

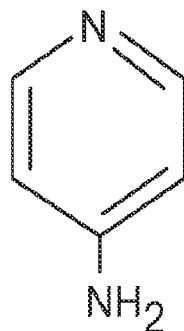
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Chemical name: 4-aminopyridine

USAN: dalfampridine

CAS registry number: 504-24-5

Chemical Structure:



Molecular Formula: C₅H₆N₂

Relative molecular mass: 94.1

Appearance: White solid

Solubility: aqueous solubility $\geq$ 50mg/mL

Melting point: 157 to 162 °C

Figure 1

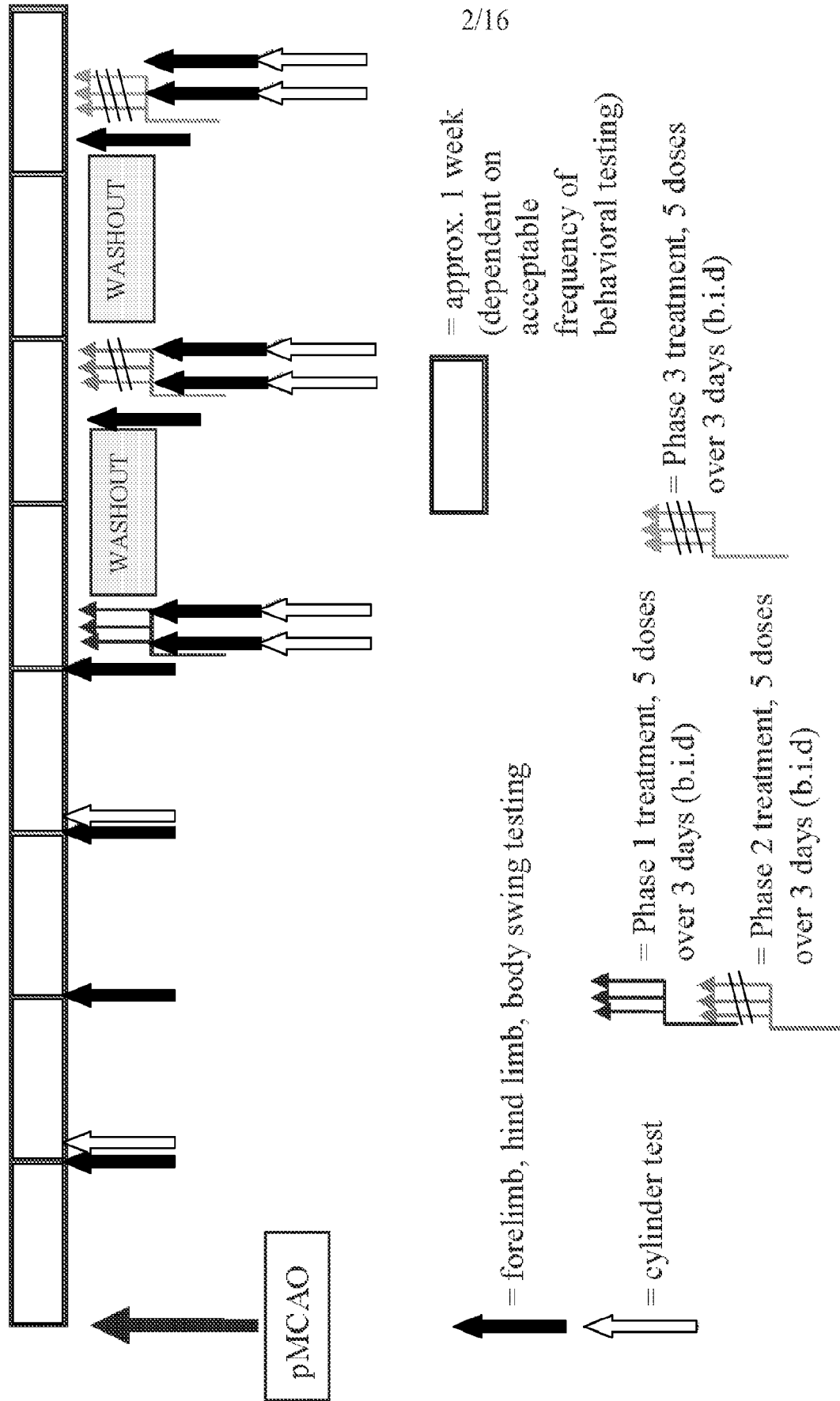


Figure 2

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	-1	1	7	14	21	28	30	32	42	44	46	56	58	60
Group 1	0.00	11.60	7.40	6.37	5.67	5.40	3.37	2.43	4.30	2.37	2.03	3.03	3.20	3.10
Group 2	0.00	11.60	7.70	6.10	5.77	5.50	4.20	3.43	4.40	4.23	3.93	3.90	1.90	1.17
Group 3	0.00	11.73	7.77	6.17	5.60	5.43	4.77	4.60	4.30	2.67	1.33	3.20	2.00	1.80

