

Objective 1								
Variables								
dp (um)	Background ortho	High Speed Ortho	Background Pediatrics	High Speed Pediatrics	Background Periodontics	Periodontics-Ultrasonic scalar	Background Endodontics	High Speed Endodontics
dp (um)	dN/dlog(dp) (#/cm^3)	dN/dlog(dp) (#/cm^3)	dN/dlog(dp) (#/cm^3)	dN/dlog(dp) (#/cm^3)	dN/dlog(dp) (#/cm^3)	dN/dlog(dp) (#/cm^3)	dN/dlog(dp) (#/cm^3)	dN/dlog(dp) (#/cm^3)
0.25	101.5716	717.7378	353.8984	572.9608	48.4579	150.297	84.3072	684.4695
0.28	116.8947	1575.318	409.4413	838.2498	49.227	160.6069	131.1456	1368.9134
0.3	34.5075	960.7011	127.3739	311.1924	14.1157	40.6006	42.9446	770.4363
0.35	13.1228	1034.991	22.652	162.3789	4.742	21.9975	11.1301	498.9029
0.4	4.2909	674.3104	3.9987	74.2876	3.2256	10.9394	2.5103	172.667
0.45	2.1484	478.7097	1.3907	42.616	1.3113	6.767	1.1176	99.2444
0.5	2.4717	444.7967	1.2693	43.827	1.9392	5.3961	1.0666	86.787
0.58	1.5755	369.3011	1.8371	30.8172	1.7177	4.4175	1.2171	62.4665
0.65	0.8426	295.7618	0.5649	27.1868	0.3107	3.6943	0.7238	34.5433
0.7	0.6576	246.9069	0.7054	21.1236	0.4311	3.4901	0.5487	13.9979
0.8	0.2274	96.9055	0.2345	8.771	0.1032	1.6376	0.1466	1.9727
1	0.0967	63.8358	0.2394	5.1926	0.1755	1.2173	0.0698	1.1358
1.3	0.1128	41.4766	0.0504	2.9572	0.0554	1.0036	0.0504	0.5219
1.6	0.1312	51.3913	0.0469	3.3536	0.1032	1.4467	0.0821	0.7284
2	0.1417	45.8927	0.122	2.5969	0.1548	2.2759	0.1724	0.4795
2.5	0.122	35.4169	0.1263	1.8312	0.1894	2.3213	0.1507	0.1263
3	0.0127	15.4675	0	0.2738	0.0597	0.8777	0.0221	0.0703
3.5	0.0058453	10.7189	0.0627	0.6323	0	0.6839	0.0176	0.0304
4	0.028	8.4905	0.0469	0.4815	0.0206	0.6627	0.0364	0.0243
5	0.008925	2.8583	0.0399	0.234	0.0351	0.3193	0.0269	0.0103
6.5	0.0054545	1.298	0.0731	0.0805	0	0.1673	0.0183	0
7.5	0.0031181	0.7647	0.0167	0.092	0	0.0795	0.0083621	0
8.5	0	0.4908	0	0.0472	0	0.0351	0.00483	0.0083342
10	0	0.2194	0.0093808	0.0172	0	0.0171	0.005863	0
12.5	0	0.1203	0	0.021	0	0.0027784	0.0028703	0.007429
15	0	0.0387	0	0	0	0.0017925	0.0033948	0
17.5	0	0.0268	0	0	0	0.0010346	0	0
20	0	0.0132	0	0	0	0.00061913	0.0011726	0
25	0	2.53E-03	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	-0.00045299	0

