# CASE STUDY

# Female Infertility and Chiropractic Wellness Care: A Case Study on the Autonomic Nervous System Response while Under Subluxation Based Chiropractic Care and Subsequent Fertility

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## ABSTRACT

**Objective:** This case study describes a woman, previously diagnosed with a lazy (reproductive) system, who became pregnant after commencing subluxation-based chiropractic care. **Clinical Features:** A 31 year old woman presented to have her nervous system evaluated after her husband's encouragement. They were under medical treatment for infertility as they had been attempting to become pregnant for over 12 months, and the woman had been taking Clomiphine Citrate (clomid) for 3 months. Her previous child, three years old, had been conceived naturally.

**Chiropractic Care and Outcome:** The initial chiropractic examination revealed increased aberrant autonomic and motor nervous system function detected on the thermography scans and sEMG scans, respectively. For the first three months (21 visits) of care the practice member received Diversified chiropractic adjustments followed by four months (12 visits) of Torque Release adjustments. At each visit prior to structural diversified adjustments, motion and static palpation, visual observation, Deerfield leg check and cervical syndrome test were performed to detected vertebral subluxations. The Torque Re-

**INTRODUCTION** 

The purpose of this article is to describe chiropractic wellness care, the autonomic nervous system response, and subsequent fertility in a 31 year old female struggling with infertility.

Infertility is described as failure to achieve conception by those who have not used contraception for at least one year.<sup>1</sup> About 15% of couples in the United States experience infertility.<sup>2,3</sup> It is an emotional<sup>4,5</sup> and often times a very costly endeavor for those seeking answers and cures. Generally, a variety of tests and drug therapies with many side effects are involved. It is important for the public to know there are natural, more costefficient ways to identify interference to fertility.

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lease Technique (TRT) utilizes the Intergrator<sup>TM</sup>, a torque and recoil release adjusting instrument and three phases comprised the evaluation. After one month of care the practice member chose to stop taking the clomid. By the third month of care she reported having normal menses for two months and drug-free ovulation by month four. Nine months after chiropractic wellness care, the practice member conceived and proceeded to experience a successful full term pregnancy.

**Conclusion:** After receiving wellness chiropractic care for the detection and correction of vertebral subluxations, the practice member showed marked improvement in autonomic and motor system function as demonstrated on her sEMG and thermography scans. In additon, after having great difficulty conceiving, she became pregnant nine months after commencing chiropractic care. Further studies are needed to document the relationship between infertility, autonomic nervous system function, and the response to wellness chiropractic care, including subsequent fertility.

**Key words:** *infertility, chiropractic, wellness, subluxation, practice member, Torque Release Technique, Diversified Chiropractic Technique, EMG, thermography.* 

Infertility can be caused by many factors. Problems with ovulation and hormonal balance, fallopian tube damage often caused by pelvic inflammatory disease (PID), endometriosis and low sperm count are the most frequently diagnosed conditions in the medical field. In general, infertility caused by problems in the woman's reproduction system is more often treated than infertility caused by problems with the man's reproductive system<sup>6</sup>.

Today extensive medical tests are available for couples seeking allopathic intervention for their infertility. Laparoscopy is one such procedure. It is a surgical procedure used to examine the abdominal organs and the female pelvic organs to diagnose problems such as cysts, adhesions, fibroids and infections.<sup>7</sup> Tissue samples can also be collected for biopsies.

Medication is commonly used as medical response to infertility. Clomiphine Citrate (clomid) to induce ovulation, Crinone Progesterone Vaginal gel, Lupron to prevent egg release from the ovaries and Fertinex, a purified subcutaneous injected follicle stimulating hormone (FSH) are a few prescribed drugs.<sup>8</sup> The practice member is this case was prescribed Clomiphine Citrate (clomid), often referred to as the "fertility pill." <sup>9</sup> When the ovaries do not produce and release eggs due to hormonal imbalances, clomid works by helping the pituitary gland stimulate this function.