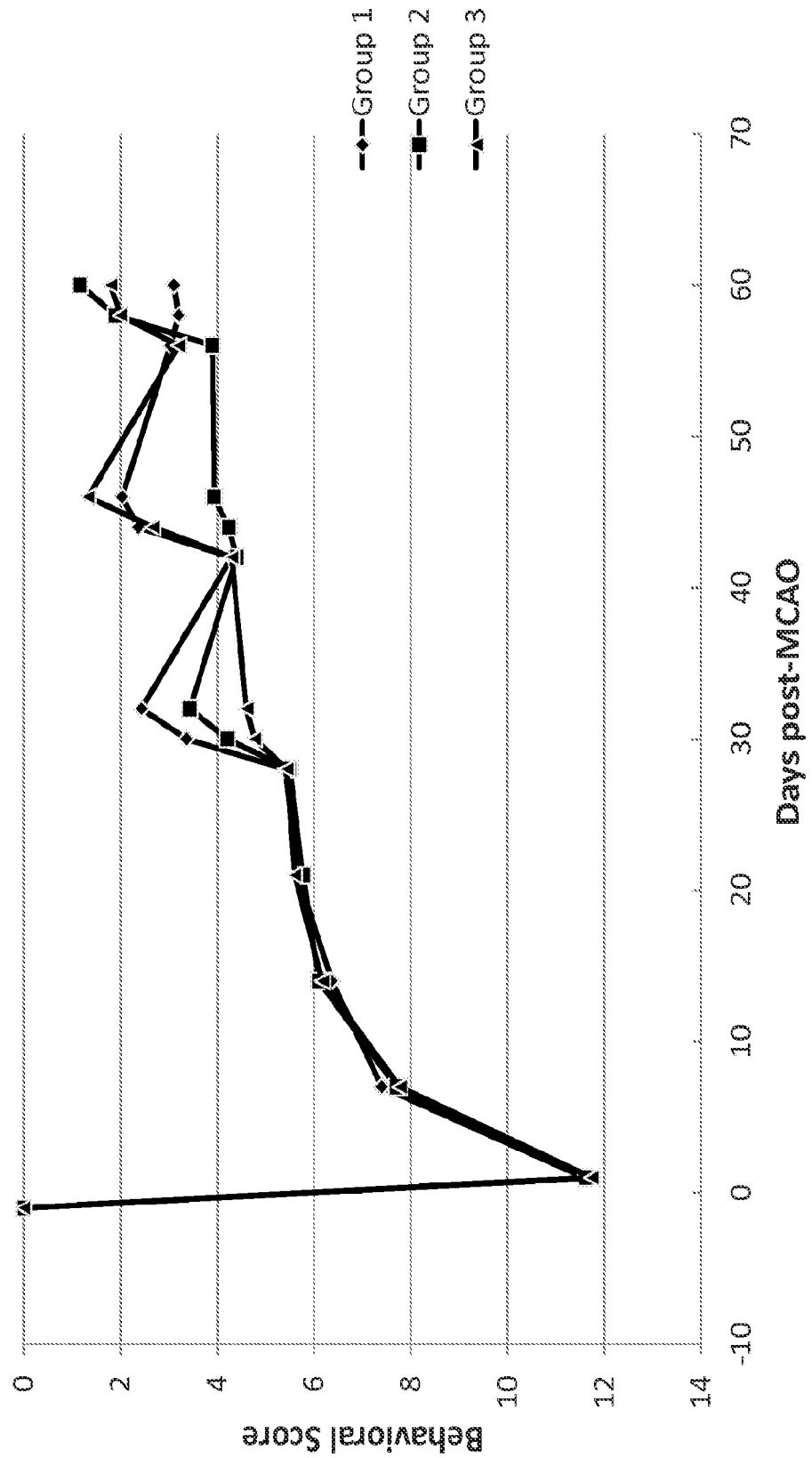


Figure 3

	-1	1	7	14	21	28	30	32	42	44	46	56	58	60
Group 1	0.00	5.90	3.73	3.13	3.00	2.83	1.67	0.97	2.27	1.33	1.13	1.57	1.77	1.67
Group 2	0.00	5.87	3.57	2.97	2.87	2.67	1.73	1.37	2.07	2.00	1.93	1.80	0.83	0.23
Group 3	0.00	5.83	3.63	3.13	2.90	2.90	2.57	2.33	2.27	0.90	0.30	1.50	0.80	0.70

