_		0	0		_		0	_	_			2
	ROOSKIE		2	0	_		_	0		_	0	0			-	0		0	1	ĺ	3
	BEAMER		3	0			_	0	_		0	0		_	-	0	_		1	ĺ	4
7			4	0				0		0	0	0			_	0		_		ĺ	5
	AUTHORITY		5	0	_			0		_	1	0				0	_	_		ĺ	3
	BE-REAL BRAX		6 7	0	-	0		0	_		1	0	_			0	_			ĺ	3 3
	DELTA		8	0	_		_	0		-	0	0				0		·		ĺ	5 5
	GABLE		9	0	-		_	0			1	0			_	0	_	_	1	ĺ	4
	HAVEN		10	0	_		_	0			0	0				0	_		1	ĺ	1
	HURRY		11	0	-	_	_	0	_	_	1	0		_		0	_		1	ĺ	4
23	KEEPER		12	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	ĺ	3
25	MALI		13	0	0	0	0	0	1	0	0	0	1	0	1	0	1	0	1		5
27	MCFATTIE		14	0		-	_	0	_		0	0				0		0	1		2
29	MCLOVIN		15	0	-		_	0	-	0	1	0				0		_		ĺ	6
	RAPPIN		16	0				0		0	0	0		_		0	_	_	1		5
	RHETT		17	0	-		_	0	_		0	0	_		-	0	_		1		5
	SAPHIRA		18	0		0		0		_	0	0				0	_	_	1		2
	SERENA		19	0	-		_	0	_	_	1	0		_	_	0	_		1	ĺ	5
39	SPENCE		20	0	0	0	0	0	0	0	1	U	0	0	1	0	0	0	1	, ————————————————————————————————————	3
			ı	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	320	73
		n		20 <b>0.0</b>	20 <b>0.0</b>	20 <b>0.0</b>	20 <b>0.0</b>	20 <b>0.0</b>	20 <b>0.3</b>	20 <b>0.2</b>	20 <b>0.4</b>	20 <b>0.0</b>	20 <b>0.3</b>	20 <b>0.2</b>	20 <b>0.9</b>	20 <b>0.0</b>	20 <b>0.3</b>	0.3	20 <b>1.0</b>	0.2	
		mean sd		0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.4	0.0	0.3	0.2	0.9	0.0	0.5	0.3	0.0	0.2	
				0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.4	0.4	1.0	0.0	0.0	0.4	1.0	0.0	
		mode	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	
_																					
	First week Lower Jaw				LOWER	R JAW			LOWE	R JAW			LOWE	R JAW			LOWE	R JAW			total
	CONTROLS (not treated)			С	P3	P4	M1	C	P3	P4	M1	С	P3	P4	M1	С	P3	P4	M1	ĺ	points
2	ZEN		1	0	0	0	0	0	1	0	1	1	1	1	1	1	2	1	2		12
	BETTY BOOP		2	0	_	0	_	0		0	1	1	2		2	1	2		_		15
6	GOODFELLA		3	0	-	$\overline{}$	_	0		0	0	1	1			1	2		-		13
8	GREEN WAVE		4	0		_		0		0	1	1	1			2					13
	GRIZZLY		5	0	-			0		0	1	1	1			1			-		15
	JIMINY JULIE		6 7	0			_	0		0	1	1	1	1 2	_	2			_	ĺ	15 17
	MOVE OVER		8	0			_	0	_	0	1	<u>'</u>	2		_	1	2		_	ĺ	16
	PAK-B		9	0		_		0	_		1	1	1	_		2			_	ĺ	14
	PETROS		10	0			_	0	_	1	1	1	1			2	_		-	ĺ	15
22	POPPY		11	0					_	_	1	1	2	_			_				
24	SANDBERG		12	_		0	U	0	1	0			1 4	1	2	1	2	2	_	ļ	16
26	SUAVE			0		_		0		1	1	1	1	_		1	2		_		15
28	VELVET		13	0	0		0		1		1	1 1	_	1	2		2	1	_		
			14	0	0 0 0	0 0 0	0	0	1 1	1	1 1	1 1 1	1	1 1	2 2	1 2	2 2 2	1 1 2	3 3 3		15
	WHOOPSIE		14 15	0	0 0 0	0 0 0	0 0 0	0 0	1 1 1	1 0 0	1 1 1	1 1 1	1 2 1	1 1 1	2 2 1 2	1 2 2	2 2 2 2	1 1 2 1	3 3 3 2 3		15 16 14 16
32	XAMINE		14 15 16	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0	1 1 1 1	1 0 0 1 0	1 1 1 1	1 1 1 1	1 2 1	1 1 1 1	2 2 1 2	1 2 2 2 2	2 2 2 2	1 1 2 1 2	3 3 3 2 3		15 16 14 16 14
32 34	XAMINE Z-DOG		14 15 16 17	0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	1 1 1 1 1	1 0 0 1 0	1 1 1 1 0	1 1 1 1	1 2 1 1 1 1	1 1 1 1 1	2 2 1 2 1 2	1 2 2 2 2 2	2 2 2 2 2 1	1 1 2 1 2 2	3 3 3 2 3 2 3		15 16 14 16 14 15