Surgery is often the medical mode of treatment for endometriosis and repairing damaged fallopian tubes. Assisted reproduction technology such as in vitro fertilization (IVF) and intrauterine insemination (IUI) are used for a variety of infertility problems. IVF is performed when fallopian tube blockage (often after unsuccessful surgery), cervical narrowing, and low sperm counts are the cause of the infertility. IUI is most commonly used for infertility associated with endometriosis, unexplained infertility, anovulatory infertility, very mild degrees of male factor infertility and for some couples with immunological abnormalities.<sup>10</sup> Additional infertility drugs are administrated with these procedures. IVF involves follicle suppression, follicle stimulation, maturing follicles, egg retrieval, fertilization of retrieved egg and sperm specimen. If the eggs are successfully fertilized an embryo transfer will take place. For the IUI procedure the egg is not retrieved but fertilized by placing highly motile sperm in the cervix or high in the uterine cavity (intrauterine).

Studies have shown the relationship of vertebral subluxations and autonomic nervous system dysfunction.<sup>11,12,13,14</sup> Improved gynecological function has been reported while receiving chiropractic care, including with these conditions: dysmenorrhea, amenorrhea, PMS and sexual dysfunction. Women under regular chiropractic care note a more balanced system during their life cycle change of menopause. Chiropractic does not treat symptoms or conditions but allows the nervous system to function more efficiently. This is accomplished through specific chiropractic adjustments that reduce and eliminate spinal cord tension and interference. The body and mind can function in harmony promoting health, wellness, and the ability to handle the physical, emotional, and chemical stresses that challenge a couple experiencing infertility.

## **Case Report**

Personal History: A 31 year old female presented for care after her husband's encouragement; they were having difficulty conceiving and it was causing increased emotional stress. She stated her medical doctor had diagnosed her with a "lazy system" and irregular ovulation. The drug clomid was prescribed to increase ovulation. At the initial examination the practice member had been on clomid for three months. Her diet and exercise routines were subjectively rated as poor while sleep patterns and general health were rated as good (scale: poor, good, excellent). She experienced seasonal sinus headaches and allergies with increased symptoms to mold occasionally taking OTC sudafed for this condition. Other health concerns were irregular menstrual cycles and migraines. Three years prior, she had conceived naturally and has a daughter. As a child the practice member had received allergy shots and used an intermittent inhaler. She had usual childhood illnesses and was vaccinated.

*Examination and Re-Examination Findings:* The initial examination revealed a visually healthy female. All deep tendon reflexes were normal and ROMs were performed effortlessly within normal range. As she was trying to conceive no radiographs were taken. Thermographs and sEMG scans were performed on the initial visit and subsequent re-examinations.

The Thermography scan is a paraspinal skin temperature study, with standardized protocols and established normative data utilized for computer analysis and comparision, which is used to assess sympathetic nerve function. The Static EMG scan is a paraspinal study, also with standardized protocols and established normative data (25-500Hz)utilized for computer analysis and comparison, which is used to assess location and extent of abnormal paraspinal muscle function (motor system).<sup>15</sup>

The following are the thermal results:

- March 24, 2000 Initial Exam Temperature differences one or two standard deviations greater than the mean (mild asymmetry) were observed at T1, T2, T6, T9, L2, L4. Temperature differences two or three standard deviations greater than the mean (moderate asymmetry) were observed at L3. Temperature differences three or four standard deviations greater than the mean (severe asymmetry) were observed at T3, T5, T11. Temperature differences four or more standard deviations greater than the mean (very severe asymmetry) were observed at T12, L1. (See Table 1a, page 3).
- 2) May 10, 2000 First Re-exam Temperature differences one or two standard deviations greater than the mean (mild asymmetry) were observed at C5,T9. Temperature differences two or three standard deviations greater than the mean (moderate asymmetry) were observed at C6,T1. A temperature difference three or four standard deviations greater than the mean (severe asymmetry) was observed at C7. A temperature difference four or more standard deviations greater than the mean (very severe asymmetry) was observed at L5. (See Table 2a, page 4).
- 3) October13, 2000 Second Re-exam Temperature differences one or two standard deviations greater than the mean (mild asymmetry) were observed at C1, C3, C5, T8, L1, L2, S1. Temperature differences two or three standard deviations greater than the mean (moderate asymmetry) were observed at C4, T11. (See Ttable 3a, page 5).
- 4) March 9, 2001 Third Re-exam Temperature differences one or two standard deviations greater than the mean (mild asymmetry) were observed at C3,S1. Temperature difference two or three standard deviations greater than the mean (moderate asymmetry) was observed at T2. (See Table 4a, page6).

