Theoretical Framework of Placebo Effects in Osteopathic Practice

Definition	Placebo effects are the psycho-neuro-bio-behavioural effects resulting from a patient's perception, interpretation and response to a therapeutic (psychosocial and environmental) context.	
Treatment elements: Defining, Incidental and Preliminary	 All treatments have defining, incidental, and preliminary elements which interact to influence treatment outcome (Caspi and Bootzin, 2002). <u>Defining elements</u> are the interventions that are derived from the theoretical framework guiding the therapy and are intentionally applied. <u>Incidental elements</u> are the variables that accompany the defining elements of the therapy, and are necessary but not sufficient components of the specific kind of therapy. <u>Preliminary elements</u> are those that precede the intervention such as the process of making an appointment. The elements of therapy that are considered defining, incidental, or preliminary is dependent on the theoretical paradigm (e.g. biomedical vs. osteopathic), context (e.g. research vs. practice), and situation (e.g. the nature of the illness/condition) and can be re-classified as necessary. Placebo effects are typically viewed as being caused by 'incidental' elements, but can be caused by 'defining' elements depending on the 	
Determinants	 therapeutic framework, context, and situation. Placebo effects are determined by environmental factors, individual patient and practitioner factors, the patient-practitioner interaction and communication, the process of providing a framework, and the nature of the illness. Central to the formation of placebo effects is the intersection between the perceptions of the patient, the development of trust, and pre-existing expectations, hope, and beliefs. Placebos ('inert' treatments) and deception are not necessary for placebo effects to occur. Placebo effects can subsequently be intentionally derived in an ethical manner. 	
Mechanisms	 Placebo effects are an observation and manifestation of inherent adaptability and resiliency mechanisms. Specific mechanisms underlying placebo effects include: a) Activation of endogenous opioid and dopamine networks b) Psychoneuroimmunological processes c) Classical conditioning processes d) Specific modulation of autonomic nervous system activity 	

Effect on healing processes	Placebo effects are most likely to be observed in subjective measures of health, but can also be observed in neurological, functional and biochemical outcomes. Placebo effects have the greatest influence on healing processess occurring on psychological/emotional levels (i.e., subjective experiences of illness), but can also influence physical manifestations of healing processes through alterations in function (physiology).
Evidence-based method promoting health	Placebo effect mechanisms and determinants are supported by a strong evidence base that can be applied ethically in osteopathic practice as an adjunct tool to potentiate inherent health-restorative processes.
Defining element of osteopathic practice	Intentional use of these (evidence based) tools in clinical practice argues for classification of these elements of treatment as one of the defining elements of osteopathic practice. (Figure 1)

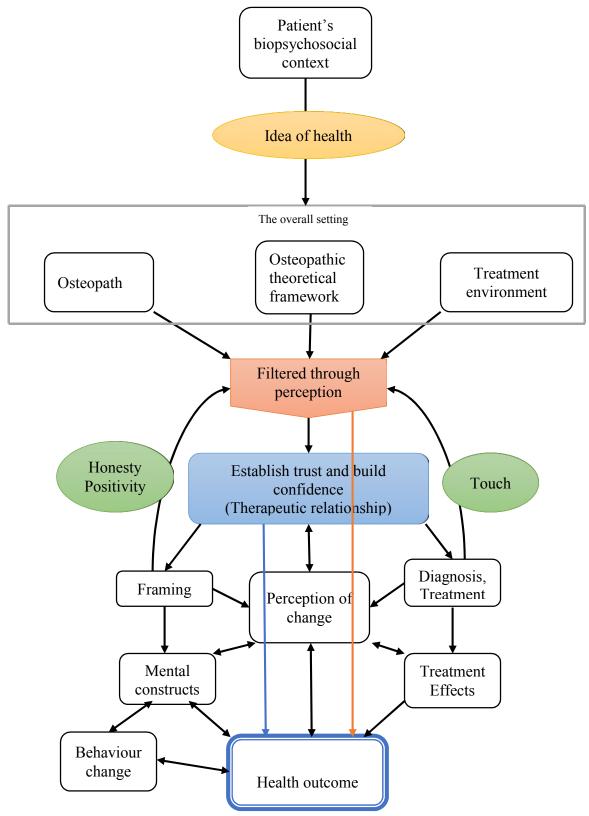


Figure 1: Process of Health Promotion in Osteopathic Practice. Generated from content from informant interviews.

