

SUBLUXATION-BASED CHIROPRACTIC CARE
IN RESIDENTIAL DRUG TREATMENT

FLORIDA CHIROPRACTIC SOCIETY STUDY
Dr. Jay Holder, Principal Investigator
Dr. Robert Duncan, Biostatistician

PRIVILEGED AND CONFIDENTIAL

SUBLUXATION-BASED CHIROPRACTIC CARE
IN RESIDENTIAL DRUG TREATMENT

Subject Characteristics

	<u>Male</u>	<u>Female</u>	<u>Total</u>
Usual Care	28	5	33
Placebo	28	4	32
Chiropractic	<u>28</u>	<u>5</u>	<u>33</u>
Total	84	14	98

FLORIDA CHIROPRACTIC SOCIETY STUDY

Dr. Jay Holder, Principal Investigator

Dr. Robert Duncan, Biostatistician

SUBLUXATION-BASED CHIROPRACTIC CARE IN RESIDENTIAL DRUG TREATMENT

Subject Retention

	<u>Completed</u> <u>28 Days</u>	<u>Left Prior</u> <u>To 28 Days</u>	<u>Total</u>
Usual Care	19	14	33
Placebo	24	8	32
Chiropractic	<u>33</u> ^{a,b}	<u>0</u>	<u>33</u>
Total	76	22	98

a- Chiropractic different from Placebo, $p < 0.05$

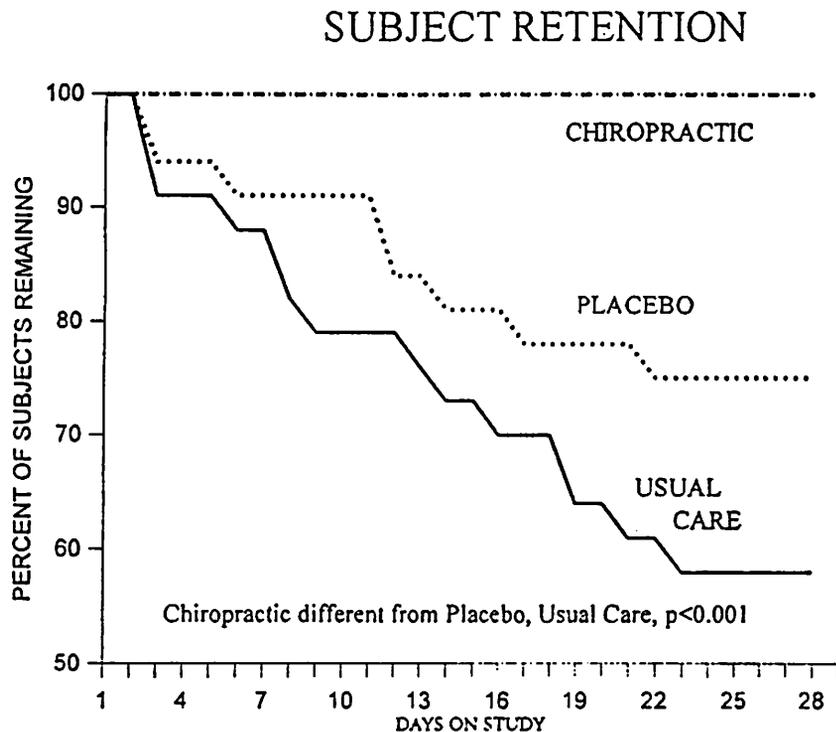
b- Chiropractic different from Usual Care, $p < 0.05$

FLORIDA CHIROPRACTIC SOCIETY STUDY

Dr. Jay Holder, Principal Investigator

Dr. Robert Duncan, Biostatistician

SUBLUXATION-BASED CHIROPRACTIC CARE IN RESIDENTIAL DRUG TREATMENT



FLORIDA CHIROPRACTIC SOCIETY STUDY
Dr. Jay Holder, Principal Investigator

SUBLUXATION-BASED CHIROPRACTIC CARE
IN RESIDENTIAL DRUG TREATMENT

Halikas/Crosby Drug Impairment Rating Mean Scores

	Baseline	Week 4	Difference
Usual Care	15.2±1.6	5.1±1.2	9.9±2.3
Placebo	17.9±1.6	5.3±1.3	12.1±1.8
Chiropractic	16.7±0.9	3.8±0.5	12.5±0.8

