The Magnetic Characteristics of Intuition
Shelley Higgins, MA

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Abstract

An earlier study, "The Effect of Magnetically Shielding a Dowser," suggested that at least two zones on the surface of the upper body play a role in dowsing and that magnetic shielding can inhibit the intuitive processes associated with dowsing. This paper, based on further trials, continues the exploration of these zones and their relationship with intuitive processes. In addition, it examines the effects of shielding material, size, and composition, meditative techniques (chanting and breathing techniques), and the proximity of other experimenters. Finally, it investigates the relationship between ease of performing the intuitive tasks, determined subjectively, with the accuracy of the results obtained.

Les Caractéristiques Magnétiques de l'Intuition
Shelley Higgins, MA

Résumé

Une étude faite plus tôt et intitulée « les effets d'isoler magnétiquement un radiesthésiste » a démontrée qu'il y a au moins deux zones à la surface du haut du corps qui jouent un rôle dans la radiesthésie et que l'isolation magnétique peut inhiber le processus intuitif associé à la radiesthésie. Cet article, basé sur des découvertes plus récentes, explore plus en profondeur ces zones et leur relation avec les processus intuitifs. De plus, il examine les effets de la grosseur et la composition des matériaux d'isolation, des techniques de méditation (les techniques de chant et de respiration), et la proximité des autres expérimentateurs. Finalement, il établit une corrélation entre la facilité à accomplir des tâches intuitives, déterminée de façon subjective, avec la précision des résultats obtenus.

Las Características Mágicas de la Intuición
Shelley Higgins, MA

Resumen

En un estudio reciente, "El efecto de magnetizar a un médium," demostraron que al menos dos zonas en la superficie de la parte superior del cuerpo humano juegan un papel importante en la adivinación y las capas magnéticas pueden inhibir los procesos intuitivos asociados con la adivinación. Este documento, basado en descubrimientos más recientes, explora un poco más estas zonas y su relación con el proceso intuitivo. En adición, examina los efectos del material que se utiliza de escudo, en tamaño y composición, técnicas de meditación (canticos y técnicas de respiración), y la proximidad de otros experimentadores. Finalmente, correlaciona la facilidad de llevar a cabo tareas intuitivas, determinando subjetivamente con la precisión de los resultados obtenidos.

As Características Magnéticas da Intuição
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Abstrato

Um estudo anterior, "O Efeito de Blindar Magneticamente um Radiestesista," demonstrou que pelo menos duas regiões na superfície da parte superior do corpo desempenham um papel em radiestesia e que a blindagem magnética pode inibir os processos intuitivos associados a radiestesia. Esse trabalho, baseado em descobertas mais recentes, explora ainda mais essas regiões do corpo e sua relação com processos

intuitivos. Além do mais, o trabalho examina os efeitos de blindar composição material, técnicas de meditação (canto e técnicas de respiração), e a proximidade de outros experimentadores. Finalmente, correlaciona a facilidade de desempenhar tarefas intuitivas, determinadas subjetivamente, com a precisão dos resultados obtidos.

Die magnetischen Charakteristiken der Intuition
Shelley Higgins, MA

Zusammenfassung

Eine fruehere Untersuchung, "Die Wirkung magnetischer Abschirmung auf den Wueschelrutengaenger" zeigte, dass wenigsten zwei Zonen auf der Oberflaeche des Oberkoerpers beim Wuenschelrutengang eine Rolle spielen, und dass magnetische Abschirmung die intuitiven, mit dem Wuenschelrutengang verbundenen Prozesse verhindern kann. Auf Grund neuerer Ermittlungen untersucht die vorliegende Schrift weiterhin diese Zonen und deren Verbindung mit den intuitiven Vorgaengen. Weiterhin untersucht sie die Wirkung mit Bezug auf Groesse und Zusammensetzung der Abschirmungsmaterialien, meditativen Methoden (Cantus und Atmungsmethoden), und die Naehe von anderen Experimentirern. Letztlich untersucht sie den Zusammenhang zwischen der relativen Leichtigkeit der intuitiven Aufgaben—subjektiv gemessen—mit Genauigkeit der Resultate.

The Magnetic Characteristics of Intuition
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Introduction

This paper summarizes and discusses the results of qualitative trials conducted at the Imagine AMORC 2007 conference as part of a Rosicrucian Research Branch study. The trials took place on Monday February 19, 2007 in Calgary, Alberta, Canada. The intent was to explore the effects of using small magnetic shields on two specific areas of participants' bodies while they engaged in two kinds of intuitive tasks: guessing (or dowsing) numeric information and sending healing thoughts to a remote person. The two areas examined were identified in an earlier study, "The Effect of Magnetically Shielding a Dowser," which demonstrated that at least two zones on the surface of the body play a role in dowsing and that magnetism is involved in the intuitive processes associated with dowsing. Dowsing is an information-gathering technique that can be considered a form of intuition. This study does not discuss the results associated with the sending of healing thoughts—those results will be discussed in a follow—on discussion.

In several respects, the Calgary trials *differed* from the prior study:

- There were more participants, thirty instead of two.
- They used two magnetic foil materials, MuMetal® and Co-Netic AA®, instead of just MuMetal®.
- They used smaller magnetic shields 0.64 centimeters (1/4 inch) wide, with lengths of 2.54 centimeters (1.0 inch) and 1.3 centimeters (1/2 inch) instead of the larger 20.3 x 10.2 centimeters (8 x 4 inches) to 30.5 x 10.2 centimeters (12 x 4 inches) shields used previously.
- Participants exercised more than one intuitive task: guessing (or dowsing) *and* healing thoughts; previously only dowsing was used.
- A large communal group conducted the trial tasks at the same time and place whereas previously few participants worked separately one at a time.
- The Calgary trials included meditative techniques of chanting and breathing to determine whether they mitigated the shielding effect, whereas the prior study did not include any mitigating techniques.

In other respects, the Calgary trials were *similar* to the prior study:

- Participants used the same subjective measure rating scheme to rate their levels of difficulty in performing the tasks.
- Both studies examined how a magnetic shield may affect participants' performance while carrying out an intuitive task.

- Both studies considered the possible existence of two dowser "sensor" zones, the dorsal neck and crown.
- In both studies, MuMetal® foil was used as a shielding material.
- The test subject data to be guessed or dowsed in both trials used vital statistics numeric data (systolic blood pressure (SBP), diastolic blood pressure (DBP), and heart rate (HR).

Hypotheses

Several hypotheses were examined in this study:

A. Intuitive tasks (such as guessing/dowsing) are inhibited by thin 0.01 centimeter (0.004 inch), small (1.27-2.54 centimeters [1/2 inch - 1 inch] long) magnetic shield foil strips placed anywhere in the dorsal neck—upper back region (zone 1) and the crown region (zone 2). This hypothesis further explores the results of a prior study (Higgins 2007).

B. The effect of the magnetic shield changes with the size of the shield and is greater with larger shields. For this study, this means that the ease of performing the intuitive tasks and accuracy of the results obtained would be lower with larger shields.

C. The effect of the magnetic shield on ease of intuitive task performance and accuracy of results varies with the magnetic shield material, in the present case, MuMetal® vs. Co-Netic AA® shields.

D. Meditative relaxation techniques using chanting or certain breathing techniques make it subjectively judged to be easier to perform intuitive tasks including guessing/dowsing, both for the unshielded case and for the case in which zone 1 or 2 is magnetically shielded.

E. Meditative relaxation techniques using chanting or breathing techniques improve the accuracy of the results of intuitive tasks such as guessing/dowsing, for both the unshielded and the shielded cases.

F. The accuracy of the guess-dowsing results is higher when participants experience greater ease in performing the task.

G. The results are the same regardless of whether the tasks are performed together with others in a large group or individually and alone.

Methodology

Two main experiments were conducted:

- Experiment 1a: "How Magnetic Shielding Affects Intuitive Tasks (Large Group)." This experiment addressed hypotheses A through G. Participants entered their results in the sheet provided (see Table 3) where each row in the table represented the vital signs of anonymous test subjects at a specific moment. Participants had to guess (or dowse) three numbers associated with that test subject's systolic blood pressure (SBP), diastolic blood pressure (DBP), and heart rate (HR). Using a rating scale described in Table 2, they also rated how easy each task was to perform. The thirty participants conducted the experiment simultaneously in a group setting, and twelve had some experience with dowsing and were able to conduct simple dowsing tasks. For these trials, participants conducted nineteen tests for guessing/dowsing (see the line items in Table 10 and Table 12).

- Experiment 1b: "How Magnetic Shielding Affects Intuitive Tasks (Small Group)." As in Experiment 1a, this experiment addressed hypotheses a through g and used similar procedures. However, it involved only four participants, who conducted the tests individually, away from other participants and at different locations and times. These participants conducted fewer trials than for Experiment 1a: eight guessing/dowsing tests (see the line items in Table 13 and Table 14).

Shielding

Two types of magnetic shield alloy foils were used, with thickness 0.01 centimeter (0.004 inch), MuMetal® and Co-Netic AA®. MuMetal® is 5% copper, 2% chromium, 77% nickel, and 16% iron. Co-Netic AA® is 80% nickel and

20% iron. The shields were glued to 1.27 x 91.4 centimeters (1/2 x 36 inches) polyester ribbons or polyester-cotton bias tapes. At the center of each ribbon or tape a 0.64 centimeter (1/4 inch) wide magnetic shield alloy foil was glued as shown in Figure 1. A 1.27 centimeters (1/2 inch) wide 5.08 centimeters (2 inches) flat wooden craft stick was then glued over each foil. This served to hide the foil and also marked the center of the ribbon for ease of placement during the trials. A ribbon color scheme (see Table 1), unknown to the participants and to the facilitator, shows the various shielding foils and dimensions used, with the yellow ribbon corresponding to one of the control cases (no shielding).

Table 1 Ribbon Magnetic Shielding

Ribbon	MuMetal® Foil (0.01 centimeter (.004 inch) thick)	Co-Netic AA® Foil (0.01 centimeter (.004 inch) thick)
Dark Blue	2.54 centimeters (1 inch) long x 0.64 centimeter (1/4 inch) wide	---
Red	1.27 centimeters (1/2 inch) long x 0.64 centimeter (1/4 inch) wide	---
Light Blue	---	2.54 centimeters (1 inch) long x 0.64 centimeter (1/4 inch) wide
White	---	1.27 centimeters (1/2 inch) long x 0.64 centimeter (1/4 inch) wide
Yellow	None	None

Figure 1 [Experiment 1a and 1b] Preparing the Ribbons

Self-Ratings Scale Used by Participants

Participants used the ratings 0 through 3, as shown in Table 2, to express the ease of performing their task of guessing, dowsing, or healing.

Table 2 Ease of Performance Ratings

Rating	Effect on the Task (Guessing, Dowsing, Healing)
0	Completely stops the task
1	Slows or makes the task difficult
2	No effect on the task
3	Makes the task easier to perform

Participants entered their results (the vital signs guessed or dowsed, the ease of performing the guessing/dowsing) in the respective data sheets.

Experiment 1a Methods: How Magnetic Shielding Affects Intuitive Tasks (Large Group) – Self-Rating Task Performance and Accuracy

Each participant received written instructions, a small Ziploc® bag containing five different colored ribbons, a small copper dowsing rod, a white label with the different kit code numbers, a results sheet to record results, and a pen. The facilitator, who was unaware of the ribbon color scheme, helped guide the participants.

Each participant entered his or her kit code on the results sheet. The code included a "D" suffix for participants who planned to use dowsing during the experiment. Participants were asked to record the local meteorological conditions in addition to the date, the time, and their respective locations. This is because it has been hypothesized (Oschman[1]) that intuitive abilities including one's ability to hands-on heal are inhibited when thunderstorms disrupt the Schumann resonance of the Earth. Appendix B shows an example of a results sheet.

The control case – no ribbons

1. For the first test, without using any ribbon, each participant was asked, for row DAA, to individually guess (or dowse using the provided dowsing rod or any other tool) the three vital sign numbers (of the anonymous test subjects) associated with row DAA and enter the results in row DAA in columns (1), (2), and (3) where column (1) was for SBP, (2) for DBP, and (3) for HR (see Table 3 and Appendix A). The results sheet showed typical ranges for these vital signs. In column (5) participants rated how easy the guessing task was to perform. Each participant was then directed to think of someone whom he or she knew, and for one minute quietly send healing thoughts to them, and rate the ease of sending the healing thoughts in column (4).

The dark blue ribbon

2. (Neck). Participants then draped the dark blue ribbon around their necks with the center of the ribbon (marked with a wooden craft stick) at the center rear base of their neck resting on the skin or clothes and repeated step one for the second row, DAB.
3. (Crown) Participants repeated step one for the third row DAC, but this time they draped the dark blue ribbon over the crowns of their heads and lightly tied them under their chins with the center of the ribbon (wooden craft stick) resting at the top of their head in line with the uppermost tips of their ears.

The red, light blue, yellow, and white ribbons

4. Steps two and three were repeated for the red, light blue, yellow, and white ribbons, for both the neck and crown. Results were entered in rows DAD, DAE, DAF, DAG, DAH, DAI, DAJ, and DAK respectively.

Table 3 [Experiment 1a] Results Sheet: Guessing/Dowsing Vital Signs and Healing (Baseline)

			(1)	(2)	(3)	(4) How Easy is it to do the Healing Task?	(5) How Easy is it to do the Guessing/Dowsing Task?
Ribbon Color	**Zone**	**Code**	**BP - Systolic [90-150]**	**BP Diastolic [50-110]**	**Heart Rate [50-120]**	**0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task**	**0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task**
N/A		DAA					
Dark Blue	Neck	DAB					
	Crown	DAC					
Red	Neck	DAD					
	Crown	DAE					
Light Blue	Neck	DAF					
	Crown	DAG					
Yellow	Neck	DAH					
	Crown	DAI					
White	Neck	DAJ					
	Crown	DAK					

After meditative chanting

5. After five minutes, participants repeated step one and entered results for row EAA (see Table 4). They then spent three minutes performing meditative chanting, after which they repeated step two for the red ribbon draping it around the neck and entered results in row EAB. Similarly for the yellow and white ribbon in rows EAC and EAD. Due to time constraints, only the neck was shielded for this trial.

Table 4 [Experiment 1a] Results Sheet: Guessing/Dowsing Vital Signs and Healing After Chanting

			(1)	(2)	(3)	(4) How Easy is it to do the Healing Task?	(5) How Easy is it to do the Guessing/Dowsing Task?
Ribbon Color	**Zone**	**Code**	**BP - Systolic [90-150]**	**BP Diastolic [50-110]**	**Heart Rate [50-120]**	**0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task**	**0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task**
N/A		EAA					
Red	Neck	EAB					
Yellow	Neck	EAC					
White	Neck	EAD					

After meditative breathing techniques

6. After another five minute break, participants repeated step one and entered results for row HAA (see Table 5). They then spent three minutes performing meditative breathing techniques, after which they repeated step two for the red ribbon draping it round the neck and entered results in row HAB. Similarly for the yellow and white ribbon in rows HAC and HAD. Due to time constraints, only the neck was shielded for this trial.

Table 5 [Experiment 1a] Results Sheet: Guessing/Dowsing Vital Signs and Healing After Breath Techniques

			(1)	(2)	(3)	(4) How Easy is it to do the Healing Task?	(5) How Easy is it to do the Guessing/Dowsing Task?
Ribbon Color	**Zone**	**Code**	**BP - Systolic [90-150]**	**BP Diastolic [50-110]**	**Heart Rate [50-120]**	**0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task**	**0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task**
N/A		HAA					
Red	Neck	HAB					
Yellow	Neck	HAC					
White	Neck	HAD					

Experiment 1a: Anonymous test subjects

For the guessing/dowsing component of the Experiment 1a trial participants attempted to guess (or information dowse) actual vital sign numeric information (the SBP, DBP, and HR) of three anonymous test subjects. This design is similar to the prior study. A list of codes that matched the codes used for the Calgary trials shown in Table 3, Table 4, and Table 5 were sent to the anonymous test subjects a week before the Calgary trials began. The test subjects situated at the *same location* in Northern California measured and recorded their vital signs against codes in random order and recorded the day and time the measurements were taken (see Table 6).

Table 6 [Experiment 1a] Test Subjects' Measured Vital Signs

Code	Measured BP - Systolic	Measured BP - Diastolic	Measured Heart Rate	Date / Time
DAA	127	82	50	3/01/07 12:02h
DAB	138	71	60	3/01/07 19:35h
DAC	111	71	65	3/14/07 21:47h
DAD	125	66	75	3/01/07 19:42h

Code	Measured BP - Systolic	Measured BP - Diastolic	Measured Heart Rate	Date / Time
DAE	120	73	60	3/02/07 17:05h
DAF	113	73	63	3/15/07 10:26h
DAG	123	60	84	3/02/07 20:31h
DAH	132	67	59	3/03/07 10:10h
DAI	130	75	50	3/04/07 10:51h
DAJ	118	63	76	3/04/07 18:58h
DAK	123	80	75	3/04/07 19:02h
EAA	137	88	82	3/01/07 14:00h
EAB	131	78	81	3/02/07 14:20h
EAC	135	77	75	3/03/07 16:00h
EAD	139	84	81	3/04/07 16:00h
HAA	120	72	76	3/01/07 14:00h
HAB	130	79	71	3/02/07 14:20h
HAC	130	80	76	3/03/07 1600h
HAD	118	77	82	3/04/07 16:00h

Experiment 1b Methods: How Magnetic Shielding Affects Intuitive Tasks (Small Group)—Self-Rating Task Performance and Accuracy

There were four participants in Experiment 1b. As in Experiment 1a, the participants received written instructions (in this case they received them by mail), a small Ziploc® bag containing the five different colored ribbons, a small copper dowsing rod, a white label with the different kit code numbers, a results sheet to record results, and a pen. Each participant entered his or her kit code on the results sheet—including the "D" suffix for participants who planned to use dowsing during the experiment. Participants were asked to record the local meteorological conditions in addition to the date, the time, and their respective locations. Appendix B provides an example of an actual Experiment 1b results sheet.

