

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

UPPER JAW					UPPER JAW					UPPER JAW					UPPER JAW				
I3	C	P3	P4	MI	I3	C	P3	P4	MI	I3	C	P3	P4	MI	I3	C	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	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	1	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	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	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

total points	
	4
	3
	2
	3
	5
	2
	5
	5
	7
	3
	4
	5
	4
	3
	5
	5
	7
	3
	4
	6
	2
	2
	2
<b>ALL</b>	<b>79</b>

n  
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

<b>ALL</b>	<b>400</b>
<b>0.2</b>	
<b>0.4</b>	
<b>0.0</b>	

First 4 Weeks Upper Jaw

Control (not treated)

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	19
40	ART	20

UPPER JAW					UPPER JAW					UPPER JAW					UPPER JAW				
I3	C	P3	P4	MI	I3	C	P3	P4	MI	I3	C	P3	P4	MI	I3	C	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	1	2	1	1	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	1	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	1	2	1	2	2	3	2
0	0	0	0	0	0	0	1	0	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	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	2	2	2	2	2	3
0	0	0	0	0	0	1	1	0	1	1	1	1	1	2	2	2	2	2	2

total points	
	13
	16
	17
	17
	19
	17
	20
	17
	19
	15
	19
	19
	17
	18
	16
	19
	18
	17
	18
	18
<b>ALL</b>	<b>349</b>

n  
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	0.3	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

<b>ALL</b>	<b>400</b>
<b>0.9</b>	
<b>0.8</b>	
<b>0.0</b>	

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

<b>428</b>
<b>79</b>
<b>349</b>
<b>82%</b>

% 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  
  
\*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  
mode  
effect size\*

<b>400</b>
<b>0.2</b>
<b>0.4</b>
<b>0.0</b>
<b>0.82</b>

Control (not treated)  
ave % bias  
**-77%**

Upper Jaw 2nd Experiment Feb to Mar 2008

First week Lower Jaw TESTS (treated)		LOWER JAW				LOWER JAW				LOWER JAW				LOWER JAW				total points	
		C	P3	P4	M1	C	P3	P4	M1	C	P3	P4	M1	C	P3	P4	M1		
1	GAME	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	
3	ROOSKIE	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	3	
5	BEAMER	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	1	4	
7	CONKER	0	0	0	0	0	1	0	0	0	1	0	1	0	1	0	1	5	
9	AUTHORITY	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	3	
11	BE-REAL	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	3	
13	BRAX	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	3	
15	DELTA	0	0	0	0	0	1	0	0	0	1	0	1	0	1	0	1	5	
17	GABLE	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	4	
19	HAVEN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
21	HURRY	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	1	4	
23	KEEPER	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	3	
25	MALI	0	0	0	0	0	1	0	0	0	1	0	1	0	1	0	1	5	
27	MCFATTIE	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	
29	MCLOVIN	0	0	0	0	0	1	0	1	0	1	0	1	0	1	0	1	6	
31	RAPPIN	0	0	0	0	0	1	0	0	0	1	0	1	0	1	0	1	5	
33	RHETT	0	0	0	0	0	0	1	0	0	0	1	1	0	0	1	1	5	
35	SAPHIRA	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	
37	SERENA	0	0	0	0	0	0	0	1	0	0	1	1	0	0	1	1	5	
39	SPENCE	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	3	
n		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	AVE	<b>73</b>
mean		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	0.3	0.3	1.0		<b>0.2</b>
sd		0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.5	0.0	0.4	0.4	0.3	0.0	0.5	0.4	0.0		<b>0.4</b>
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		<b>0.0</b>

