

Confidently Communicate Chiropractic & Active Care

Applying the Science of Chiropractic to Clinical Practice



BREAKTHROUGH Communicating Chiropractic

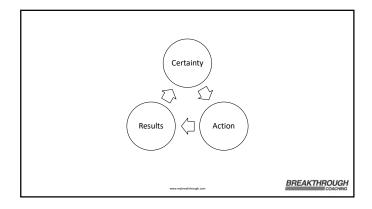
- The **science** supporting chiropractic care has been growing by leaps and bounds.
- From the impact of posture on longevity to the improved function of the brain following the adjustment, the evidence supporting chiropractic is strong.
- With dozens of footnotes, this presentation is designed to help you communicate the $% \left(1\right) =\left(1\right) \left(1\right)$ benefits of chiropractic more clearly than ever before.

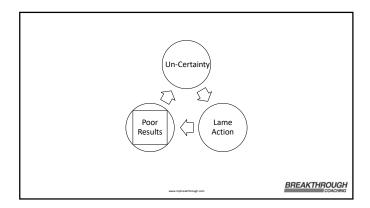


The foundation of success in practice lies in your ability to look your patients in the eyes and deliver your clinical and financial recommendations for care with absolute certainty.



BREAKTHROUGH







Applying the Science of Chiropractic to Clinical Practice

BREAKTHROUGH COACHING

BREAKTHROUGH The Posture Connection

- Posture is one of the most overlooked aspects of good health and longevity.
- Research shows a clear connection between poor posture and diminished longevity and quality of life.



The effect of posture on health is becoming more evident. spinal pain, headache, mood, blood pressure, pulse and lung capacity are among the functions most easily influenced by posture. AMERICAN JOURNAL OF PAIN MANAGEMENT



"You are only as young as your spine."

Jack LaLanne, DC



BREAKTHROUGH Anterior Head Movement

- As the head moves forward all measures of health status are reduced.
- Rene Cailliet, Director of the Dept. of Physical Medicine and Rehab. at USC, concluded that forward head posture can add up to 30 pounds of pressure on the spine and reduce lung capacity by as much as 30%, which can lead to heart and blood vascular disease.
- He determined a relationship between forward head posture and the digestive system as well as endorphin production affecting pain and the experience of pain.2

BREAKTHROUGH Chronic Inflammation

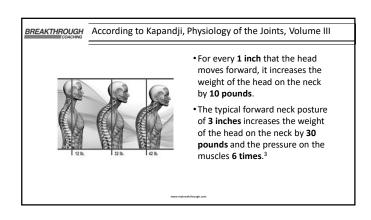
- "Chronic inflammation has become one of the hottest areas of medical
- It destabilizes cholesterol deposits in the coronary arteries, leading to heart attacks and potentially even strokes. It chews up nerve cells in the brains of Alzheimer's victims.
- Chronic inflammation may be the engine that drives many of the most feared illnesses of middle and old age."

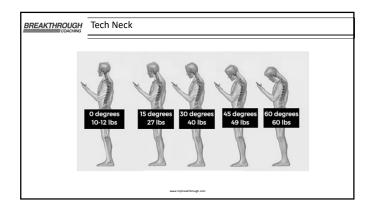


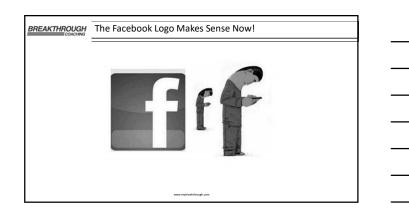
BREAKTHROUGH Imagine Your Head was a Bowling Ball

- And your neck as the hand that holds that ball.
- Imagine letting the bowling ball sit in the palm of your hand with your arm tucked tight into your body.
- Slowly move your arm away from your body while continuing to palm the ball.
- The weight of the ball will put more and more **stress** on your arm as it moves away from your body until the weight **causes failure or injury** to occur.