Objective 2a						
Variables						
dp (um)	AIR Flow Ortho	No Air flow Ortho	Ortho Conical HVE	Ortho Tip hve		
dp (um)	dN/dlog(dp)	dN/dlog(dp)	dN/dlog(dp)	dN/dlog(dp)		
0.25	392.6601	1043.0675	291.0885	616.1662		
0.28	687.1232	2547.434	570.2285	1458.4231		
0.3	317.5489	1685.954	283.0414	926.1936		
0.35	258.9666	2007.1685	245.8438	1021.8678		
0.4	139.9889	1500.7302	135.698	670.0195		
0.45	87.2946	1281.4666	85.1462	476.5613		
0.5	86.3728	821.3207	83.9011	442.325		
0.58	64.8359	794.1775	63.2604	367.7256		
0.65	49.4338	719.803	48.5912	294.9192		
0.7	40.9104	680.5253	40.2528	246.2493		
0.8	15.5768	271.1906	15.3494	96.6781		
1	10.1272	183.2729	10.0305	63.7391		
1.3	6.4231	117.3996	6.3103	41.3638		
1.6	7.629	143.7845	7.4978	51.2601		
2	6.7131	141.8392	6.5714	45.751		
2.5	4.5125	102.096	4.3905	35.2949		
3	1.289	30.898	1.2763	15.4548		
3.5	1.1722	20.6544	1.1664	10.7131		
4	1.4226	14.4571	1.3946	8.4625		
5	0.5384	5.1801	0.5295	2.8494		
6.5	0.2368	2.6092	0.2313	1.2925		
7.5	0.2108	1.2502	0.2077	0.7616		
8.5	0.0923	1.0006	0.0923	0.4908		
10	0.0557	0.3483	0.0557	0.2194		
12.5	0.0284	0.1105	0.0284	0.1203		
15	5.04E-03	0.0654	5.04E-03	0.0387		
17.5	9.69E-03	0.0216	9.69E-03	0.0268		
20	2.32E-03	6.45E-03	2.32E-03	0.0132		
25	0	0	0	2.53E-03		
30	0	0	0	0		
32	0	0	0	0		

Objective 2b						
Variables						
dp (um)		Periodontics Tip		Periodontics ISOVAC Continuous		Periodontics ISOVAC Discontinuous
dp (um)		dN/dlog(dp)		dN/dlog(dp)		dN/dlog(dp)
0.25		8829.4384		28.7351		1.3033
0.28		9423.7191		41.1218		1.457
0.3		2170.5298		21.7657		2.4564
0.35		1370.2334		20.6002		0.842
0.4		716.2893		9.6351		2.2008
0.45		453.3137		4.0587		1.437
0.5		326.996		6.7043		0.6879
0.58		277.6578		4.4025		0.9142
0.65		257.5759		2.9406		0.4159
0.7		256.5011		2.5866		0.8599
0.8		119.2085		1.4004		0.5159
1		90.8785		1.1441		0.6315
1.3		79.3721		0.3367		0.0498
1.6		113.5331		0.9582		0.0575
2		171.5251		0.6339		0.172
2.5		186.1237		0.433		0.2048
3		86.3149		0.2134		0
3.5		64.7504		0.1478		0
4		55.985		0.0295		0
5		22.5419		0.0376		0
6.5		11.9473		0.023		0.0421
7.5		5.9789		0.0263		0

Objective 3a		
Variables		
Time		PM 2_5 _multioperatory
9/3/2020 13:15		1
9/3/2020 13:15		0.9
9/3/2020 13:15		2
9/3/2020 13:16		2.7
9/3/2020 13:16		1.3
9/3/2020 13:16		0.9
9/3/2020 13:16		0.3
9/3/2020 13:17		1.5
9/3/2020 13:17		1.2
9/3/2020 13:17		1.3
9/3/2020 13:17		0.2
9/3/2020 13:18		0.4
9/3/2020 13:18		0.4
9/3/2020 13:18		0.5
9/3/2020 13:18		0.4
9/3/2020 13:19		1
9/3/2020 13:19		1
9/3/2020 13:19		1
9/3/2020 13:19		0.3
9/3/2020 13:20		0.3
9/3/2020 13:20		1
9/3/2020 13:20		0.9
9/3/2020 13:20		0.5
9/3/2020 13:21		0.3
9/3/2020 13:21		0.1
9/3/2020 13:21		0.5
9/3/2020 13:21		0.8
9/3/2020 13:22		0.5
9/3/2020 13:22		0
9/3/2020 13:22		1.1
9/3/2020 13:22		4.1
9/3/2020 13:23		3.3
9/3/2020 13:23		1.9
9/3/2020 13:23		14.5
9/3/2020 13:23		48.4
9/3/2020 13:24		50.1
9/3/2020 13:24		44.8
9/3/2020 13:24		25.3
9/3/2020 13:24		6.5
9/3/2020 13:25		2.9
9/3/2020 13:25		0.8
9/3/2020 13:25		0.3
9/3/2020 13:25		0.1
9/3/2020 13:26		0.8