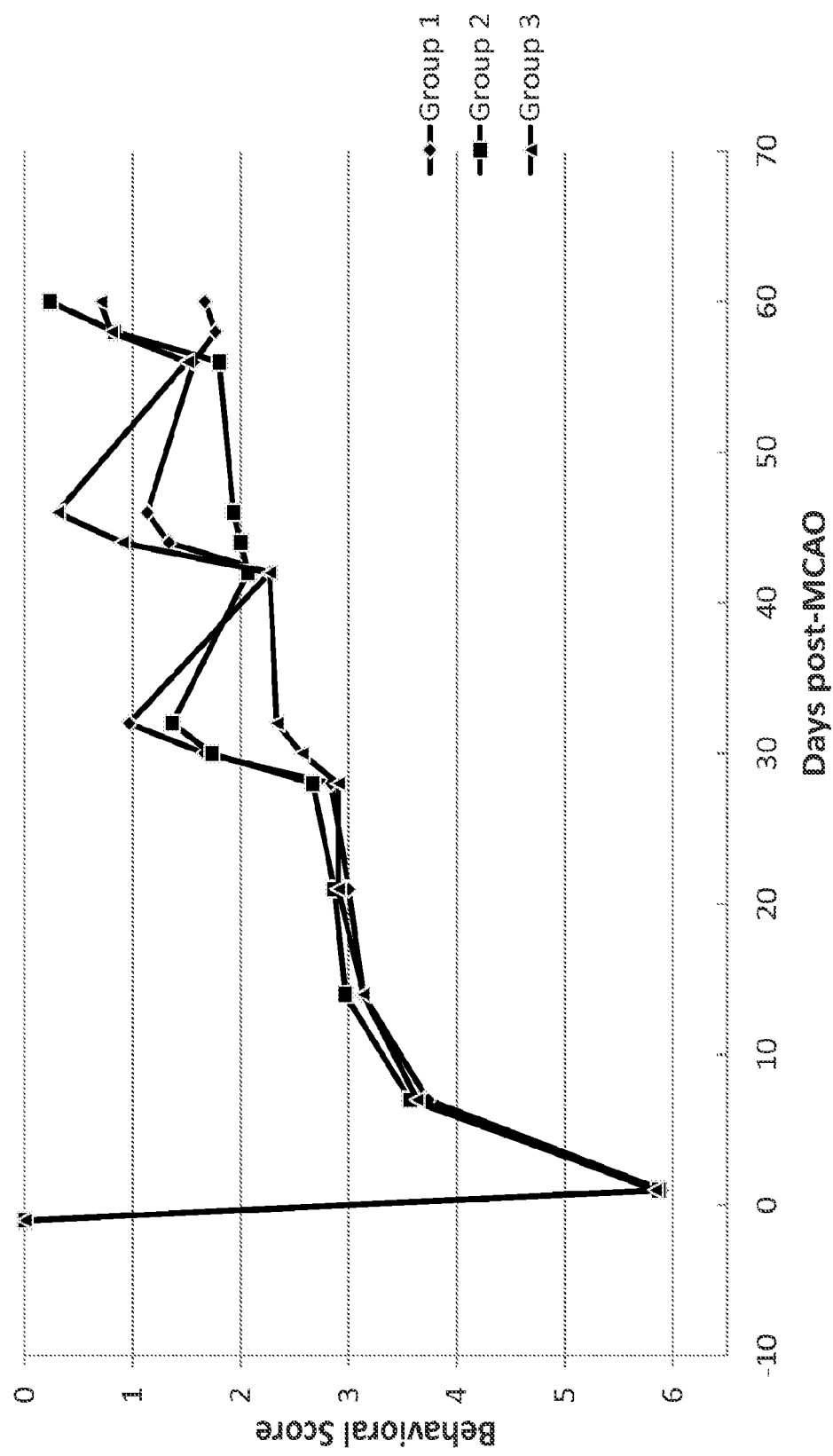


Figure 4A

Figure 4B

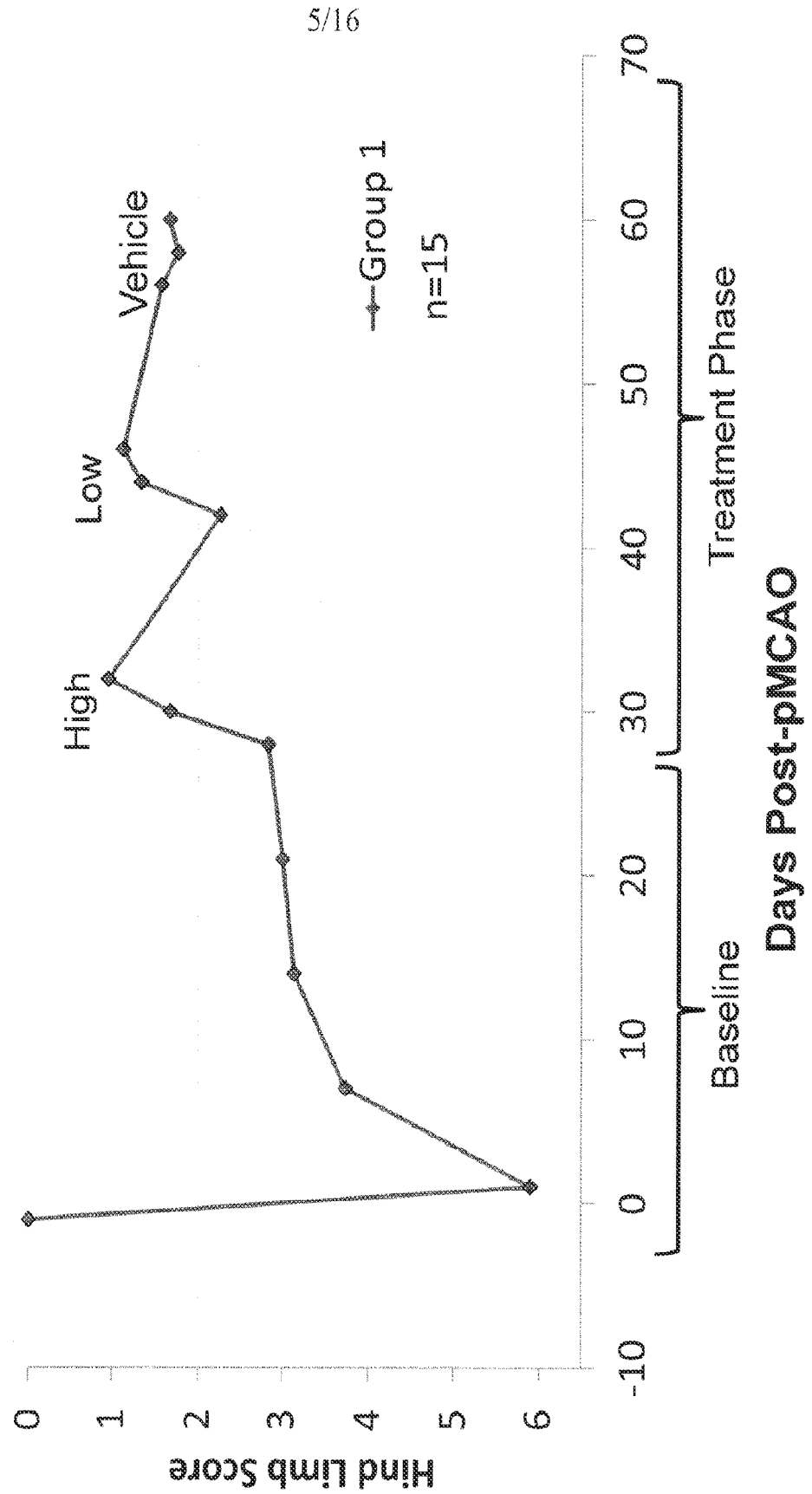


Figure 4C

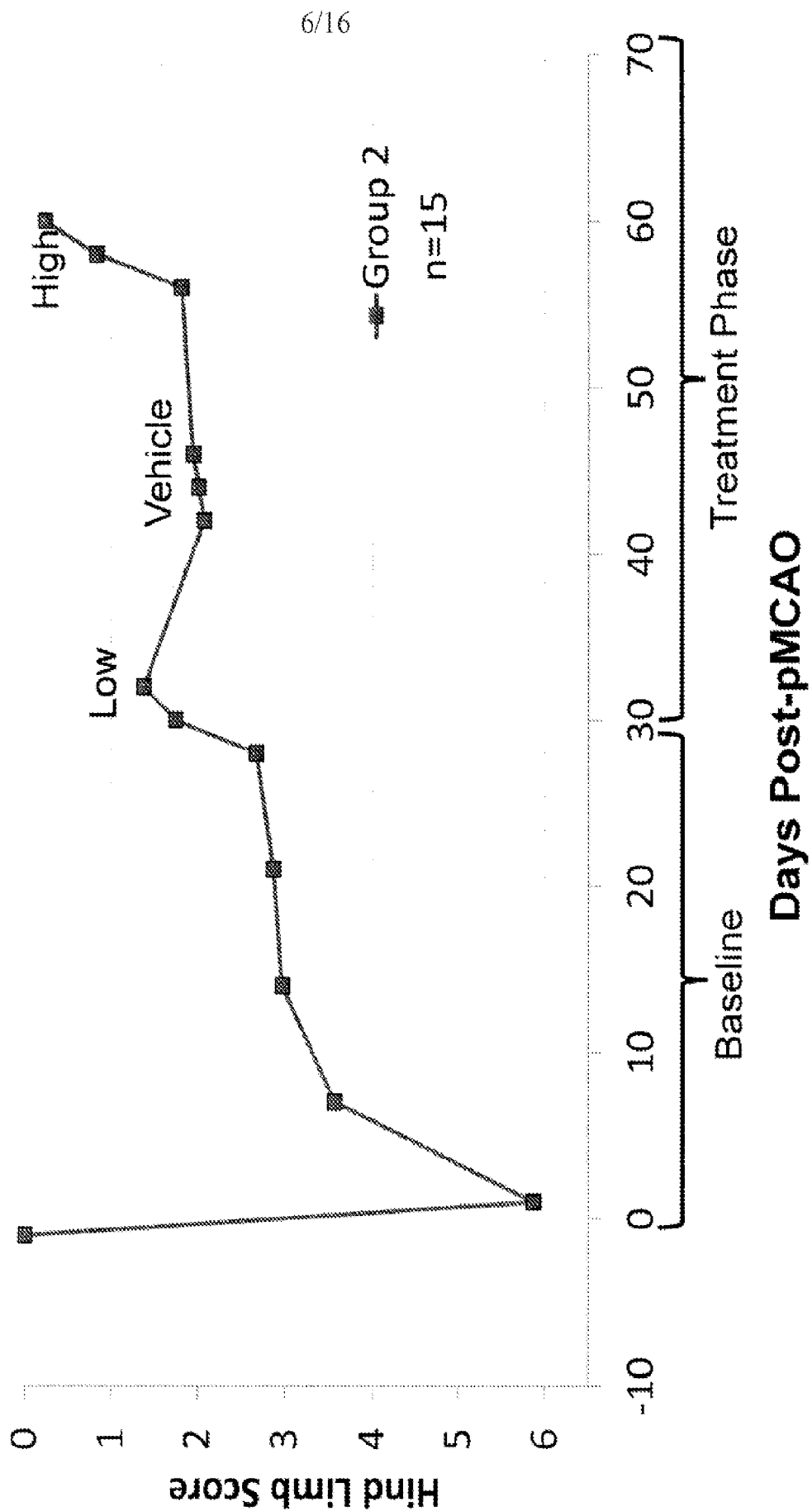
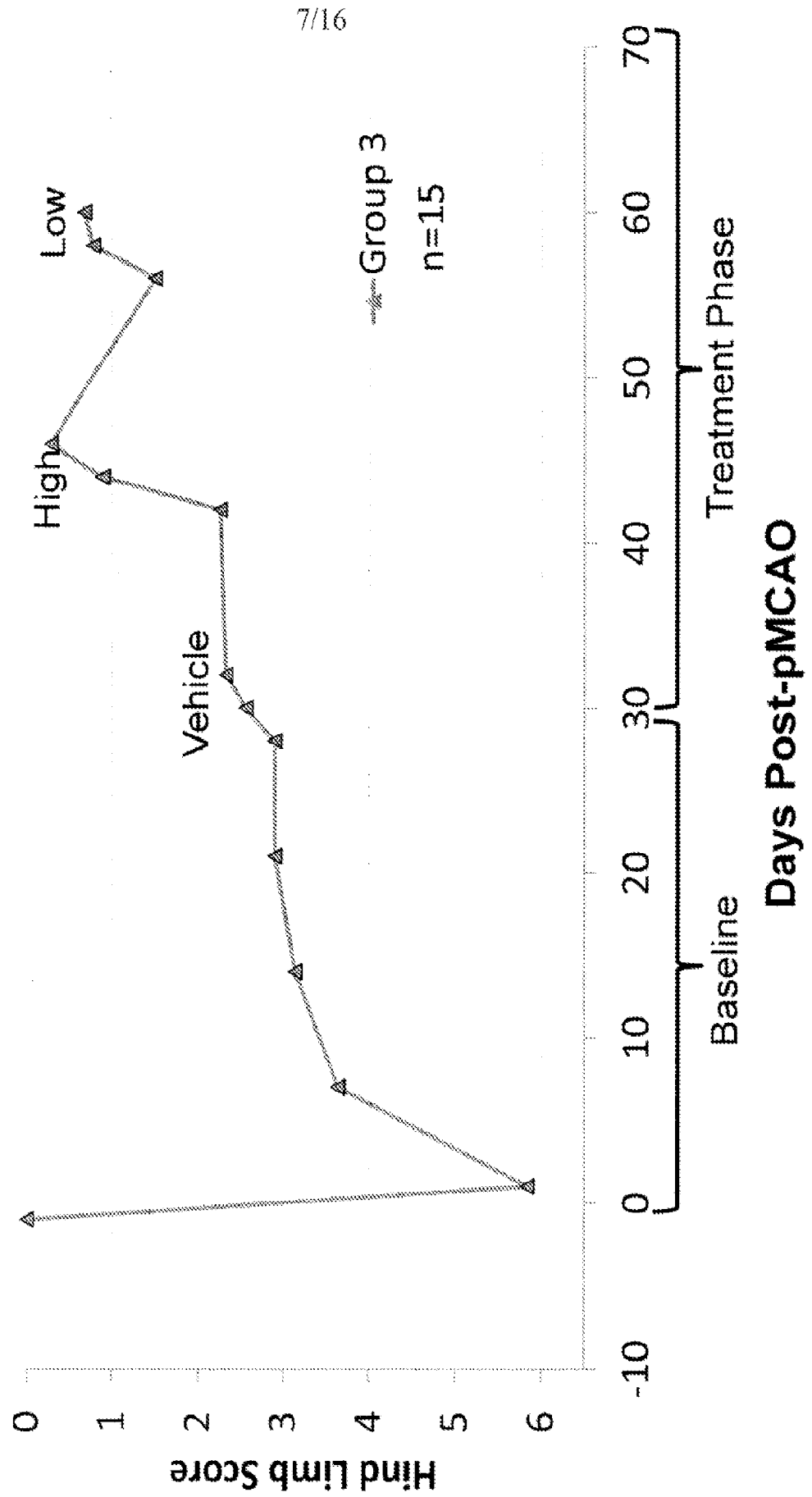


