

Figure 1

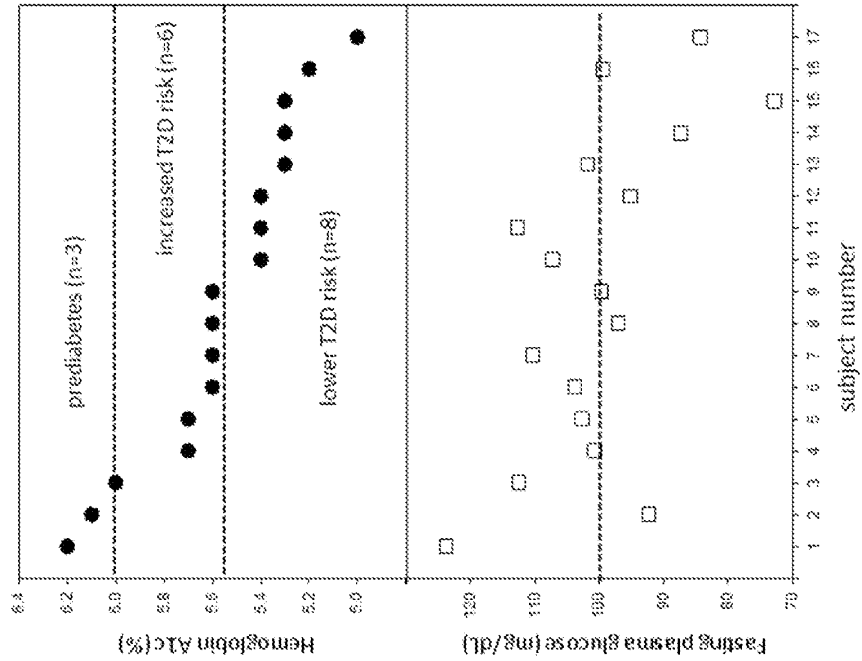


Figure 2A

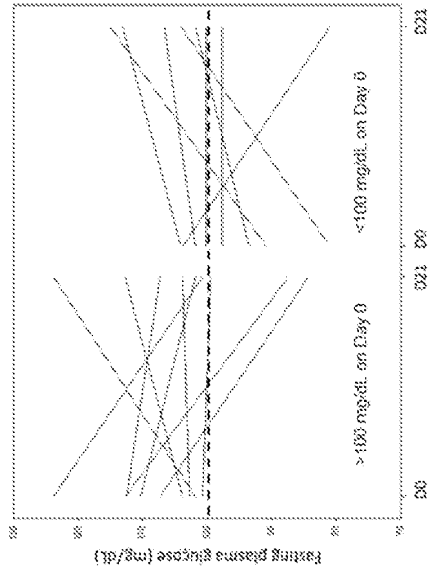


Figure 2B

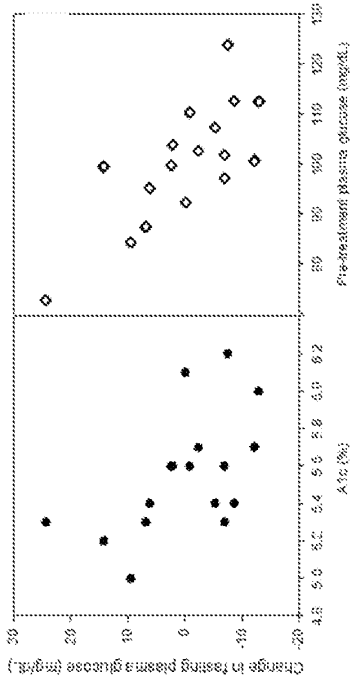


Figure 3A

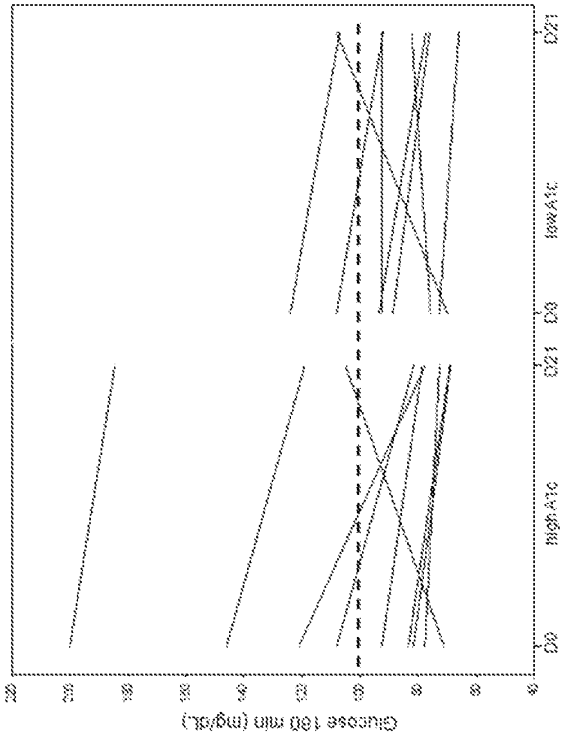


Figure 3B