BREAKTHROUGH The British Regional Heart Study

- Researchers found that men who lost 3 cm in height were 64% more likely to die of a heart attack.
- Over the 20-year period of the study, men lost an average of 1.67 cm which was associated with a 42% increased risk of heart attacks, even in men who had no history of cardiovascular disease.4



BREAKTHROUGH Our Posture = Our Emotional State

- You can tell a lot about a person from the way they carry themselves.
- For instance, picture the way someone stands when they are feeling depressed: mid-back and shoulders rolled forward, head hanging, gaze focused on the ground.
- Not exactly the picture of health and vitality!



Yoga gurus have long said that it is impossible to be depressed with your armpits open.



BREAKTHROUGH COACHING

BREAKTHROUGH Posture & Life Expectancy

- A group of scientists led by Dr. Deborah M. Kado wanted to see if there was a correlation between postural distortion and a person's
- They started with the biggest health problem: death.
- They asked: "Was there any correlation between a person having a hyperkyphosis and having a decreased life expectancy?"5



BREAKTHROUGH The Frightening Long Term Effects



- Dr. Kado reported in the Journal of the American Geriatrics Society that people with hyperkyphosis were 2 times more likely to die from pulmonary causes.
- They were also **2.4 times** more likely to die from cardiovascular disease than those without poor posture.5

BREAKTHROUGH Posture & Cognitive Decline³³

- A 2019 study published in Nature reports that sagittal spinal alignment (posture) correlates strongly with health-related quality of life.
- $\hbox{\small \bullet Anteriorization of the sagittal} \\$ vertical axis (SVA) can be regarded as an easily visible indicator of latent cognitive decline in seniors.

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BREAKTHROUGH Too Much Sitting Can Shorten Your Life



- According to a study from the American Cancer Society the amount of time you spend sitting can affect your risk of death.
- Followed 127K people over 21 years.
- Prolonged periods of sitting have a negative influence on key metabolic factors like triglycerides, high density lipoprotein cholesterol, and a number of other biomarkers of **obesity** and other chronic diseases.6

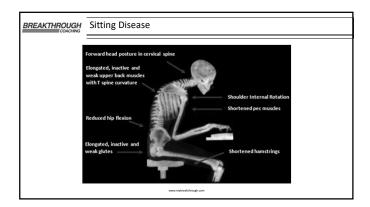
To live a long, active, energetic life, few things matter more than posture.

> BREAKTHROUGH COACHING

This quote by Thomas Meyers, Author of Anatomy Trains, says it all...

"Movement becomes **habit**, which becomes posture, which becomes structure."

> BREAKTHROUGH COACHING





Postural Assessment

Applying the Science of Chiropractic to Clinical Practice

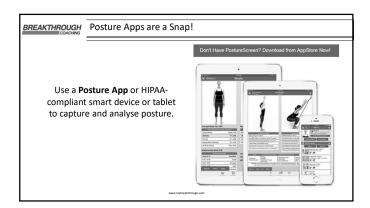


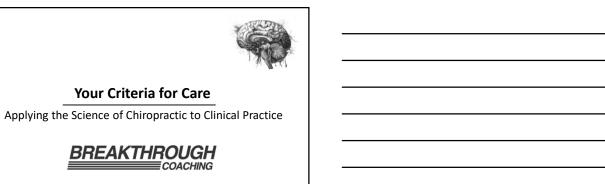
BREAKTHROUGH The 7-Step Posture Check

- We recommending using the **7-Step Posture Check** in all of your community outreach presentations.
- This quick check gets the audience moving and provides them with tangible evidence of their postural distortions that they can take home to share with their friends and
- They can also take extra copies of the form to perform the posture check on their loved ones.



The 7-Step Posture Check Pick a partner & perform the 7-Step Posture Check 1. Head 2. Shoulders 3. Hips 4. Neck 5. Upper Back 6. Low Back 7. Shoes





How do you know where your patients are in the spectrum of health?

How do you know when your patients are **done** with acute care?



BREAKTHROUGH What is a Baseline & Why is it Important?

- A **baseline** is a starting point used for comparisons.
- How do you know how your patient is doing if you don't know how far from normal he is?
- What goals is the patient moving toward and how will you know when he gets there?
- A great example is blood pressure: 120/80.



How to develop a baseline for healing.