Figure 4D



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	D-1	D1	D7	D14	D21	D28	D30	D32	D42	D44	D46	D56	D58	D60
Group 1	49.33	0.44	5.78	16.22	17.56	25.78	37.56	42.22	35.11	38.44	36.44	34.22	32.44	34.22
Group 2	49.33	0.67	7.78	16.67	19.11	24.00	32.89	37.78	33.56	31.11	33.11	34.22	40.67	42.67
Group 3	49.78	2.00	12.89	23.56	26.22	27.56	27.78	31.78	32.44	39.56	40.44	35.56	34.89	35.11

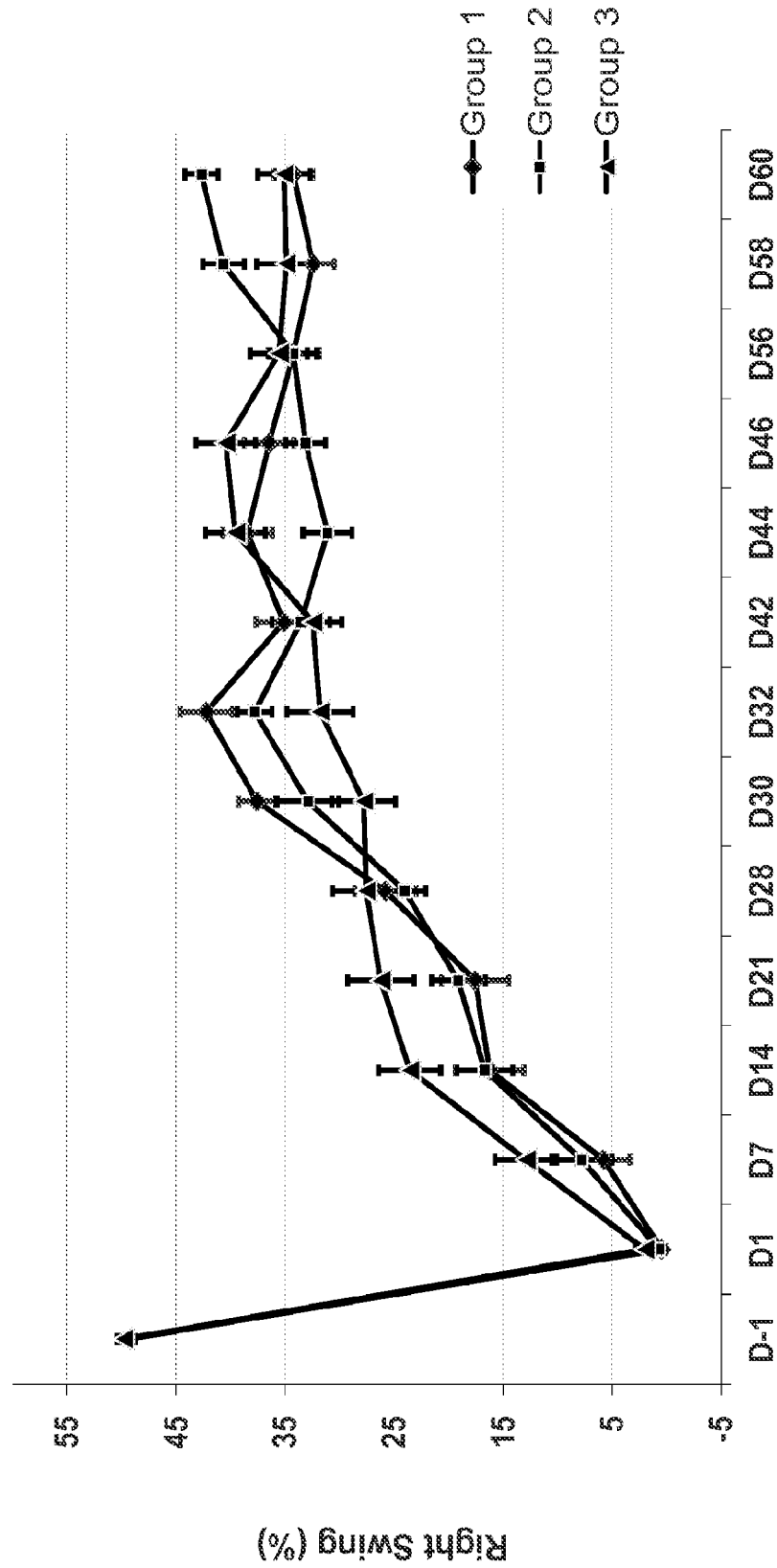


Figure 5

	D-1	D1	D7	D14	D21	D28	D30	D32	D42	D44	D46	D56	D58	D60
Group 1	317.3	304.7	344.7	389.8	420.1	445.0	453.1	436.3	471.1	476.2	471.1	492.7	501.1	495.8
Group 2	318.3	304.9	343.0	384.7	416.5	436.7	446.0	438.1	468.7	475.4	470.6	491.9	500.9	483.0
Group 3	314.1	303.5	340.8	383.5	413.3	434.3	443.7	441.3	462.1	471.9	451.0	482.3	494.9	485.1