32 34 36	XAMINE Z-DOG STATIC		14 15 16 17 18	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	1 1 1 1 1 0	1 0 0 1 0 1	1 1 1 1 1 0	1 1 1 1 1 1	1 2 1 1 1 1 1	1 1 1 1 1 1	2 2 1 2 1 2	1 2 2 2 2 2 2	2 2 2 2 2 1 1	1 1 2 1 2 2 2 3	3 3 2 3 2 3 2		15 16 14 16 14 15
32 34 36 38	XAMINE Z-DOG STATIC RAIN		14 15 16 17 18 19	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	1 1 1 1 1 0 1	1 0 0 1 0 1 1	1 1 1 1 1 0 1 1	1 1 1 1 1 1 1	1 2 1 1 1 1 1 1	1 1 1 1 1 1 1	2 2 1 2 1 2 2 2	1 2 2 2 2 2 2 2 2	2 2 2 2 2 1 2 3	1 1 2 1 2 2 3	3 3 3 2 3 2 3 3 3		15 16 14 16 14 15 18
32 34 36 38	XAMINE Z-DOG STATIC		14 15 16 17 18	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	1 1 1 1 1 0 1	1 0 0 1 0 1	1 1 1 1 1 1 0 1 1	1 1 1 1 1 1 1 1	1 2 1 1 1 1 1	1 1 1 1 1 1 1	2 2 1 2 1 2 2 2	1 2 2 2 2 2 2	2 2 2 2 2 1 1	1 1 2 1 2 2 3	3 3 3 2 3 2 3 3 3	ALL	15 16 14 16 14 15 18 18
32 34 36 38	XAMINE Z-DOG STATIC RAIN	n	14 15 16 17 18 19	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	1 1 1 1 1 0 1	1 0 0 1 0 1 1	1 1 1 1 1 1 0 1 1 1	1 1 1 1 1 1 1 1 1	1 2 1 1 1 1 1 1	1 1 1 1 1 1 1	2 2 1 2 1 2 2 2	1 2 2 2 2 2 2 2 2	2 2 2 2 2 1 2 3	1 1 2 1 2 2 3	3 3 3 2 3 2 3 3 3	ALL 320	15 16 14 16 14 15 18
32 34 36 38	XAMINE Z-DOG STATIC RAIN		14 15 16 17 18 19	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0	1 1 1 1 1 0 1 0 1	1 0 0 1 1 1 1	1 0 1 1	1 1 1 1 1 1 1 1 1 1 20 1.0	1 2 1 1 1 1 1 1 2 2	1 1 1 1 1 1 1 1	2 2 1 2 1 2 2 2 1	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 1 2 2 3 3	1 1 2 1 2 2 3 3 2	3 3 2 2 3 3 3 3		15 16 14 16 14 15 18 18
32 34 36 38	XAMINE Z-DOG STATIC RAIN	n	14 15 16 17 18 19	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 0	1 1 1 1 1 0 1 0 1	1 0 0 1 0 1 1 1 1 0	1 1 0 1 1 1		1 2 1 1 1 1 1 2 2	1 1 1 1 1 1 1 1 1 1	2 2 1 2 1 2 2 2 2	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 1 2 3 3	1 1 2 1 2 2 3 2 2 2	3 3 2 3 2 3 3 3 3	320	15 16 14 16 14 15 18 18
32 34 36 38	XAMINE Z-DOG STATIC RAIN	n mean	14 15 16 17 18 19	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 0 1 0 0 0	1 1 1 1 1 0 1 0 1 1 20 0.9	1 0 0 1 0 1 1 1 1 0	1 0 1 1 1 1 20 0.9	1.0	1 2 1 1 1 1 1 2 2 20 1.3	1 1 1 1 1 1 1 1 1 1 1 20	2 1 2 1 2 2 2 2 1 1 20	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 1 2 3 3 3 20 2.0	1 1 2 1 2 2 3 3 2 2 2 2 1.9	3 3 2 3 2 3 3 3 3 3 2 2 2 2 2 2 2 2 2 2	320 1.0	15 16 14 16 14 15 18 18
32 34 36 38	XAMINE Z-DOG STATIC RAIN	n mean sd mode control) ed) Grp ot) Grp vement	14 15 16 17 18 19	0 0 0 0 0 0 0 0 0 0 0.0 0.0 0.0 0.0 73 377 73 304 81%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0,0 0,0 0,0 0,0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 0 0 0 0 20 0.1 0.2	1 1 1 1 1 0 1 0 1 20 0.9 0.4 1.0	1 0 0 1 1 1 1 1 0 20 0.4 0.5 0.0	1 1 0 1 1 1 1 20 0.9 0.3 1.0	1.0 0.0	1 2 1 1 1 1 1 2 2 2 2 1.3 0.5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 1 2 2 2 2 1 2 2 1 2 2 1 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 0 5 2 0 5 2 0 0 5 0 0 0 0	20 22 20 20 1.7 0.5 2.0 used:	2 2 2 2 2 2 3 3 3 3 3 2 2 0 2 . 0 . 5 2 . 0 2 . 0	1 1 2 2 2 3 2 2 2 2 2 1.9 0.5 2.0	3 3 3 2 3 3 3 3 3 3 2 2 0 2.6 0.5 3.0	320 1.0 0.9	15 16 14 16 14 15 18 18