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BREAKTHROUGH A Baseline Must Be

- •Based on Normative Data
- Reliable
- Valid
- •Published in a Peer Reviewed Journal



BREAKTHROUGH Establishing Your Criteria for Care

- We all studied from the same textbook Guyton's Textbook of Physiology.
- While none of the information presented today is new, this may be the first time many chiropractors have learned how to apply its clinical implications.



BREAKTHROUGH Basic Science

- Acute Inflammation
- Tissue Repair
- Tissue Remodeling
- Angiogenesis
- Ligament Healing
- Muscle or Tendon
- Proprioceptive Adaptation

- •3 4 days⁷
- Day 2 6 weeks8
- 3 weeks 1 year^{9,10}
- Months to complete¹¹
- •50% in 6 months 80% in 1 year
- $100\% \text{ in } 1 3 \text{ years}^{12}$
- 10 days 10 weeks12 •8 - 10 weeks13,14

BREAKTHROUGH What Are Your C4C?

- Without Criteria for Care (C4C) beyond pain relief, when the pain goes away—so does the patient!
- In addition, if the patient discontinues care at this point, there is a considerable risk for permanent impairment due to non-functional scar formation.



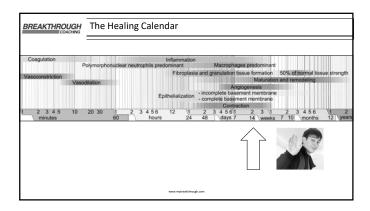
BREAKTHROUGH Establishing Medical Necessity

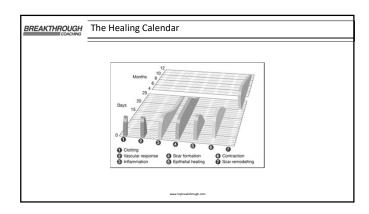
- The typical chiropractic case management protocol includes examination by provocative testing procedures, dermatomal and reflex testing.
- \bullet In the absence of neurological involvement, these procedures do little to support the medical necessity of care.
- This requires a different set of Criteria for Care (C4C).

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BREAKTHROUGH The Pain Relief Model of Care

- The utilization of chiropractic for pain relief is a paradigm of care that was thrust upon the profession by third party payers.
- It is the model of **third party** reimbursement not the model of **self**paid care.
- It requires the chiropractor to measure, document and communicate goals to both patients and third party payors beyond pain relief.
- These goals must be science/evidence based.
- Let the science continue...





Documenting Your (C4C	
• Pain Level • Bone/Joint/Disc Health Or	• Balance & Coordination/ Proprioception	
Degeneration	 Abnormal Illness Behaviors 	
• Posture	 Anxiety Level 	
Flexibility/Range of Motion	 Depression 	
• Muscle Spasm/ Contusions	 Cognitive/Coping Skills 	
• Strength	• Fear-avoidance	
• Endurance	• Locus of Control	



Documenting Your Criteria for Care

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BREAKTHROUGH Assessing Pain

- Assessment of pain is the starting point for documentation not the finishing point.
- The Medicare PART Process for documentation of subluxation without x-ray requires the documentation of pain on each visit.

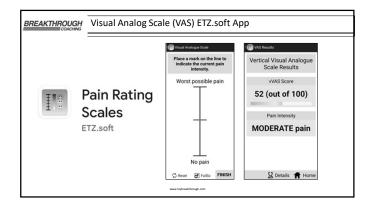


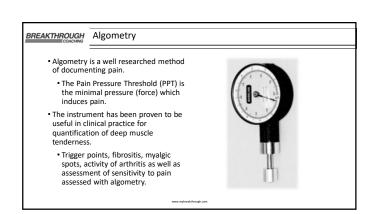
BREAKTHROUGH Numerical Rating Scale (NRS)

- Purpose: To assess the severity of pain
- Population: Adults and children 10 years old or older.
- •Time Required: 30 sec—5 minutes
- Description: 11-point scale for patient self-reporting of pain.
- Score on a scale of 0-10.15

PAIN SCORE 0-10 NUMERICAL RATING 0-10 Numerical Rating Scale

Purpose: It is a measurement instrument for subjective characteristics or attitudes that cannot be directly measured. Population: Adults and children 10 years old or older. Time Required: 1-5 minutes Description: When responding to a VAS item, respondents specify their level of agreement to a statement by indicating a position along a continuous line between two endpoints. Score on a scale of 0-10.