The following are the Static EMG results:

 March 24, 2000 Initial Exam - Elevations one or two standard deviations above the mean were observed at C1(R), C5(L), C7(L&R), T4(L), S1(L&R). This is indicative of a mild elevation. An elevation two or three standard deviations above the mean was observed at C1(L). This is indicative of a moderate elevation. An area of significant asymmetry was noted at the following site: C5. (See table 1b, page 7).

(Continued on Page 7)

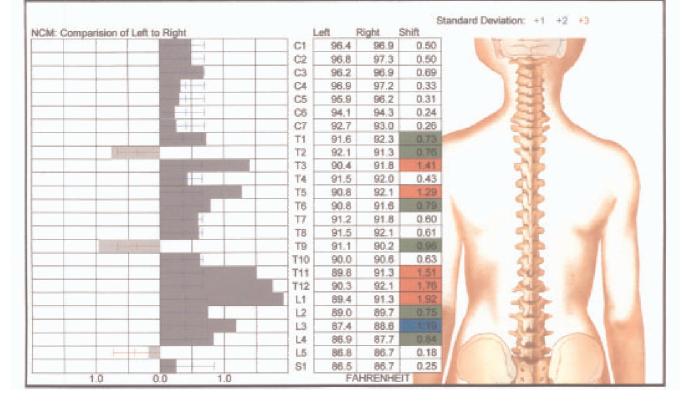
## TABLE 1A

# THERMAL: Fri Mar 24, 2000 at 12:29PM [Chart]

Asymmetry Table: degrees FAHRENHEIT

DIF	PSD	NSD	NORM	TEMP	SITE	TEMP	NORM	NSD	PSD	DIF
333				96.4	C1	96.9	0.41	0.29		0.50
>>>				96.8	C2	97.3	0.41	0.29		0.50
>>>		· · · · · · · · · · · · · · · · · · ·		96.2	C3	96.9	0.41	0.29		0.69
>>>				96.9	C4	97,2	0.41	0.29		0.33
333				95.9	C5	96.2	0.41	0.29		0.31
202				94.1	C8	94.3	0.41	0.29		0.24
>>>				92.7	C7	93.0	0.41	0.29		0.26
>>>				91.6	T1	92.3	0.36	0.31	+	0.73
0.76	+	0.31	0.36	92.1	T2	91.3	2000 C		144	<<<
>>>				90.4	T3	91.8	0.36	0.31	++++	1,43
500				91.5	T4	92.0	0.36	0.31		0.43
555				90.8	T5	92.1	0.36	0.31	+++	1.29
>>>				90.8	T6	91.6	0.36	0.31	+	0.75
>>>				91.2	17	91.8	0.36	0.31		0.60
>>>				91.5	TB	92.1	0.36	0.31		0.61
0.96		0.31	0.36	91.1	T9	90.2				-000
202				90.0	T10	90.6	0.36	0.31		0.63
>>>				89.8	T11	91.3	0.36	0.31	+++	1.51
200				90.3	T12	92.1	0.36	0.31	++++	1.76
3000				89.4	L1	91.3	0.40	0.34	++++	1.92
202				89.0	1.2	89.7	0.40	0.34	+	0.75
>>>				87.4	L3	88.6	0.40	0.34	++	1.15
335				86.9	L4	87.7	0.40	0.34	+	0.84
0.18		0.34	0.40	86.8	L5	86.7				
>>> Uematau S. I				88.5	S1	86.7	0.50	0.34		0.25