Variables		
Time		PM 2_5 _multioperatory
9/3/2020 13:26		9.5
9/3/2020 13:26		35.1
9/3/2020 13:26		27.4
9/3/2020 13:27		4.7
9/3/2020 13:27		1.2
9/3/2020 13:27		0.9
9/3/2020 13:27		0.8
9/3/2020 13:28		1
9/3/2020 13:28		4.5
9/3/2020 13:28		4.2
9/3/2020 13:29		3
9/3/2020 13:29		0.6
9/3/2020 13:29		1.1
9/3/2020 13:29		1.5
9/3/2020 13:30		1.1
9/3/2020 13:30		0.9
9/3/2020 13:30		0.8
9/3/2020 13:30		0.4
9/3/2020 13:31		0.1
9/3/2020 13:31		0.2
9/3/2020 13:31		3.8
9/3/2020 13:31		15.9
9/3/2020 13:32		12.2
9/3/2020 13:32		3
9/3/2020 13:32		0.2
9/3/2020 13:32		0.1
9/3/2020 13:33		0.1
9/3/2020 13:33		0
9/3/2020 13:33		0.5
9/3/2020 13:33		0.3
9/3/2020 13:34		0.4
9/3/2020 13:34		0.6
9/3/2020 13:34		0.9
9/3/2020 13:34		1
9/3/2020 13:35		1
9/3/2020 13:35		0.9
9/3/2020 13:35		1.8
9/3/2020 13:35		1.3
9/3/2020 13:36		1
9/3/2020 13:36		0.5
9/3/2020 13:36		0
9/3/2020 13:36		0.5
9/3/2020 13:37		0
9/3/2020 13:37		0.1
9/3/2020 13:37		0.4

Variables		
Time		PM 2_5 _multioperatory
9/3/2020 13:37		1
9/3/2020 13:38		0.6
9/3/2020 13:38		0.4
9/3/2020 13:38		0.6
9/3/2020 13:38		0.2
9/3/2020 13:39		0
9/3/2020 13:39		0.4
9/3/2020 13:39		1
9/3/2020 13:39		0.8
9/3/2020 13:40		1
9/3/2020 13:40		1
9/3/2020 13:40		1
9/3/2020 13:40		1

Objective 3b		
Variables		
Time		PM 2_5 _GENERAL
8/13/2020 11:18		5.8
8/13/2020 11:18		5.5
8/13/2020 11:18		6.5
8/13/2020 11:18		8
8/13/2020 11:19		7.7
8/13/2020 11:19		7.3
8/13/2020 11:19		8
8/13/2020 11:19		6.9
8/13/2020 11:20		5.2
8/13/2020 11:20		4.9
8/13/2020 11:20		4.9
8/13/2020 11:20		5.3
8/13/2020 11:21		4.9
8/13/2020 11:21		5.1
8/13/2020 11:21		5
8/13/2020 11:21		5.2
8/13/2020 11:22		6
8/13/2020 11:22		6.4
8/13/2020 11:22		6.1
8/13/2020 11:22		6.9
8/13/2020 11:23		6.9
8/13/2020 11:23		7.6
8/13/2020 11:23		8.7
8/13/2020 11:23		7.6
8/13/2020 11:24		5.8
8/13/2020 11:24		5.4
8/13/2020 11:24		5.7
8/13/2020 11:24		6.3
8/13/2020 11:25		6.3
8/13/2020 11:25		5.2
8/13/2020 11:25		5.5
8/13/2020 11:25		5.4
8/13/2020 11:26		6.5
8/13/2020 11:26		75.2
8/13/2020 11:26		253.5
8/13/2020 11:26		148.5
8/13/2020 11:27		57.2
8/13/2020 11:27		46.8
8/13/2020 11:27		84.5
8/13/2020 11:27		121
8/13/2020 11:28		142.6
8/13/2020 11:28		355.7
8/13/2020 11:28		250.4
8/13/2020 11:28		202