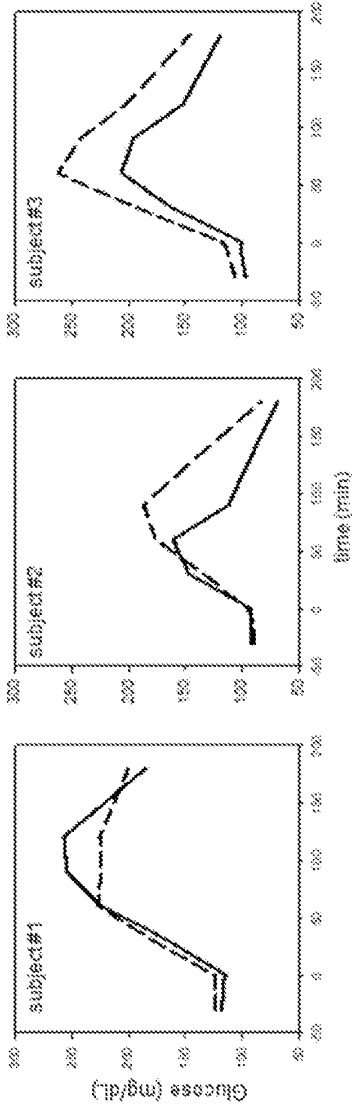


Figure 4A

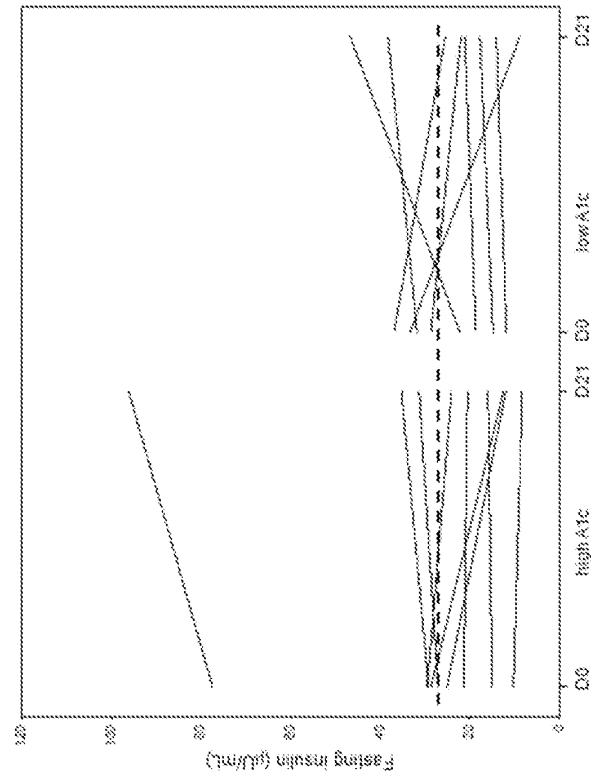


Figure 4B

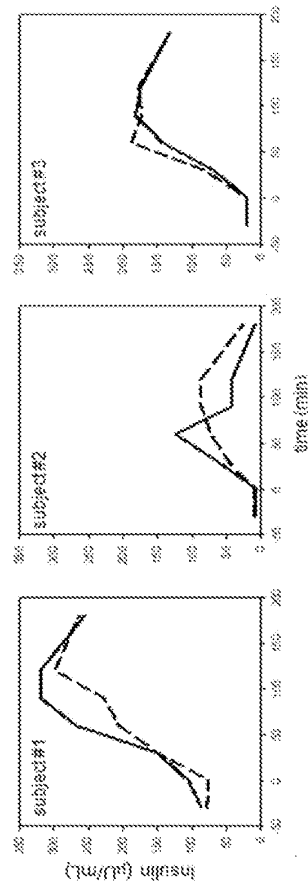


Figure 5B

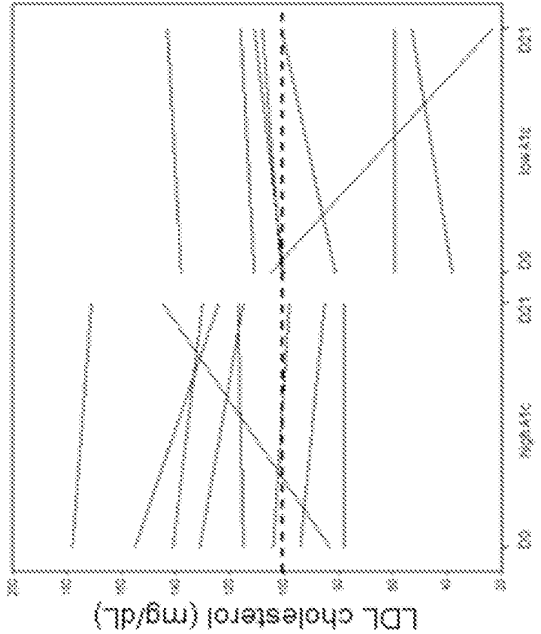


Figure 5A

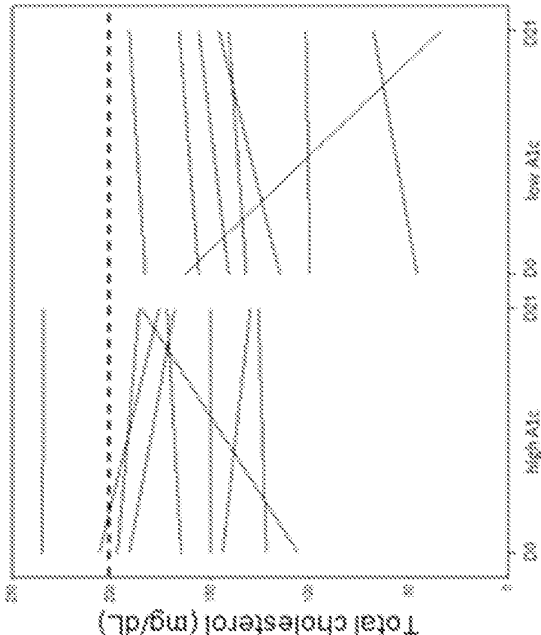