32 34 36 38	XAMINE Z-DOG STATIC RAIN ART  Total Points (test and of Points for Test (treated Points for Control (not points for Control)	n mean sd mode control) ed) Grp ot) Grp vement	14 15 16 17 18 19	0 0 0 0 0 0 0 0 0 0 0.0 0.0 0.0 0.0 73 304 81%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0,0 0,0 0,0 0,0	00 00 00 00 00 00 00 00 00 00 00 00 00	0 0 0 0 0 1 0 0 0 0 0.1 0.2 0.0	1 1 1 1 1 0 1 0 1 20 0.9 0.4 1.0	1 0 0 1 1 1 1 1 0 20 0.4 0.5 0.0	1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0 0.0	1 2 1 1 1 1 1 2 2 2 2 1.3 0.5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 3 3 3 3 2 20 2.0 0.5 2.0 cque aque th plaque	1 1 2 2 1 2 2 3 3 2 2 2 2 2 2 2 2 2 2 2	3 3 3 2 2 3 3 3 3 3 3 2 2 0 2.6 0.5 3.0	320 1.0 0.9	15 16 14 16 14 15 18 18
32 34 36 38	XAMINE Z-DOG STATIC RAIN ART  Total Points (test and of Points for Test (treated Points for Control (not points for Control)	n mean sd mode control) ed) Grp ot) Grp vement n mean	14 15 16 17 18 19	0 0 0 0 0 0 0 0 0 0.0 0.0 0.0 0.0 73 304 81%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0,0 0,0 0,0 0,0	00 00 00 00 00 00 00 00 0.0 0.0 0.0 0.0	0 0 0 0 0 1 0 0 0 0.1 0.2 0.0	1 1 1 1 1 0 1 0 1 20 0.9 0.4 1.0	1 0 0 1 1 1 1 1 0 20 0.4 0.5 0.0	1 1 0 1 1 1 1 20 0.9 0.3 1.0	1.0 0.0	1 2 1 1 1 1 1 2 2 2 2 1.3 0.5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 2 1 1 1 2 2 2 2 2 1 1 2	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 3 3 3 3 2 20 2.0 0.5 2.0 cque aque th plaque	1 1 2 2 1 2 2 3 3 2 2 2 2 2 2 2 2 2 2 2	3 3 3 2 2 3 3 3 3 3 3 2 2 0 2.6 0.5 3.0	320 1.0 0.9	15 16 14 16 14 15 18 18
32 34 36 38	XAMINE Z-DOG STATIC RAIN ART  Total Points (test and of Points for Test (treated Points for Control (not points for Control)	n mean sd mode control) ed) Grp ot) Grp vement	14 15 16 17 18 19	0 0 0 0 0 0 0 0 0 0 0.0 0.0 0.0 0.0 73 304 81%	0 0 0 0 0 0 0 0 0 0 0.0 0.0	0 0 0 0 0 0 0 0 0 0 0 0.0 0.0 0.0 0.0	00 00 00 00 00 00 00 00 00 00 00 00 00	0 0 0 0 0 1 0 0 0 0 0.1 0.2 0.0	1 1 1 1 1 0 1 0 1 20 0.9 0.4 1.0	1 0 0 1 1 1 1 1 0 20 0.4 0.5 0.0	1 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0 0.0	1 2 1 1 1 1 1 2 2 2 2 1.3 0.5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 2 1 1 2 2 2 2 2 2 1 1 2	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 3 3 3 3 2 20 2.0 0.5 2.0 cque aque th plaque	1 1 2 2 1 2 2 3 3 2 2 2 2 2 2 2 2 2 2 2	3 3 3 2 2 3 3 3 3 3 3 2 2 0 2.6 0.5 3.0	320 1.0 0.9	15 16 14 16 14 15 18 18