Objective 3b		
Variables		
Time		PM 2_5 _GENERAL
8/13/2020 11:29		234.9
8/13/2020 11:29		149.3
8/13/2020 11:29		83.1
8/13/2020 11:29		222.4
8/13/2020 11:30		315
8/13/2020 11:30		181.9
8/13/2020 11:30		76.6
8/13/2020 11:30		218.5
8/13/2020 11:31		318.8
8/13/2020 11:31		175.5
8/13/2020 11:31		58.3
8/13/2020 11:31		90.4
8/13/2020 11:32		282.8
8/13/2020 11:32		267.7
8/13/2020 11:32		289.7
8/13/2020 11:32		211.6
8/13/2020 11:33		86.4
8/13/2020 11:33		42.8
8/13/2020 11:33		97.3
8/13/2020 11:33		123.9
8/13/2020 11:34		169.1
8/13/2020 11:34		94.8
8/13/2020 11:34		44.4
8/13/2020 11:34		32.3
8/13/2020 11:35		30.3
8/13/2020 11:35		89.5
8/13/2020 11:35		75
8/13/2020 11:35		38.4
8/13/2020 11:36		28.7
8/13/2020 11:36		41.3
8/13/2020 11:36		44.1
8/13/2020 11:36		63.1
8/13/2020 11:37		50.4
8/13/2020 11:37		45.1
8/13/2020 11:37		34.2
8/13/2020 11:37		224.7
8/13/2020 11:38		354.7
8/13/2020 11:38		150.1
8/13/2020 11:38		43.6
8/13/2020 11:38		21.5
8/13/2020 11:39		14.5
8/13/2020 11:39		9.2
8/13/2020 11:39		8.3
8/13/2020 11:39		7.5



Objective 3b		
Variables		
Time		PM 2_5 _GENERAL
8/13/2020 11:40		6.7
8/13/2020 11:40		6.5
8/13/2020 11:40		9.1
8/13/2020 11:40		9.6
8/13/2020 11:41		8.2
8/13/2020 11:41		6.8
8/13/2020 11:41		6.8
8/13/2020 11:41		7
8/13/2020 11:42		6.5
8/13/2020 11:42		8.5
8/13/2020 11:42		8
8/13/2020 11:42		7.5
8/13/2020 11:43		7.5
8/13/2020 11:43		7.4
8/13/2020 11:43		6.7
8/13/2020 11:43		7.9
8/13/2020 11:44		7.8
8/13/2020 11:44		7.2
8/13/2020 11:44		7
8/13/2020 11:44		6.4

<b>Objective 4</b>						
<b>Variables</b>						
dp (um)	Front Ortho	Back Ortho	Front Perio	Back Perio	Front Pedia	Back Pedia
dp (um)	dN/dlog(dp)	dN/dlog(dp)	dN/dlog(dp)	dN/dlog(dp)	dN/dlog(dp)	dN/dlog(dp)
0.25	2079.0321	62.9667	8829.4384	7.0867	480.7407	351.0118
0.28	5166.4154	105.2193	9423.7191	11.0653	740.352	505.8423
0.3	3409.7577	58.7905	2170.5298	3.5514	279.9902	176.8735
0.35	3802.9243	61.6246	1370.2334	2.8958	150.0209	47.133
0.4	2544.1172	39.314	716.2893	0.1146	71.681	12.5442
0.45	1869.6763	26.4043	453.3137	0.6254	41.2805	7.7341
0.5	1550.439	29.5453	326.996	0.0402	42.1032	4.8696
0.58	1312.4494	26.8167	277.6578	-0.1638	30.0313	4.6703
0.65	1060.6095	19.1203	257.5759	0.7018	26.8416	4.0047
0.7	889.1211	16.306	256.5011	0.336	20.7404	3.238
0.8	338.6179	6.4025	119.2085	0.2064	8.6563	1.072
1	218.1038	4.84	90.8785	0.0318	5.0463	0.5997
1.3	144.8804	3.4497	79.3721	0.1071	2.9572	0.2772
1.6	169.6139	4.6929	113.5331	0.1405	3.2389	0.4528
2	188.5127	5.9903	171.5251	0.1676	2.3905	0.2373
2.5	131.6327	4.5256	186.1237	0.0963	1.6768	0.1613
3	30.9447	0.7752	86.3149	0.0469	0.224	0.0099
3.5	19.4366	1.0202	64.7504	0.1243	0.5557	0.0096
4	16.121	0.7098	55.985	0.1004	0.4356	-0.0046
5	6.0029	0.2895	22.5419	0.0315	0.2145	0.0419
6.5	3.4942	0.1353	11.9473	0.0338	0.0447	0.0286
7.5	1.7446	0.0797	5.9789	0.0101	0.092	0.0184
8.5	1.098	0.039	2.4086	0.0107	0.0315	-0.0157
10	0.5417	0.0181	1.3672	0.0035582	0.0172	0
12.5	0.1894	0.0031573	0.1579	0.00043549	0.021	0
15	0.0747	0.0074686	0.0373	0.0025754	0	0.0149
17.5	0	0	0	0	0	0.0172
20	0.0774	0.0025797	0	0.00071164	0	0
25	0.0316	0	0	0	0	0
30	0	0	0	0	0	0
32	0	0	0	0	0	0