Practical guidelines for engaging 'placebo' mechanisms in Osteopathic practice

1. Build trusting partnerships			
 <u>What it does</u> enables osteopathic diagnosis and treatment to proceed enables patients to share sensitive information that may be influencing health amplifies placebo effect mechanisms (i.e enhances the neurophysiological effect of providing a framework for understanding on the patient's hope, beliefs, and expectations) 	 What it is Partnership = patient has an active role How to do it Build partnerships by: Providing information and encouraging questions Working towards a shared understanding of the cause and nature of the illness Sharing in decisions regarding treatment options Empowering the patient with strategies and tools for self-care Build trust by: Adapting (assess patient's affective state and needs → interpret what kind of interaction would be beneficial → adapt behaviour accordingly) Honesty Confidence Competence Demonstrating knowledge of osteopathy and the human body 		
 2. Utilize strategies of eff <u>What it does</u> central role in forming trusting partnerships role in providing a framework for understanding helps to identify patient factors in placebo responding (personality, beliefs, values) 	 What it is Communication = content + style (process) of conveying information Verbal and non-verbal (behavioural, tactile) dimensions How to do it: Ask appropriate questions to gain an understanding of the whole person Utilize active listening strategies to convey interest and understanding Encourage active participation (partnership, enablement) Frame information positively and communicate clearly in a way the patient can understand Use an empathetic and emotionally supportive style Figure 2 		

3. Provide a framework	
What it does	What it is:
- directs behaviour	 Framing is embedded in the process of educating patients about:
 hones focus shapes the patient's expectations, hopes and beliefs → neurophysiological and behavioural effects open-ended framing + 	 The nature of osteopathic assessment and treatment Assessment findings and/or diagnosis The rationale for the treatment plan The expected outcomes of treatment How to interpret the meaning of body sensations before/during/after treatment Honest, positive & realistic
reevaluation preserves hope, encourages health-promoting behaviours, and provides the opportunity to redirect hope/expectations in the future - positive guarantees of outcome → future nocebo effects if expectations are not met - negative guarantees of outcome → nocebo effects and diminishes health promoting behaviours	 How to do it: DO: combine positive open-ended expectations of prognoses/outcomes with process of re-evaluation use re-evaluation to frame improvements → bolster hope and trust use framing to redirect hope/expectations if treatment is ineffective or if progress plateaus (refer to other modality and/or modify plan) DON'T: provide positive OR negative guarantees of outcome
4. Create a unique and co	omfortable environment
<u>What it does:</u> - minimizes cues that elicit negative conditioned responses acquired from other settings (eg:	 <u>What it is:</u> Environment = treatment room → clinic/hospital → geographical location/neighbourhood
conditioned nausea from chemotherapy provided in hospital settings) - patient's perceptions of environmental factors can have cognitive and affective (neurophysiological) responses	 How to do it: Create an environment that is clean and professional but not overly 'sterile' or impersonal Create environments that have unique: Objects in the treatment room (plants, art, furniture) Colour of treatment room walls Views of nature/outside environment Promote a feeling of warmth, positivity, and comfort in the environment by: Ensuring interactions with other individuals in the treatment setting (eg: administrative staff) are positive and equitable Maintaining passion about your work as an osteopath

What it does - informs practitioner adaptation 0 each individual - enables practitioner to select individualized placebo determinants to amplify placebo effect mechanisms 0 <	5. Recognize placebo-sensitive conditions and individuals		
 informs practitioner adaptation to each individual Placebo sensitive conditions & functions: Parkinson's Disease irritable bowel syndrome cardiovascular diseases depression generation of blood pressure, airway resistance, and gastric activity Individual pacebo destination of blood pressure, airway resistance, and gastric activity Individual pacebo sensitivity is related to:	U		
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6. Engage in personal development and self-care		
 - creates positive psychosocial contexts for patients (biopsychosocial health in a practitioner's broader context translates into clinical encounters) - patient's perceptions of subtle cues from the practitioner can make significant differences in placebo effects - practitioner's beliefs will influence placebo mechanisms 	 What it is Personal rituals and efforts to maintain/promote your own biopsychosocial health Psychosocial dimensions involve: Value placed on relationships Enjoyment from interpersonal interactions Love, compassion, empathy, humility, vulnerability, emotional intelligence, personality, outlook on life, general disposition → enters the patient-practitioner interaction Authenticity, genuineness, honesty: if practitioners clinical context = broader context How to do it Take care of yourself! There are many ways to promote your own psychosocial health, find what works for you. Promote biological dimensions by: Maintaining adequate nutrition, rest, and exercise Avoiding deleterious habits such as smoking and excessive drinking, Reducing your own somatic dysfunction 	
7. Recognize the role of r		
 What it does engagement with therapeutic rituals outside the treatment setting may repeatedly engage placebo mechanisms rituals concordant with a patient's intrinsic values may promote adherence to the treatment plan and may have positive psychoneuroimmunological effects 	 What it is: Treatment ritual includes: Characteristics/processes of treatment Therapeutic relationships Environments Frameworks The patient's perceptions and interpretations are the filtering and organizing systems that influence physiological and behavioural responses <u>How to do it:</u> Highlight aspects of treatment that are concordant with a patient's values/beliefs Provide suggestions of self-care rituals Self-care rituals with recognized health benefits have placebo effects embedded within them 	