Figure 5D

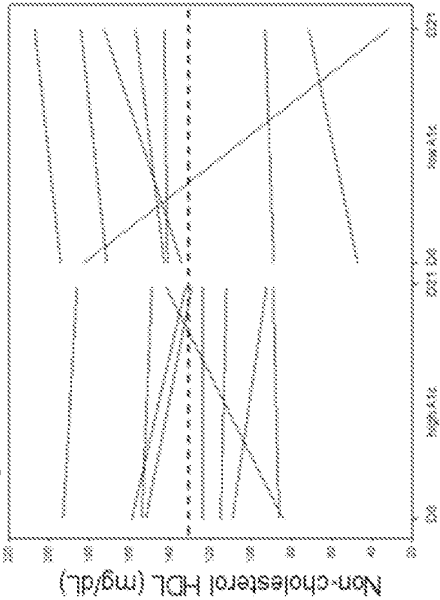


Figure 5C

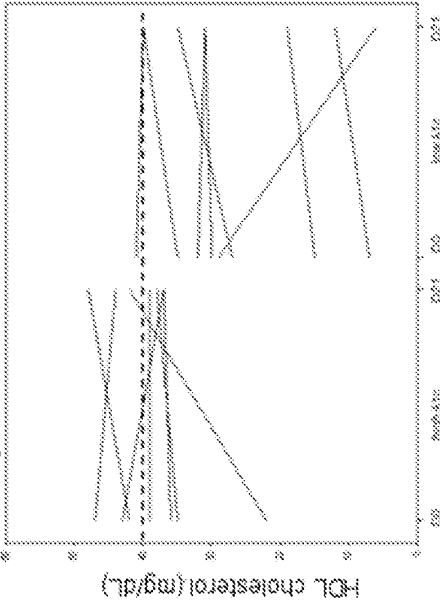
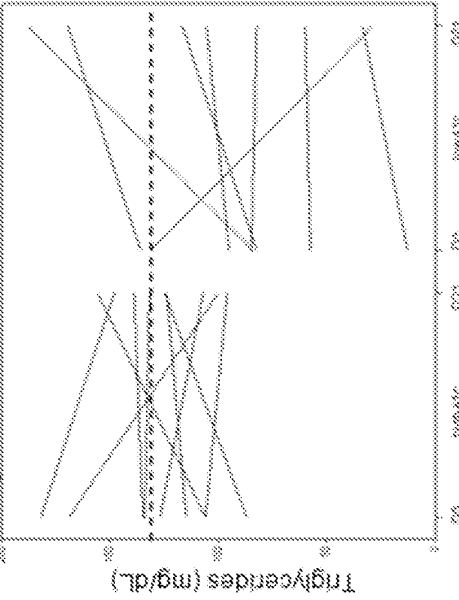


Figure 5E



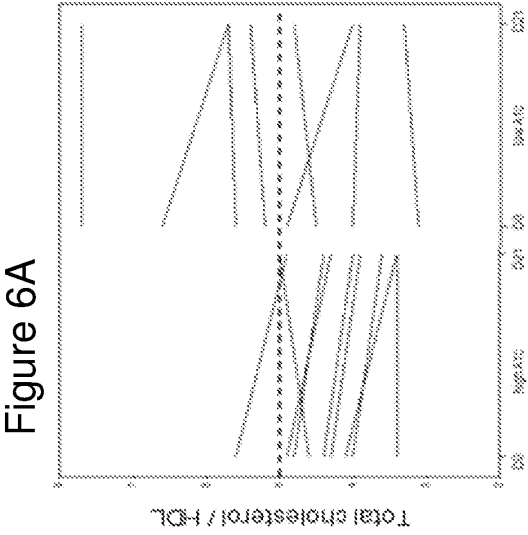
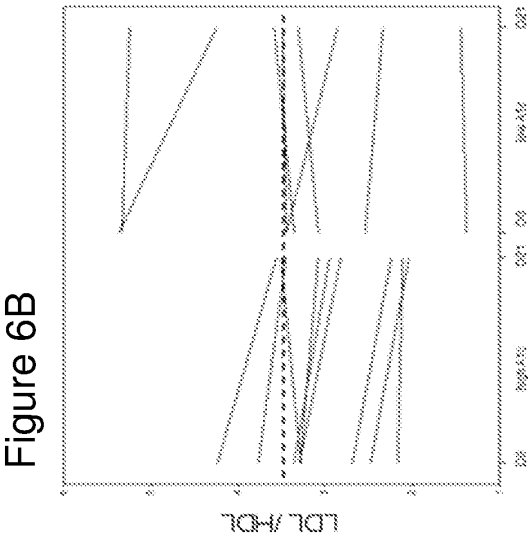