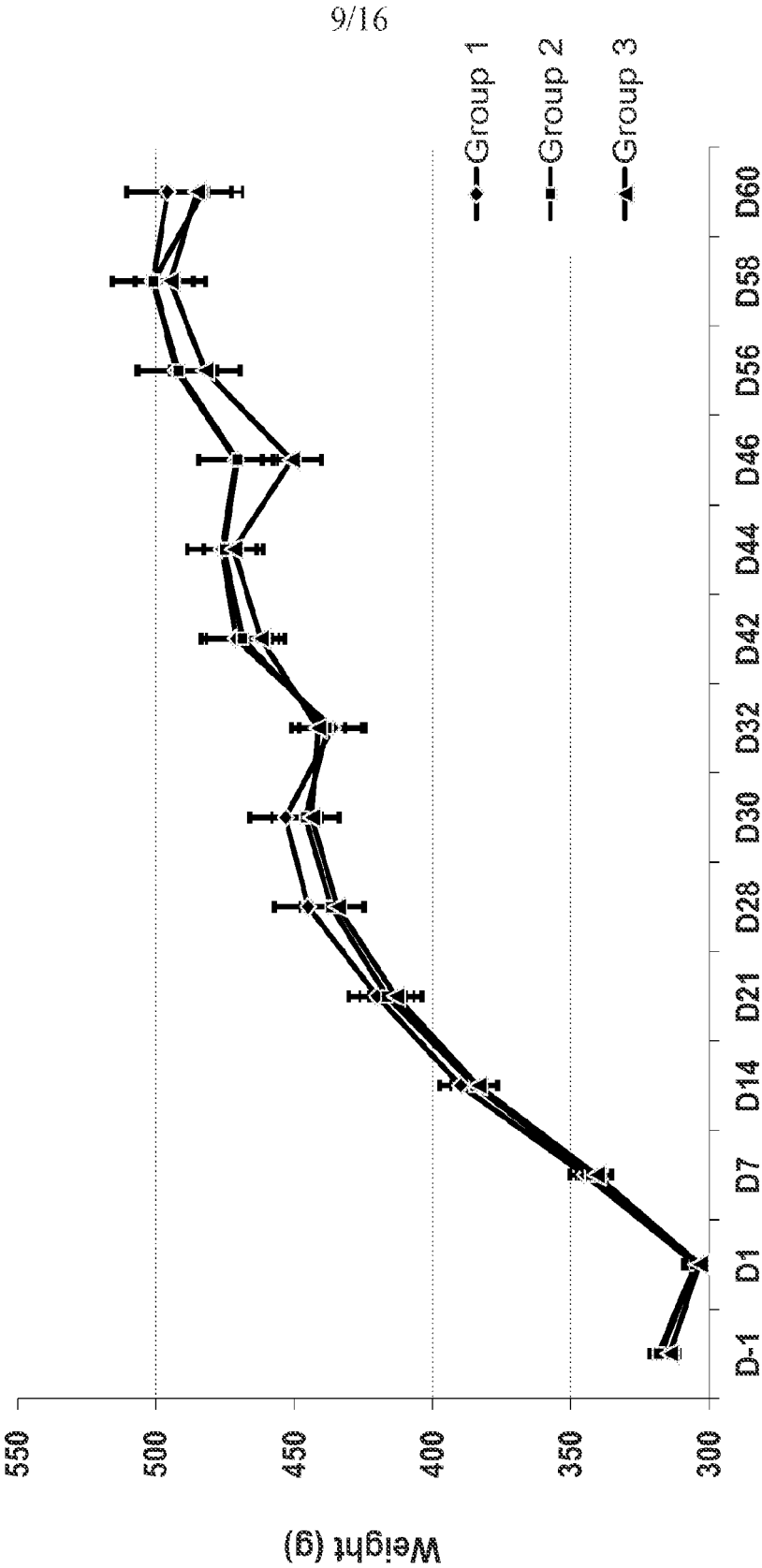


Figure 6

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	-1	7	21	30	32	42	44	46	58	60
Group 1	1.92	24.90	15.05	17.78	-15.95	10.38	16.29	24.83	17.21	17.21
Group 2	-4.05	38.14	27.16	26.98	23.50	14.61	24.91	35.52	4.43	4.43
Group 3	-1.90	36.20	17.68	20.72	20.96	27.98	10.17	12.32	3.23	3.23

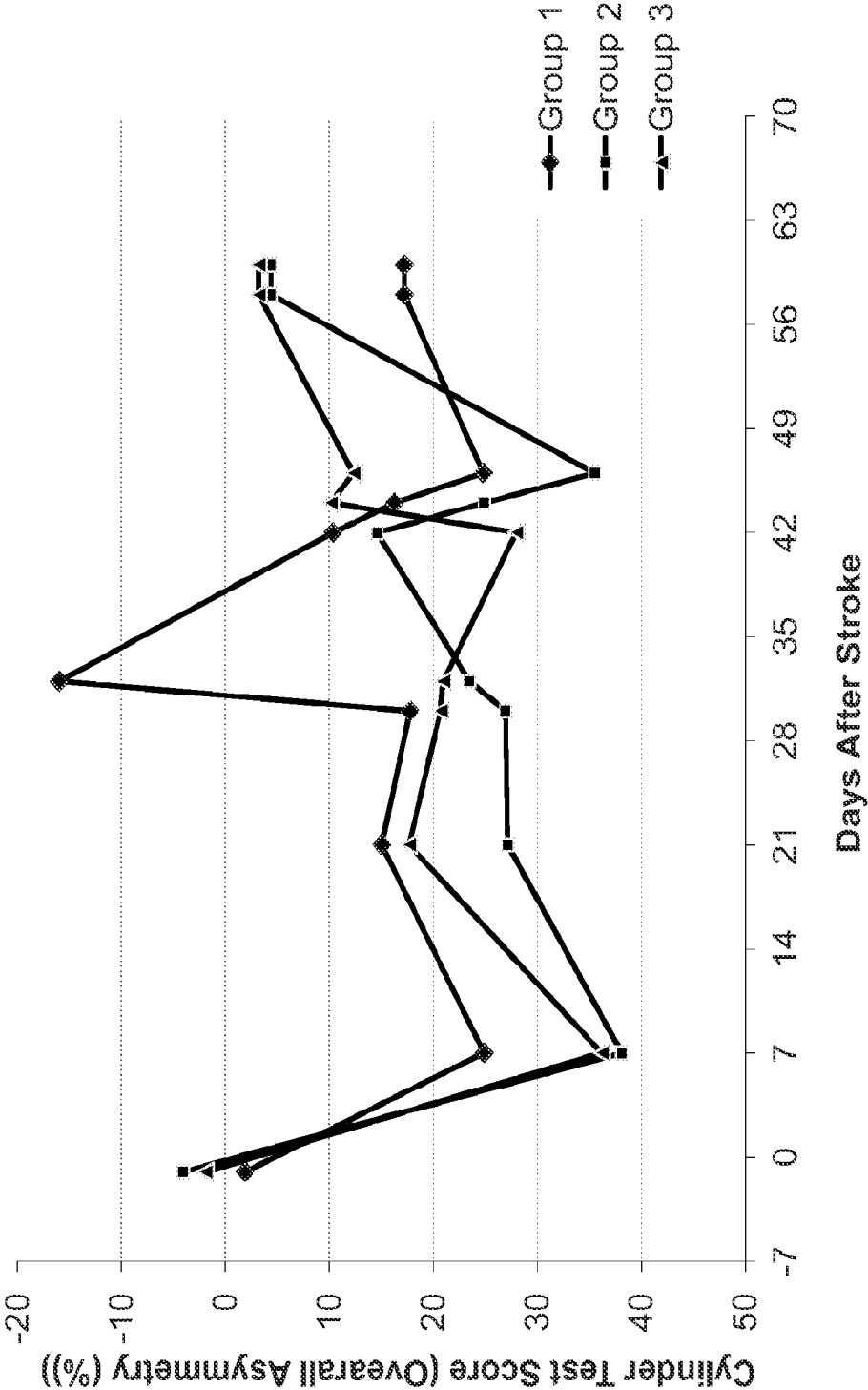


Figure 7

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	-1	7	21	30	32	42	44	46	58	60
Group 1	63.07	58.07	45.67	9.47	16.20	39.20	23.87	36.47	27.40	27.40
Group 2	78.07	53.53	41.07	46.87	36.20	49.73	45.67	11.60	12.93	12.93
Group 3	61.60	49.53	34.07	57.87	44.13	19.13	18.73	32.33	26.67	26.67