8. Maintain honesty and ethics

- Duty for clinicians to provide ethical and honest care

- Concealment or deceit is unacceptable clinician behaviour, and is not necessary for placebo effects to occur

- Placebo mechanisms are engaged by honest, transparent, and ethical approaches via:
 - Effective trusting relationships
 - The process of honest framing
 - Creation of positive treatment environments
 - The treatment characteristics and rituals that hold positive meanings for a patient
 - The biopsychosocial health and beliefs of the practitioner

9. Recognize the potential and know the limits

- These guidelines have the potential to influence subjective, neurological, functional, and biochemical measures of health

- These guidelines are not a substitute for a proven therapy, rather they are a complement to existing treatments

10. Use these strategies as an adjunct tool in the provision of comprehensive patient care

- These guidelines outline a therapeutic method of potentiating a patient's inherent self-restorative processes

- Apply these guidelines within the context of providing treatment informed by established osteopathic principles of practice

Ask questions to gain an understanding of the whole person, addressing:

- primary complaint allowing patient to discuss symptoms fully
- general health and other symptoms and concerns
- the patient's understanding of the cause/effect/meaning of their symptoms on their function and their health
- the patient's expectations of treatment

Actively listen and paraphrase by:

- pausing to give time for the patient to speak
- allowing the patient to 'tell their story'
- parapharase to communicate understanding and check accuracy

Enable the patient and encourage active participation by:

- encouraging questions
- working towards a mutual agreement regarding cause and nature of the illness
- providing verbal and written information
- sharing in decision making about treatment options

Provide emotional support through:

- reassurance
- warmth
- empathy
- acceptance, non-judgement, validation
- demonstrating interest
- conveying care, compassion, and confidence
- appropriate use of humour

Utilize positive non-verbal communication through:

- eye contact
- orienting body to face the patient
- appropriate use of touch (conveyed confidently)
- maintaining presence
- interacting from a place of love, compassion, humility, and vulnerability

Provide information (a framework) about:

- the nature of osteopathic assessment and treatment
- the findings of the assessment and/or diagnosis and prognosis
- the rationale for the treatment plan
- the meaning of body signs and symptoms
- expectations of treatment outcomes

Figure 2: Strategies of Effective Communication. Adapted from Derksen et al., 2013; Griffin et al., 2004; Hojat et al., 2011; Kaptchuk, Kelley, Conboy, et al., 2008; Rakel et al., 2011; Stewart, 1995; and content from informant interviews.

References

- Caspi, O., & Bootzin, R. R. (2002). Evaluating how placebos produce change. Logical and causal traps and understanding cognitive explanatory mechanisms. *Eval Health Prof,* 25(4), 436-464.
- Derksen, F., Bensing, J., & Lagro-Janssen, A. (2013). Effectiveness of empathy in general practice: a systematic review. Br J Gen Pract, 63(606), e76-84. doi: 10.3399/bjgp13X660814
- Griffin, S. J., Kinmonth, A. L., Veltman, M. W., Gillard, S., Grant, J., & Stewart, M. (2004). Effect on health-related outcomes of interventions to alter the interaction between patients and practitioners: a systematic review of trials. *Ann Fam Med*, 2(6), 595-608. doi: 10.1370/afm.142
- Hamilton, S. (2015). A Qualitative Study of Placebo Effects in Osteopathic Practice. (Diploma of Osteopathic Manual Practice), Canadian College of Osteopathy, Toronto, Ontario, Canada.
- Hojat, M., Louis, D. Z., Markham, F. W., Wender, R., Rabinowitz, C., & Gonnella, J. S. (2011). Physicians' empathy and clinical outcomes for diabetic patients. *Acad Med*, 86(3), 359-364. doi: 10.1097/ACM.0b013e3182086fe1
- Kaptchuk, T. J., Kelley, J. M., Conboy, L. A., Davis, R. B., Kerr, C. E., Jacobson, E. E., . . . Lembo, A. J. (2008). Components of placebo effect: randomised controlled trial in patients with irritable bowel syndrome. *BMJ*, 336(7651), 999-1003. doi: 10.1136/bmj.39524.439618.25
- Rakel, D., Barrett, B., Zhang, Z., Hoeft, T., Chewning, B., Marchand, L., & Scheder, J. (2011). Perception of empathy in the therapeutic encounter: Effects on the common cold. *Patient Educ Couns*. doi: 10.1016/j.pec.2011.01.009
- Stewart, M. A. (1995). Effective physician-patient communication and health outcomes: a review. *CMAJ*, 152(9), 1423-1433.