The control case – no ribbons

1. On the results sheet (Table 7), at the top of the columns marked (1) BP-SYSTOLIC, (2) BP-DIASTOLIC, and (3) HEART RATE (HR) are typical ranges used. For row GAA participants did the following:

    a. Guess/dowse**:** Dowsed, using the provided dowsing rod or any other tool of choice, the three vital sign numbers associated with that row GAA. They then entered the results in Table 7 on row GAA in the space provided for columns (1), (2), and (3). Then in column (4) they recorded (as the case in Experiment 1a) the ease or difficulty of the guessing/dowsing task using ratings 0, 1, 2, or 2 where the task rated as: 0 = was not possible and was completely stopped; 1 = was slowed or made difficult; 2 = experienced no effect; 3 = felt enhanced or made easier. If they did not know they entered "2."
    b. Healing**:** Participants were told to close their eyes for a moment and focus on someone dear to them (person, animal, or plant) that needed healing in any way, to imagine them clearly—completely healed, happy, and whole (15 seconds). Then in column (5), they recorded the ease or difficulty of the healing task, as in step a above.

Using the dark blue ribbon

2. After a few minutes, participants draped the dark blue ribbon around their necks with the center (marked with a wooden craft stick) at the center base (back) of the neck and resting on the skin (while pulling gently downward on each end of the ribbon to straighten the ribbon.) The ribbon could lie over clothes or directly on skin at the back of the neck. For the second row GAB, participants did the following:
    a. Guess/Dowse: Participants repeated Step 1a for columns (1), (2), and (3), guessing the vital signs associated with that row. In column (4) of row GAB, they recorded the ease or difficulty of the guessing/dowsing task, using the ratings 0, 1, 2, or 3.
    b. Healing: They repeated step 1b, recording in column (5) of row GAB the ease or difficulty of the healing task.

Using the red ribbon

3. After a few minutes, participants repeated step two using the red ribbon and recorded the results in row GAE.

Using the yellow ribbon

4. Participants repeated step three using the yellow ribbon, recording the results in row GAH.

After meditative chanting techniques

5. As in Experiment 1a, after a five minute break, participants repeated step one and entered results in row JHAA (see Table 8). They then spent three minutes performing meditative chanting techniques, after which they repeated step two for the red ribbon draped around the neck and entered their results in row JHAB. Similarly for the yellow and white ribbon in rows JHAC and JHAD. Due to time constraints, no crown shielding tests were conducted, no breathing techniques were used, and only the neck was shielded for these trials.

Table 7 [Experiment 1b]: Results Sheet: Guessing/Dowsing Vital Signs and Healing

				(1)	(2)	(3)	(4) How Easy is it to do the Guessing/Dowsing Task?	(5) How Easy is it to do the Healing Task?
	Ribbon	Zone	Code	BP - Systolic [80-160]	BP - Diastolic [50-110]	Heart Rate [50-120]	0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task	0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task
1			GAA					
2	**Dk. Blue**	Neck	GAB					
3	**Red**	Neck	GAE					
4	**Yellow**	Neck	GAH					

Table 8 [Experiment 1b]: Results Sheet: Guessing/Dowsing Vital Signs and Healing After Chanting

				(1)	(2)	(3)	(4) How Easy is it to do the Guessing/Dowsing Task?	(5) How Easy is it to do the Healing Task?
	Ribbon	Zone	Code	BP - Systolic [80-160]	BP Diastolic [50-110]	Heart Rate [50-120]	0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task	0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task
1			JHAA					
2	**Dk. Blue**	Neck	JHAB					
3	**Red**	Neck	JHAC					
4	**Yellow**	Neck	JHAD					

Experiment 1b: Anonymous test subjects

For the Experiment 1b guessing/dowsing component the participants attempted to guess (or dowse) actual vital sign numeric information (the SBP, DBP, and HR) of two anonymous test subjects. A list of codes that matched the codes used for the Experiment 1b small group individual trials shown in Table 7 and Table 8 were sent to the anonymous test subjects a week before their trials were due to begin. The test subjects measured and recorded their vital signs against codes in random order and recorded the day and time the measurements were taken (see Table 9).

Table 9 [Experiment 1b] Test Subjects' Measured Vital Signs

Code	Measured BP - Systolic	Measured BP - Diastolic	Measured Heart Rate	Date / Time
GAA	121	72	61	6/28/07 09:40h
GAB	129	78	69	6/28/07 20:40h
GAE	117	68	62	6/29/07 10:00h
GAH	116	71	70	6/29/07 10:11h
JHAA	122	81	68	6/30/07 12:00h
JHAB	123	77	60	7/01/07 12:56h
JHAC	128	66	74	7/02/07 09:08h
JHAD	118	74	73	7/02/07 09:35h

Results

In Appendix A, Table 19 through Table 22 present the summary results of Experiment1a (large group) and 1b (small group) trials while Table 23 through Table 28 present detailed results for Experiment 1a.

Experiment 1a Results

Ease of Performance Ratings

Table 10 *column XA** lists the expected results for the self-rated ease of performance values where results less than 2.00 indicate that the task was more difficult while results greater than 2.00 indicate the task felt easier.
The letters noted in each row of column XA* refer to equivalent columns in Table 19. Row 4 in Table 19 lists the expected ratings for each column, for example:

- <2 implies that the expected self-rating result is less than 2.00 (more difficult) than a 2.00 rating
- >E implies that the expected self-rating results are higher (easier) than the result in column (row) E.

Table 10 Experiment 1a: Results Summary – Shielding Effects on Ease of Performing Tasks (Guessing/Dowsing)

		XA*	XB*			XC*	
		Expected Results -- These lettered rows correspond to *COLUMNS* in Table 19.	**Av. Self-Ratings**	**Std Dev**	**Std Err**	**Expected Results XA* Met?**	**Hypotheses Tested**
1	No shield	C = 2	2.00	0.00	N/A	N/A	N/A
2	MuMetal® 2.54 cm.(1 in.) (Neck)	D(<2): Magnetic shield will render tasks more difficult	1.98	0.95	0.20	Y	A
3	MuMetal® 2.54 cm.(1 in.) (Crown)	E (<2): Magnetic shield will render tasks more difficult	1.91	0.95	0.20	Y	A
4	MuMetal® 1.27 cm. (1/2 in.) (Neck)	F (<2, >D): More difficult than no shield; smaller shield used will render task easier than the 2.54 centimeter (1 inch) shield	2.04	0.98	0.20	N, Y	A, B
5	MuMetal® 1.27 cm. (1/2 in.) (Crown)	G (>E): Smaller shield in crown zone will render task easier than 2.54 centimeter (1 inch) shield	1.87	1.01	0.21	Y	A, B
6	No shield (After chanting)	H (>=2, >=C, >F, >G): With no shield, after chanting task is same or easier than for beginning with no shield and no chanting (Column C), and easier than tasks with shields	2.39	0.58	0.12	Y, Y, Y, Y	D
7	MuMetal® 1.27 cm. (1/2 in.) (Neck) – after chanting	I (>F, <H): After chanting with a neck shield the task is easier than before chanting; task more difficult compared to after chanting without shield .	2.52	0.51	0.11	Y, N	D
8	No shield (After breath techniques)	J (>=2, >=C, >F, >G): Similar to Column H but for breath techniques.	2.30	0.56	0.12	Y, Y, Y, Y	D
9	MuMetal® 1.27 cm. (1/2 in.) (Neck) – after breath techniques	K (>F, <J): After breath techniques shield at neck renders task easier than before breath technique; task more difficult compared to after chanting with no shield .	2.35	0.78	0.16	Y, N	D
10	Co-Netic AA® 2.54 cm. (1 in.) (Neck)	L (<2): Co-Netic AA magnetic shield will render tasks more difficult.	2.22	0.80	0.17	N	A
11	Co-Netic AA® 2.54 cm. (1 in.) (Crown)	M (<2): Co-Netic AA magnetic shield will render tasks more difficult.	2.35	0.78	0.16	N	A
12	Co-Netic AA® 1.27 cm. (1/2 in.) (Neck)	N (<2, >L): Smaller shield in neck zone renders task easier than the 2.54 centimeter (1 inch) shield.	1.91	0.92	0.20	Y, N	A, B
13	Co-Netic AA® 1.27 cm. (1/2 in.) (Crown)	O (<2, >M): Smaller shield in the crown zone renders task easier than 2.54 centimeter (1 inch) shield.	2.14	0.83	0.18	N, N	A, B
14	Co-Netic AA® 1.27 cm. (1/2 in.) (Neck) – after chanting	P (>N, <H): After chanting shield at neck renders task easier than before chanting (Column N); task more difficult compared to after chanting with no shield	2.32	0.78	0.17	Y, Y	D

		XA*	XB*			XC*	
		Expected Results -- These lettered rows correspond to *COLUMNS* in Table 19.	**Av. Self-Ratings**	**Std Dev**	**Std Err**	**Expected Results XA* Met?**	**Hypotheses Tested**
15	Co-Netic AA® 1.27 cm. (1/2 in.) (Neck) – after breath techniques	Q (>N, <J): After breath techniques shield at neck renders task easier than before breath techniques (Column N); task more difficult compared to after chanting with no shield.	2.61	0.50	0.10	Y, N	D
16	No shield (Neck)	R (>=2): Control (yellow) ribbons-ratings will be close to Column C (2.00) or higher but not lower.	2.26	0.75	0.16	Y	Control
17	No shield (Crown)	S (>=2): Control (yellow) ribbons-ratings will be close to Column C (2.00) or higher but not lower.	2.17	0.77	0.16	Y	Control
18	No shield (Neck) after chanting	T (>=2, >R): Control (yellow) ribbons. Expected ratings to be close Column C (2.00) or higher but not lower and chanting techniques make tasks easier (higher rating) than before chanting techniques.	2.09	0.73	0.15	Y, Y	Control
19	No shield (Neck) after breath techniques	U (>=2, >R): T (>=2, >R): Control (yellow) ribbons. Expected ratings to be close Column C (2.00) or higher but not lower and breath techniques make tasks easier (higher rating) than before breath techniques.	2.26	0.86	0.18	Y, Y	Control

Notes

- XB* Average Self Ratings for guessing/dowsing, where < 2 = task is made harder, >2 task is easier
- XC* Met Expectations = rule(s) for determining resulting metric

MuMetal® Shield Results

When MuMetal® shields were used fifteen out of the eighteen expectations were met as indicated by the Ys (Yes) in Table 10. Hypothesis A is supported by the averaged ratings being less than 2.00 (rows 2, 3, 4, and 5, column XB*). This outcome was modified when meditative techniques of chanting and breathing were used.

The following expectations were not completely met when using the MuMetal® shield:

- Hypothesis B is not supported (see rows 4 and 5 column XB*). For both neck and crown shields, the guessing/dowsing tasks were more difficult with the smaller 1.27 centimeters (1/2 inch) shields than with the larger 2.54 centimeters (1 inch) shields, as indicated by the self-rating results. For rows 2, 3, and 5, when the *crown* was shielded by either 2.54 centimeters (1 inch) or 1.27 centimeters (1/2 inch) MuMetal®, the guessing/dowsing tasks were overall rated more difficult than when the *neck* was shielded.
- Hypothesis D was supported for the chanting technique (see rows 6 and 7, column XB*). The expectation was that the task conducted after chanting when using a shield would be higher (easier) compared to before chanting with or without a shield. The self-ratings were all higher after chanting was performed. While using a neck shield the task is easier after chanting compared to performing it before chanting (row 4).
- Hypothesis D was mostly supported for the breathing technique (row 8 and 9, column XB*). The expectation was that the task conducted after the breath technique with or without a shield would be higher (easier) compared to before using the breath. While using a neck shield after conducting the breath technique (row 9) the task is easier than before conducting the breath technique without the shield (row 9) which was not expected for the averaged self-rated results.

Co-Netic AA® Shield Results

For Co-Netic AA® shields, in support of hypothesis D the percentage of participants who stated that the guess/dowsing was easier after chanting and breathing techniques was 60% and 49% respectively. Ten out of the nineteen expectations were met as indicated by the Ys (yes) in rows 10 through 15.
The following expectations were not met:

- Hypothesis A for Co-Netic AA® results was not fully supported. For the 2.54 centimeters (1 inch) and 1.27 centimeters (1/2 inch) magnetic shields at both the neck and crown made guessing/dowsing tasks easier and not more difficult for three out of the four scenarios, as indicated by the averaged ratings being more than 2.00 (see rows 10, 11, and 13 for column XB*); the exception was the 1.27 centimeters (1/2 inch) shield at the neck zone (row 12), where the averaged self-rated tasks were more difficult (less than 2.00). Note that for MuMetal®, the averaged task was rated more difficult when the *crown* region was shielded.

- Hypothesis B was not fully supported (see rows 12 and 13, column XB*). Contrary to expectation and hypothesis B, the self-ratings were smaller, corresponding to a greater difficulty for the guessing/dowsing

tasks, for the 1.27 centimeters (1/2 inch) shield compared to the 2.54 centimeters (1 inch) neck shield (row 12). For the *crown* shield (row 13) when using the smaller 1.27 centimeters (1/2 inch) shield self-ratings were larger (easier) than for the larger 2.54 centimeters (1 inch) crown shield. For MuMetal® this was opposite, the 1.27 centimeters (1/2 inch) *crown* shield self-ratings (row 5) were lower (more difficult) than for the 2.54 centimeters (1 inch) shield.

- Hypothesis E is not supported for Co-Netic AA® (see rows 15 and 8, column XB*). The expectation was that the task conducted after the breathing technique *with* a shield would be lower (more difficult) compared to after performing the breathing technique with no shield (Column J in Table 19); but the ratings were all higher (easier) not more difficult. The expectation was supported that when the neck is shielded the task is easier *after* using the breathing technique compared to *beforehand* (row 8).

Accuracy Results

The averaged standard errors between the guessed (or dowsed) and measured vital signs were: +/- 3.2 (for SBP), +/- 3.3 (for DBP), and +/- 2.9 (for HR). Table 11 lists the probability of each participant guessing/dowsing one correct vital sign value.

Table 11 Probability of Guessing/Dowsing One Value Correctly

Vital Sign	Trials	Range Used	Probability Guessed/Dowsed Value = Measured Value
BP – Systolic	19	90-150 = 60	1/60=0.0167
BP -- Diastolic	19	50 –110 = 60	1/60=0.0167
Heart Rate	19	50-120 = 70	1/70=0.0143

For SBP and DBP there are 60 possible answers and the probability of guessing/dowsing a correct value for one trial is p= 0.0167 (odds are less than one in 50). The probability of guessing/dowsing a correct value in two trials is p^2=0.00028 (odds are less than one in 3,000), in three trials = 0.0000047 (odds are less than 1 in 250,000) and so on. Each participant attempted 57 trials—that is they guessed or dowsed 57 values.

Accuracy—MuMetal® Results

Table 12 summarizes the accuracy results.

- Hypothesis B was supported for both neck and crown shields. The larger 2.54 centimeters (1 inch) MuMetal® shield (rows 2 and 3 in Table 12) provided *less* averaged accurate results 7.1 and 10.5 compared to when participants used the *smaller* 1.27 centimeters (1/2 inch) shields (rows 4 and 5) 6.4 and 7.9, and less accurate results compared to the no shield results (row 1) 6.3.
- Hypothesis E was supported for the following cases:
  - 1.27 centimeters (1/2 inch) magnetic shielding on either zone (MuMetal® or Co-Netic AA®) (rows 9 and 15)
  - Comparing row 8 to rows 4 and 1—For row 8, the no shield case after breathing techniques, the accuracy (the averaged error ["diff"] between guessing/dowsing and the actual vital sign measurements) was 4.8 which is more accurate than for shielded neck results *before* breathing techniques 6.4 (row 4) and more accurate than the beginning scenario with no shield and no breathing technique 6.3 (row 1).
  - When the neck was shielded, the accuracy after using *chanting* (row 7) was 5.1, more accurate than before using chanting (row 4) at 6.4. In contrast, after using the *breathing* techniques (row 9) averaged accuracy was 7.0, higher (less accurate) than before applying breathing (row 4) at 6.4; however there were more participants (23) with high accuracy results *after* the breathing techniques than there were *before* (17).
- Hypothesis E was not supported for row 6 compared to row 1. It was expected that results would be more accurate *after* using chanting techniques (row 6) 8.5 than before when participants were not shielded and more accurate compared to when they were shielded for example row 1, 6.3 but this was not the case.
- Hypothesis F states that the accuracy of the results is higher when participants experience greater ease in performing the task. Considering the ease of performance ratings of the five rows that have the highest averaged accuracy (rows 15, 19, 13, 9, and 7) as 2.61, 2.26, 2.14, 2.30, and 2.52 indicates that there could be a correlation between high accuracy and greater ease of performance but this is not conclusive. See the section, *Correlating Rated Ease of Guessing/Dowsing with Accuracy*.