FLORIDA CHIROPRACTIC SOCIETY STUDY

Dr. Jay Holder, Principal Investigator

Dr. Robert Duncan, Biostatistician

SUBLUXATION-BASED CHIROPRACTIC CARE IN RESIDENTIAL DRUG TREATMENT

Spielberger State Anxiety Mean Scores

	Baseline	Week 4	Difference
Usual Care	42.8±2.0	33.1±3.7	8.7±4.2
Placebo	45.3±2.5	42.5±3.0 ^c	2.3±2.9
Chiropractic	50.0±1.9 ^b	32.0±1.6 ^a	19.0±2.2 ^{a,b}

a- Chiropractic different from Placebo, $p < 0.05$

b- Chiropractic different from Usual Care, $p < 0.05$

c- Placebo different from Usual Care, $p < 0.05$

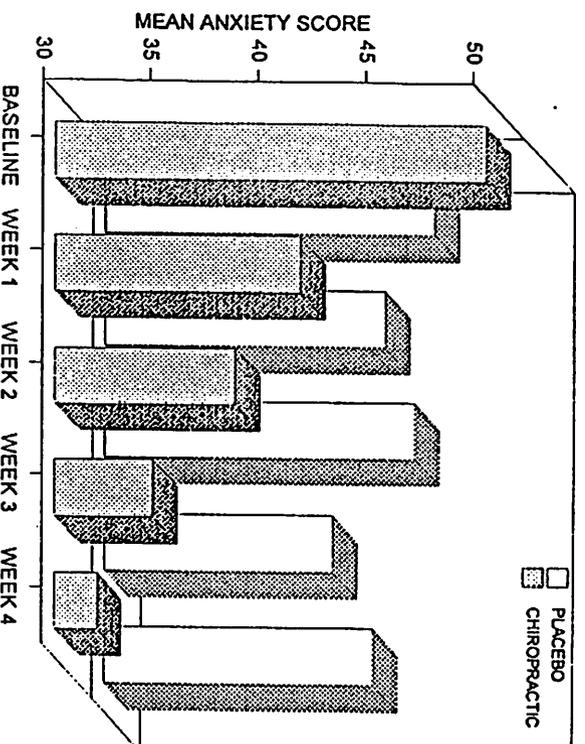
FLORIDA CHIROPRACTIC SOCIETY STUDY

Dr. Jay Holder, Principal Investigator

Dr. Robert Duncan, Biostatistician

SUBLUXATION-BASED CHIROPRACTIC CARE IN RESIDENTIAL DRUG TREATMENT

SPIELBERGER STATE ANXIETY



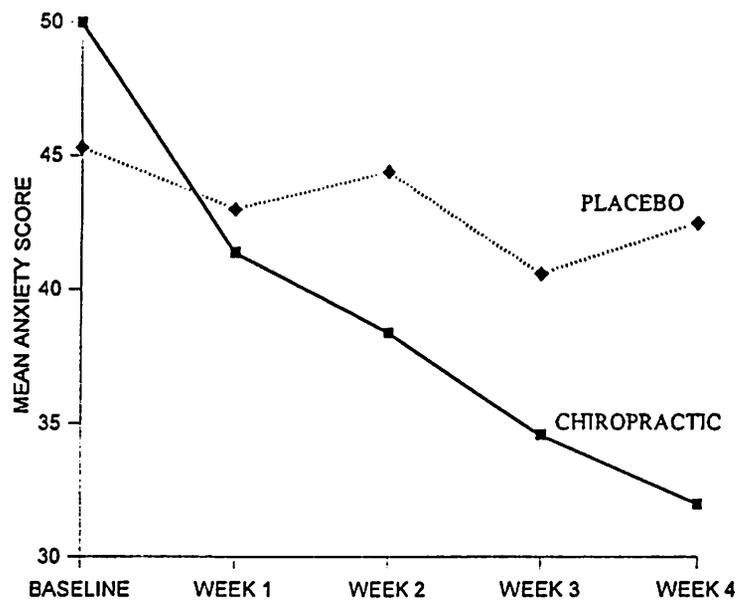
FLORIDA CHIROPRACTIC SOCIETY STUDY

Jay Holder, Principal Investigator

Dr. Robert Duncan, Biostatistician

SUBLUXATION-BASED CHIROPRACTIC CARE IN RESIDENTIAL DRUG TREATMENT

SPIELBERGER STATE ANXIETY



Dr. Jay Holder, Principal Investigator
Dr. Robert Duncan, Biostatistician

SUBLUXATION-BASED CHIROPRACTIC CARE IN RESIDENTIAL DRUG TREATMENT

Holder-Duncan Inventory Mean Scores

	Baseline	Week 4	Difference
Usual Care	3.1±0.3	1.7±0.4	1.4±0.3
Placebo	3.9±0.2 ^c	2.5±0.3	1.6±0.3
Chiropractic	3.5±0.3	1.4±0.2 ^a	2.2±0.2

a- Chiropractic different from Placebo, $p < 0.05$

c- Placebo different from Usual Care, $p < 0.05$

FLORIDA CHIROPRACTIC SOCIETY STUDY

Dr. Jay Holder, Principal Investigator

Dr. Robert Duncan, Biostatistician

SUBLUXATION-BASED CHIROPRACTIC CARE IN RESIDENTIAL DRUG TREATMENT

Beck's Depression Inventory Mean Scores

	Baseline	Week 4	Difference
Usual Care	16.7±2.0	3.3±1.2	14.9±2.8
Placebo	21.0±1.8	6.5±2.0	14.5±2.3
Chiropractic	18.6±1.6	2.6±0.7 ^a	16.1±1.8