First week Lower Jaw CONTROLS (not treated)		LOWER JAW				LOWER JAW				LOWER JAW				LOWER JAW				total points	
		C	P3	P4	M1	C	P3	P4	M1	C	P3	P4	M1	C	P3	P4	M1		
2	ZEN	0	0	0	0	0	1	0	1	1	1	1	1	1	2	1	2	12	
4	BETTY BOOP	0	0	0	0	0	1	0	1	1	2	1	2	1	2	2	2	15	
6	GOODFELLA	0	0	0	0	0	1	0	0	1	1	2	1	1	2	2	2	13	
8	GREEN WAVE	0	0	0	0	0	1	0	1	1	1	1	1	2	1	2	2	13	
10	GRIZZLY	0	0	0	0	0	1	0	1	1	1	1	2	1	2	2	3	15	
12	JIMINY	0	0	0	0	0	1	0	1	1	1	1	2	2	1	2	3	15	
14	JULIE	0	0	0	0	0	1	0	1	1	1	2	2	2	2	2	3	17	
16	MOVE OVER	0	0	0	0	0	1	0	1	1	2	1	2	1	2	2	3	16	
18	PAK-B	0	0	0	0	0	0	1	1	1	1	1	1	2	2	2	2	14	
20	PETROS	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	15	
22	POPPY	0	0	0	0	0	1	0	1	1	2	1	2	1	2	2	3	16	
24	SANDBERG	0	0	0	0	0	1	1	1	1	1	1	2	1	2	1	3	15	
26	SUAVE	0	0	0	0	0	1	0	1	1	2	1	2	2	2	1	3	16	
28	VELVET	0	0	0	0	0	1	0	1	1	1	1	1	2	2	2	2	14	
30	WHOOPSIE	0	0	0	0	0	1	1	1	1	1	1	2	2	2	1	3	16	
32	XAMINE	0	0	0	0	0	1	0	1	1	1	1	1	2	2	2	2	14	
34	Z-DOG	0	0	0	0	1	0	1	0	1	1	1	2	2	1	2	3	15	
36	STATIC	0	0	0	0	0	1	1	1	1	1	1	2	2	2	3	3	18	
38	RAIN	0	0	0	0	0	0	1	1	1	2	1	2	2	3	2	3	18	
40	ART	0	0	0	0	0	1	0	1	1	2	1	1	2	3	2	3	17	
n		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	ALL	<b>304</b>
mean		0.0	0.0	0.0	0.0	0.1	0.9	0.4	0.9	1.0	1.3	1.1	1.6	1.7	2.0	1.9	2.6		<b>1.0</b>
sd		0.0	0.0	0.0	0.0	0.2	0.4	0.5	0.3	0.0	0.5	0.3	0.5	0.5	0.5	0.5	0.5		<b>0.9</b>
mode		0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	3.0		<b>0.0</b>

Total Points (test and control)	<b>377</b>
Points for Test (treated) Grp	<b>73</b>
Points for Control (not) Grp	<b>304</b>
% improvement	<b>81%</b>

% plaque remaining	<b>19%</b>
	<b>81%</b>

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	320	320	ave % bias	-76%
mean	0.2	1.0		
sd	0.4	0.9		
mode	0.0	0.0		
effect size*	<b>0.82</b>			

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

**Anti-plaque Water**

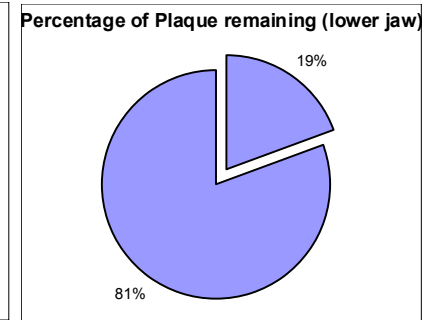
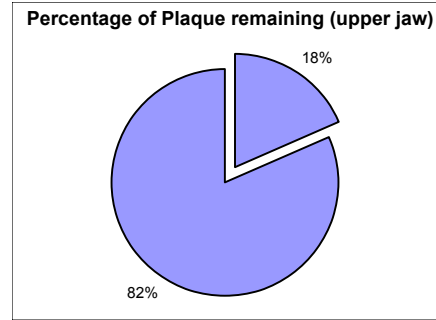
Test subjects: Greyhounds from HEMOPET  
Study dates: FEB 2008 to MAR 2008

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

**Upper Jaw**

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



**Lower Jaw**

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

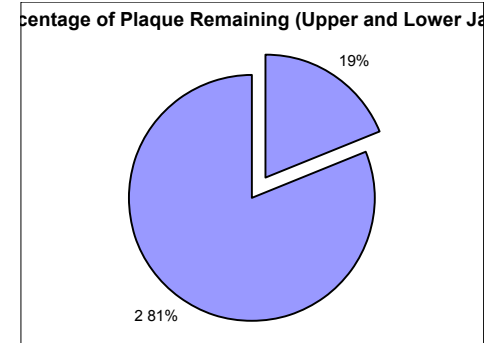
**Combined Upper and Lower Jaws**

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

	plaque points	% plaque 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%**



**t-Test: Paired Two Sample for Means\***

	Upper Jaw		Lower Jaw	
	Test	Control	Test	Control
n	400	400	320	320
mean	0.1975	0.8725	0.2281	0.9500
sd	0.3986	0.8264	0.4203	0.8803
<b>Std Error of Mean (SEM)</b>	<b>0.01993</b>	<b>0.04132</b>	<b>0.02349</b>	<b>0.04921</b>
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	<0.0001	<0.0001
<b>two-tailed p</b>	<b>&lt;0.0001</b>		<b>&lt;0.0001</b>	
t	18.892		16.900	
df	399		319	
95 % confidence interval:				
Mean of paired differences =	-0.6750		-0.7219	
The 95% confidence interval of the difference	-0.7452 TO -0.6048		-0.8059 TO -0.6378	
r	0.50270		0.49690	
one-tailed p	<0.0001		<0.0001	
Kolmogorov and Smirnov distance KS	0.28		0.27000	
KS p	<0.0001		<0.0001	