# THERMAL: Fri Mar 24, 2000 at 12:29PM [NCM]



# TABLE 2A

ymmetry 1	l'able: degrees i	FAHRENHEI	п								
DIF	PSD	NSD	NORM	TEMP	SITE	TEN	AP	NORM	NSD	PSD	DIF
0.22		0.29	0.41	93.5	C1	93	.3				-000
>>>				94.7	C2	94	.9	0.41	0.29		0.18
0.22		0.29	0.41	94.5	C3	94	.3				<<<
399				94.3	C4	94	.5	0.41	0.29		0.21
0.72		0.29	0.41	93.6	C5	92	9				<<<
1.13	++	0.29	0,41	93.0	C6	91	.9				<<<
1.47	+++	0.29	0.41	92.4	C7	91	.0				000
1.17	**	0.31	0.36	90.8	T1	89	7				<<<
>>>				89.6	72	89	7	0.36	0.31		0.08
0.62		0.31	0.36	91.1	Т3	90	1.5				000
>>>				90.1	T4	90	15	0.36	0.31		0.39
>>>				89.9	T5	90	et 👘	0.36	0.31		0.16
>>>				89.5	TB	89	(7	0.36	0.31		0.19
0.16		0.31	0.36	90.5	17	90	13				000
0.26		0.31	0.36	90.0	Τ8	89	7				<<<
0.96		0.31	0.36	89.1	T9	88	CT I				<<<
0.24		0.31	0.36	88.9	T10	88	.7				<<<
0.47		0.31	0.36	90.3	T11	89	.9				<<<
0.61		0.31	0.36	91.0	T12	90	.4				<<<
0.34		0.34	0.40	89.9	L1	89	1.5				<<<
0.70		0.34	0.40	89.1	L2	88	1.4				<<<
0.67		0.34	0.40	87.9	L3	87	.2				000
0.35		0.34	0.40	86.8	L4	86	.4				~~~
2.73	+++++	0.34	0.40	87.3	L5	84	.6				666
0.58		0.34	0.50	85.6	S1	85					000
Centatiou St. 1	Edwin DH, Jankel W	R, Kozikowski J,	Tather M. Quantificati	on of thermal	asymmetry. Part 1:	Normal value	use and repr	solucibility. J N	eurosurgery Oct. 11	988, vol 69, pgs 553	-555
ERM	AL: We	d May	10, 2000	at 12	2:25PM	[NC	M]				
M: Comp	arision of Left	to Right		Ct	Left Rig 93.5	ght <u>5</u> 93.3	S Thift 0.22	tandard D	Veviation: +	1 •2 •3	
_				C2		94.9	0.18		1 mar	-9	
-	p			C3	94.5	94.3	0.22		174	1	
				C4	94.3	94.5	0.21				
-	(Department			CS	93.6	92.9	0.72		1 South		
-				C6	93.0	91.9	1.13		195		
				C7	92.4	91.0	1.47	1.00	- 5-4	2	
		-		T1	90.8	89.7	1.17	1	The second		
	1			12	89.6	89.7	0.08		244		
	1.000			T3	91.1	90.5	0.62		AR		
-				T4	90.1	90.5	0.39		28		
		and the second second		15	89.9	90.1	0.16		24		
-				T6	89.5	89.7	0.19	1.0	510		11
	-			17	90.5	90.3	0.16		10		1 1
					100 March 100	The second second					
											1.1
				T8 T9	90.0 89.1	89.7 88.1	0.26		28	1	1