Accuracy—Co-Netic AA® Results

Table 12 summarizes the accuracy results.

- Hypothesis B was supported for both neck and crown shields but the results differed from the MuMetal® results:
  - For the *neck* shield, higher accuracy was obtained with the larger 2.54 centimeters (1 inch) Co-Netic AA® shield (row 10 has an averaged accuracy of 8.2) compared to the 1.27 centimeters (1/2 inch) shield (row 12 with an averaged accuracy of 10.2). This result differed from the MuMetal® result for neck shields.
  - For the *crown* shield, less accuracy was obtained with the larger 2.54 centimeters (1 inch) Co-Netic AA® shield (row 11 has an averaged accuracy of 11.0) compared with the 1.27 centimeters (1/2 inch) shield (row 13 with accuracy 4.6) or the no shield case (row 1 with accuracy 6.3). This result is the same as the MuMetal® result for crown shields. This case also supports hypothesis C which states that "the effect of the magnetic shield changes with the shield materials."
- Hypothesis E is supported:
  - The row 15 trial had the largest percentage of participants 60% claiming that it was easier to perform and the highest average ease of performance self-rating of 2.61. This trial supports hypothesis E.
  - Row 19 (yellow ribbon) compared to row 16—Row 19 the control case for no shield *after* breathing techniques resulted in an accuracy of 4.2 compared to 6.4 row 16, the control case for no shield *before* breathing techniques. This trial supports hypothesis E.
- Hypothesis F: The trial with the most accurate result used Co-Netic AA® shields at the neck after performing the breathing technique (rows 15 and 19 in Table 12). This neck-shielded trial result supports hypothesis F (accuracy is higher when participants experienced greater ease in performing the task) and also:
  - Meets the expectation that more accurate results were obtained in row 15 (4.2) than for row 12 (10.2) the shielded neck but before performing the breathing techniques; ease of performance for row 15 was 2.61 (easier) compared to row 12 with 1.91.
  - Does not meet the expectation that more accurate results would be obtained *after breathing* when not using a shield; compare the accuracy of row 15 (4.2) with neck shielded with row 8 (4.8) neck unshielded after performing breathing techniques. However, the ease of performance rating was greater (2.61) for row 15 than that for row 8 (2.30).

Neck versus Crown Shielding

When the *crown* was shielded by either MuMetal® (rows 3, 5) or Co-Netic AA® (row 11) the average readings were slightly less accurate 8.5 with (10.5, 7.9, 11.0, 4.6) than when the *neck* was shielded with average accuracy of 8.0 (rows 2,4,10, 12 at (.1, 6.4, 8.2, and 10.2) with the exception of row 13 Co-Netic 1.27 centimeters (1/2 inch) crown shield.

Table 12 Experiment 1a: Results Summary – Shielding Effects on Accuracy of Guessing/Dowsing

		YA*	YB*	Averaged	YC*	YD*	YE*	YF*	YG*
		Expected results - These rows correspond to *COLUMNS in* Table 20	**Accuracy**	**Std Error**	**No. with Diff =< 6**	**% Easier**	**Av. Self-Ratings**	**Met Expectations – YA*?**	**Hypotheses tested**
1	No shield	No shield provides more accurate results?	6.3	2.9	20	NA	2.00	NA NA	A, B
2	MuMetal® 2.54 cm. (1 in.) (Neck)	Larger shield provides less accuracy than small shields and less accuracy than 'no shields'	7.1	2.7	16	33%	1.98	Yes Yes	B
3	MuMetal® 2.54 cm. (1 in.) (Crown)	Larger shield provides less accuracy than small shields and less accuracy than 'no shields'	10.5	3.3	10	23%	1.91	Yes Yes [less accurate than neck]	B
4	MuMetal® 1.27 cm. (1/2 in.) (Neck)	Smaller shield provides more accurate results than larger shield row 2 and less accuracy than for "no shield" row 1	6.4	2.8	17	33%	2.04	Yes Yes	B
5	MuMetal® 1.27 cm. (1/2 in.) (Crown)	Smaller shield provides more accurate results than larger shield and less accuracy than for "no shield"	7.9	2.7	10	29%	1.87	Yes Yes [less accurate than neck]	B
6	No shield (After chanting)	More accurate result than for shielded neck results before chanting techniques and for no shield (with no chanting = row 1)	8.5	2.7	14	39%	2.39	No No [does not support hypothesis d]	E
7	MuMetal® 1.27 cm. (1/2 in.) (Neck) – after chanting	Better accuracy than for row 4, shielded neck before chanting; worse accuracy than row 6	5.1	3.4	17	53%	2.52	Yes , No [part supports hypothesis E]	E

		YA*	YB*	Averaged	YC*	YD*	YE*	YF*	YG*
		Expected results - These rows correspond to *COLUMNS in* Table 20	**Accuracy**	**Std Error**	**No. with Diff =< 6**	**% Easier**	**Av. Self-Ratings**	**Met Expectations – YA*?**	**Hypotheses tested**
8	No shield (After breath techniques)	More accurate result than for shielded neck results before breath techn. row 4 and for no shield (with no breath technique = row 1)	4.8	2.8	26	33%	2.30	Yes Yes [supports hypothesis e]	E
9	**MuMetal® 1.27 cm. (1/2 in.) (Neck) – after breath techniques**	Better accuracy than for row 4, shielded neck before breath techniques; worse accuracy than row 8	7.0	2.8	23	51%	2.35	No (+Yes), Yes [supports hypothesis e]	E
10	Co-Netic AA® 2.54 cm. (1 in.) (Neck)	Less accuracy than row 1, no shield	8.2	3.3	31	45%	2.22	Yes No	B, C
11	Co-Netic AA® 2.54 cm. (1 in.) (Crown)	Less accuracy than row 1, no shield	11.0	3.1	16	51%	2.35	Yes Yes [less accurate than neck]	B, C
12	**Co-Netic AA® 1.27 cm. (1/2 in.) (Neck)**	More accurate results than row 10, less accurate than row 1 no shield	10.2	4.1	15	27%	1.91	No Yes	B, C
13	**Co-Netic AA® 1.27 cm. (1/2 in.) (Crown)**	More accurate results than row 11, less accurate than row 1 no shield	4.6	3.3	18	33%	2.14	Same(+yes) Yes [less accurate than neck]	B, C
14	**Co-Netic AA® 1.27 cm. (1/2 in.) (Neck) – after chanting**	More accuracy than for row 12, shielded neck before chanting; worse accuracy than row 6	7.6	3.3	22	49%	2.32	Yes(+No) Yes(+No) [part supports hypothesis d]	E
15	**Co-Netic AA® 1.27 cm. (1/2 in.) (Neck) – after breath techniques**	More accuracy than for row 12, shielded neck before breath technique; worse accuracy than row 8	4.2	3.3	26	60%	2.61	Yes(+No) Yes(+Same) [supports hypothesis e]	E, F
16	No shield (Neck)	Same or similar results to row 1	6.4	3.1	20	37%	2.26	Close, Same	E, F
17	No shield (Crown)	Same or similar results to row 1	9.4	3.6	27	45%	2.17	Less Accurate More Accurate	E
18	No shield (Neck) after chanting	More accurate than row 16 and row 1	7.0	3.4	24	36%	2.09	No Yes [part supports hypothesis d]	E
19	No shield (Neck) after breath techniques	More accurate than row 16 and row 1	4.2	2.9	24	45%	2.26	Yes Yes [supports hypothesis e]	E, (F)

Notes:

- YB* Accuracy = Averaged difference (DIFF or ERR) between the measured vital signs (SBP, DBP, and HR) and guessed/dowsed vital signs; the lower the difference (error) the higher the accuracy.
- YC* Error =< 6: Number of participants with an error of 6 or less where the error is difference between the measured and guessed (or dowsed) vital sign value; here the higher numbers indicate more participants had accurate results.
- YD* % Easier are value taken from Table 20 column F* = Number of participants who rated the task as easier ("3") as a percentage, noted as a percentage of total participants.
- YC* see Table 20.
- YJ* Hypothesis F states that accuracy of the results is higher when participants experienced greater ease in performing the task; here both columns YF* (>= 30%) and C* (> 2) were used to determine "ease" and both columns G* (lower numbers =< 13) and H* (higher number >= 14) used to determine accuracy. In 10 out of 19 (53%) scenario trials supported hypothesis F. See also Figure 2 and the section "Correlating Rate of Ease of Guessing with Accuracy."

The Effect of Breathing and Chanting Techniques

The following describes the effect of chanting and breathing techniques on ease of performance and accuracy results:

Ease of Performance: Hypothesis D states that chanting or breathing techniques make it easier to perform intuitive tasks for both unshielded and magnetically shielded cases:

- *After chanting:*
  - Hypothesis D is supported—For MuMetal® 1.27 centimeters (1/2 inch) neck shield (2.52 rating at row 7 in Table 12 is higher (easier) than for row 4 with a rating of 2.04). For Co-Netic AA® 1.27 centimeters (1/2 inch) neck shield (2.32 rating at row 14 is higher [easier] than row 12 with a rating of 1.91) after chanting both support hypothesis D. For the no shield case, row 6 with a rating of 2.39 has a higher (easier) rating than row 1 and supports hypothesis D.
  - Hypothesis D is not supported—for the control case (yellow ribbon) row 18 average self-rating of 2.09 is lower (harder) than for row 16 at 2.26.
- *After breathing techniques*:

- Hypothesis D is supported—For MuMetal® 1.27 centimeters (1/2 inch) neck shield (row 9 with a self-rating of 2.35) is higher (easier) than for row 4 the MuMetal® 1.27 centimeters (1/2 inch) shield with a rating of 2.04 before conducting the breathing techniques; and from the Co-Netic AA® 1.27 centimeters (1/2 inch) neck shield (row 15 with a self-rating of 2.61) is higher (easier) than for row 12 before the breathing with a rating of 1.91—both support hypothesis D. Row 8 the no shield case after breathing with a self-rating average of 2.30 is higher (easier) than the rating of row 1 (no shield before breathing) with a rating of 2.00 hence the no shield case also supports hypothesis D.
- Hypothesis D is not supported—The control no shield case after breathing, row 19, has a rating of 2.26 which is the same as row 16 no shield case before breathing.

To summarize, both chanting and breathing techniques support hypothesis D for the magnetically shielded cases and only partially support it for the unshielded cases.

Accuracy: Hypothesis E states that chanting or breathing techniques improve the accuracy of intuitive task results for both unshielded and magnetically shielded cases:

- *After chanting:*
  - Hypothesis E is supported—For the MuMetal® 1.27 centimeters (1/2 inch) neck shield, row 7 after chanting in Table 12 with an average error of 6.3 is more accurate before chanting than row 4 with an average error of 8.7; and the Co-Netic AA® 1.27 centimeters (1/2 inch) neck shield (row 14 with an average error of 10.3 is more accurate than before chanting row 12 with an average error of 14.3) both support hypothesis E.
  - Hypothesis E is not supported—For the no shield case, row 6 after chanting had an average error of 12.3 which is higher than that of row 1 (before chanting case). For the control no shield case, row 18 after chanting has an average error of 9.3 which is higher than for row 16 the case before chanting at 8.7.
- *After breathing techniques;*
  - Hypothesis E is supported -- For the MuMetal® 1.27 centimeters (1/2 inch) neck shield case, row 9 after breathing techniques is 9.7 less accurate compared to the case before breathing row 4 it is 8.7 hence does not support hypothesis E; for Co-Netic AA® 1.27 centimeters (1/2 inch) neck shield, row 15 after breathing techniques is 4.7 more accurate compared to the case before breathing row 12 at 14.3 hence supports hypothesis E.
  - Hypothesis E is not supported -- For the no shield case, row 8 after breathing techniques with an accuracy of 6.0 has a higher accuracy than for row 1 (8.3) the case before breathing hence supports hypothesis E. Likewise the control no shield case, row 19 after breathing has an average error of 5.0 which is more accurate than for row 16 the case before chanting at 8.7, hence this case also supports hypothesis E.

To summarize, both chanting and breathing techniques support hypothesis E for the magnetically shielded cases. For the unshielded cases, the *breathing* techniques support hypothesis E while the *chanting* techniques do not.

Experiment 1b Results: Small Group Working Individually

Experiment 1b addresses hypothesis G, which states that "The results are the same regardless of whether the tasks are performed together with others in a large group or individually and alone." Hypothesis G was partially supported: out of the eight trials, three supported the hypothesis; three partially supported it, while two did not support it. Table 15 summarizes the results of Experiment 1b.

Note: For Experiment 1b, only MuMetal® shields were used (no Co-Netic AA®), only the neck was shielded (the crown was not shielded), and only the chanting (no breathing) technique was used.

As with Experiment 1a the results are divided here into ease of performance and accuracy results. Table 13 and Table 14 list these results. Table 21 and Table 22 provide the original detailed results.

Small Group Ease of Performance (MuMetal® Only) Results

See Table 13. For Experiment 1b, as with the large group, using the MuMetal® 2.54 centimeters (1 inch) and 1.27 centimeters (1/2 inch) shield at the neck rendered the dowsing tasks more difficult than without the shield. Since the small group all used dowsing to determine the vital sign values, for the small group the task is referred to as "dowsing" and not "guessing/dowsing".

- Hypothesis A is partly supported:
  - Hypothesis A is supported:
    - Comparing rows 1 and 2: Dowsing with the 2.54 centimeters (1 inch) shield makes dowsing harder indicated by the self-rating of 1.50 in row 1 (no shield) compared to 1.00 in row 2 (with shield).
    - Comparing rows 6 and 7: Dowsing with the 2.54 centimeters (1 inch) shield after chanting (row 7, 1.50) is more difficult than with no shield after chanting (row 6, 2.75).
  - Hypothesis A is not supported:
    - Comparing rows 1 and 4: Dowsing with the 1.27 centimeters (1/2 inch) shield (row 4, 1.50) is the same as dowsing with no shield (row 1, 1.50). Similar results were obtained for the larger group (Table 10) where the shielded *neck* resulted in slightly easier self-ratings.
- Hypothesis B is supported:
  - Comparing rows 2 and 4: The dowsing task for MuMetal® 1.27 centimeters (1/2 inch) was easier (average rating of 1.50) than with the larger 2.54 centimeters (1 inch) shield (rating of 1.00) and supports hypothesis B. For the large group the average results were similar with MuMetal® 1.27 centimeters (1/2 inch) being rated slightly easier by 0.06 points supports hypothesis B. For these trials both small and large group supports B and hence hypothesis G.
- Hypothesis D is supported by all trials in the small group but not for row 16/18 in the large group:
  - Comparing rows 1 and 6: Both unshielded scenarios, after chanting both healing (2.75 versus 1.75) and dowsing (2.75 versus 1.50) tasks were rated as easier and support hypothesis D. For the large group, the task was rated easier (2.39 versus 2.00) after chanting.
  - Comparing rows 4 and 7, with the smaller 1.27 centimeters (1/2 inch) MuMetal® shields at the neck, row 7 after chanting were rated easier (2.50) than before chanting (1.50) a 1.0 difference for both healing and dowsing and hence supports hypothesis D. Similarly for the large group after chanting results using the smaller 1.27 centimeters (1/2 inch) MuMetal® shields at the neck also showed after chanting the rates as easier by 0.51 and 0.48 respectively and hence overall for shielded cases supports hypothesis D.
  - Comparing rows 16 and 18, for the control scenario (yellow ribbon) unshielded before and after chanting, dowsing tasks were rated easier to perform after chanting and also support hypothesis D. But for the large group, the guessing/dowsing task was rated more difficult, lower by 0.17 hence for unshielded cases only partially supports hypothesis D.