BREAKTHROUGH Pressure Normative Data

- Tenderness varies greatly at different sites of the same body part also in healthy subjects, but studies have shown no difference in PPT between right and left sites in homologous body regions.
- The healthy side is used as a normal reference in unilateral painful conditions.
- A compression force equivalent to more than 20N between a painful site and a corresponding normal site is considered clinically significant.



BREAKTHROUGH COACHING	Normative Data	Normative Data Algometry ¹⁷					
	TABLE 3.	Summary of	Normal Pressi	ure Threshold	s*		
			MALES		LES		
		Lowest	Average	Lowest	Average		
	Upper Trapezius	2.0	4.0	2.9	4.7		
	Pectoralis			3.3	5.1		
	Levator Scapula	2.7	4.2	3.6	5.2		
	Supraspinatus	2.8	4.2	3.9	6.03		
	Teres Major	2.7	4.0	4.1	6.0		
	Infraspinatus	3.0	4.8	4.6	6.9		
	Deltoid	3.1	4.8	5.1	7.3		
	Lumbar Paraspinals	3.8	5.7	5.6	8.0		
	Gluteus Medius	3.7	6.0	4.3	6.4		
	"Minimal pressure inducing sure threshold (84% security	pain: side-to-side y) and average vi	e differences higher slues rounded up to	than 2 kg/cm ² ; low 0.1 kg.	est normal pres-		





Outcomes Assessment Tools

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Outcome Assessment Tools

BREAKTHROUGH The King of OATs: The Bournemouth Questionnaire

- Assesses **physical** and **psychological** disability for patients with back
 - Works under the assumption that neck and back pain are lifestyle illnesses, rather than "diseases."
- Contains **7 core items**: Pain Intensity, Disability in ADLs, Social Activities, Anxiety, Depression, Fear Avoidance, & Locus of Control. 18,19,20

The Bournemouth Questionnaire

- •Time: 5 Minutes or Less
 - Scoring: A score of 0 to 10 is possible for each of the seven categories.
- 70 represents the highest disability score and 0 the best score.



BREAKTHROUGH Why is The Bournemouth King?

- The questionnaire not only identifies disabilities in the areas of pain, ADLs and social activities.
- Anxiety: A feeling of worry, nervousness, or unease, typically about an imminent event or something with an uncertain outcome.
- Depression: Severe despondency and dejection, typically felt over a period of time and accompanied by feelings of hopelessness and inadequacy.

BREAKTHROUGH Why is The Bournemouth King?

- Fear Avoidance: A model that describes how individuals develop chronic musculoskeletal pain as a result of avoidance of activities based on fear.
 - This model helped explain how these individuals experience pain despite the absence of pathology.
- Locus of Control: The extent to which people believe they have power over events in their lives.
 - A person with an internal locus of control believes that he or she can influence events and their outcomes, while someone with an external locus of control blames outside forces for everything.
- How would each of these non-physiological effects impact your prognosis and patient education?



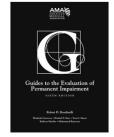
Assessing Flexibility/ROM

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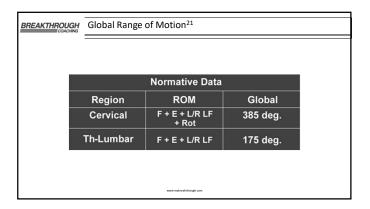
BREAKTHROUGH Assessing Flexibility

- \bullet What is your ${\bf normative}$ ${\bf data}$ baseline for Range of Motion?
 - Hopefully you are not assessing spinal ROM via goniometry but with dual inclinometery.
- The AMA Guides to the Evaluation of Permanent Impairment is used in Workers' Compensation systems, federal systems, automobile casualty and personal injury cases to rate impairment.²¹



BREAKTHROUGH Global Range of Motion

- An easy to report method for assessing range of motion is **global** range of motion.
 - Rather than reporting each plane of movement individually, i.e.: Flexion 60 degrees
 - Total all of the planes of movement into one global **denominator**.
- According to the AMA Guides:
 - Cervical = 385 deg.
 - Lumbar = 175 deg.
- Note that rotation cannot be accessed via inclinometry.