Figure 6D

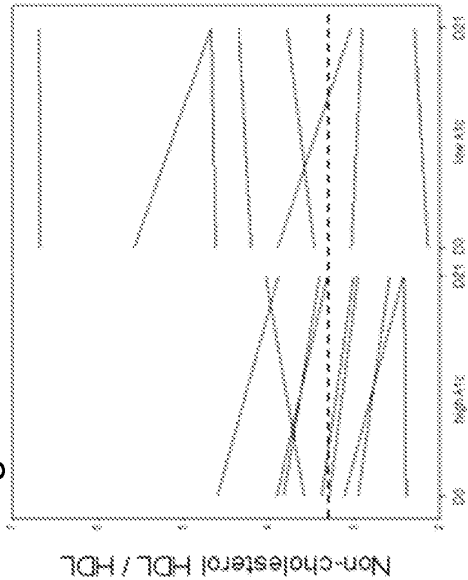


Figure 6C

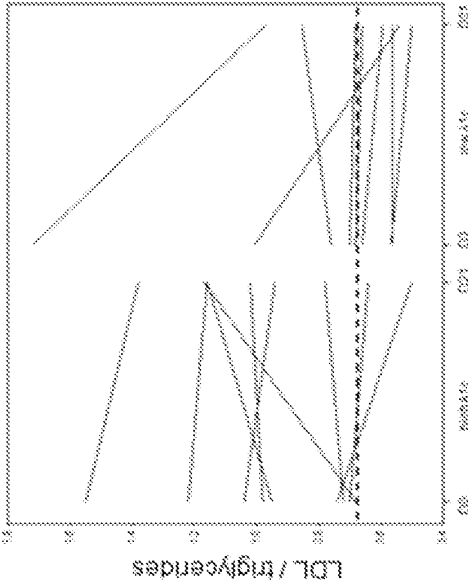


Figure 6E

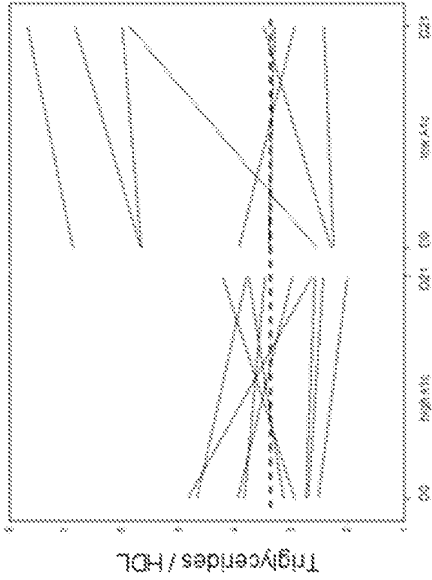


Figure 7

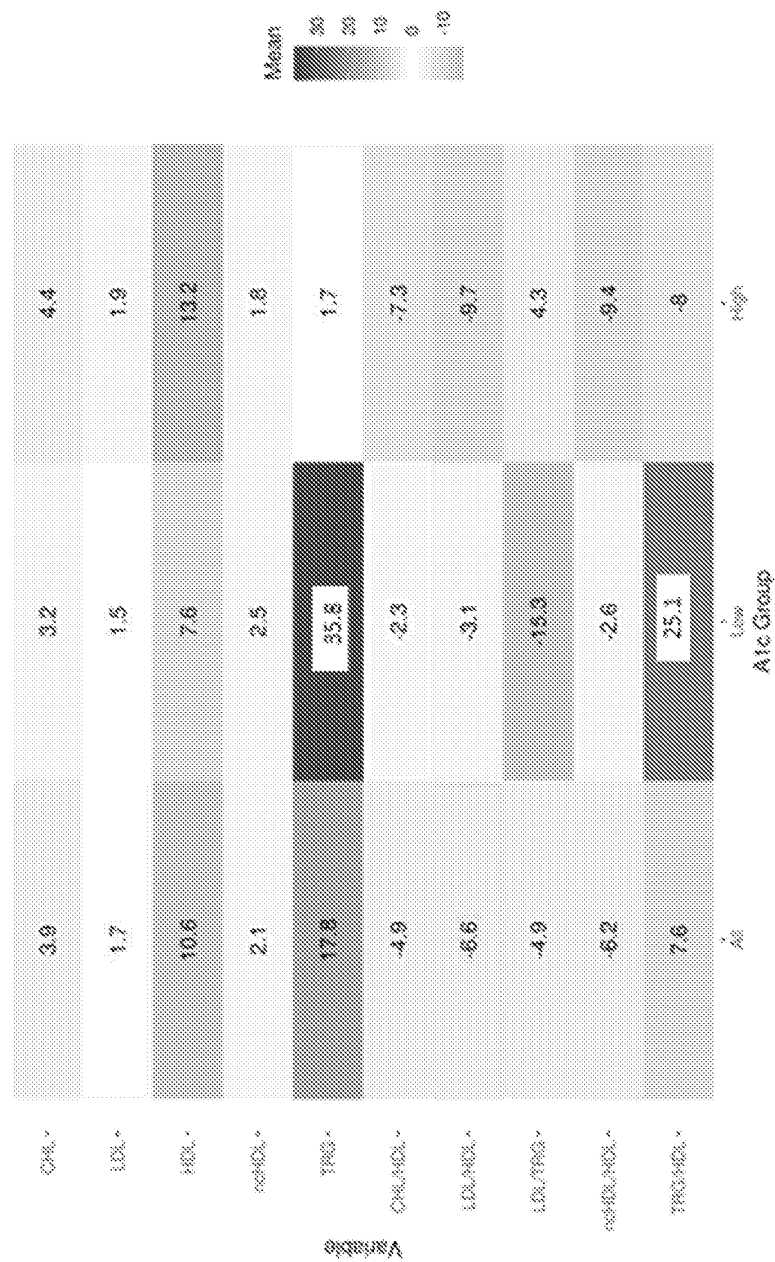


Figure 8

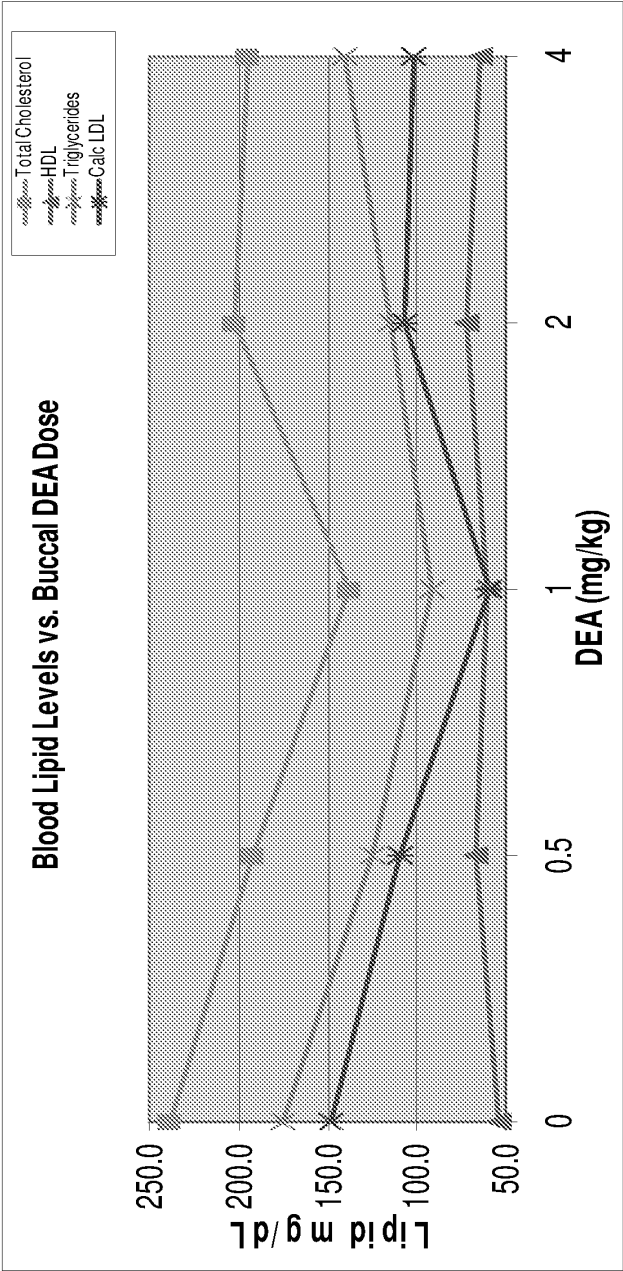


Figure 9

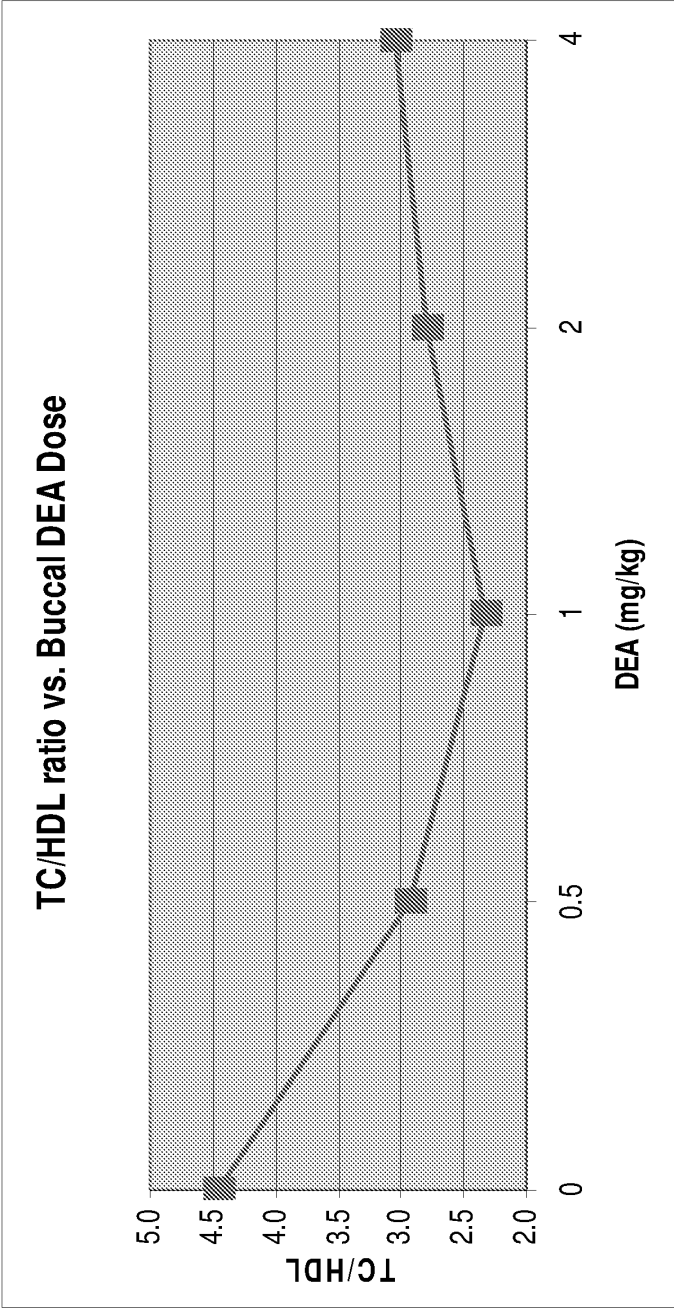


Figure 10

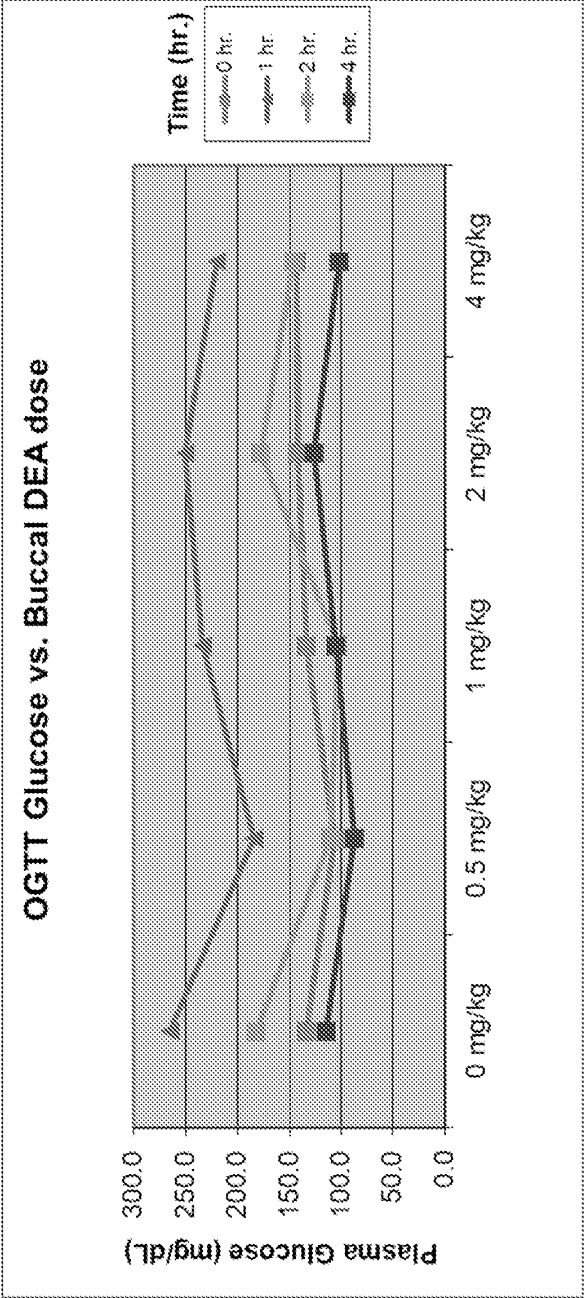


Figure 11