Table 13 Experiment 1b: Small Group Results Summary – Shielding Effect on Ease of Performing Tasks

		ZA*	ZC*			ZD*	
		Expected Results -- These lettered rows correspond to *COLUMNS* in Table 21	**Av. Self-Ratings (Dowsing)**	**STD DEV**	**STD ERR**	**Met Expected Results ZA*?**	**Hypotheses Tested?**
1	No shield	B = 2	1.50	0.58	0.29	N	N/A
2	**MuMetal® 2.54 cm. (1 in.) (Neck)**	C (<2): Magnetic shield will render tasks more difficult	1.00	0.82	0.41	Y	A
3	MuMetal® 2.54 cm. (1 in.) **(Crown)**	NA	NA	NA	NA	NA	NA
4	**MuMetal® 1.27 cm. (1/2 in.) (Neck)**	E (<2, >C): More difficult than no shield; smaller shield used will render task easier than 2.54 centimeter (1 inch) shield	1.50	1.29	0.65	Y, Y	A, B
5	MuMetal® 1.27 cm. (1/2 in.) (Crown)	NA	NA	NA	NA	NA	NA
6	**No shield (After chanting)**	G (>=2, >B, >E): With no shield, after chanting task is same or easier than for beginning with no shield and no chanting, and easier than tasks with shields	2.75	0.50	0.25	Y, Y, Y	A, D
6a	**MuMetal® 2.54 cm. (1 in.) (Neck) after chanting**	H - Task is easier than row 4 (E), more difficult than row 6 (G)	1.50	0.58	0.29	Same, Y	A, D
7	**MuMetal® 1.27 cm. (1/2 in.) (Neck) – after chanting**	After chanting with neck shield the task is easier than H, before chanting (E); task more difficult than without a shield (G and B)	2.50	1.00	0.50	Y,Y,Y	A, D

		ZA*	ZC*			ZD*	
		Expected Results -- These lettered rows correspond to *COLUMNS* in Table 21	Av. Self-Ratings (Dowsing)	STD DEV	STD ERR	Met Expected Results ZA*?	Hypotheses Tested?
8	No shield (After breath techniques)	NA	NA	NA	NA	NA	NA
9	MuMetal® 1.27 cm. (1/2 in.) (Neck) – after breath techniques	NA	NA	NA	NA	NA	NA
10	Co-Netic AA® 2.54 cm. (1 in.) (Neck)		NA	NA	NA	NA	NA
11	Co-Netic AA® 2.54 cm. (1 in.) (Crown)	NA	NA	NA	NA	NA	NA
12	Co-Netic AA® 1.27 cm. (1/2 in.) (Neck)	NA	NA	NA	NA	NA	NA
13	Co-Netic AA® 1.27 cm. (1/2 in.) (Crown)	NA	NA	NA	NA	NA	NA
14	Co-Netic AA® 1.27 cm. (1/2 in.) (Neck) – after chanting	NA	NA	NA	NA	NA	NA
15	Co-Netic AA® 1.27 cm. (1/2 in.) (Neck)– after breath techniques	NA	NA	NA	NA	NA	NA
16	No shield (Neck)	R (>=2): Control (yellow) ribbons-ratings will be close to Column B (2.00) or higher but not lower.	2.26	0.96	0.48	Y	Control
17	No shield (Crown)	NA	NA	NA	NA	NA	NA
18	No shield (Neck) after chanting	T (>=2, >R): Control (yellow) ribbons. Expected ratings to be close B (2.00) or higher but not lower and chanting techniques make tasks easier (higher rating) than R before chanting techniques.	2.75	0.50	0.25	Y,Y	Control
19	No shield (Neck) after breath techniques	NA	NA	NA	NA	NA	NA

Notes:

- ZC* Average Self Ratings for all trials, for dowsing, where < 2 = task is made harder, >2 task is easier
- ZD* Met Expectations = rule(s) for determining resulting metric
- The smaller group does not test hypothesis C

Small Group Accuracy – MuMetal® Results

See Table 14. For Experiment 1b using the MuMetal® shield produced the following accuracy results:

- Hypothesis B is supported:
  - Comparing rows 2 and 4: The dowsing task for the smaller MuMetal® 1.27 centimeters (1/2 inch) shield was rated easier than with the MuMetal® 2.54 centimeters (1 inch) shield by 0.5 while accuracy was improved 37% (9.6 versus 13.1) hence supporting hypothesis B; for Experiment 1a the guessing/dowsing results were similar with MuMetal® 1.27 centimeters (1/2 inch) being rated slightly easier by 0.06 points and accuracy improved 27% (8.7 versus 10)—this latter result supports hypothesis G.
- Hypothesis E is supported:
  - Comparing rows 1 and 6, both unshielded cases, after chanting the dowsing task was rated as easier and accuracy was higher (average error of 5.8 compared to 8.3) hence supporting hypothesis E for the unshielded case. For Experiment 1a (large group) results, the guessing/dowsing task was also rated as easier after chanting but the average accuracy was worse (12.3 compared to 8.3)—this supports hypothesis G.
  - Comparing rows 4 and 7, for 1.27 centimeters (1/2 inch) MuMetal® shields at the neck, row 7 after chanting dowsing results were 63% more accurate (5.9 versus 9.6) hence supporting hypothesis E for the shielded case; similarly for Experiment 1a (the large group) after chanting the accuracy was 38% improved (6.3 versus 8.7)—this latter case supports hypothesis G.
  - Comparing rows 16 and 18, for the control scenario (yellow ribbon) unshielded before and after chanting, the dowsing tasks were slightly more accurate at 2% (8.6 versus 8.8) after chanting again supporting hypothesis E for the unshielded case; for Experiment 1a the guessing/dowsing accuracy was 6.5% less accurate after chanting (9.3 versus 8.7).
- Hypothesis F is supported:
  - Row 6 and 7 indicate the most accurate results (5.8 and 5.9) and also the easiest performance rating (2.75 and 2.50).

Table 14 Experiment 1b: Small Group Results Summary– Shielding Effects on Dowsing Accuracy

		UA*	UG*	UC*	UI*	UJ*
		Expected Results -- The letters here correspond to *COLUMNS* in Table 22	**Averaged Accuracy (Diff)**	**Av. Self-Ratings (Dowsing)**	**Met Expectations -- UA***	**Hypothesis Tested**
1	No shield	B - No shield provides more accurate results?	8.3	1.50		A, B
2	MuMetal® 2.54 cm. (1 in.) (Neck)	D - Larger shield provides less accuracy than small shields (F) and less accuracy than 'no shields' (B)	13.1	1.00	Yes	B
3	MuMetal® 2.54 cm. (1 in.) (Crown)	NA	NA	NA	NA	NA
4	MuMetal® 1.27 cm (1/2 in.) (Neck)	F - Smaller shield provides more accurate results than larger shield (D) and less accuracy than for "no shield" (B)	9.6	1.50	Yes, Yes	A, B
5	MuMetal® 1.27 cm. (1/2 in.) (Crown)	NA	NA	NA	NA	NA
6	No shield (After chanting)	H - More accurate result than for shielded neck results before chanting (D, F) and for no shield (with no chanting = B)	5.8	2.75	Yes, Yes	E, F
6a	MuMetal® 2.54 cm. (1 in.) (Neck) after chanting	J - More accurate than D, less accurate than B, less accurate than L	9.9	1.50	Yes, Yes, Yes	E
7	MuMetal® 1.27 cm (1/2 in.) (Neck)– after chanting	L - Better accuracy than for F, shielded neck before chanting	5.9	2.50	Yes	E, F
8	No shield (After breath techniques)	NA				NA
9	MuMetal® 1.27 cm (1/2 in.) (Neck) after breath techniques	NA				NA
10	Co-Netic AA® 2.54 cm. (1 in.) (Neck)	NA				NA
11	Co-Netic AA® 2.54 cm. (1 in.) (Crown)	NA				NA
12	Co-Netic AA® 1.27 cm (1/2 in.) (Neck)	NA				NA
13	Co-Netic AA® 1.27 cm (1/2 in.) (Crown)	NA				NA
14	Co-Netic AA® 1.27 cm (1/2 in.) (Neck) – after chanting	NA				NA
15	Co-Netic AA® 1.27 cm (1/2 in.) (Neck) – after breath	NA				NA
16	No shield (Neck)	N - Same or similar results to B	8.8	2.26	Close	E
17	No shield (Crown)	NA				NA
18	No shield (Neck) after chanting	P - More accurate than N and B	8.6	2.09	No Yes [part supports hypothesis d]	E
19	No shield (Neck) after breath techniques	NA				NA

Notes:

- UG* Accuracy = Averaged difference (DIFF or ERR) between the measured vital signs (SBP, DBP, and HR) and guessed/dowsed vital signs; the lower the difference (error) the higher the accuracy. See Table 22 for the aggregated results.
- UC* = Averaged self-ratings for ease of dowsing performance. See Table 21 for the aggregated results.

Comparing Experiment 1a (Large Group) and 1b (Small Group) Results

Table 15 compares a few large group and small group trials from experiment 1a and 1b respectively and notes whether or not the trials support hypothesis G.

Table 15 Comparing Results for Large and Small Groups

	Metric	Experiment 1a (Large Group) Results	Experiment 1b (Small Group) Results	Hypothesis G?
Rows 1 and 6: unshielded trials	Ease of performing task	Table 10 -- After chanting task was rated easier (2.39 versus 2.00) ;	Table 13 - After chanting task was rated easier (2.75 versus 1.50).	Yes
	Accuracy	Table 12 -- Accuracy was worse (8.5 compared to 6.3)	Table 14 -- Accuracy was improved (5.8 compared to 8.3).	No

	Metric	Experiment 1a (Large Group) Results	Experiment 1b (Small Group) Results	Hypothesis G?
Rows 2 and 4 (2.54 cm. (1 in.) versus 1.27 cm. (1/2 in.) MuMetal® Shields)	Ease of performing task	Table 10 -- Using MuMetal® 1/2 inch task was rated slightly easier by 0.06 points than for larger shield	Table 13 – Using MuMetal® 1.27 cm. (1/2 in.) task was easier (1.50) than for larger 2.54 cm. (1 in.) shield (1.00)	Yes
	Accuracy	Table 12 – With smaller shield accuracy improved 27% (8.7 versus 10).	Table 14 -- With smaller shield accuracy improved 37% (9.6 versus 13.1)	Yes
Rows 4 and 7 using smaller 1.27 cm. (1/2 in.) MuMetal® shields at the neck (row 7 was after chanting)	Ease of performing task	Table 10 -- After chanting rates are easier (0.51) then before (0.48).	Table 13 - After chanting tasks were rated easier (2.50) than before chanting (1.50) - a 1.0 difference	Yes
	Accuracy	Table 12 -- After chanting results were 38% more accurate (6.3 versus 8.7).	Table 14 --After chanting results were 63% more accurate (5.9 versus 9.6);	Yes
Rows 16 and 18, -- control scenario unshielded before and after chanting:	Ease of performing task	Table 10 – Tasks were rated more difficult by 0.17 after chanting.	Table 13 –Tasks (2.75 versus 2.26) were rated easier after chanting.	No
	Accuracy	Table 12 -- After chanting results 6.5% less accurate (9.3 versus 8.7).	Table 14 -- After chanting results were slightly more accurate at 2% (8.6 versus 8.8);	No

Correlating Rated Ease of Guessing/Dowsing with Accuracy

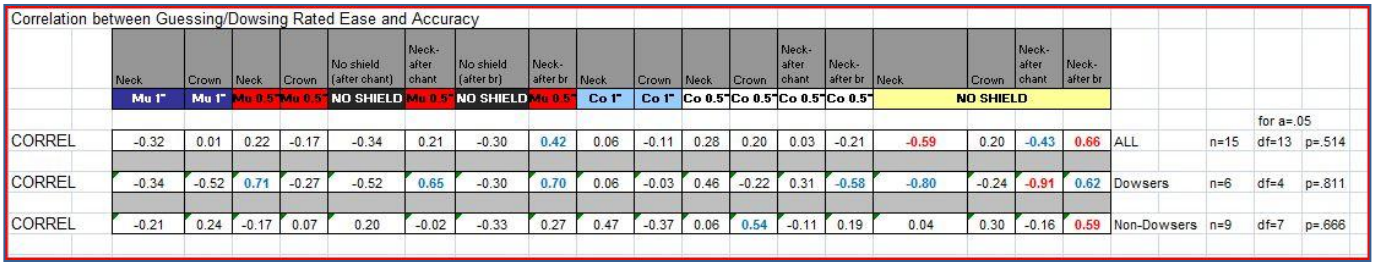
Hypothesis F states that "the accuracy of the guess-dowsing results is higher when participants experience greater ease in performing the task."

Figure 2 shows the correlation results between guessing/dowsing rated ease of performance and accuracy for the trials in experiment 1a. The highest correlation coefficient was r = 0.66 for alpha .05 (where alpha is the 'significance level': the correlation has a chance occurrence of 5 out of 100) using a sample size of 15 and two tailed formula since we do not know whether the relationship is positive or negative. This is considered significant since it is above probability p=0.51 and occurred for the control trial (yellow ribbon) where the neck was unshielded *after conducting breathing techniques*. For this trial when the ease of performing guessing/dowsing is highest, the guessing/dowsing accuracy is highest and this case supports hypothesis F.

The next highest correlation was also for the control trial (yellow ribbon) where the neck was unshielded with a negative correlation before breathing techniques were conducted, r = -0.59 and a positive correlation r=0.59 after breathing. Correlations were calculated using the aggregated accuracy ("diffs") for SBP, DBP, and HR for each of the nineteen trials against the ease of performance ratings for the same nineteen trials:

- **For participants who dowsed** the highest significant correlation was negative r = -0.91 for the unshielded neck *after conducting chanting*. The next significant correlation was for the unshielded neck before any meditative techniques were conducted r = -0.80 followed by the 1.27 centimeters (1/2 inch)MuMetal® shielded neck case results before (r = 0.71) and after chanting (r = 0.65) and breathing (r = 0.70) techniques.
- **For participants who did not use dowsing**, the highest significant correlation was r = 0.59 for the unshielded neck after conducting breathing. The next significant correlation was for the 1.27 centimeters (1/2 inch) Co-Netic AA® shielded crown case before any meditative techniques with r = 0.54.

No significant correlation was found between the reported subjective ease of performing the experiments and the accuracy of the results obtained from the experiments in the general case. The results suggest that hypothesis F is only partially supported with the most significant results occurring when the neck zone was unshielded after breathing techniques. For dowsers the most significant positive correlation occurred when the neck was shielded by 1.27 centimeters (1/2 inch) MuMetal® before any meditative technique or unshielded after chanting or breathing techniques. For non-dowsers the most significant correlation occurred when the neck was unshielded after breathing techniques.



Correlation between Guessing/Dowsing Rated Ease and Accuracy

	Neck	Crown	Neck	Crown	No shield (after chant)	Neck-after chant	No shield (after br)	Neck-after br	Neck	Crown	Neck	Crown	Neck-after chant	Neck-after br	Neck	Crown	Neck-after chant	Neck-after br				
	Mu 1"	Mu 1"	Mu 0.5"	Mu 0.5"	NO SHIELD	Mu 0.5"	NO SHIELD	Mu 0.5"	Co 1"	Co 1"	Co 0.5"	Co 0.5"	Co 0.5"	Co 0.5"	NO SHIELD						for a=.05	
CORREL	-0.32	0.01	0.22	-0.17	-0.34	0.21	-0.30	0.42	0.06	-0.11	0.28	0.20	0.03	-0.21	-0.59	0.20	-0.43	0.66	ALL	n=15	df=13	p=.514
CORREL	-0.34	-0.52	0.71	-0.27	-0.52	0.65	-0.30	0.70	0.06	-0.03	0.46	-0.22	0.31	-0.58	-0.80	-0.24	-0.91	0.62	Dowsers	n=6	df=4	p=.811
CORREL	-0.21	0.24	-0.17	0.07	0.20	-0.02	-0.33	0.27	0.47	-0.37	0.06	0.54	-0.11	0.19	0.04	0.30	-0.16	0.59	Non-Dowsers	n=9	df=7	p=.666

Figure 2 Correlation Results: Guessing/Dowsing Rated Ease with Accuracy

Sources of Error

A number of possible sources may have contributed to errors in the results including:

- Error inherent in the ease of performance subjective ratings where small variations in each participant's mood and expectations (experimental "noise") could out-weigh any finer levels of significance; this could be potentially mitigated in future studies by using physiologic measurements such as skin conductance, ECG, or EEG measurements to determine stress associated with each task.
- Varied experience in dowsing leading to non-representative accuracy results; prior training or use of experienced dowsers could reduce this error.
- Lack of control of the positioning of the small shields on the neck and crown affecting reliability of the results; use of a brace or more defined placement of each ribbon could mitigate this error.
- The fatigue factor resulting in lack of focus since participants were engaged without a break; introducing a break would alleviate this error if time permits.

Summary

The following paragraphs summarize the results for each hypothesis.

Hypothesis A is not fully supported. Table 16 summarizes the results for hypothesis A where three out of the four cases shown support hypothesis A:

- Supporting hypothesis A: Guessing/dowsing tasks in Experiment 1a and 1b were more difficult when the neck or crown were shielded with 1.27 centimeters (1/2 inch) or 2.54 centimeters (1inch) MuMetal® or 1.27 centimeters (1/2 inch) Co-Netic AA® shields.
- Not supporting hypothesis A: When using the 2.54 centimeters (1inch) Co-Netic AA® shield at the neck or crown the tasks were easier and this latter case does not support hypothesis A.

Table 16 Hypothesis A: Magnetic Shields Make Tasks Harder for the Neck and Crown Zones (Zone 1 and 2)

		Expt. 1a Zone 1 (Neck)	Expt. 1b Zone 1 (Neck)	Zone 2 (Crown)	Hypothesis A Supported?
No Shield		2.00	1.50	2.04	NA
MuMetal® Shield	1.27 cm. (1/2 in.)	1.91	1.00	1.82	Y
	2.54 cm. (1 in.)	1.95	1.2	1.73	Y
Co-Netic AA® Shield	1.27 cm. (1/2 in.)	1.91	NA	2.01	Y
	2.54 cm. (1 in.)	2.17	NA	2.21	N

Hypothesis B and C are supported. Table 17 shows results extracted from rows 2, 3, 4, and 5 and 10, 11, 12, and 13 in Table 10 and rows 2 and 4 in Table 14. For the large group (Experiment 1a) and small group (experiment 1b) when the *neck* zone was shielded the ease of performance ratings for MuMetal® were lower (more difficult) and less accurate for the larger magnetic shield.

For the large group (Experiment 1a), when the *crown* zone was shielded for both MuMetal® and Co-Netic AA® the tasks were easier with the larger shield but *less* accurate.

The different results for MuMetal® and Co-Netic AA® when the neck was shielded supports hypothesis C. When the crown was shielded, the differing rated ease of performance and accuracy results for MuMetal® versus Co-Netic AA® supports hypothesis C although the overall effects were similar (easier tasks, less accurate results).