Muscle Assessments

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BREAKTHROUGH COACHING	Assessing Muscles	
lesson th	er from our science at muscles, ligaments ons can take from days to heal.	Muscle Injury Tissue Progression Pre-Injury Injured Heated Heated Heated Frame State Tissue State Tissue SCAR RE-NULLY MOTION Sat tissue forms to heal injured tissue leaving the muscle weaker and less flexible.
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BREAKTHROUGH Assessing Strength

- Muscular strength is the ability of a muscle or muscle group to exert force to overcome the most resistance in one effort.
 - Strength can be measured based on the amount of weight lifted.
- Muscular endurance is the ability of a muscle or muscle group to exert force to overcome a resistance many times.
 - The measurement of muscular endurance is based on the number of repetitions performed.

BREAKTHROUGH Assessing Strength

- •The assessment of **muscle strength** can be performed in many ways.
- Standardized strength assessments can be performed with dynamometry, by measuring a 10 repetition maximum (10RM) with weights and by counting repetitions against resistance such as tubing or bands.



BREAKTHROUGH Assessing Strength

- A deeper insight can be gained by assessing the **balance** between the muscles of the neck and trunk.
- The balance of strength between the $\mbox{{\bf flexor}}$ and $\mbox{{\bf extensor}}$ muscles provides insight into the potential for recurrence and chronicity.^{22,23}



Normal Flexor/Extensor Ratio

- The extensor muscles of the lower back should be approximately 30% stronger than the flexors.
 - This ratio is 1 to 1.3.
- The extensor muscles of the **neck** should be approximately 40% stronger than the flexors.
 - This ratio is 1 to 1.4.
- This is called the Flexor/Extensor Ratio.23



BREAKTHROUGH Assessing Endurance

- Hannu Alaranta, MD published a battery of tests to assess endurance, which are safe, inexpensive, time efficient, reliable and comparable to normative databases. (All desirable!)
 - \bullet If a patient is less than 85% of normal for any specific test, then rehab training is deemed medically necessary.
- Provides unmistakable evidence that the patient's condition may be due to factors in the patient's and not the doctor's control.24

BREAKTHROUGH Dynamic Endurance Tests²⁴

- Repetitive Sit-ups Arch-ups -Squatting
 - 50 reps maximum
 - 2-3 seconds per repetition
 - If the motion becomes clearly jerky or asymmetrical, the test should be stopped.
- Static Back Endurance
 - 240 seconds maximum
 - Test discontinued if aggravated by pain or muscle spasm.

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Pleaser Extension Ratios Revenued Fishs fearner flates (united 1 Pleasers 3 Con- tesma flates (amount 1 Pleasers 4 Con-	reco*
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Cervical F.E. Ratio	
6 Low back Ext Reps or Sec	w bs. vt. or against repotunce w bs. vt. or against repotunce
Lumbar F.E. Ratio	
Balance and Coordination Tests*	
7. One Lag Standing Apr 20-59 Eyes Open L 20-50 M 20-50 M	Age 60-69 Age 70-79 L
8. One Lag Standing LOS sec Eyes Oceand ROS sec	1_10 ms 1_1 ms
Range of Motion Tests*	
10. Global CROM (F + E + LR LF + Pul)	1385 asg =% of Norm.
11. Georg T-chOM / - c - cm cm	1175 mg +% of Norm.