T10

T11

T12

1.1

1.2

1.3

1.4

1.5

\$1

88.9

90.3

91.0

89.9

89.1

87.9

86.8

87.3

88.7

89.9

90.4

89.5

88.4

87.2

86.4

84.6

85.6 85.1 FAHRENHEIT

0.24

0.47

0.61

0.34

0.70

0.67

0.35

2.73

0.58

### 14.16

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1.5

0.0

1.5

## TABLE 3A

from many been	able: degrees	FAHRENHE	п							
DIF	PSD	NSD	NORM	TEMP	SITE	TEMP	NORM	NSD	PSD	DIF
>>>				94.9	C1	96.7	0.41	0.29	+	0.81
0.32		0.29	0.41	95.3	C2	95.0				***
0.77	+	0.29	0.41	95.3	C3	94.5				<<<
202				94.3	C4	95.5	0.41	0.29	++	1.24
200				92.9	C5	93,9	0.41	0.29	+	0.96
0.63		0.29	0.41	93.3	C6	92.6				~~~
0.34		0.29	0.41	91.6	C7	91.3				000
0.43		0.34	0.36	90.9	T1	90.5				-<-<-
202				90.9	T2	91.4	0.36	0.31		0.48
202				92.0	T3	92.2	0.36	0.31		0.17
0.42		0.31	0.36	91.9	T4	91.5				-6-6-4
>>>		3.5et		91.7	T5	92.3	0.36	0.31		0.55
>>>				91.4	T6	91.8	0.36	0.31		0.41
>>>				91.2	17	91.8	0.36	0.31		0.64
>>>				91.3	TB	92.1	0.36	0.31	+	0.78
>>>				91.3	T9	91.8	0.36	0.31		0.48
0.18		0.31	0.36	90.5	T10	90.3				~~~
200				89.4	T11	90.5	0.36	0.31	++	1.17
>>>				90.1	T12	90.6	0.36	0.31		0.46
333				90.3	L1	91,1	0.40	0.34	+	0.75
555				89.3	L2	90.1	0.40	0.34	+	0.79
0.23		0.34	0.40	88.8	L3	88.6				<<
0.08		0.34	0.40	88.1	L4	88.0				-0-0-
0.72		0.34	0.40	88.4	L5	87.7				-000
0.72 1.08 Vemateu 8.1	+	0.34	0.40	88.4	L5 S1	87.7				

THERMAL: Fri Oct 13, 2000 at 11:56AM [NCM]

omparision of Left to Right		Left	Right	Shift				
	C1	94.9	95.7	0.81		- martin		
	C2	95.3	95.0	0.32	1 100	2400		
The second se	C3	95.3	94.5	0,77		100		
the second se	C4	94.3	95.5	1.24		14		
and the second se	C5	92.9	93.9	0.96				
I Distanting	C6	93.3	92.6	0.63		A-R	10	
	C7	91.6	91.3	0.34		244		
1	T1	90.9	90.5	0.43		Cups .		
	T2	90.9	91.4	0.48		< P		
	T3	92.0	92.2	0.17		00		
	T4	91.9	91.5	0.42		AL		
	T5	91.7	92.3	0.55		XX		
	T6	91,4	91.8	0,41		A.C		
and the second se	17	91.2	91.8	0.64		SUP		
	T8	91.3	92.1	0.78				
	T9	91.3	91.8	0.48	1	d b		
	T10	90.5	90.3	0.18	1	CB-		
	T11	89.4	90.5	1.17	A State		14.00	
	T12	90.1	90.6		1 1000	MB	1000	
	L1	90.3	91,1	0.79		ALL -		
and a second second	12	89.3	90,1	0.79		245		
	L3	88.8	88.6	0.23		A AL		
	1.4	88.1	88.0	0.08	LAN.	245/		
	L5	88.4	87.7	0.72	h h	SH 2		
10 00 10	S1	88.1	87.0 AHRENHI	1.08		1312		

# TABLE 4A

# THERMAL: Fri Mar 09, 2001 at 09:59AM [Chart]

Asymmetry Table: degrees FAHRENHEIT

DIF	PSD	NSD	NORM	TEMP	SITE	TEMP	NORM	NSD	PSD	DIF
305			CDC0_mm	95.8	C1	95.8	0.41	0.29		0.05
>>>				95.9	C2	96.0	0.41	0.29		0.05
>>>				95.5	C3	96.3	0.41	0.29	+	0.7
>>>				95.0	C4	95.6	0.41	0.29		0.5
0.12		0.29	0.41	93.8	C5	93.7				<<
0.21		0.29	0.41	93.0	C6	92.8				
0.68		0.29	0.41	92.4	C7	91.7				-00
>>>			·	90.7	T1	90.8	0.36	0.31		0.0
1,13	++	0.31	0.36	91.2	T2	90.1	5			00
200				90.7	T3	91.3	0.36	0.31		0.6
0.36		0.31	0.36	92.2	T4	91.8			·	66
>>>			in the second second	91.1	T5	91.2	0.36	0.31		0.0
>>>				91.1	Т6	91.5	0.36	0.31		0.4
>>>			· · · · · · · · · · · · · · · · · · ·	90.3	17	90.7	0.36	0.31		0.3
>>>				90.7	TB	90.8	0.36	0.31		0.1
>>>				90.8	Τ9	90.9	0.36	0.31		0.0
0.16		0.31	0.36	90.2	T10	90.0				<<
0.39		0.31	0.36	89.3	T11	88.9				-
>>>				88.9	T12	89.3	0.36	0.31		0.45
>>>				89.5	L1	90.0	0.40	0.34		0.47
>>>				88.8	L2	89.1	0.40	0.34		0.3
0.24		0.34	0.40	88.1	L3	87.9	000000			-00-
0.45		0.34	0.40	87.0	1.4	86.6				-00
0.56		0.34	0.40	86.6	1.5	86.0				-6-6-
1.03	+	0.34	0.50	85.2	S1	84.2				60