Table 17 Hypothesis B and C: Different Size and Material Shields Have Different Effects on Tasks

		Zone 1 (Neck)			Zone 2 (Crown)		
		Ease of Performance	Accuracy*	Hypothesis B supported?	Ease of Performance	Accuracy*	Hypothesis B Supported?
Large Group							
MuMetal® Shield	1.27 cm. (1/2 in.) vs. 2.54 cm. (1 in.)	2.04 vs. 1.98	6.4 vs. 7.1	Yes - with larger shield task is harder and less accurate	1.87 vs. 1.91	7.9 vs. 10.5	Yes - with larger shield task is easier but less accurate
Co-Netic AA® Shield	1.27 cm. (1/2 in.) vs. 2.54 cm. (1 in.)	1.91 vs. 2.22	10.2 vs. 8.2	Yes - with larger shield task is easier and more accurate	2.14 vs. 2.35	4.6 vs. 11.0	Yes - with larger shield task is easier but less accurate
Small Group							
MuMetal® Shield	1.27 cm. (1/2 in.) vs. 2.54 cm. (1 in.)	1.50 vs. 1.25	9.6 vs. 13.1	Yes – with larger shield task is harder and less accurate	NA	NA	NA

Note:

- = Lower numbers are more accurate

Hypothesis D is partially supported. It is supported for the chanting and breathing techniques for the magnetically shielded cases which render the tasks easier to perform. It is partially supported for the unshielded cases. See also the section, "The Effect of Breathing and Chanting Techniques."

Hypothesis E is partially supported. For the magnetically shielded trials, the chanting and breathing technique supported hypothesis E by improving accuracy. For the unshielded trials, the breathing technique supported hypothesis E while the chanting technique does not. See also the section, "The Effect of Breathing and Chanting Techniques."

Hypothesis F was not supported for the general case and only supported for specific trials as shown in Figure 2 and the section "Correlating Rated Ease of Guessing/Dowsing with Accuracy". A relationship exists between the rated ease of guessing/dowsing and accuracy when zone 1 (neck) was unshielded after applying breathing techniques.

Hypothesis G was partially supported. Out of the eight trials considered, five supported the hypothesis. Table 15 summarizes the results of Experiment 1b (small group) and compares these results with those of Experiment 1a.

Table 18 summarizes the results for each hypothesis.

Table 18 Hypotheses Results

Hypothesis	Expt. 1a (Large Group)		Expt. 1b (Small Group)	
	Ease of Performance	Accuracy	Ease of Performance	Accuracy
A	Yes – for three out of four cases. Not for Co-Netic with larger shield	NA	Yes – for three out of four cases.	NA
B	Yes	Yes	Yes	Yes
C	Yes	Yes	Yes	Yes
D	Yes - for shielded Partial - for unshielded	NA	Yes - for shielded Yes - for unshielded	NA
E	NA	Yes - for shielded, Yes - for breathing, unshielded No - for chanting, unshielded	NA	Yes - for shielded Yes - for unshielded
F	Yes– for specific trials only (Unshielded neck after breathing)	NA	NA	NA
G	Yes - 5 out of 8 cases			

Since there were exceptions, some of these findings were usually but not categorically true.

Conclusion

This paper summarized and discussed the results of qualitative trials conducted at the Imagine AMORC 2007 conference as part of a Rosicrucian Research Branch study. The study examined the effects of using small thin magnetic shields (0.64 centimeter [1/4 inch] wide and 1.27 centimeters [1/2 inch] to 2.54 centimeters [1 inch] long) on two specific areas (dorsal neck, and crown) of participants while they engaged in two kinds of intuitive tasks: guessing (or dowsing) numeric information and sending healing thoughts to a remote person. Participants were not aware of the purpose of the study nor were they aware which ribbons had shields and which did not. This report focuses on the guessing/dowsing task results.

In one Z.V. Harvalik study he attempts to locate "dowsing sensors" and exposed a dowser to high frequency beams in the "5 meter (59.96 MHz) and 7 centimeter (4.283 GHz) wave bands of the electromagnetic spectrum."[2] The premise was that since dowsers appear to react to those bands of radiation if he shielded various parts of the body with a copper screen, then by process of elimination he could determine which areas of the body were involved. Harvalik isolated the solar plexus and head region and concluded that the dowser's response to magnetic field gradient changes meant that two sensors must be required and further that the horizontal and vertical field "vectors" may be handled by the solar plexus and head regions respectively. In a follow on study the author determined that two zones in the head region (the dorsal neck and crown) were likely candidates as dowsing sensor regions.[3] This study attempts to replicate and understand the effects of magnetically shielding these two regions and how magnetic shielding can inhibit the intuitive processes associated with dowsing. This paper further explored these zones and their relationship with intuitive processes.

It also examined the effects of shielding material, size, and composition: the study supported hypotheses B and C.

For the effects of meditative techniques (chanting and breathing) on the results the study partially supported hypotheses D and E. It determined that both hypothesis D (ease of performance) and E (accuracy) were positively affected for the magnetically shielded trials but only partially supported for the unshielded trials.

For hypothesis F, no significant correlation was found between the reported subjective ease of performing the experiments and the accuracy of the results obtained from the experiments in the general case. The most significant results occurred when the neck zone was unshielded after breathing techniques. Dowsers however experienced a negative correlation for the unshielded case after chanting techniques.

Finally, for hypothesis G, the effect of the proximity of other experimenters was not conclusive—five out of eight cases supported hypothesis G, that is, there was no difference in results for the large versus small group of participants.

To further explore the differences between guessing and dowsing and understand what role intuition may play in guessing further studies can be undertaken using separate dowsing and guessing trials with different target information and dowsing modalities such as map dowsing and water dowsing. Other dowsing zones on the body can be studied such as the solar plexus as suggested by Harvalik—the studies can include the effect of shielding two zones simultaneously or at varying distances from the surface of the body.

Appendix A

Table 19 Experiment 1a: Ease of Performance Self-Rated Results (Large Group - Guessing/Dowsing) -- Summary

SELF-RATED MAG SHIELD EFFECTS WHILE GUESSING/DOWSING

Averaged Self-Ratings Compared

<---------- Poor Magnetic Shield? ---------->

		C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
			Neck	Crown	Neck	Crown	No shield (after chant)	Neck-after chant	No shield (after br.)	Neck-after breathing	Neck	Crown	Neck	Crown	Neck-after chant	Neck-after br	Neck	Crown	Neck-after chant	Neck-after br
		None	Mu 2.54 cm. (1 in.)	Mu 2.54 cm. (1 in.)	Mu 1.27 cm. (1/2 in.)	Mu 1.27 cm. (1/2 in.)	NO SHIELD	Mu 1.27 cm. (1/2 in.)	NO SHIELD	Mu 1.27 cm. (1/2 in.)	Co 2.54 cm. (1 in.)	Co 2.54 cm. (1 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	NO SHIELD			
1	Guessing-All	2.00	1.98	1.91	2.04	1.87	2.39	2.52	2.30	2.35	2.22	2.35	1.91	2.14	2.32	2.61	2.26	2.17	2.09	2.26
2	Guessing-non-D	2.00	2.23	2.08	1.85	1.87	2.46	2.46	2.31	2.38	2.15	2.15	1.85	2.08	2.54	2.62	2.46	2.38	2.00	2.54
3	Guessing-Dowsing	2.00	1.73	1.82	2.36	1.73	2.27	2.55	2.27	2.36	2.27	2.55	2.10	2.30	2.10	2.64	2.09	2.20	2.18	2.00
4	Expected Ratings	N/A	<2	<2	<2, >D	<2, >E	>=2, >C, >F, >G	>F, <H	>=2, >C, >F, G	>F, <J	<2	<2	<2, >L	<2, >M	>N, <H	>N, <J	>=2	>=2	>=2, R	>=2, R
5	(row 1) met expectations?		Y	Y	Y, Y	Y, Y	Y, Y, Y, Y	Y, N	Y, Y, Y, Y	Y, N	N	N	Y, N	N, N	Y, Y	Y, N	Y	Y	Y, N	Y, N
6	(row 2) met expectations?		Y	Y	Y, N	Y, N	Y, Y, Y, Y	Y, EQ	Y, Y, Y, Y	Y, N	N	N	Y, N	N, N	Y, N	Y, N	Y	Y	Y, N	Y, Y
7	(row 3) met expectations?		Y	Y	Y, Y	Y, N	Y,Y, N, Y	Y, N	Y, Y, N, Y	Y, N	N	N	N, N	N, N	EQ, Y	Y, N	Y	Y	Y, N	Y, N
8	**Met Expectations?**	**N/A**	**Y**	**Y**	**Y, N**	**Y, Y**	**Y, Y, Y, Y**	**Y, N**	**Y, Y, Y, Y**	**Y, N**	**N**	**N**	**Y, N**	**N, N**	**Y, Y**	**Y, N**	**Y**	**Y**	**Y, Y**	**Y, Y**
	# Rating task more difficult ("0" or "1")		8	7	8	7	1	0	1	4	5	4	6	6	4	0	2	4	5	4
	# Rating task as easier ("3")		9	7	10	7	10	12	8	12	10	12	6	9	11	14	9	10	7	11
	% Rating task as more difficult		35%	30%	35%	30%	4%	0%	4%	17%	22%	17%	26%	26%	17%	0%	9%	17%	22%	17%
	% Rating task as easier		39%	30%	43%	30%	43%	52%	35%	52%	43%	52%	26%	39%	48%	61%	39%	43%	30%	48%
											Conetic	Conetic	Conetic	Conetic	Conetic	Conetic				

Note: br = breathing technique; chant = chanting technique

Table 20 Experiment 1a: Accuracy Results - Guessing/Dowsing - Summary

Experiment 1a: Guessing/Dowsing Accuracy Comparison

	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
			Neck	Crown	Neck	Crown	After chant	Neck-after chant	No shield (after br)	Neck-after br	Neck	Crown	Neck	Crown	Neck-after chant	Neck-after br	Neck	Crown	Neck-after chant	Neck-after br
	User	None	Mu 2.54 cm. (1 in.)	Mu 2.54 cm. (1 in.)	Mu 1.27 cm. (1/2 in.)	Mu 1.27 cm. (1/2 in.)	NO SHIELD	Mu 1.27 cm. (1/2 in.)	NO SHIELD	Mu 1.27 cm. (1/2 in.)	Co 2.54 cm. (1 in.)	Co 2.54 cm. (1 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	No Shield			
		DAA	DAB	DAC	DAD	DAE	EAA	EAB	HAA	HAB	DAF	DAG	DAJ	DAK	EAD	HAD	DAH	DAI	EAC	HAC
1	Av. Difference: SBP	15	11	12	5	1	25	17	9	20	20	6	8	15	25	-6	16	21	19	11
	STD ERROR	2.8	2.8	3	2.9	2.3	2.9	3.2	2.3	3.1	3.8	2.3	4.8	3.6	3.8	4.1	2.5	4.1	3.3	3.3
2	DBP	1	-10	-10	-19	-8	11	-2	-5	3	-4	-20	-14	0	4	-5	-10	-5	2	-2
	STD ERROR	3.5	2.7	3.7	3.3	2.4	2.5	3.5	3.7	3.1	3.1	3.5	3.4	3.5	3.4	3	3.6	3.9	3.7	2.6
3	HR	-9	9	-24	-2	-26	-1	0	4	-6	-10	-23	-21	1	2	3	0	-13	-7	-2
	STD ERROR	2.5	2.6	3.1	2.2	3.3	2.8	2.5	2.3	2.1	3.1	3.5	4.2	2.8	2.7	2.9	3.1	2.7	3.1	2.8
4	**Average**	**6.3**	**7.1**	**10.5**	**6.4**	**7.9**	**8.5**	**5.1**	**4.8**	**7.0**	**8.2**	**11.0**	**10.2**	**4.6**	**7.6**	**4.2**	**6.4**	**9.4**	**7.0**	**4.2**
5	Median Difference:SBP	11	5	11	1	0	25	14	10	20	19	8	11	16.5	17	-3	12	19	15	11
6	DBP	2	-9	-9	-16	-12	12	-6	-6	4	-2	-15	-13	5	4	-4	-7	-5	2	1
7	HR	-9	11	-22	0	-28	5	-3	4	-4	-5	-21	-14	-1	4	7	5	-8	-2	-3
8	**Average**	**7.3**	**8.3**	**14**	**5.7**	**13.3**	**14**	**7.7**	**6.7**	**9.3**	**8.7**	**14.7**	**12.7**	**7.5**	**8.3**	**4.7**	**8**	**11**	**6**	**5**
	Accurate by =< 6																			
9	SBP	10	7	4	6	5	3	4	6	6	9	5	4	6	4	8	6	9	7	4
10	DBP	5	4	4	3	1	5	7	9	9	11	6	6	5	9	10	7	11	7	6
11	HR	5	5	2	8	4	6	6	11	8	11	5	5	7	9	8	7	7	10	14
12	**Total**	**20**	**16**	**10**	**17**	**10**	**14**	**17**	**26**	**23**	**31**	**16**	**15**	**18**	**22**	**26**	**20**	**27**	**24**	**24**
	100% accurate																			
13	SBP	0	1	1	0	3	0	0	5	1	0	0	2	0	0	0	1	0	0	3
14	DBP	0	0	0	0	0	0	0	3	0	0	1	0	2	0	1	0	0	1	1
15	HR	0	0	0	4	0	0	0	0	0	1	0	1	0	1	1	0	1	2	1
16	**Total**	**0**	**1**	**1**	**4**	**3**	**0**	**0**	**3**	**0**	**0**	**0**	**1**	**1**	**0**	**1**	**0**	**0**	**1**	**2**
	0,1,2 accurate																			
17	SBP	0	5	2	3	3	2	3	6	4	1	1	3	4	0	6	2	3	3	3
18	DBP	5	3	1	2	0	4	3	6	2	4	3	0	3	2	2	3	3	4	5
19	HR	2	3	1	6	0	1	0	3	3	4	0	3	4	3	4	2	1	6	3
20	**Total**	**7**	**11**	**4**	**11**	**3**	**7**	**6**	**15**	**9**	**9**	**4**	**6**	**11**	**5**	**12**	**7**	**7**	**13**	**11**

Notes:

Av. Difference = Measured - (Average Guessed or Dowsed) Values

Median Difference = Measured - (Median Guessed or dowsed) values

br = breathing technique chant = chanting technique

accurate by 6 or less = Number of participants with results close to the measured value by 6 or less

100% accurate = Number of participants with results matching the measured values

0, 1, 2 accurate = Number of participants with results close to the measured valaue by 0, 1, or 2

Table 21 Experiment 1b: Ease of Performance Self-Rated Results (Guessing/Dowsing - Small Group)

Experiment 1b - Small Group Guessing/Dowsing and Healing Self-Ratings July 2007

MU Metal Only, Neck Only, Chanting Only

	A	B	C	D	E	F	G	H	I	J	K	L	M	N\	O	P	Q	R	S	T	U
			Neck	Crown	Neck	Crown	No shield (after chant)	Neck - after chant	Neck-after chant	No shield (after br)	Neck-after br	Neck	Crown	Neck	Crown	Neck-after chant	Neck-after br	Neck	Crown	Neck-after chant	Neck-after br
User		**None**	**Mu 2.54 cm. (1 in.)**	**Mu 2.54 cm. (1 in.)**	**Mu 1.27 cm. (1/2 in.)**	**Mu 1.27 cm. (1/2 in.)**	**NO SHIELD**	**Mu 1.27 cm. (1/2 in.)**	**NO SHIELD**	**Mu 1.27 cm. (1/2 in.)**	**Co 2.54 cm. (1 in.)**	**Co 2.54 cm. (1 in.)**	**Co 1.27 cm. (1/2 in.)**	**Co 1.27 cm. (1/2 in.)**	**Co 1.27 cm. (1/2 in.)**	**Co 1.27 cm. (1/2 in.)**						
		GAA	**GAB**	NA	**GAE**	NA	**JHAA**	**JHAB**	**JHAC**	NA	NA	NA	NA	NA	NA	NA	NA	**GAH**	NA	**JHAD**	NA
Guessing / Dowsing																					
3		1	2	NA	3	NA	3	2	3	NA	NA							3	NA	3	NA
*5		2	1	NA	1	NA	3	1	3	NA	NA							1	NA	3	NA
*8		1	1	NA	2	NA	3	2	3	NA	NA							3	NA	3	NA
*13		2	0	NA	0	NA	2	1	1	NA	NA							2	NA	2	NA
Total		6	4	NA	6	NA	11	6	10	NA	NA							9	NA	11	NA
Average		1.50	1.00	NA	1.50	NA	2.75	1.50	2.50	NA	NA							2.25	NA	2.75	NA
STD DEV		0.58	0.82	NA	1.29	NA	0.50	0.58	1.00	NA	NA							0.96	NA	0.50	NA
STD ERR		0.29	0.41	NA	0.65	NA	0.25	0.29	0.50	NA	NA							0.48	NA	0.25	NA
Expected Ratings		**N/A**	**<2**		**<2, >D**		**>=2, >C, >F**	**>F, <H**	**>=2, >C, >F**									**>=2**		**>=2**	
Met Expectations?		**N**	**Y**		**Y, Y**		**Y, Y, Y**	**EQ F, Y**	**Y, Y, Y**									**Y**		**Y**	
#1s		2	2	NA	1	NA	0	2	1	NA	NA							1		0	
#0s		0	1	NA	1	NA	0	0	0	NA	NA							0		0	
# rated task more difficult		2	3	NA	2	NA	0	2	1	NA	NA							1		0	
#3s ie., who rated task as easier)		0	0	NA	1	NA	3	0	3	NA	NA							2		3	
% rating task more difficult		NA	75%	NA	50%	NA	0%	50%	25%	NA	NA							25%		0%	
% rating task easier		NA	0%	NA	25%	NA	75%	0%	75%	NA	NA							50%		75%	