#### **Anti-plaque Water**

Test subjects: Greyhounds from HEMOPET Study dates: FEB 2008 to MAR 2008

Total Test Subjects: 20 Total Test Controls: 20 Plaque points used: 0 = no plaque

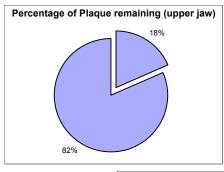
1 = less than 1/3 plaque

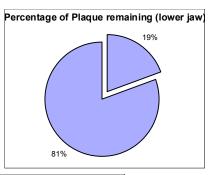
2 = 1/3 to 2/3 with plaque 3 = more than 2/3 with plaque

	Uppe	r Jaw
	plaque points	% plaque remaining
Test Subjects:	79	18%
Control Subjects:	349	82%
Total points:	428	100%

#### Lower Jaw % plaque remaining plaque points Test Subjects: Control Subjects: 73 19% 304 81% Total points: 377 100%

**Combined Upper and Lower Jaws** 





## Mean Mouth Plaque Score =32.65 (C); 7.6 (T)

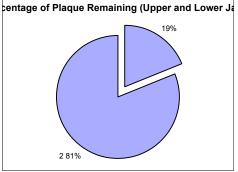
		% plaque
	plaque points	remaining
Test Subjects:	152	23%
Control Subjects:	653	77%
Total points:	805	100%