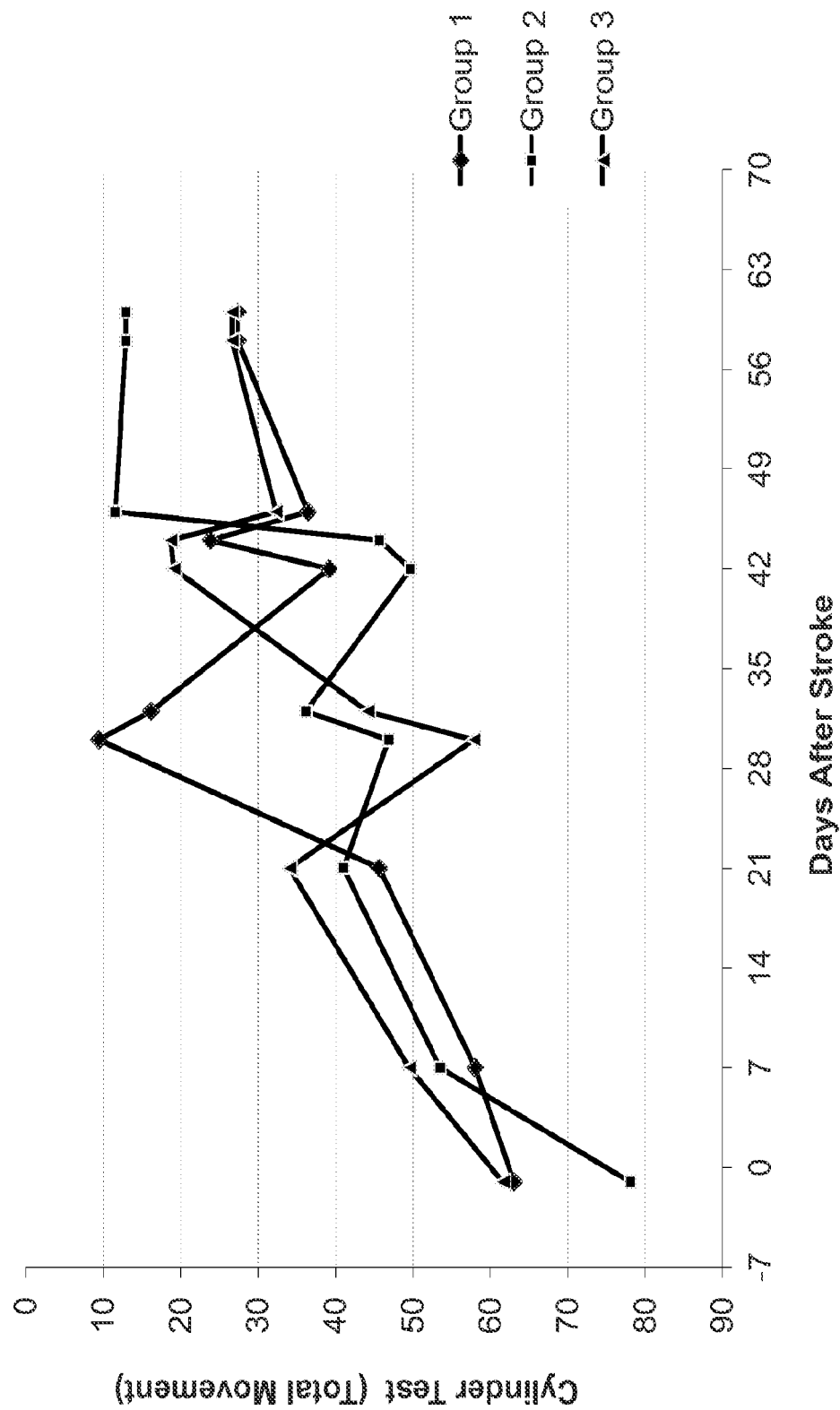


Figure 8

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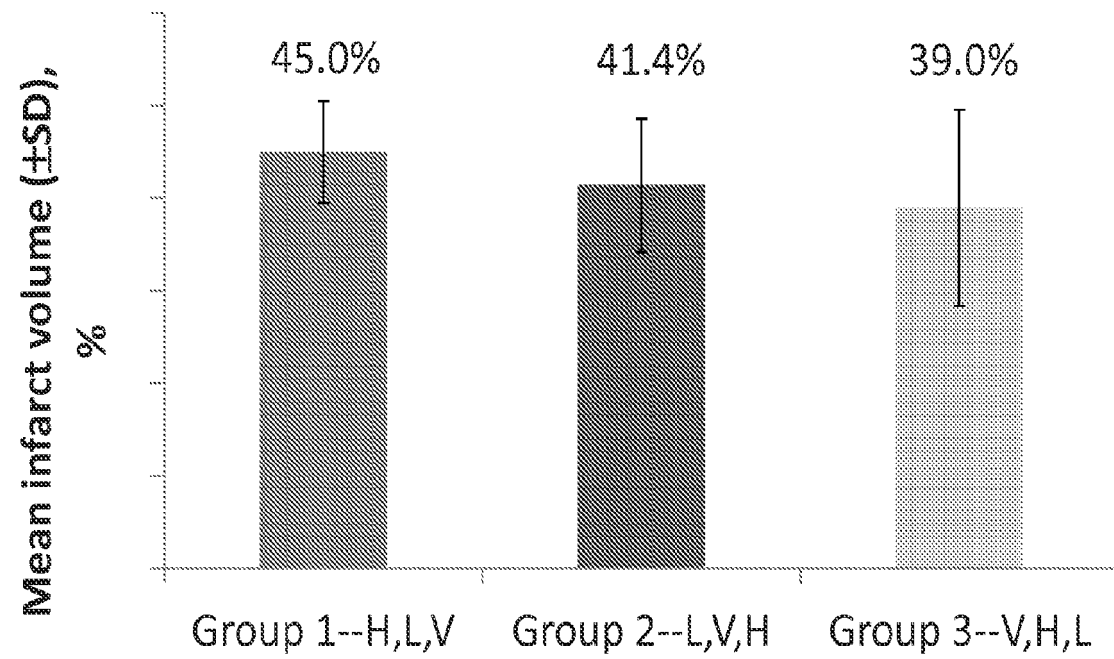