# THERMAL: Fri Mar 09, 2001 at 09:59AM [NCM]

comparision of Left to Rig	IN		and the second se		hift	in the second		
		C1	95.8	95.8	0.09	11-	-1	7
	+	C2	95.9	96.0	0.09	A SA	-	
		C3	95.5	96.3	0.76	~ 1	2 6 /	
		C4	95.0	95.6	0.57	1.2	-	
		C5	93.8	93.7	0.12			
		C6	93.0	92.8	0.21	2		
The second se		C7	92.4	91.7	0.68	6	ALC N	
	+	T1	90.7	8.00	0.09			
the second se		T2	91.2	90,1	1.13	-	10	
		T3	90.7	91.3	0.61		NB -	
		T4	92.2	91.8	0.36		A K	
	Land Land	T5	91.1	91.2	0.08		NC	
		T6	91.1	91.5	0.41			1
		17	90.3	90.7	0.36			
	+	T8	90.7	90.8	0.14			
		T9	90.8	90.9	0.03	-	1	
		T10	90.2	90.0	0.16	1	hB	
		T11	89.3	88.9	0.39	100		
		T12	88.9	89.3	0.45	1	3	
		L1	89.5	90.0	0.47		45	
		L2	88.8	89.1	0.30			
		L3	88.1	87.9	0.24			
1		L4	87.0	86.6	0.45	AI	ICA	-
		L.5	86.6	86.0	0.56	14	12	
1 House and the second		S1	85.2	84.2	1.03		A. 2.	1.1
1.0 0.0	1.0		FAH	RENHET		V.		120

### (Continued From Page 7)

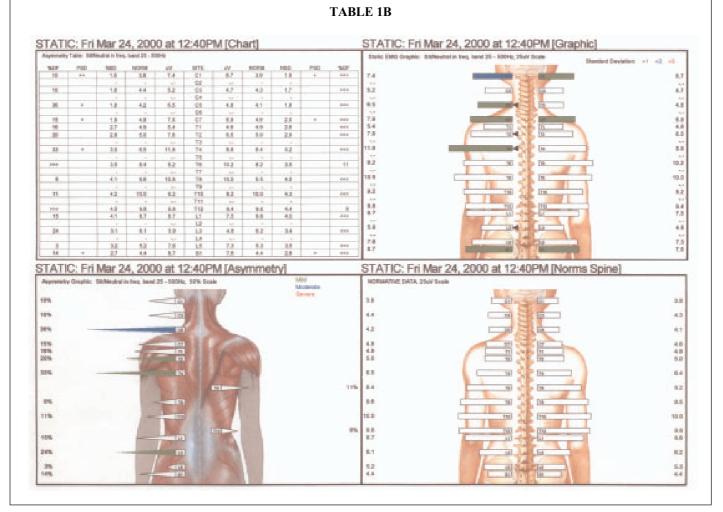
- May 10, 2000 First Re-exam An elevation one or two standard deviations above the mean was observed at C1 (L&R). This is indicative of a mild elevation. Areas of significant asymmetry were noted at the following sites: L1, L5. (See Table 2b, page 8).
- October 13, 2000 Second Re-exam Elevations one or two standard deviations above the mean were observed at C1(L), C5(L), T2(L). This is indicative of a mild elevation. Areas of significant asymmetry were noted at the following sites: C1, C7, T2, S1. (See Table 3b, page 8).
- 4) March 9, 2001 Third Re-exam Elevations one or two standard deviations above the mean were observed at C1(R), C3(L), C5(L). This is indicative of a mild elevation. An elevation two or three standard deviations above the mean was observed at C1(L). This is indicative of a moderate elevation. Areas of significant asymmetry were noted at the following sites: C3, T4, S1. (See Table 4b, page 9).