VOHC % Reduction =32.65-7.6 ÷ 32.65 = 76.7 %

% Effectivity: 76.70%



	Two Sample for Means				
	Uppe	r Jaw	Lowe	r Jaw	
	Test	Control	Test	Control	
n	400	400	320	320	
mean	0.1975	0.8725	0.2281	0.9500	
sa	0.3986	0.8264	0.4203	0.8803	
Std Error of Mean (SEM)	0.01993	0.04132	0.02349	0.04921	
Lower 95% conf. limit	0.1584	0.7915	0.1821	0.8535	
Upper 95% conf. Limit	0.2366	0.9535	0.2742	1.0460	
min	0.000	0.000	0.000	0.000	
max	1.000	3.000	1.000	3.000	
median (50th percentile)	0.000	1.000	0.000	1.000	
Normality Test KS	0.4924	0.2394	0.4782	0.2253	
Normality p	<0.0001	<0.0001	<0.000	<0.0001	
two-tailed p	<0.0	0001	<0.0001		
4	18.	892	16.900		
di	39	99	319		
95 % confidence interval:					
Mean of paired differences =	-0.6	750	-0.7219		
The 95% confidence interval of the difference	-0.7452 T	O -0.6048	-0.8059 TO -0.6378		
r	0.50	270	0.49	690	
one-tailed p	<0.0	0001	<0.0001		
Kolmogorov and Smirnov distance KS		28	0.27000		
KS p	<0.0	0001	<0.0	0001	



# **UNTREATED DOGS**







# **TREATED DOGS**







# W. Jean Dodds DVM President, Hemopet

Dr. Dodds received her D.V.M. degree with honors in 1964 from the Ontario Veterinary College, University of Toronto. In 1965 she accepted a position with the New York State Health Department in Albany and began comparative studies of animals with inherited and acquired bleeding diseases. Her position there began as a Research Scientist and culminated as Chief, Laboratory of Hematology, Wadsworth Center.

In 1980 she also became Executive Director, New York State Council on Human Blood and Transfusion Services. This work continued full-time until 1986 when she moved to Southern California to establish Hemopet, the first nonprofit national blood bank program for animals.

From 1965-1986, she was a member of many national and international committees on hematology, animal models of human disease, veterinary medicine, and laboratory animal science. Dr. Dodds was a grantee of the National Heart, Lung, and Blood Institute (NIH) and has over 150 research publications. She was formerly President of the Scientist's Center for Animal Welfare; and Chair-



man of the Committee on Veterinary Medical Sciences and Vice-Chairman of the Institute of Laboratory Animal Resources, National Academy of Sciences.

In 1974 Dr. Dodds was selected as Outstanding Woman Veterinarian of the Year, AVMA Annual Meeting, Denver, Colorado; in 1977 received the Region I Award for Outstanding Service to the Veterinary Profession from the American Animal Hospital Association, Cherry Hill, New Jersey; in 1978 and 1990 received the Gaines Fido Award as Dogdom's Woman of the Year; and the Award of Merit in 1978 in Recognition of Special Contributions to the Veterinary Profession from the American Animal Hospital Association, Salt Lake City, Utah.

In 1984 she was awarded the Centennial Medal from the University of Pennsylvania School of Veterinary Medicine. In 1987 she was elected a distinguished Practitioner of the National Academy of Practice in Veterinary Medicine.

In 1994 she was given the Holistic Veterinarian of the Year Award from the American Holistic Veterinary Medical Association. She is an active member of numerous professional societies.

Today, Dr. Dodds is actively expanding Hemopet's range of nonprofit services and educational activities. The animal blood bank program provides canine blood components, blood bank supplies, and related services throughout North America. Hemopet's retired Greyhound blood donors are adopted as pets through the Pet Life-Line arm of the project. On behalf of Hemopet, she consults in clinical pathology nationally and internationally. She is also the Editor of Advances in Veterinary Science and Comparative Medicine for Academic Press. In addition, Dr. Dodds is the holder of six patents related to animal genetics, antibodies, health care, nutrition and wellness.