Figure 9

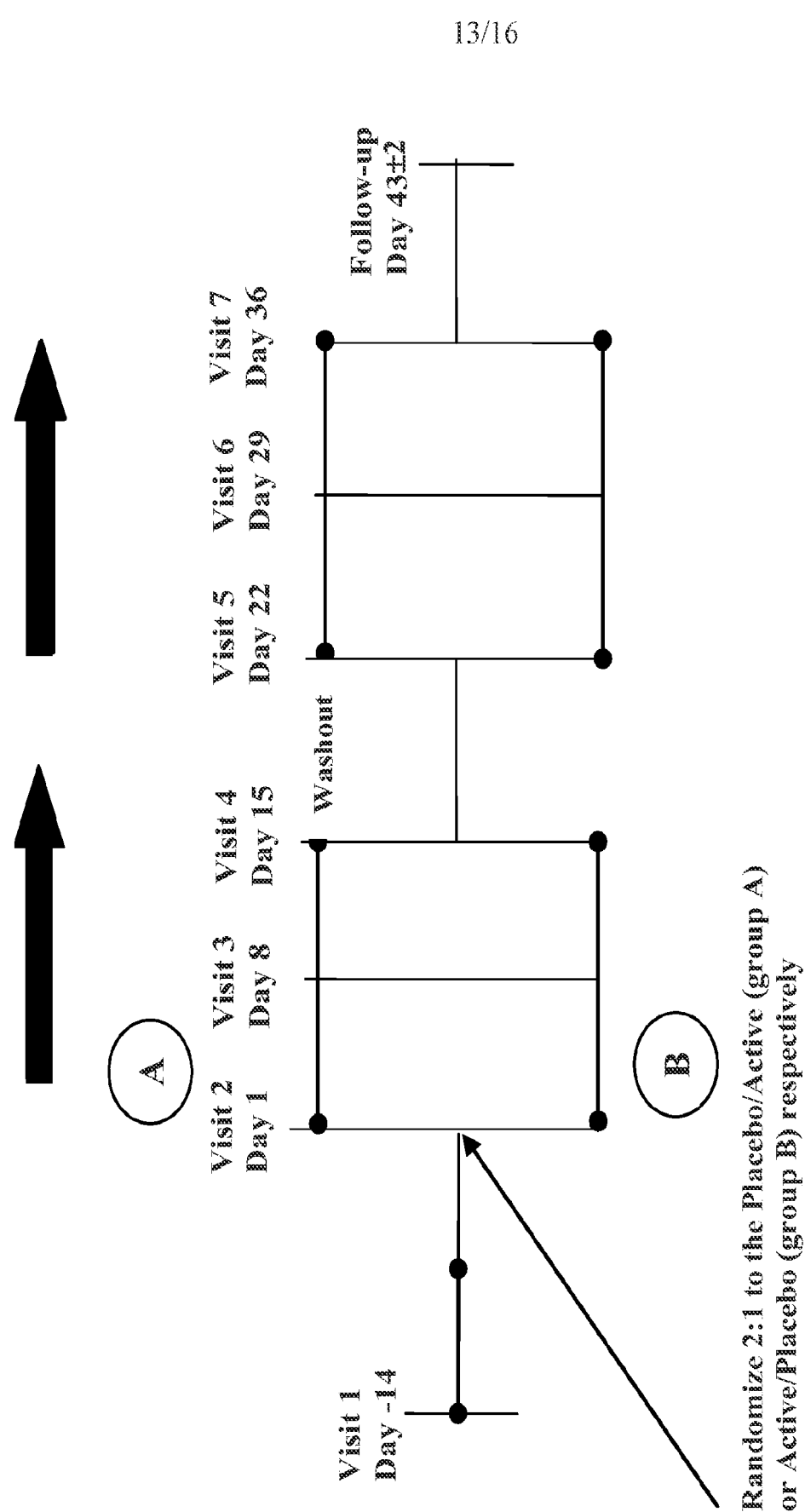


Figure 10

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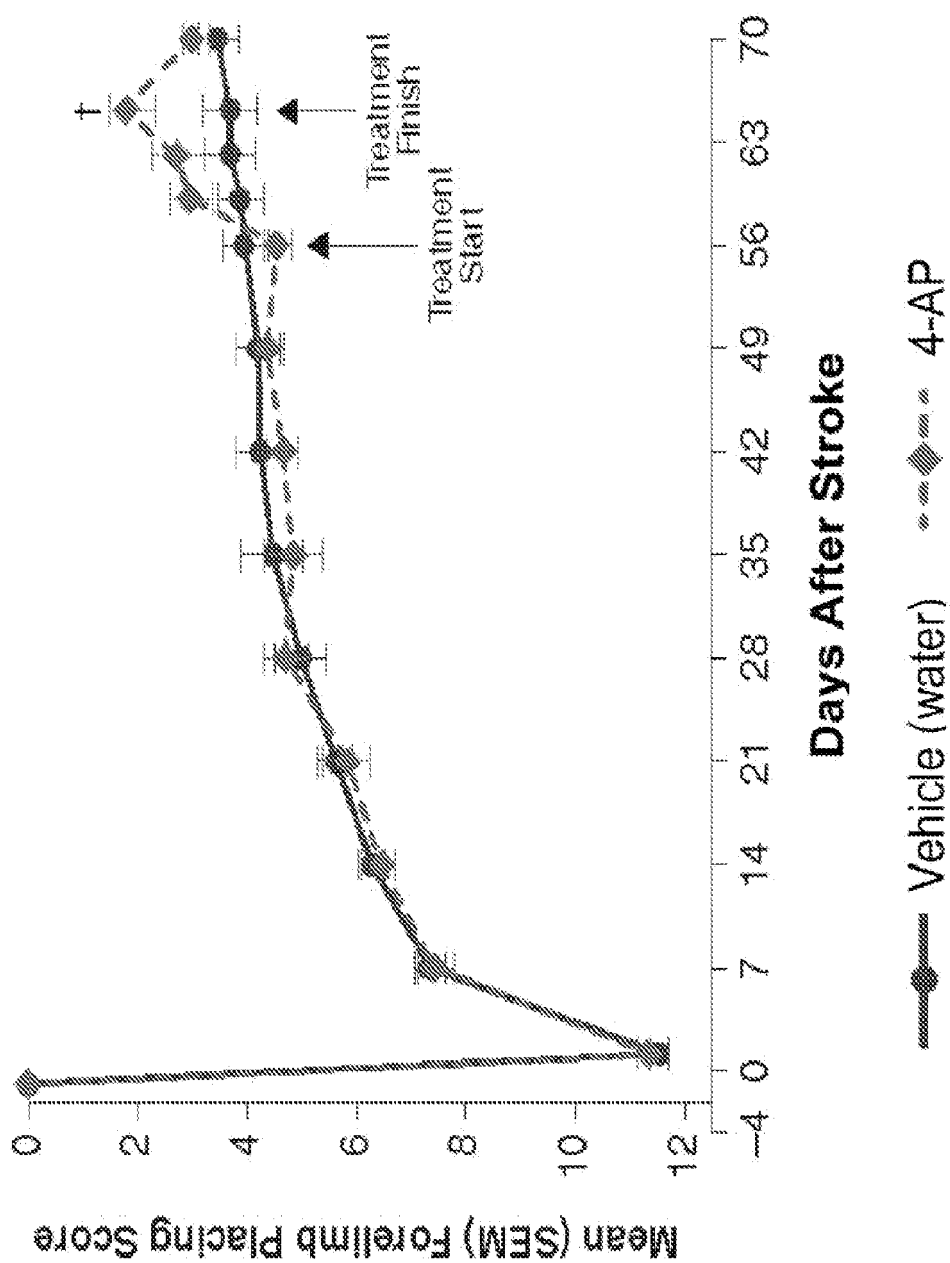