*Chiropractic Care Rendered:* For the first three months (21 visits) of care the practice member received Diversified chiropractic adjustments. Diversified technique is a segmental model; subluxations are described as alterations in specific intervertebral motion segments.<sup>16</sup> The practice member was assessed at each visit to detect the area(s) of subluxation. Motion and static palpation, visual observation, Deerfield leg check and cervical

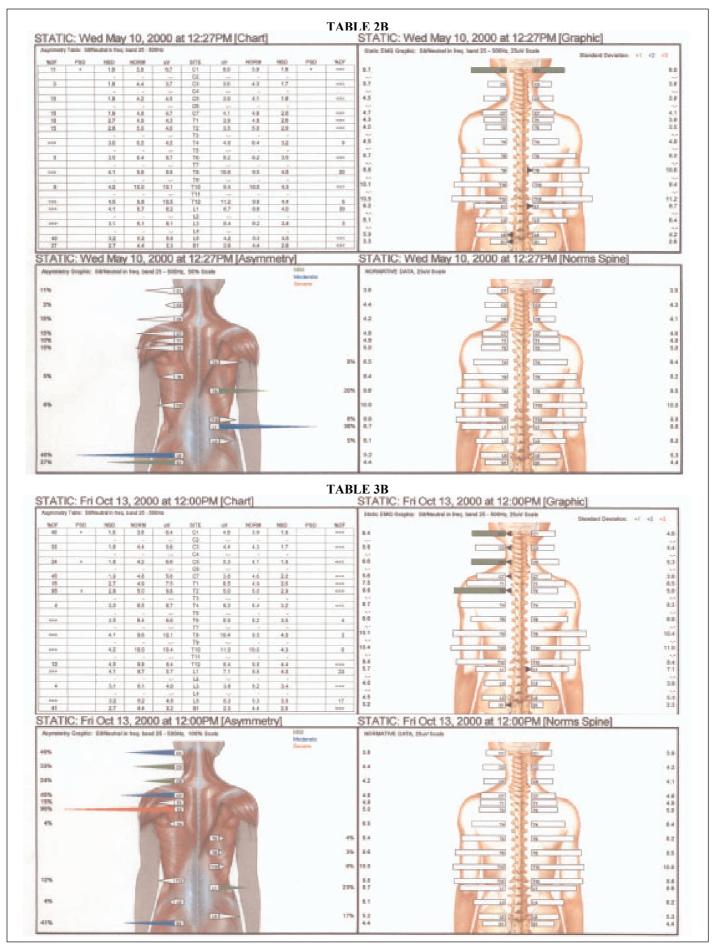
syndrome test were performed. Upon detection of the vertebral subluxation(s) location, a specific manual chiropractic thrust was given with the appropriate angle, drive and force. The practice member received care 12 times in my office between March 24–May 8, 2000. On May 10, 2000 she had a re-evaluation (see above results). May 10-June 23, 2000 the practice member had nine office visits and continued to receive diversified adjustments.

During the year 2000 and at the time the practice member was receiving care, I was in the process of changing my adjusting technique to a tonal model (Network Spinal Analysis-NSA<sup>17</sup>). Tonal models are generally based on meningeal and dural tension. As I had a segmental model practice for 14 years, I converted my practice members over during the summer and fall months. I initially incorporated the Torque Release Technique (TRT) which utilizes the Intergrator<sup>TM</sup>, a torque and recoil release adjusting instrument. TRT is a tonal model approach, which is non-mechanistic and non-linear. The practice member received Torque Release adjustments for 12 office visits from July 5-October 23, 2000. The practice member was assessed at each visit using the TRT phasing systems and observations. On October 13, 2000 a re-evaluation was performed (table 3a and 3b)and a pattern of recurrent coccyx subluxations was noted at that time.