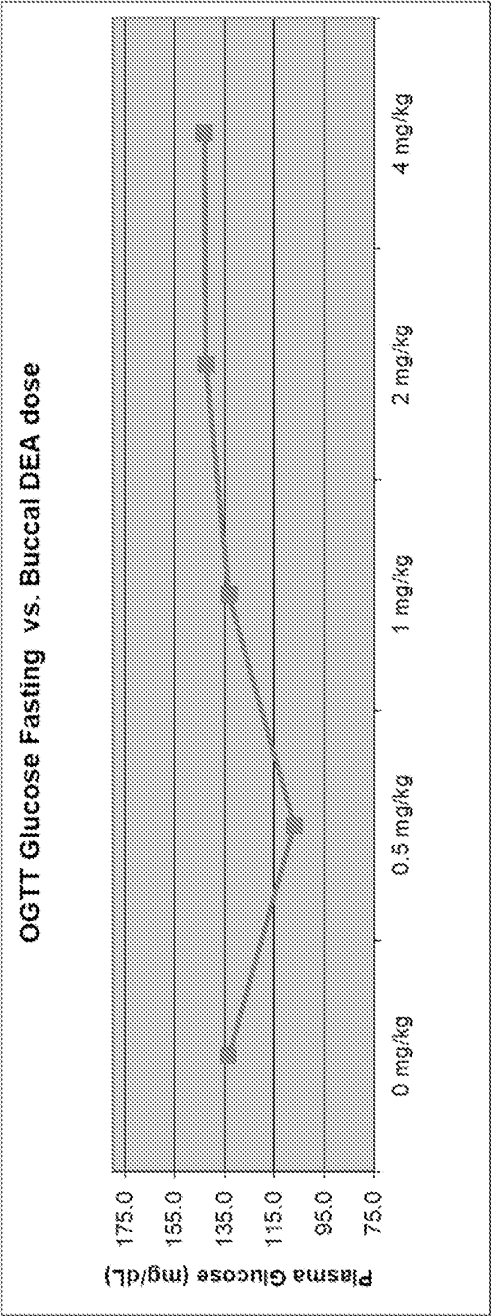


Figure 12

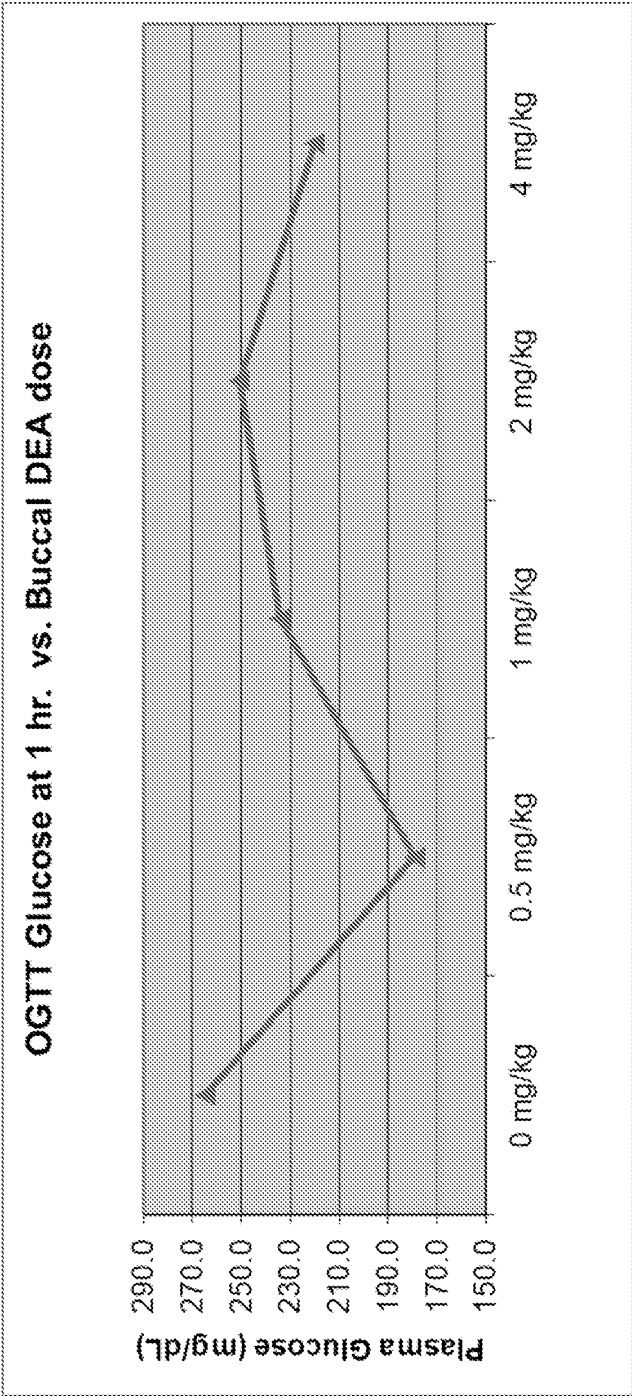


Figure 13

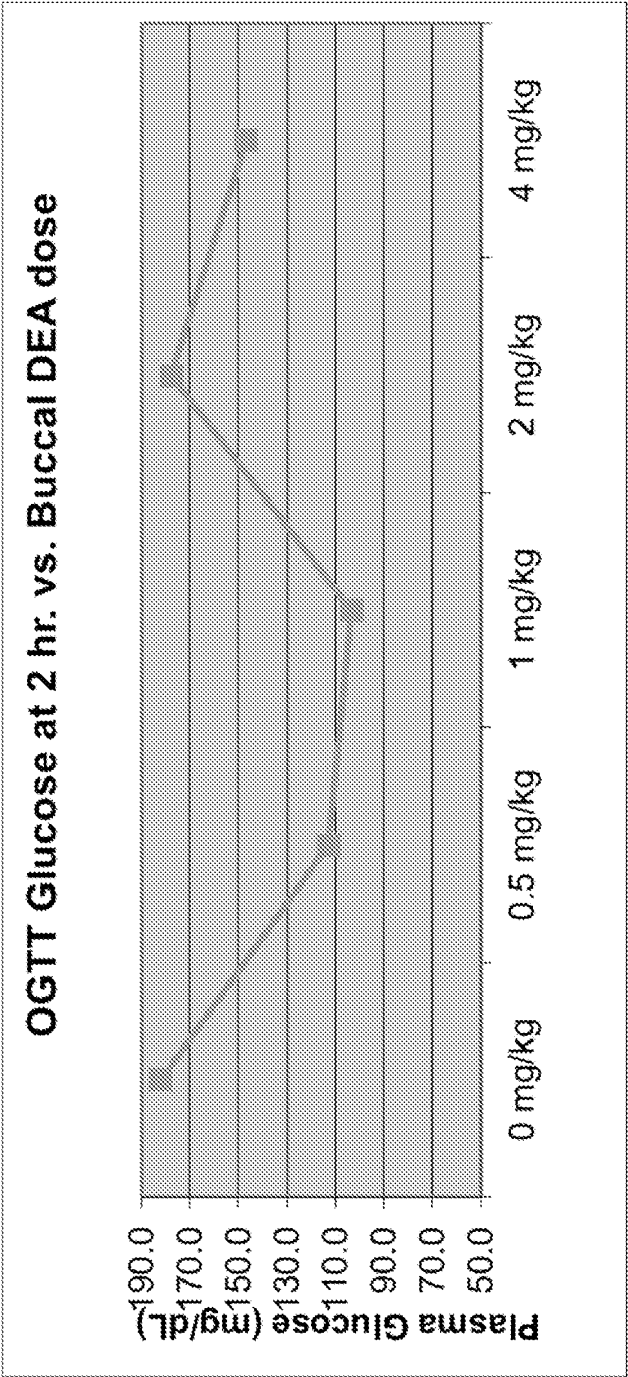


Figure 14

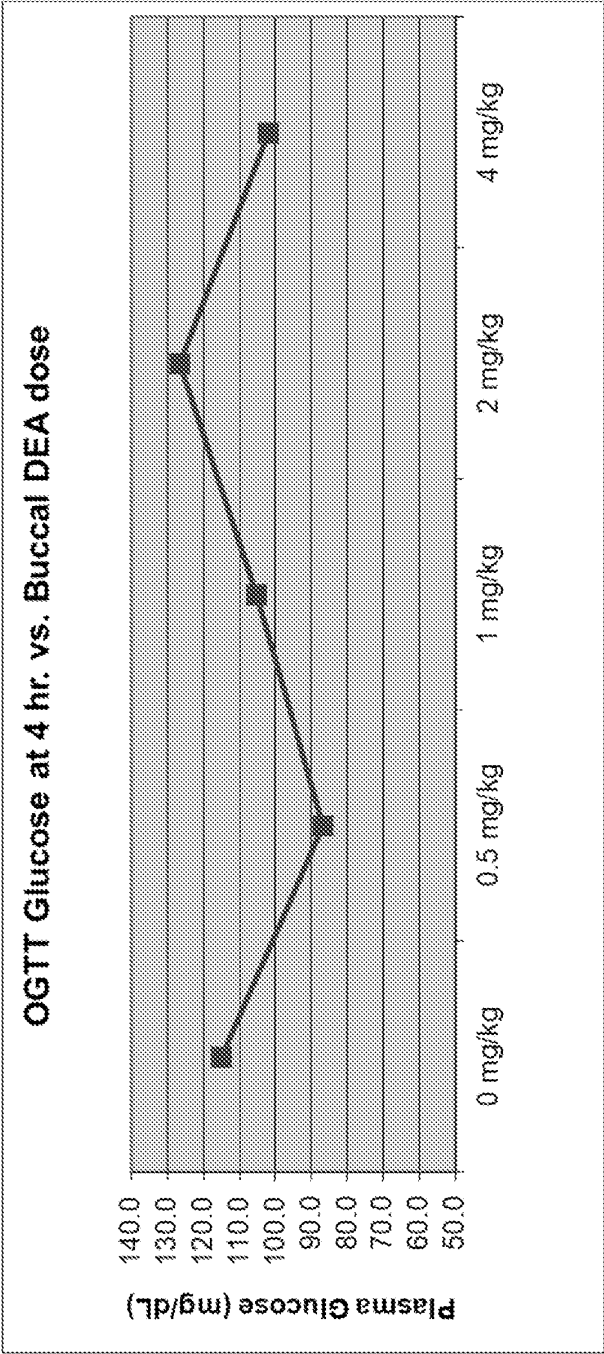


Figure 15

DEA Buccal Delivery						
DEA	Total Cholesterol	HDL	Triglycerides	Calc LDL	TC/HDL	
0	237.8	54.2	174.8	148.6	4.5	
0.5	192.5	66.3	125.3	109.3	2.9	
1	138.2	60.6	91.2	59.4	2.3	