Figure 11

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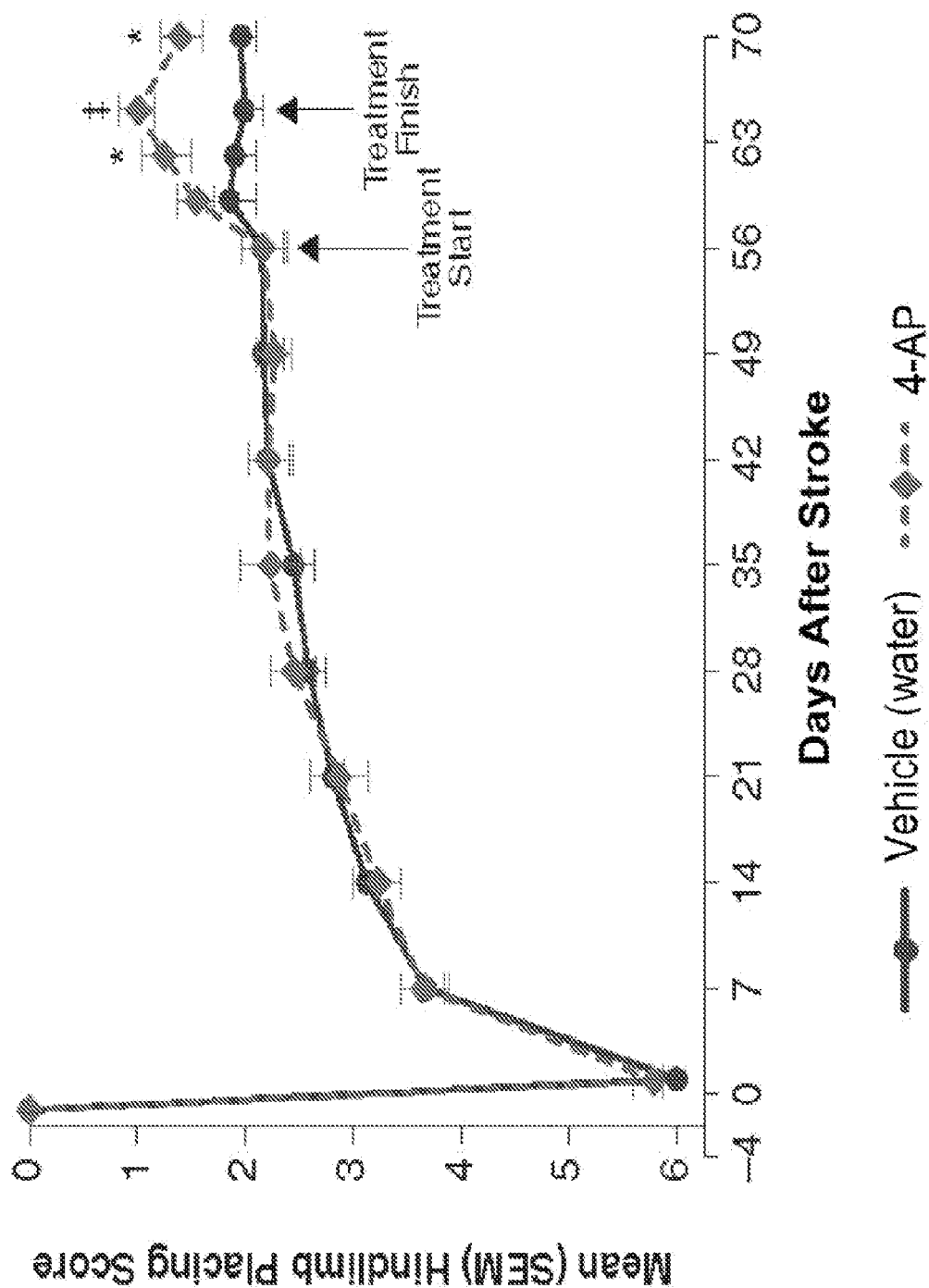


Figure 12

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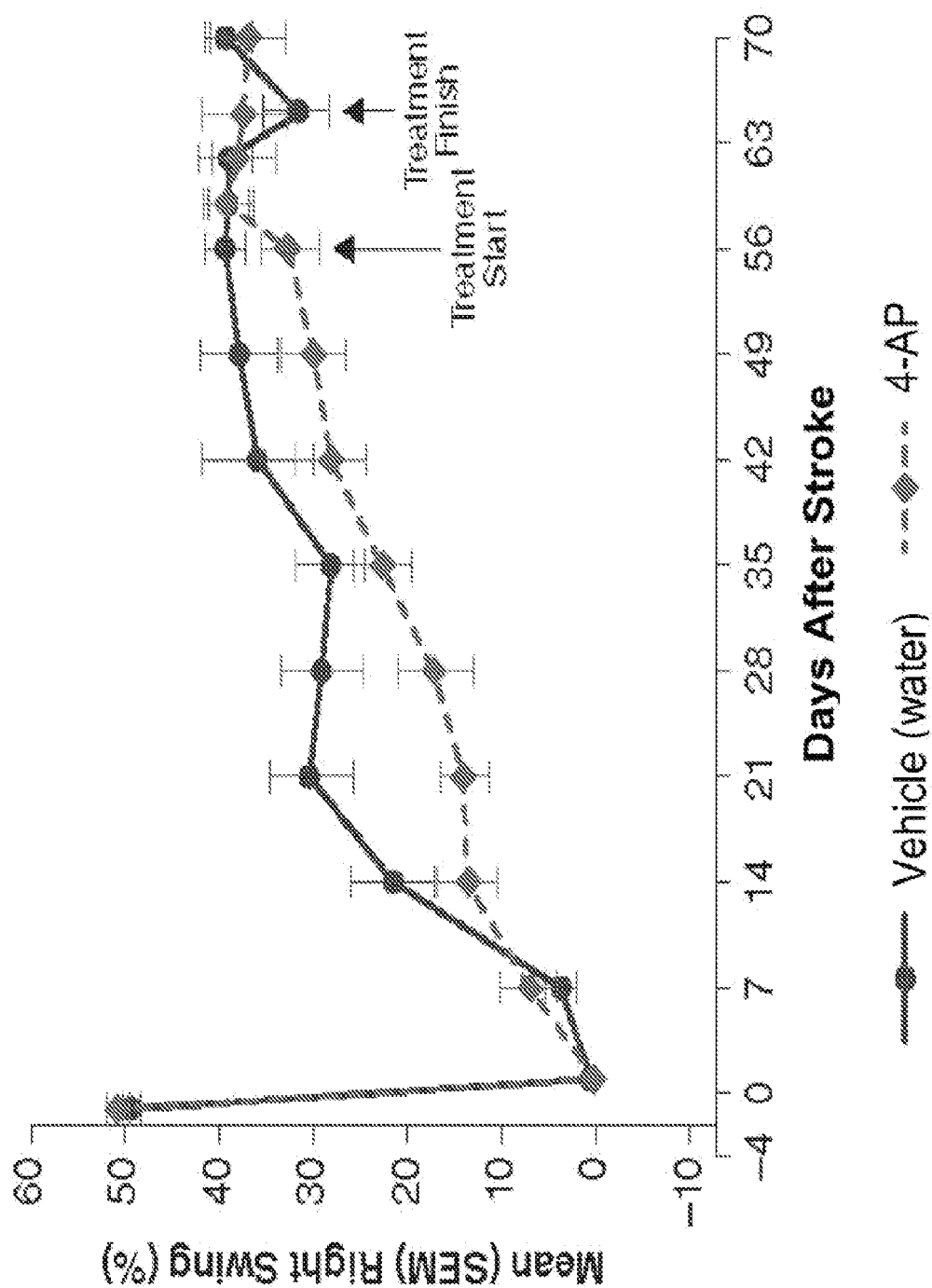


Figure 13