### (Continued On Page 9)



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## (Continued From Page 7)

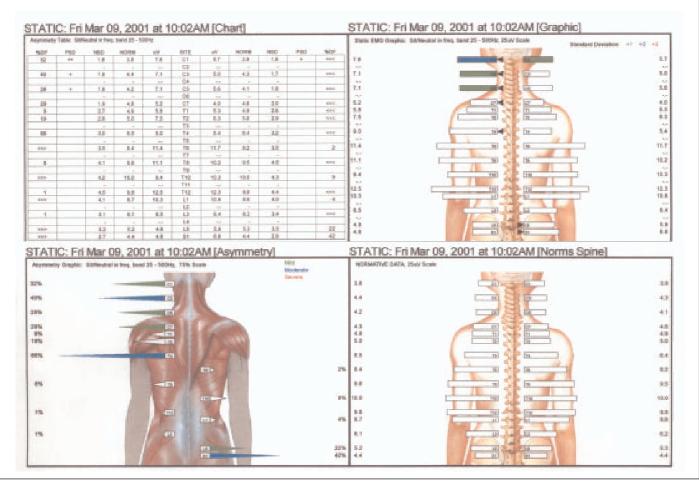
Results of Care: The practice member chose to stop taking the ovulation stimulating drug, clomid, one month into care. She was not happy taking the medication due to the side effects<sup>18</sup> and wanted to allow her body to function naturally. By the third month of care she reported her menstrual cycle had been normal for two months. On July 17, 2000, she felt she had (drug-free) ovulated on her own. Although pregnancy did not occur by September, the practice member continued to have normal cycles. Her medical doctor recommended she have a Laparoscopy due to continued infertility. Her initial reaction was not to have the procedure. Although she experienced high stress over the procedure she conceded and had it done at the end of October 2000. The results were negative. At the beginning of November the practice member had some personal commitments and was unable to continue regular care for a couple of months. At her March 9, 2001 office visit, she reported she was nine weeks pregnant. Nine months after receiving initial chiropractic care the practice member conceived naturally and then carried the baby to term without complications.

Thermograpy<sup>19</sup> and sEMG<sup>20</sup> scans are important objective tests in observing the change and improvement of the autonomic and motor systems while under subluxation based chiropractic care.

Upon evaluating the thermal and sEMG scans of this practice member we can see a definite overall improvement and continued change. Considering the presenting concern was infertility the thermal scans demonstrate interesting results, the areas of significant change have sympathetic nerve connections to the reproductive organs and adrenal glands. The readings on Figure #4a show a more balanced autonomic system. The practice member was able to conceive naturally and was nine weeks pregnant at the time of the March 9, 2001 scan.

### Discussion

Chiropractic does not treat symptoms nor claim to cure medical conditions; however, this study demonstrates the impact of improved autonomic nervous system function while under care. Prior to subluxated based chiropractic care the practice member's menstrual and ovulation cycles were irregular. She was trying to conceive for over one year, was experiencing infertility, and medical treatment had been unsuccessful. After the application of chiropractic care, she experienced normal menses and was able to ovulate without the use of drugs within three months of regular care. The practice member received segmental diversified chiropractic adjustment for the first three months followed by four months of tonal adjusting utilizing the Torque Release Technique. Thermal and sEMG scans were performed at the initial examination and three reevaluations. As the thermal scans showed decreased overall asymmetry, indicating improved sympathetic nerve function, the practice member's previously diagnosed "lazy (reproductive) system" returned to normal func-



**TABLE 4A** 

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tion. Natural conception occurred nine months after onset of wellness chiropractic care.

In addition, reports and case studies regarding gynecological conditions and chiropractic were found. Dr. J.E. Browning<sup>12,13</sup> wrote about the positive effects of chiropractic on pelvic disorders, including gynecologic and sexual dysfunction. A case study by McNabb<sup>21</sup>, documents the restoration of female fertility after receiving chiropractic care.

The practice member continued chiropractic care throughout her pregnancy. Her labor (six hours) and delivery were uncomplicated.

## Conclusion

Increased function of the autonomic nervous system as a result of chiropractic care appears to benefit normalization of the menstrual cycle, in this case regular ovualtion occurred and subsequent pregnancy. Infertility effects 15% of the United States population, and current medical care involves significant expense and potentially severe side effects. As a matter of Public Health, natural approaches which promote health and wellness, and their subsequent results, warrant study on their benefits, safety, and cost-effectiveness. This article serves as a foundation in consideration of chiropractic as an integral part of further formal research.

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