a- Chiropractic different from Placebo, $p < 0.05$

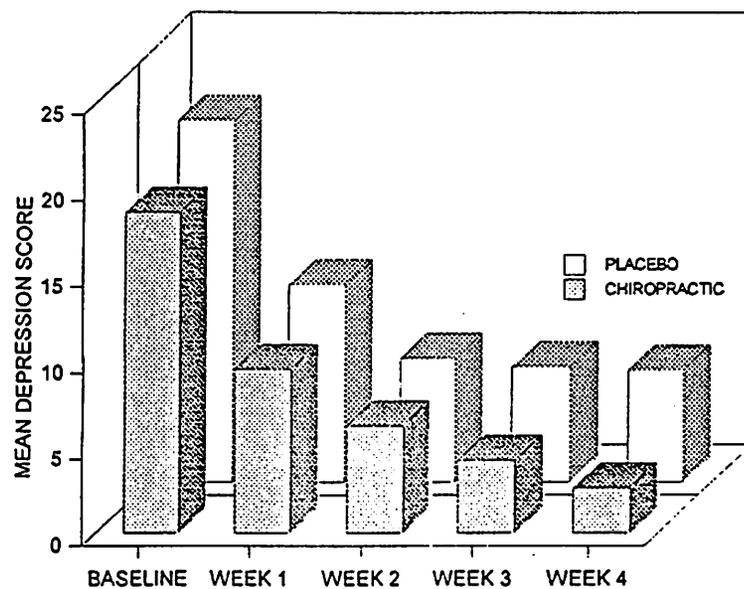
FLORIDA CHIROPRACTIC SOCIETY STUDY

Dr. Jay Holder, Principal Investigator

Dr. Robert Duncan, Biostatistician

SUBLUXATION-BASED CHIROPRACTIC CARE IN RESIDENTIAL DRUG TREATMENT

BECK'S DEPRESSION INVENTORY



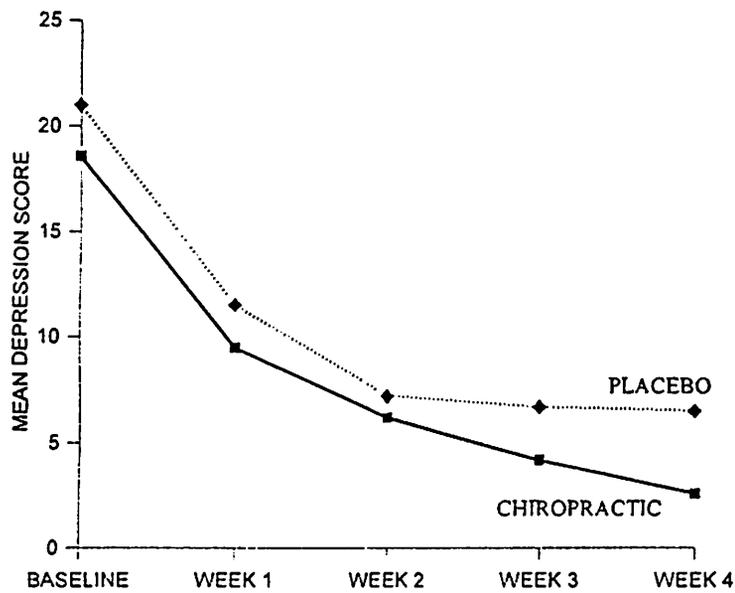
FLORIDA CHIROPRACTIC SOCIETY STUDY

Dr. Jay Holder, Principal Investigator

Dr. Robert Duncan, Biostatistician

SUBLUXATION-BASED CHIROPRACTIC CARE IN RESIDENTIAL DRUG TREATMENT

BECK'S DEPRESSION INVENTORY-



Dr. Jay Holder, Principal Investigator
Dr. Robert Duncan, Biostatistician

TABLE OF GROUP BY VISITS

GROUP	VISITS			Total
	None	One	Two++	
Frequency				
Percent				
Row Pct				
Col Pct				
-----+-----+-----+-----+-----				
Usual Care	17	11	5	33
	25.76	16.67	7.58	50.00
	51.52	33.33	15.15	
	36.17	84.62	83.33	
-----+-----+-----+-----+-----				
Chiropractic	30	2	1	33
	45.45	3.03	1.52	50.00
	90.91	6.06	3.03	
	63.83	15.38	16.67	
-----+-----+-----+-----+-----				
Total	47	13	6	66
	71.21	19.70	9.09	100.00

STATISTICS FOR TABLE OF GROUP BY VISITS

Statistic	DF	Value	Prob