Note: br = breathing technique; chant = chanting technique

Table 22 Experiment 1b: Accuracy Results (Guessing/Dowsing - Small Group)

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
			Neck		Neck		No shield (after chant)		Neck-after chant		Neck-after chant				Neck-after chant	
User	None		Mu 2.54 cm. (1 in.)		Mu 1.27 cm. (1/2 in.)		No Shield		Mu 2.54 cm. (1 in.)		Mu 1.27 cm. (1/2 in.)		No Shield			
	GAA		GAB		GAE		JHAA		JHAB		JHAC		GAH		JHAD	
Experiment 1b Small Group - Accuracy: Guessed/Dowsed Vital Sign (ALL) - Systolic BP																
Measured Value>>	121	DIFF	129	DIFF	117	DIFF	122	DIFF	123	DIFF	128	DIFF	116	DIFF	118	DIFF
**3	142	-21	138	-9	138	-21	136	-14	136	-13	139	-11	141	-25	142	-24
**5	96	25	85	53	148	-31	96	26	85	38	95	33	160	-44	75	43
**8	110	11	110	28	120	-3	100	22	110	13	140	-12	130	-14	165	-47
**13	113	8	132	6	128	-11	128	-6	123	0	128	0	126	-10	123	-5
Abs Average	115.3	16.3	116.3	24.0	133.5	16.5	115.0	17.0	113.5	16.0	125.5	14.0	139.3	23.3	126.3	29.8
DIFF STD DEV		8.1		21.6		12.2		8.9		15.9		13.8		15.2		19.3
DIFF STD ERR		4.0		10.8		6.1		4.4		7.9		6.9		7.6		9.7
Measured-Av (Mx)	5.75		12.75		16.5		7		9.5		2.5		23.3		8.3	
# accurate by =<6		0		1		1		1		1		1		0		1
# 100% accurate		0		0		0		0		1		1		0		0
0,1,2 accurate		0		0		0		0		1		1		0		0

Experiment 1b Small Group - Accuracy: Guessed/Dowsed Vital Sign (ALL) - Diastolic BP																
Measured Value>>	72	DIFF	73	DIFF	68	DIFF	81	DIFF	77	DIFF	66	DIFF	78	DIFF	74	DIFF
**3	78	-6	82	-9	81	-13	82	-1	84	-7	79	-13	76	2	79	-5
**5	108	-36	109	-27	95	-27	88	-7	77	0	61	5	72	6	71	3
**8	40	32	60	22	60	8	70	11	110	-33	110	-44	100	-22	110	-36
**13	82	-10	89	-7	84	-16	78	3	62	15	66	0	77	1	67	7
AbsAverage	77.0	21.0	85.0	16.3	80.0	16.0	79.5	5.5	83.3	13.8	79.0	15.5	81.3	7.8	81.8	12.8
DIFF STD DEV		13.2		8.5		7.0		3.8		12.3		17.1		8.4		13.5
DIFF STD ERR		6.6		4.2		3.5		1.9		6.2		8.5		4.2		6.7
Measured-Av (Mx)	5		12		12		1.5		6.25		13		3.3		7.8	
						0.0										
# accurate by =<6		1		0		0		2		1		2		2		2
# 100% accurate		0		0		0		0		1		1		0		0
0,1,2 accurate		0		0		0		1		1		1		2		0

Experiment 1b Small Group - Accuracy: Guessed/Dowsed Vital Sign (ALL) - HR																
Measured Value>>	61	DIFF	69	DIFF	62	DIFF	68	DIFF	60	DIFF	74	DIFF	70	DIFF	73	DIFF

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
			Neck		Neck		No shield (after chant)		Neck-after chant		Neck-after chant				Neck-after chant	
User	**None**		**Mu 2.54 cm. (1 in.)**		**Mu 1.27 cm. (1/2 in.)**		**No Shield**		**Mu 2.54 cm. (1 in.)**		**Mu 1.27 cm. (1/2 in.)**		**No Shield**			
	GAA		**GAB**		**GAE**		**JHAA**		**JHAB**		**JHAC**		**GAH**		**JHAD**	
**3	68	2	72	-3	69	-7	62	6	69	-9	65	9	67	3	64	9
**5	77	-16	68	4	65	-3	118	-50	90	-30	108	-34	97	-27	53	20
**8	80	-19	120	-48	40	22	50	18	60	0	40	34	40	30	60	13
**13	76	-15	74	-2	75	-13	77	-9	77	-17	74	0	76	-6	76	-3
Abs Average	75.3	16.3	83.5	14.3	62.3	16.5	76.8	17.0	74.0	16.0	71.8	14.0	70.0	0.0	63.3	30.0
Diff Std Dev		6.7		19.5		7.5		17.5		11.1		15.3		14.2		10.4
Diff Std Err		3.3		9.7		3.8		8.8		5.5		7.6		7.1		5.2
Measured-Av (Mx)	14.25		14.5		0.25		8.75		14		2.25		0.0		9.8	
# accurate by =<6		1		3		2		1		1		1		2		1
# 100% accurate		0		0		0		0		1		1		0		0
0,1,2 accurate		0		2		1		0		1		1		1		0
Total # accurate by =<6		2		4		3		4		3		4		4		4
Total # 100% accurate		0		0		0		0		3		3		0		0
Total 0,1,2 accurate		0		2		0		1		3		3		3		0
Abs Total = Sum (Mx)	25		39.25		28.75		17.25		29.75		17.75		26.5		25.75	
Grand Average (Mx)	8.3		13.1		9.6		5.8		9.9		5.9		8.8		8.6	

Note: br = breathing technique; chant = chanting technique

Table 23 Experiment 1a: Ease of Performance Results - Guessing/Dowsing Results - Detail

Experiment 1 - Calgary 2007 (GUESSING-DOWSING-All Participants)

A	B	C	DAC	E	F	G	H	I	J	K	L	M	N, N	O	P	Q	R	S	T
		Neck	Crown	Neck	Crown	No shield (after chant)	Neck-after chant	No shield (after br)	Neck-after br	Neck	Crown	Neck	Crown	Neck-after chant	Neck-after br	Neck	Crown	Neck-after chant	Neck-after br
User	None	Mu 2.54 cm. (1 in.)	Mu 2.54 cm. (1 in.)	Mu 1.27 cm. (1/2 in.)	Mu 1.27 cm. (1/2 in.)	NO SHIELD	Mu 1.27 cm. (1/2 in.)	NO SHIELD	Mu 1.27 cm. (1/2 in.)	Co 2.54 cm. (1 in.)	Co 2.54 cm. (1 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	NO SHIELD			
	DAA	DAB	DAC	DAD	DAE		EAB		HAB	DAF	DAG	DAJ	DAK	EAD	HAD	DAH	DAI	EAC	HAC
18	2	3	2	3	2	2	2	2	1	2	2	2	3	2	2	3	1	3	2
22	2	2	3	3	2	3	3	2	3	3	3	1	2	3	3	3	3	3	3
23	2	2	3	3	2	2	3	2	2	3	3	3	3	3	2	3	3	2	2
24	2	3	3	1	1	2	3	2	3	1	2	0	1	2	2	3	3	2	1
25	2	3	1	1	3	3	3	3	3	2	3	2	3	3	2	2	3	2	3
27	2	3	1	2	2	3	2	3	1	2	3	1	1	1	3	2	3	1	2
29	2	1	1	2	2	3	3	3	3	2	2	2	2	3	3	2	2	2	3
30	2	2	1	1	2	3	2	3	3	1	2	2	2	2	3	2	2	2	3
32	2	3	2	1	2	3	3	2	3	3	1	3	1	3	3	2	1	3	3
33	2	3	3	2	1	2	2	2	2	2	1	1	1	3	3	3	2	1	3
35	2	1	2	1	2	2	2	2	2	3	3	2	2	2	2	2	2	1	2
37	2	1	2	1	3	2	2	2	2	2	1	2	3	3	3	2	3	2	3
*1	2	1	2	1	0	3	3	3	3	3	3	3	1	1	3	2	1	1	3
*10	2	1	2	3	3	2	3	2	2	2	2	x	x	x	2	2	x	3	2
*11	2	0	0	0	3	3	2	3	3	3	3	0	2	2	3	3	3	2	3
*13	2	1	1	2	1	2	3	2	3	1	1	2	2	1	3	2	2	2	2
*15	2	3	3	3	3	2	2	2	2	3	2	2	2	2	2	3	2	2	2
*2	2	3	2	2	0	3	2	2	2	3	3	2	3	2	2	2	2	2	2
*3	2	2	2	3	0	3	2	3	1	1	3	2	3	1	2	1	2	3	0
*5	2	1	3	3	1	1	3	1	1	1	3	1	3	3	3	3	1	3	1
*7	2	2	0	3	2	2	3	2	3	3	3	3	1	3	3	0	3	1	1
*9	2	3	2	3	3	2	3	3	3	3	3	3	3	3	3	2	3	3	3
20	2	2	3	3	3	2	2	2	3	2	2	3	3	3	3	3	3	2	3
Total	46	46	44	47	43	55	58	53	54	51	54	42	47	51	60	52	50	48	52
AV	2.0	2.0	1.9	2.0	1.9	2.4	2.5	2.3	2.3	2.2	2.3	1.9	2.1	2.3	2.6	2.3	2.2	2.1	2.3
Std Dev	0.0	1.0	0.9	1.0	1.0	0.6	0.5	0.6	0.8	0.8	0.8	0.9	0.8	0.8	0.5	0.8	0.8	0.7	0.9
Std Err	N/A	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2
Expected Ratings	n/a	<2	<2	<2	<2	>2 & >C	>E, <G	>2 & >C	>E, <I	<2	<2	<2, >K	<2, >L	>M	>M	>=2	>=2	>=2	>=2
Met Expectations?	n/a	Y	Y	Y	Y	Y, Y	Y, N	Y, Y	Y, N	N	N	Y, N	N, N	Y	Y	Y	Y	Y	Y
out - 21	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
out-*14	2	3	3	3	3	2	3	2	3	3	3	3	3	3					
out-*4	2	3	2	2	2	2													
out-19	2	2	2	2	2	2	2	x	2	2	2	2	2	2	2	2	2	2	2
out-28	3	2	2	2	2	x	2	x	2	2	2	2	3	3	3	2	2	3	3

Experiment 1 - Calgary 2007 (GUESSING-DOWSING-All Participants)

A	B	C	DAC	E	F	G	H	I	J	K	L	M	N, N	O	P	Q	R	S	T
		Neck	Crown	Neck	Crown	No shield (after chant)	Neck-after chant	No shield (after br)	Neck-after br	Neck	Crown	Neck	Crown	Neck-after chant	Neck-after br	Neck	Crown	Neck-after chant	Neck-after br
User	None	Mu 2.54 cm. (1 in.)	Mu 2.54 cm. (1 in.)	Mu 1.27 cm. (1/2 in.)	Mu 1.27 cm. (1/2 in.)	NO SHIELD	Mu 1.27 cm. (1/2 in.)	NO SHIELD	Mu 1.27 cm. (1/2 in.)	Co 2.54 cm. (1 in.)	Co 2.54 cm. (1 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	NO SHIELD			
	DAA	DAB	DAC	DAD	DAE		EAB		HAB	DAF	DAG	DAJ	DAK	EAD	HAD	DAH	DAI	EAC	HAC
out-34	3	2	2	2	2					2	2	2	2			0	0		
#1s		7	5	7	4	1	0	1	4	5	4	4	6	4	0	1	4	5	3
#0s		1	2	1	3	0	0	0	0	0	0	2	0	0	0	1	0	0	1
Rated task more difficult		8	7	8	7	1	0	1	4	5	4	6	6	4	0	2	4	5	4
Rated task more difficult		8	7	8	7	1	0	1	4	5	4	6	6	4	0	2	4	5	4
% rated task more difficult		**35%**	**30%**	**35%**	**30%**	**4%**	**0%**	**4%**	**17%**	**22%**	**17%**	**26%**	**26%**	**17%**	**0%**	**9%**	**17%**	**22%**	**17%**
		35%	**30%**	**35%**	**30%**	**4%**	**0%**	**4%**	**17%**	**22%**	**17%**	**26%**	**26%**	**17%**	**0%**	**9%**	**17%**	**22%**	**17%**
#3s (who rated task as easier)		9	7	10	7	10	12	8	12	10	12	6	9	11	14	9	10	7	11
% rated task easier		**39%**	**30%**	**43%**	**30%**	**43%**	**52%**	**35%**	**52%**	**43%**	**52%**	**26%**	**39%**	**48%**	**61%**	**39%**	**43%**	**30%**	**48%**
		39%	30%	43%	30%	43%	52%	35%	52%	43%	52%	26%	39%	48%	61%	39%	43%	30%	48%
										<---------- Poor Magnetic Shield? ---------->									

* = Dowsers (10)

Total Participants = 23 + 6 outliers 90% confidence interval alpha=0.1 two-tailed df=22 plus-minus 1.714

Note: br = breathing technique; chant = chanting technique

Table 24 Experiment 1a: Ease of Performance Guessing/Dowsing Results – Detail (Non-Dowsers Only)

Experiment 1 a - Calgary (GUESSING-DOWSING)-07 - Non-Dowsers

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
		Neck	Crown	Neck	Crown	No shield (after chant)	Neck-after chant	No shield (after br)	Neck-after br	Neck	Crown	Neck	Crown	Neck-after chant	Neck-after br	Neck	Crown	Neck-after chant	Neck-after br
User	None	Mu 2.54 cm. (1 in.)	Mu 2.54 cm. (1 in.)	Mu 1.27 cm. (1/2 in.)	Mu 1.27 cm. (1/2 in.)	NO SHIELD	Mu 1.27 cm. (1/2 in.)	NO SHIELD	Mu 1.27 cm. (1/2 in.)	Co 2.54 cm. (1 in.)	Co 2.54 cm. (1 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	NO SHIELD			
	DAA	DAB	DAC	DAD	DAE		EAB		HAB	DAF	DAG	DAJ	DAK	EAD	HAD	DAH	DAI	EAC	HAC
18	2	3	2	3	0	2	2	2	1	2	2	2	3	2	2	3	1	3	2
22	2	2	3	3	2	3	3	2	3	3	3	1	2	3	3	3	3	3	3
23	2	2	3	3	2	2	3	2	2	3	3	3	3	3	2	3	3	2	2
24	2	3	3	1	1	2	3	2	3	1	2	0	1	2	2	3	3	2	1
25	2	3	1	1	3	3	3	3	3	2	3	2	3	3	2	2	3	2	3
27	2	3	1	2	2	3	2	3	1	2	3	1	1	1	3	2	3	1	2
29	2	1	1	2	2	3	3	3	3	2	2	2	2	3	3	2	2	2	3
30	2	2	1	1	2	3	2	3	3	1	2	2	2	2	3	2	2	2	3
32	2	3	2	1	2	3	3	2	3	3	1	3	1	3	3	2	1	3	3
33	2	3	3	2	1	2	2	2	2	2	1	1	1	3	3	3	2	1	3
35	2	1	2	1	2	2	2	2	2	3	3	2	2	2	2	2	2	1	2
37	2	1	2	1	3	2	2	2	2	2	1	2	3	3	3	2	3	2	3
20	2	2	3	3	3	2	2	2	3	2	2	3	3	3	3	3	3	2	3
Total	26	29	27	24	43	32	32	30	31	28	28	24	27	33	34	32	31	26	33
AV	2.0	2.2	2.1	1.8	1.9	2.5	2.5	2.3	2.4	2.2	2.2	1.8	2.1	2.5	2.6	2.5	2.4	2.0	2.5
STD DEV	0.0	0.8	0.9	0.9	0.0	0.5	0.5	0.5	0.8	0.7	0.8	0.9	0.9	0.7	0.5	0.5	0.8	0.7	0.7
STD ERR	NA	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2
Expected Ratings	n/a	<2	<2	<2	<2	>2 & >E	>E, <G	>2 &E	>E, >I	<2	<2	<2, >K	<2, >L	>M	>M	>=2	>=2	>=2	>=2
Met Expectations?	n/a	Y	Y	Y	Y	Y, Y	Y, EQ	Y, Y	Y	N	N	Y, N	N, N	Y	Y	Y	Y	Y	Y
#1s		3	4	6	2	0	0	0	2	2	2	3	4	1	0	0	2	3	1
#0s		0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Rated task more difficult		3	4	6	3	0	0	0	2	2	2	4	4	1					
% rated task more difficult		23%	31%	46%	23%	0%	0%	0%	15%	15%	15%								
#3s ie., who rated task as easier)		6	5	4	3	6	6	4	7	4	5	3	4	8	8	6	7	3	8
% rated task easier		46%	38%	31%	23%	46%	46%	31%	54%	31%	38%	23%	31%	62%	62%	46%	54%	23%	62%

Note: br = breathing technique; chant = chanting technique

<---------- Poor Magnetic Shield? ---------->

Table 25 Experiment 1a: Ease of Performance Guessing/Dowsing Results – Detail (Dowsers Only)