Proprioception

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Why Train Proprioception?²⁵

Research Letter

June 4, 2019

Mortality From Falls Among US Adults Aged 75 Years or Older, 2000-2016

Klaas A. Hartholt, MD, PhD^{1} ; Robin Lee, PhD, MPH^{2} ; Elizabeth R. Burns, MPH^{2} ; $\underline{et\ al}$

JAMA. 2019;321(21):2131-2133. doi:10.1001/jama.2019.4185

Fatal falls on the rise for seniors



BREAKTHROUGH Single Leg Standing Predicts Mortality³⁴

- A 2022 study in the British Journal of Sports Medicine reports that the ability to successfully complete 10second one-leg standing (OLS) is independently associated with all-cause mortality and adds relevant prognostic information beyond age, sex and other clinical variables.
- There is potential benefit to including the 10-s OLS as part of routine physical examination in middle-aged and older adults.

Successful 10-second one-legged stance performance predicts survival in middle-aged and older individuals

BREAKTHROUGH Single Leg Standing Assessment

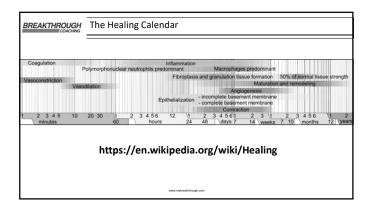
- Stand with Posterior Pelvic Tilt, arms relaxed at sides and eyes forward.
- Flex hip 60 degrees and knee 90 degrees.
- Toes of raised foot are at height of ankle of planted leg.
- Maintain position until loss of balance or raised foot touches
- Repeat with eyes closed.

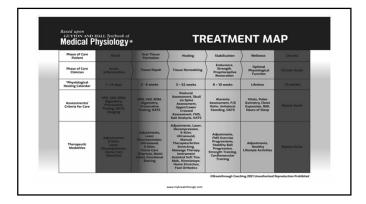


BREAKTHROUGH Single Leg Standing Normative Data²⁶

Normative Data				
AGE	EYES	EYES		
(years)	OPEN	CLOSED		
00000 1 3000	(seconds)	(seconds)		
20-59	29-30	21-28.8		
60-69	22.5	10		
70-79	14.2	4.3		

BOBO Proprioceptive Trainer: Available on Amazon.com **BoBo Core Trainer Balance Board** Whole Family Fitness Device with Connected Game & Exercises App







Functional Postural Assessment

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BREAKTHROUGH Vladimir Janda, MD

- Combined therapy and medicine in a hands on approach; one of the earliest to practice physical medicine and rehabilitation.
- Published more than 16 books and 200
- Defined Crossed Syndromes in 1979.
 - Emphasized that the sensorimotor system, composed of sensory system and motor system, could not be functionally divided.
- He emphasized the importance of proper proprioception.



BREAKTHROUGH Neurodevelopmental Locomotor Patterns

- Tonic Muscle System: prone towards tightness.
- Phasic Muscle System: prone towards weakness.
 - Work together synchronously through co-activation for posture, gait and coordinated movement.



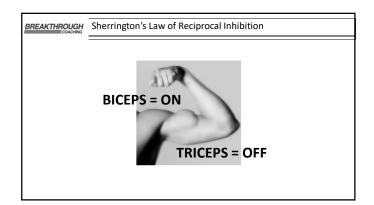
BREAKTHROUGH Sherrington's Law of Reciprocal Inhibition

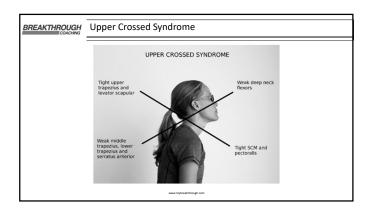
When a muscle contracts, its direct antagonist relaxes to an equal extent allowing smooth movement.

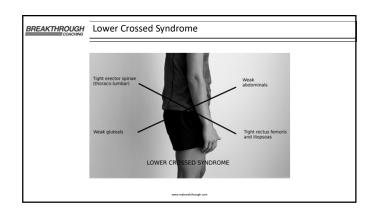
—C.S. Sherrington The Integrative Action of the Nervous System 1906

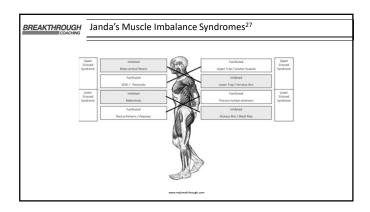


"The ON - OFF Law"