-----+-----+-----+-----			
Chi-Square	2	12.493	0.002
Likelihood Ratio Chi-Square	2	13.414	0.001
Mantel-Haenszel Chi-Square	1	10.338	0.001
Phi Coefficient		0.435	
Contingency Coefficient		0.399	
Cramer's V		0.435	

Sample Size = 66

WARNING: 33% of the cells have expected counts less than 5. Chi-Square may not be a valid test.

TABLE OF GROUP BY VISITS

GROUP	VISITS			Total
	None	One	Two++	
Frequency				
Percent				
Row Pct				
Col Pct				
-----	-----	-----	-----	-----
Placebo	14	10	8	32
	21.54	15.38	12.31	49.23
	<u>43.75</u>	31.25	25.00	
	31.82	83.33	88.89	
-----	-----	-----	-----	-----
Chiropractic	30	2	1	33
	46.15	3.08	1.54	50.77
	<u>90.91</u>	6.06	3.03	
	68.18	16.67	11.11	
-----	-----	-----	-----	-----
Total	44	12	9	65
	67.69	18.46	13.85	100.00

STATISTICS FOR TABLE OF GROUP BY VISITS

Statistic	DF	Value	Prob
-----	-----	-----	-----
Chi-Square	2	16.585	0.000
Likelihood Ratio Chi-Square	2	17.958	0.000
Mantel-Haenszel Chi-Square	1	14.548	0.000
Phi Coefficient		0.505	
Contingency Coefficient		0.451	
Cramer's V		0.505	

Sample Size = 65

WARNING: 33% of the cells have expected counts less than 5. Chi-Square may not be a valid test.