Experiment 1 a - Calgary (GUESSING-DOWSING - DOWSERS ONLY)-2007

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
		Neck	Crown	Neck	Crown	No shield (after chant)	Neck-after chant	No shield (after br)	Neck-after br	Neck	Crown	Neck	Crown	Neck-after chant	Neck-after br	Neck	Crown	Neck-after chant	Neck-after br
User	None	Mu 2.54 cm. (1 in.)	Mu 2.54 cm. (1 in.)	Mu 1.27 cm. (1/2 in.)	Mu 1.27 cm. (1/2 in.)	NO SHIELD	Mu 1.27 cm. (1/2 in.)	NO SHIELD	Mu 1.27 cm. (1/2 in.)	Co 2.54 cm. (1 in.)	Co 2.54 cm. (1 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	Co 1.27 cm. (1/2 in.)	NO SHIELD			
	DAA	DAB	DAC	DAD	DAE		EAB		HAB	DAF	DAG	DAJ	DAK	EAD	HAD	DAH	DAI	EAC	HAC
*1	2	1	2	1	0	3	3	3	3	3	3	3	1	1	3	2	1	1	3
*10	2	1	2	3	3	2	3	2	2	2	2	x	x	x	2	2	x	3	2
*11	2	0	0	0	3	3	2	3	3	3	3	0	2	2	3	3	3	2	3
*13	2	1	1	2	1	2	3	2	3	1	1	2	2	1	3	2	2	2	2
*15	2	3	3	3	3	2	2	2	2	3	2	2	2	2	2	3	2	2	2
*2	2	3	2	2	0	3	2	2	2	3	3	2	3	2	2	2	2	2	2
*3	2	2	2	3	0	3	2	3	1	1	3	2	3	1	2	1	2	3	0
*5	2	1	3	3	1	1	3	1	1	1	3	1	3	3	3	3	1	3	1
*7	2	2	0	3	2	2	3	2	3	3	3	3	1	3	3	0	3	1	1
*9	2	3	2	3	3	2	3	3	3	3	3	3	3	3	3	2	3	3	3
20	2	2	3	3	3	2	2	2	3	2	2	3	3	3	3	3	3	2	3
Total	22	19	20	26	19	25	28	25	26	25	28	21	23	21	29	23	22	24	22
AV	2	1.7	1.8	2.4	1.7	2.3	2.5	2.3	2.4	2.3	2.5	2.1	2.3	2.1	2.6	2.1	2.2	2.2	2.0
STD DEV	0	1.0	1.1	1.0	1.3	0.6	0.5	0.6	0.8	0.9	0.7	1.0	0.8	0.9	0.5	0.9	0.8	0.8	1.0
STD ERR	NA	0.3	0.3	0.3	0.4	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2	0.3	0.1	0.3	0.2	0.2	0.3
Expected Ratings	2	<2	<2	<2, >C	<2, >D	>2, >B	>2, >E, <G	>2 & >B	>2, >E, <I	<2	<2	<2, >K	<2, >L	>M	>M	>=2	>=2	>=2	>=2
Met Expectations?	Y	Y	Y	Y, Y	Y, N	Y, Y	Y, Y, N	Y	Y, EQ, N	N	N	N, N	N, N	EQ	Y	Y	Y	Y	Y
#1s		4	1	1	2	1		1	2	3	1	1	2	3		1	2	2	2
#0s		1	2	1	3							1				1			1
Rated task more difficult		5	3	2	5	1	0	1	2	3	1	2	2	3	0	2	2	2	3
% rated task more difficult		45%	27%	18%	45%	9%	0%	9%	18%	27%	9%	20%	20%	30%	0%	18%	20%	18%	27%
#3s ie., who rated task as easier)		3	3	7	5	4	6	4	5	6	7	4	5	4	7	4	3	4	4
% rated task easier		27%	27%	64%	45%	36%	55%	36%	45%	55%	64%	40%	50%	40%	64%	36%	30%	36%	36%

Note: br = breathing technique; chant = chanting technique

<---------- Poor Magnetic Shield? ---------->

Table 26 Experiment 1a: Accuracy Guessing/Dowsing Results – Detail (SB Pressure)

Experiment 1a - Accuracy: Guessed/Dowsed Vital Signs - Systolic BP

			Neck		Crown		Neck		Crown		No shield (after chant)		P		No shield (after br)		Neck-after br		Neck		Crown		Neck		Crown		Neck-after chant		Neck-after br		Neck		Crow n		Neck-after chant
User	None		Mu 2.54 cm. (1 in.)		Mu 2.54 cm. (1 in.)		Mu 1.27 cm. (1/2 in.)		Mu 1.27 cm. (1/2 in.)		No Shield		Mu 1.27 cm. (1/2 in.)		No Shield		Mu 1.27 cm. (1/2 in.)		Co 2.54 cm. (1 in.)		Co 2.54 cm. (1 in.)		Co 1.27 cm. (1/2 in.)		Co 1.27 cm. (1/2 in.)		Co 1.27 cm. (1/2 in.)		Co 1.27 cm. (1/2 in.)						
	DAA		DAB		DAC		DAD		DAE		EAA		EAB		HAA		HAB		DAF		DAG		DAJ		DAK		EAD		HAD		DAH		DAI		EAC
Measured Value	126	DIFF	125	DIFF	131	Diff	121	Diff	120	Diff	137	Diff	131	Diff	120	Diff	130	DIF F	131	Diff	123	Diff	120	Diff	130	Diff	139	Diff	118	Diff	130	Diff	136	Diff	135
18	132	-6	128	0	136	-5	141	-20	148	-28	118	19	127	4	143	-23	128	2	128	3	150	-27	146	-26	118	12	122	17	130	-12	133	-3	137	-1	118
21	110	16	90	38	112	19	75	46	90	30	86	51	66	65	86	34	92	38	89	42	92	31	87	33	130	0	102	37	96	22	98	32	100	36	76
22	140	-14	124	4	144	-13	108	13	98	22	125	12	109	22	118	2	136	-6	125	6	119	4	121	-1	148	-18	135	4	128	-10	121	9	145	-9	114
23	121	5	135	-7	117	14	112	9	111	9	112	25	132	-1	92	28	127	3	123	8	103	20	109	11	105	25	111	28	120	-2	109	21	112	24	106
24	132	-6	136	-8	140	-9	123	-2	131	-11	133	4	121	10	135	-15	128	2	141	-10	135	-12	cannot	NA	132	-2	128	11	137	-19	124	6	124	12	133
25	138	-12	116	12	148	-17	118	3	112	8	112	25	140	-9	134	-14	122	8	134	-3	110	13	126	-6	140	-10	136	3	136	-18	130	0	114	22	124
27	120	6	110	18	120	11	140	-19	142	-22	118	19	140	-9	120	0	132	-2	134	-3	110	13	110	10	140	-10	122	17	120	-2	118	12	120	16	112
29	120	6	140	-12	115	16	130	-9	136	-16	115	22	122	9	120	0	90	40	126	5	139	-16	120	0	122	8	122	17	130	-12	124	6	132	4	128
30	90	36	100	28	110	21	120	1	110	10	110	27	110	21	110	10	110	20	110	21	115	8	120	0	115	15	110	29	120	-2	90	40	140	-4	120
32	100	26	120	8	110	21	80	41	90	30	95	42	100	31	90	30	95	35	100	31	140	-17	90	30	100	30	90	49	105	13	120	10	80	56	80
33	115	11	130	-2	114	17	125	-4	117	3	117	20	121	10	120	0	95	35	140	-9	127	-4	93	27	125	5	142	-3	119	-1	116	14	111	25	115
35	110	16	136	-8	117	14	123	-2	147	-27	139	-2	90	41	133	-13	109	21	101	30	111	12	108	12	112	18	97	42	128	-10	129	1	107	29	100
37	103	23	105	23	120	11	91	30	140	-20	104	33	117	14	130	-10	115	15	136	-5	116	7	119	1	111	19	122	17	117	1	140	-10	130	6	136
*1	70	56	65	63	70	61	90	31	75	45	85	52	105	26	95	25	85	45	52	79	70	53	90	30	95	35	70	69	80	38	110	20	95	41	101
*10	120	6	130	-2	115	16	135	-14	105	15	96	41	130	1	120	0	130	0	95	36	135	-12	x	NA	x	NA	120	19	125	-7	120	10	x	NA	120
*11	120	6	120	8	120	11	90	31	120	0	120	17	130	1	90	30	120	10	120	11	120	3	90	30	90	40	90	49	200	-82	90	40	90	46	130
*13	122	4	128	0	131	0	128	-7	132	-12	135	2	119	12	101	19	120	10	92	39	98	25	132	-12	131	-1	135	4	122	-4	125	5	102	34	127
*14	90	36	80	48	70	61	70	51	85	35	98	39	90	41	140	-20	98	32	95	36	109	14	78	42	98	32	90	49	148	-30	96	34	70	66	98
*15	103	23	100	28	129	2	117	4	99	21	118	19	146	-15	93	27	94	36	96	35	115	8	98	22	102	28	135	4	132	-14	104	26	95	41	135
*2	120	6	130	-2	123	8	140	-19	135	-15	110	27	100	31	100	20	90	40	125	6	122	1	135	-15	129	1	80	59	88	30	120	10	133	3	90
*3	120	6	130	-2	110	21	150	-29	160	-40	108	29	140	-9	110	10	118	12	130	1	140	-17	180	-60	134	-4	130	9	188	-70	100	30	134	2	138
*5	90	36	90	38	120	11	150	-29	120	0	90	47	90	41	90	30	110	20	90	41	90	33	90	30	110	20	120	19	120	-2	120	10	120	16	120
*7	99	27	101	27	145	-14	95	26	145	-25	95	42	95	36	120	0	90	40	98	33	100	23	125	-5	100	30	128	11	121	-3	111	19	140	-4	140
*9	90	36	100	28	120	11	130	-9	100	20	120	17	100	31	90	30	90	40	90	41	150	-27	100	20	90	40	100	39	95	23	95	35	130	6	130
20	90	9	99	1	107	38	109	-14	120	25	127	-32	102	-7	95	25	112	18	112	19	114	9	109	11	94	36	123	16	107	11	112	18	106	30	109
AV	112.0	17.4	114.8	0.0	118.5	17.7	115.6	18.5	118.7	19.6	111.4	26.6	113.7	19.9	111.0	16.6	109.4	21.2	111.3	22.1	117.2	16.4		18.9		18.3	114.4	24.8	124.5	17.5	114.2	16.8		22.2	116.3

Experiment 1a - Accuracy: Guessed/Dowsed Vital Signs - Systolic BP

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
				Neck		Crown		Neck		Crown		No shield (after chant)		P		No shield (after br)		Neck-after br		Neck		Crown		Neck		Crown		Neck-after chant		Neck-after br		Neck		Crown		Neck-after chant	
User		None		Mu 2.54 cm. (1 in.)		Mu 2.54 cm. (1 in.)		Mu 1.27 cm. (1/2 in.)		Mu 1.27 cm. (1/2 in.)		No Shield		Mu 1.27 cm. (1/2 in.)		No Shield		Mu 1.27 cm. (1/2 in.)		Co 2.54 cm. (1 in.)		Co 2.54 cm. (1 in.)		Co 1.27 cm. (1/2 in.)		Co 1.27 cm. (1/2 in.)		Co 1.27 cm. (1/2 in.)		Co 1.27 cm. (1/2 in.)						
		DAA		DAB		DAC		DAD		DAE		EAA		EAB		HAA		HAB		DAF		DAG		DAJ		DAK		EAD		HAD		DAH		DAI		EAC
Measured-AV		14		10		12		5		1		26		17		9		21		20		6		120		130		25		-6		16		136		19
median		115		120		120		120		118.5		112		118		114		110		115		115.5		109.5		115		121		121.5		119		120		120
Measured-Median		11		5		11		1		1.5		25		13		6		20		16		7.5		10.5		15		18		-3.5		11		16		15
Diff Std Dev			13.9		13.9		15.0		14.5		11.7		14.3		16.2		11.6		15.4		19.1		11.7		23.1		17.4		19.2		20.4		12.3		20.3	
Diff Std Err			2.8		2.8		3.0		2.9		2.3		2.9		3.2		2.3		3.1		3.8		2.3		4.8		3.6		3.8		4.1		2.5		4.1	
# accurate by +/- 6 or less			10		7		4		6		5		3		4		6		6		9		5		4		6		4		8		6		9	
# 100% accurate			0		1		1		0		3		0		0		5		1		0		0		2		0		0		0		1		0	
0,1,2 accurate			0		5		2		3		3		2		3		6		4		1		1		3		4		0		6		2		3	
Outlier *4		2																																		

Note: br = breathing technique; chant = chanting technique

Table 27 Experiment 1a: Accuracy Guessing/Dowsing Results – Detail (DB Pressure)

Experiment 1 - Accuracy: Guessed/Dowsed Vital Sign (ALL) - Diastolic BP

A	B	C	DAB	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM
			Neck		Crown		Neck		Crown		No shield (after chant)		Neck-after chant		No shield (after br)		Neck-after br		Neck		Crown		Neck		Crown		Neck-after chant		Neck-after br		Neck		Crown		Neck-after chant		Neck-after br	
User	None		Mu 2.54 cm. (1 in.)		Mu 2.54 cm. (1 in.)		Mu 1.27 cm. (1/2 in.)		Mu 1.27 cm. (1/2 in.)		No Shield		Mu 1.27 cm. (1/2 in.)		No Shield		Mu 1.27 cm. (1/2 in.)		Co 2.54 cm. (1 in.)		Co 2.54 cm. (1 in.)		Co 1.27 cm. (1/2 in.)		Co 1.27 cm. (1/2 in.)		Co 1.27 cm. (1/2 in.)		Co 1.27 cm. (1/2 in.)									
	DAA		DAB		DAC		DAD		DAE		EAA		EAB		HAA		HAB		DAF		DAG		DAJ		DAK		EAD		HAD		DAH		DAI		EAC		HAC	
Measured Value	82	DIFF	71	DIFF	71	DIFF	66	DIFF	73	DIFF	88	DIFF	78	DIFF	72	DIFF	79	DIFF	73	DIFF	60	DIFF	63	DIFF	80	DIFF	84	DIFF	77	DIFF	67	DIFF	75	DIFF	77	DIFF	80	DIFF
18	83	-1	73	-2	76	-5	82	-16	86	-13	72	16	62	16	72	0	68	11	68	5	83	-23	72	-9	60	20	68	16	72	5	82	-15	68	7	73	4	62	18
20	110	-28	103	-32	77	-6	67	-1	90	-17	99	-11	97	-19	102	-30	60	19	97	-24	77	-17	58	5	113	-33	99	-15	91	-14	94	-27	97	-22	123	-46	104	-24
21	60	22	70	1	85	-14	100	-34	95	-22	90	-2	92	-14	72	0	80	-1	106	-33	100	-40	97	-34	66	14	85	-1	77	0	92	-25	64	11	88	-11	66	14
22	90	-8	75	-4	92	-21	55	11	70	3	75	13	63	15	80	-8	75	4	80	-7	71	-11	72	-9	80	0	85	-1	89	-12	74	-7	95	-20	78	-1	67	13
23	97	-15	98	-27	91	-20	72	-6	87	-14	67	21	94	-16	56	16	93	-14	99	-26	62	-2	83	-20	72	8	89	-5	81	-4	73	-6	94	-19	61	16	99	-19
24	86	-4	87	-16	96	-25	81	-15	86	-13	86	2	84	-6	78	-6	86	-7	78	-5	75	-15	78	-15	91	-11	80	4	86	-9	74	-7	86	-11	91	-14	91	-11
25	92	-87	72	-67	102	-97	80	-75	64	-59	60	-55	96	-91	92	-87	84	-79	76	-71	64	-59	71	-66	92	-87	92	-87	76	-71	90	-85	78	-73	68	-63	70	-65
27	80	2	79	-8	70	1	90	-24	95	-22	79	9	90	-12	80	-8	90	-11	75	-2	65	-5	60	3	80	0	78	6	80	-3	68	-1		75	80	-3	79	1
29	80	2	86	-15	76	-5	90	-24	84	-11	76	12	80	-2	78	-6	60	19	72	1	78	-18	80	-17	68	12	78	6	75	2	80	-13	76	-1	6	71	90	-10
30	110	-28	70	1	80	-9	70	-4	85	-12	80	8	80	-2	70	2	70	9	70	3	85	-25	85	-22	70	10	80	4	80	-3	100	-33	70	5	70	7	70	10
32	75	7	60	11	80	-9	100	-34	105	-32	60	28	70	8	50	22	100	-21	80	-7	110	-50	100	-37	60	20	100	-16	110	-33	60	7	100	-25	75	2	102	-22
33	80	2	85	-14	75	-4	79	-13	81	-8	72	16	79	-1	75	-3	56	23	78	-5	72	-12	66	-3	69	11	93	-9	83	-6	65	2	57	18	65	12	72	8
35	65	17	77	-6	97	-26	79	-13	98	-25	81	7	51	27	56	16	101	-22	72	1	69	-9	70	-7	93	-13	104	-20	85	-8	92	-25	91	-16	87	-10	106	-26
37	65	17	84	-13	87	-16	106	-40	55	18	77	11	84	-6	70	2	63	16	65	8	100	-40	85	-22	77	3	91	-7	59	18	71	-4	74	1	61	16	91	-11
*1	65	17	80	-9	85	-14	105	-39	60	13	95	-7	90	-12	80	-8	75	4	70	3	75	-15	x	NA	90	-10	100	-16	95	-18	74	-7	70	5	70	7	78	2
*10	100	-18	90	-19	80	-9	110	-44	65	8	100	-12	75	3	95	-23	75	4	65	8	60	0	x	NA	x	NA	50	34	80	-3	50	17	x	NA	50	27	95	-15
*11	70	12	90	-19	100	-29	100	-34	78	-5	90	-2	100	-22	70	2	70	9	70	3	70	-10	100	-37	100	-20	100	-16	100	-23	90	-23	80	-5	100	-23	100	-20
*13	72	10	78	-7	80	-9	68	-2	78	-5	67	21	62	16	72	0	67	12	57	16	78	-18	76	-13	82	-2	62	22	55	22	72	-5	71	4	55	22	71	9
*14	110	-28	90	-19	65	6	80	-14	90	-17	110	-22	98	-20	80	-8	66	13	106	-33	110	-50	96	-33	108	-28	68	16	108	-31	110	-43	90	-15	110	-33	96	-16
*15	58	24	94	-23	50	21	56	10	56	17	63	25	62	16	76	-4	53	26	75	-2	109	-49	57	6	68	12	55	29	60	17	55	12	66	9	56	21	65	15
*2	80	2	90	-19	93	-22	95	-29	92	-19	87	1	85	-7	98	-26	75	4	80	-7	72	-12	71	-8	74	6	72	12	90	-13	80	-13	84	-9	75	2	78	2
*3	70	12	78	-7	68	3	82	-16	110	-37	66	22	84	-6	80	-8	76	3	76	-3	88	-28	92	-29	67	13	70	14	96	-19	60	7	76	-1	77	0	82	-2
*5	50	32	50	21	60	11	100	-34	90	-17	60	28	60	18	60	12	80	-1	60	13	60	0	50	13	60	20	80	4	80	-3	80	-13	80	-5	80	-3	80	0
*7	90	-8	98	-27	75	-4	99	-33	55	18	55	33	68	10	110	-38	92	-13	85	-12	65	-5	99	-36	100	-20	55	29	99	-22	65	2	100	-25	98	-21	66	14
*9	90	-8	80	-9	80	-9	80	-14	80	-7	60	28	100	-22	85	-13	90	-11	70	3	100	-40	50	13	70	10	70	14	55	22	70	-3	80	-5	70	7	60	20
AV	81	16	81	16	81	16	85	23	81	17	77	16	80	15	77	14	76	14	77	12	80	22	77	20	80	16	80	16	82	15	77	16	80	16	75	18	82	15