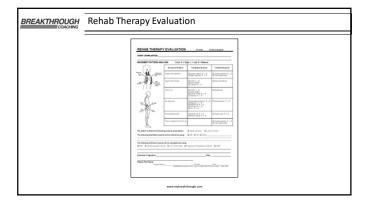














Assessing Wellness

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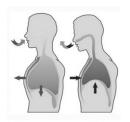


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BREAKTHROUGH COACHING	You Know You Want It		
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BREAKTHROUGH Oxygen is Really Important

- All functions of the body are regulated by oxygen.
- It must be replaced every moment because **90%** of our lives depends on it.²⁸
- Oxygen energizes cells so they can regenerate.
- The body uses oxygen to metabolize food and to eliminate toxins and waste through oxidation.
- The brain needs oxygen each second to process information.



BREAKTHROUGH Chest Expansion

- Measured as the difference between maximal inspiration and maximal forced expiration in the 4th intercostal space in males or just below the breasts in females.
 - Normal 2-5 inches²⁹
- Measures thoracic mobility & breathing



BREAKTHROUGH Pulse Oximetry

- Measures the oxygen level in the blood and heart rate.
 - Normal Sp02 readings range from 95 to 100%.
- Normal heart rate is **50-70** beats per minute.
 - Low blood oxygen can result in acidosis, cellular destruction, inflammation and disease.



BREAKTHROUGH Perfusion Index (PI)

- Assesses the vasomotor tone of the body.
 - $\ \, \bullet \, \text{Vasomotor readiness} \, \, \text{of the} \, \,$ peripheral nervous system to comply with need. (Fight/Flight)
- Breaks down with stress.
 - Normal Perfusion index **0-10**.³⁰



BREAKTHROUGH Don't Forget Body Mass Index

- A ratio between weight and height.
- Used to evaluate if a person is at an unhealthy weight.
- •BMI =Weight [in pounds] x 703 / (Height [in inches])2
 - The acceptable range is 20-25 for men and women.
- Obesity is taken to start at a BMI of 30 and gross obesity at 40.31



BREAKTHROUGH Wearable Tech = Weight + Percentage of Body Fat + More



- Every 10 lbs of body of extra weight = **45 lbs** pressure on the low back and lower extremity joints
- Worn around the wrist, Fitbit monitors more than just steps.
- Equipped with GPS, skin temperature tracking, and a heart rate monitor, it provides key insights into health and activity, including exercise performance, sleep habits, and changes in heart rate.

BREAKTHROUGH Heart Rate Variability (HRV)

- HRV may offer a noninvasive way to signal imbalances in the **autonomic nervous** system.
- Based on much research, if the system is in more of a **fight-or-flight mode**, the variation between subsequent heartbeats tends to be lower.
- If the system is in more relaxed state, the variation between beats may be higher.
- SonoHealth Portable EKG Heart Rate Monitor, Wireless Handheld Home ECG Cardio & Electrocardiogram Machine, Biofeedback Finger & Chest Leads (Amazon.com)

Heart rate variability: How it might indicate well-being



BREAKTHROUGH Add Tech to Improve Patient Outcomes

- Adding technology to your case management toolkit can help improve patient outcomes through better documentation of your criteria for care.
- Use tech to increase patient motivation and retention by setting clear-to-communicate and $\boldsymbol{understand}$ goals for care.



BREAKTHROUGH Results from National Health Interview Survey³²

- Reason reported for consulting a chiropractor:
 - For general wellness or disease prevention (43.3%)
 - To improve their energy (16.3%)
 - To improve athletic or sports performance (15.4%).
- Back pain (63%) and neck pain (30%) top specific health problem for which they sought chiropractic care.
- 66.9% reported that chiropractic care had helped them to improve overall health and made them feel better.

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Results from National Health Interview Survey³²

- 42% reported sleeping better
- 40% reported chiropractic helped them by **reducing stress** or helped them to **relax**
- 33% reported chiropractic gave them a sense of control over their health
- 27% reported chiropractic helped them to **feel better emotionally**.
- 39% reported chiropractic made it **easier for them to cope** with their health problems.

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