2	202.2	72.4	114.6	106.8	2.8	
4	194.0	63.6	140.2	102.2	3.0	

DEA Gastric Delivery						
DEA	Total Cholesterol	HDL	Triglycerides	Calc LDL	TC/HDL	
0	237.8	54.2	174.8	148.6	4.5	
0.1	202.4	59.2	95.6	124.0	3.4	
0.25	179.6	60.8	81.4	99.2	3.0	
0.5	209.4	67.4	93.6	123.4	3.1	
1	207.0	63.8	103.2	122.2	3.3	

Figure 16

DEA Buccal Delivery				
DEA	Glucose 0h	Glucose 1h	Glucose 2h	Glucose 4 h
0	133.4	265.0	182.2	115.0
0.5	108.8	184.6	110.4	87.0
1	133.2	234.2	103.4	105.4
2	142.4	250.8	177.8	126.6
4	143.2	220.0	146.8	102.0

DEA Gastric Delivery				
DEA	Glucose 0h	Glucose 1h	Glucose 2h	Glucose 4 h
0	133.4	265.0	182.2	115.0
0.1	132.6	222.0	139.0	122.4
0.25	120.2	199.2	136.2	115.2
0.5	120.8	216.6	144.0	104.0
1	129.4	229.0	143.8	131.0

Figure 17

DEA dose	Comparison of doses				
1 mg/kg buccal 0.25 mg/kg gastric T test	Total Cholesterol	HDL	Triglycerides	Calc LDL	TC/HDL
	138.2	60.6	91.2	59.4	2.3
	179.6	60.8	81.4	99.2	3.0
	0.021	0.972	0.303	0.229	0.049

DEA dose	Comparison of doses			
0.5mg/kg buccal 0.25 mg/kg gastric T test	Glucose 0h	Glucose 1h	Glucose 2h	Glucose 4 h
	108.8	184.6	110.4	87.0
	120.2	199.2	136.2	115.2
	0.019	0.291	0.173	0.040

Figure 18