Experiment 1 - Accuracy: Guessed/Dowsed Vital Sign (ALL) - Diastolic BP

A	B	C	DAB	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM
			Neck		Crown		Neck		Crown		No shield (after chant)		Neck-after chant		No shield (after br)		Neck-after br		Neck		Crown		Neck		Crown		Neck-after chant		Neck-after br		Neck		Crown		Neck-after chant		Neck-after br	
User	**None**		**Mu 2.54 cm. (1 in.)**		**Mu 2.54 cm. (1 in.)**		**Mu 1.27 cm. (1/2 in.)**		**Mu 1.27 cm. (1/2 in.)**		**No Shield**		**Mu 1.27 cm. (1/2 in.)**		**No Shield**		**Mu 1.27 cm. (1/2 in.)**		**Co 2.54 cm. (1 in.)**		**Co 2.54 cm. (1 in.)**		**Co 1.27 cm. (1/2 in.)**		**Co 1.27 cm. (1/2 in.)**		**Co 1.27 cm. (1/2 in.)**		**Co 1.27 cm. (1/2 in.)**									
Measured-AV	1		-10		-10		-19		-8		11		-2		-5		3		-4		-20		-14		0		4		-5		-10		-5		2		-2	
median	80		80		80		82		85		76		84		78		75		75		75		76		75.5		80		81		74		80		75		79	
Measured-Median	2		-9		-9		-16		-12		12		-6		-6		4		-2		-15		-13		4.5		4		-4		-7		-5		2		1	
Diff Std Dev		17.5		13.6		18.7		16.7		11.9		12.3		17.3		18.3		15.3		15.6		17.6		16.3		17.2		17.2		14.9		17.9		19.3		18.6		12.8
Diff Std Err		3.5		2.7		3.7		3.3		2.4		2.5		3.5		3.7		3.1		3.1		3.5		3.4		3.5		3.4		3.0		3.6		3.9		3.7		2.6
# accurate by +/- 6 or less		5		4		4		3		1		5		7		9		9		11		6		6		5		9		10		7		11		7		6
# 100% accurate		0		0		0		0		0		0		0		3		0		0		1		0		2		0		1		0		0		1		1
0,1,2 accurate		5		3		1		2		0		4		3		6		2		4		3		0		3		2		2		3		3		4		5
Outlier *4	2																																				x	

Note: br = breathing technique; chant = chanting technique

Table 28 Experiment 1a: Accuracy Guessing/Dowsing Results – Detail (Heart Rate)

Experiment 1 - Accuracy: Guessed/Dowsed Vital Signs - Heart Rate

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
			Neck		Crown		Neck		Crown		No shield (after chant)		Neck-after chant		No shield (after br)		Neck-after br		Neck		Crown		Neck		Crown		Neck-after chant		Neck-after br		Neck	
User	None		Mu 2.54 cm. (1 in.)		Mu 2.54 cm. (1 in.)		Mu 1.27 cm. (1/2 in.)		Mu 1.27 cm. (1/2 in.)		No Shield		Mu 1.27 cm. (1/2 in.)		No Shield		Mu 1.27 cm. (1/2 in.)		Co 2.54 cm. (1 in.)		Co 2.54 cm. (1 in.)		Co 1.27 cm. (1/2 in.)		Co 1.27 cm. (1/2 in.)		Co 1.27 cm. (1/2 in.)		Co 1.27 cm. (1/2 in.)			
	DAA		DAB		DAC		DAD		DAE		EAA		EAB		HAA		HAB		DAF		DAG		DAJ		DAK		EAD		HAD		DAH	
Measured Value>>>	68	DIFF	86	DIFF	58	DIFF	80	DIFF	60	DIFF	82	DIFF	81	DIFF	76	DIFF	71	V	69	DIFF	57	DIFF	61	DIFF	84	DIFF	81	DIFF	82	DIFF	75	DIF
18	81	-13	62	24	68	-10	80	0	76	-16	68	14	69	12	70	6	66	5	63	6	85	-28	70	-9	58	26	63	18	74	8	67	8
20	120	-52	77	9	66	-8	92	-12	84	-24	108	-26	98	-17	59	17	69	2	67	2	87	-30	62	-1	50	34	49	32	62	20	67	8
21	88	-20	102	-16	89	-31	80	0	88	-28	86	-4	88	-7	90	-14	88	-17	92	-23	86	-29	65	-4	87	-3	82	-1	82	0	100	-2
22	88	-20	67	19	76	-18	67	13	70	-10	72	10	89	-8	67	9	50	21	69	0	66	-9	73	-12	91	-7	81	0	69	13	82	-7
23	69	-1	73	13	102	-44	87	-7	107	-47	x	NA	93	-12	72	4	102	-31	112	-43	74	-17	86	-25	112	-28	105	-24	62	20	52	2
24	74	-6	74	12	74	-16	68	12	65	-5	72	10	70	11	72	4	67	4	74	-5	66	-9	75	-14	cannot	NA	70	11	72	10	68	7
25	80	-12	88	-2	64	-6	72	8	88	-28	72	10	60	21	64	12	72	-1	64	5	88	-31	68	-7	76	8	112	-31	88	-6	76	-1
27	72	-4	68	18	65	-7	101	-21	90	-30	70	12	95	-14	75	1	82	-11	70	-1	66	-9	68	-7	88	-4	68	13	65	17	63	1
29	96	-28	77	9	66	-8	88	-8	76	-16	76	6	58	23	90	-14	92	-21	68	1	60	-3	70	-9	68	16	84	-3	80	2	72	3
30	80	-12	85	1	80	-22	90	-10	75	-15	85	-3	85	-4	80	-4	85	-14	80	-11	90	-33	80	-19	85	-1	75	6	80	2	80	-5
32	60	8	100	-14	115	-57	75	5	110	-50	75	7	60	21	50	26	60	11	60	9	70	-13	75	-14	80	4	60	21	62	20	50	2
33	77	-9	82	4	88	-30	78	2	69	-9	69	13	84	-3	69	7	72	-1	81	-12	62	-5	118	-57	83	1	87	-6	77	5	70	5
35	85	-17	80	6	90	-32	83	-3	88	-28	116	-34	100	-19	63	13	97	-26	81	-12	74	-17	88	-27	117	-33	78	3	93	-11	86	-1
37	77	-9	87	-1	65	-7	80	0	65	-5	80	2	99	-18	50	26	100	-29	127	-58	61	-4	81	-20	61	23	75	6	59	23	77	-2
*1	52	16	45	41	90	-32	70	10	65	-5	90	-8	85	-4	45	31	60	11	85	-16	100	-43	80	-19	95	-11	110	-29	70	12	85	-1
*10	55	13	50	36	85	-27	60	20	115	-55	105	-23	70	11	100	-24	55	16	65	4	85	-28	x	NA	x	NA	50	31	75	7	50	2
*11	70	-2	70	16	90	-32	90	-10	120	-60	125	-43	130	-49	70	6	75	-4	80	-11	80	-23	65	-4	70	14	100	-19	145	-63	65	1
*13	80	-12	71	15	78	-20	76	4	98	-38	70	12	75	6	81	-5	83	-12	63	6	78	-21	90	-29	92	-8	77	4	76	6	68	7
*14	80	-12	68	18	108	-50	90	-10	95	-35	118	-36	110	-29	75	1	78	-7	110	-41	141	-84	150	-89	110	-26	113	-32	87	-5	140	-6
*15	110	-42	110	-24	57	1	58	22	90	-30	79	3	53	28	54	22	82	-11	88	-19	61	-4	61	0	100	-16	53	28	104	-22	57	1
*2	60	8	75	11	70	-12	80	0	77	-17	78	4	75	6	75	1	65	6	72	-3	90	-33	74	-13	85	-1	60	21	75	7	79	-4
*3	72	-4	68	18	80	-22	78	2	88	-28	60	22	58	23	70	6	67	4	66	3	76	-19	85	-24	82	2	64	17	72	10	58	1
*5	60	8	60	26	78	-20	90	-10	80	-20	60	22	70	11	80	-4	80	-9	60	9	60	-3	60	1	68	16	80	1	80	2	70	5

Experiment 1 - Accuracy: Guessed/Dowsed Vital Signs - Heart Rate

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
			Neck		Crown		Neck		Crown		No shield (after chant)		Neck-after chant		No shield (after br)		Neck-after br		Neck		Crown		Neck		Crown		Neck-after chant		Neck-after br		Neck	
User	**None**		**Mu 2.54 cm. (1 in.)**		**Mu 2.54 cm. (1 in.)**		**Mu 1.27 cm. (1/2 in.)**		**Mu 1.27 cm. (1/2 in.)**		**No Shield**		**Mu 1.27 cm. (1/2 in.)**		**No Shield**		**Mu 1.27 cm. (1/2 in.)**		**Co 2.54 cm. (1 in.)**		**Co 2.54 cm. (1 in.)**		**Co 1.27 cm. (1/2 in.)**		**Co 1.27 cm. (1/2 in.)**		**Co 1.27 cm. (1/2 in.)**		**Co 1.27 cm. (1/2 in.)**			
	DAA		**DAB**		**DAC**		**DAD**		**DAE**		**EAA**		**EAB**		**HAA**		**HAB**		**DAF**		**DAG**		**DAJ**		**DAK**		**EAD**		**HAD**		**DAH**	
*7	79	-11	99	-13	111	-53	105	-25	115	-55	68	14	72	9	99	-23	99	-28	88	-19	95	-38	112	-51	101	-17	110	-29	99	-17	119	-4
*9	70	38	90	56	85	28	110	50	50	30	85	52	90	51	80	46	75	41	85	39	90	27	100	31	60	54	60	51	55	52	85	4
AV	77	15	77	17	82	24	82	11	86	27	83	16.3	81	17	72	13	77	14	79	14	80	22	82	20.3	83	15.3	79	17	79	14	75	15
	-9		9		-24		-2		-26		-1		0		4		-6		-10		-23		-21		1		2		3		0	
Measured-AV	-9		9		-24		-2		-26		-1		0		4		-6		-10		-23		-21		1		2		3		0	
median	77		75		80		80		88		77		84		72		75		74		78		75		85		77		75		70	
	-9		11		-22		0		-28		5		-3		4		-4		-5		-21		-14		-1		4		7		5	
Measured-Median	-9		11		-22		0		-28		5		-3		4		-4		-5		-21		-14		-1		4		7		5	
Doff Std Dev		12.6		12.8		15.5		10.9		16.3		13.5		12.5		11.3		10.7		15.3		17.5		20.6		13.5		13.3		14.7		15
Diff Std Err		2.5		2.6		3.1		2.2		3.3		2.8		2.5		2.3		2.1		3.1		3.5		4.2		2.8		2.7		2.9		3.
# accurate by +/- 6 or less		5		5		2		8		4		6		6		11		8		11		5		5		7		9		8		7
# 100% accurate		0		0		0		4		0		0		0		0		0		1		0		1		0		1		1		0
0,1,2 accurate		2		3		1		6		0		1		0		3		3		4		0		3		4		3		4		2
Outlier *4	2																															

Note: br = breathing technique; chant = chanting technique

Appendix B

Experiment 1a: Typical Results Sheet

EXPERIMENT I: RESULTS SHEET

LOCATION: CALGARY DATE: 2/19/07

KIT #: 18 EMAIL (If you'd like to be notified of results): _____

NAME/PHONE (If you're interested in participating in further research): _____

AMBIENT WEATHER TODAY (Overcast/Sunny/Windy/Snowing/Raining/Cold/Warm/etc): Sunny

Table 1 Guessing/Dowsing Vital Signs and Healing

				(1)	(2)	(3)	(4) How Easy is it to do the Healing Task?	(5) How Easy is it to do the Guessing/Dowsing Task?
	Ribbon	Zone	Code	BP - Systolic [90-150]	BP Diastolic [50-110]	Heart Rate [50-120]	0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task	0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task
1			DAA	132	83	81	Very Easy	2
2	Dk. Blue	Neck	DAB	128	73	62	2	3
3		Crown	DAC	136	76	68	1	2
4	Red	Neck	DAD	141	82	80	2	3
5		Crown	DAE	148	86	76	2	2
6	Lt. Blue	Neck	DAF	128	68	63	2	2
7		Cown	DAG	150	83	85	3	2
8	Yellow	Neck	DAH	133	82	67	3	3
9		Crown	DAI	137	68	72	2	1
10	White	Neck	DAJ	146	72	70	2	2
11		Crown	DAK	118	60	58	3	3

Table 2 Guessing/Dowsing Vital Signs and Healing After Chanting

				(1)	(2)	(3)	(4) How Easy is it to do the Healing Task?	(5) How Easy is it to do the Guessing/Dowsing Task?
	Ribbon	Zone	Code	BP - Systolic [90-150]	BP Diastolic [50-110]	Heart Rate [50-120]	0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task	0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task
1			EAA	118	72	68	Very Easy	2
2	Red	Neck	EAB	127	62	69	2	2
3	Yellow	Neck	EAC	118	73	76	3	3
4	White	Neck	EAD	122	68	63	2	2

Table 3 Guessing/Dowsing Vital Signs and Healing After Breathing

				(1)	(2)	(3)	(4) How Easy is it to do the Healing Task?	(5) How Easy is it to do the Guessing/Dowsing Task?
	Ribbon	Zone	Code	BP - Systolic [90-150]	BP Diastolic [50-110]	Heart Rate [50-120]	0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task	0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task
1			HAA	143	72	70	Very Easy	2
2	Red	Neck	HAB	128	68	66	2	1
3	Yellow	Neck	HAC	119	62	70	3	2
4	White	Neck	HAD	130	72	74	3	2

Experiment 1b: Typical Results Sheet

8 D

EXPERIMENT 1b: RESULTS SHEET

LOCATION (CITY): Ambler PA DATE: 6/26/07 START TIME: 11:16 am
KIT #: _____ EMAIL (If you'd like to be notified of results): Sobeida_Salomon@Yahoo.com
NAME/PHONE (If you're interested in participating in further research): Sobeida Salomon
AMBIENT WEATHER TODAY (Overcast/Sunny/Windy/Snowing/Raining/Cold/Warm/etc): Very hot

Table 1 Guessing/Dowsing Vital Signs and Healing

				(1)	(2)	(3)	(4) How Easy is it to do the Guessing/Healing Task?	(5) How Easy is it to do the Healing Task?
	Ribbon	Zone	Code	BP - Systolic [80-160]	BP Diastolic [50-110]	Heart Rate [50-120]	0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task	0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task
1			GAA	110	40	80	1	2
2	Dk. Blue	Neck	GAB	110	60	120	1	2
3	Red	Neck	GAE	120	60	40	2	2
4	Yellow	Neck	GAH	130	100	40	3	3

Table 2 Guessing/Dowsing Vital Signs and Healing After R+C Chanting

				(1)	(2)	(3)	(4) How Easy is it to do the Healing Task?	(5) How Easy is it to do the Guessing/Dowsing Task?
	Ribbon	Zone	Code	BP - Systolic [80-160]	BP Diastolic [50-110]	Heart Rate [50-120]	0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task	0 Stops task, 1 Slows task 2 No Effect on task, 3 Helps task
1			JHAA	100	70	50	3	3
2	Dk.Blue	Neck	HAB	110	110	60	2	2
3	Red	Neck	HAC	140	110	40	3	3
4	Yellow	Neck	HAD	165	110	60	3	3

3

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