

Title	Crying, unsettled and distressed infants: Swiss arm of an international
	randomised controlled trial to test the effectiveness of osteopathic care
Acronym	CUTIES-CH
Status (Begin-End)	Ongoing, scheduled to end in February 2022
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Collaboration/Partnership	University College of Osteopathy (UK) (www.uco.ac.uk)
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	Southern Cross University (Australia) (www.scu.edu.au)
	Macquarie University (Australia) (<u>www.mq.edu.au</u>)
Funding (Funding partners	
Funding (Funding partners in Switzerland)	Swiss Osteopathic Science Foundation (<u>www.osteopathyfoundation.ch</u>) USS SO (www.bos.co.gb)
<u> </u>	HES-SO (www.hes-so.ch) Realization of the state of
Abstract	Background and Rationale
	Infants who excessively cry and are perceived as unduly distressed and unsettled
	may be otherwise healthy and thriving. However, these symptoms can have a
	marked impact on family life. Around 1 in 6 families are affected by excessive
	infant crying (Hiscock, Jordan 2004). It is associated with maternal issues such as
	depression, anxiety and loss of parenting confidence (Johnson et al 2015, Kurth
	et al 2010). The peak age for crying in infants, at week six, is the same as the peak
	age for severe infant injury or death as a result of abuse (Kato 2016, Berkowisz
	2017). Health care resource use by parents is higher in an infant's first 6 months
	of life, indicating a greater need for support during this period (Johnson et al
	2015). One of the major reasons for this increase includes unsettled infant
	behaviour and problems with sleeping and feeding (Morris et al., 2001). Many
	parents seek alternative care such as osteopathy for their "colicky" infants.
	Osteopathic treatment for "colicky" infants commonly involves gentle touch and
	movement (Prevost et al., 2019). Treatment includes gentle application of light
	tactile pressure to areas that are perceived to demonstrate palpably increased
	soft tissue tone. There is little evidence to support the mechanism of action
	underpinning this approach with the rationale for treatment theoretically driven.
	Leuchter et al., (2013) postulated that infants with colicky crying were less able
	to regulate their responses to everyday stimuli. This led to the hypothesis that
	osteopathic affective touch may be able to modulate stimuli produced within the
	gut and other internal organs (interoceptive stimuli) in a direction that reduced
	symptoms such as crying and distress (D'Alessandro et al., 2016, Cerritelli et al.,
	2017). Regardless of the physiological rationale or explanation for this approach,
	there is limited, low to moderate quality evidence to show that osteopathic and
	chiropractic care can help to reduce crying time in infants (Dobson et al., 2012;
	Carnes et al., 2018; Prevost et al., 2019). More scientifically robust definitive
	trials on the topic are needed to clarify the situation. Parents/carers are often in
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crisis when they seek support and care for their "colicky" infants and that they expect the outcome of that care to have an almost immediate effect. Normally the symptoms of excessive crying, unsettledness and distress are self-limiting and start resolving around nine to 12 weeks of age (Wolke et al., 2017). This sudy is therefore designed to look at short-term impact of care on reducing crying time in infants with unsettled crying.

Aim

To evaluate the effectiveness of osteopathic light touch manual therapy care for excessively crying, unsettled and distressed infants.

Method

We propose a two-arm pragmatic randomised controlled trial, 112 infants will be randomised to either: (i) Specific osteopathic light touch manual therapy with best practice advice and support or, (ii) Non-specific light touch with best practice advice and support. Parents will be blinded to group allocation.

Population

Healthy infants under 10 weeks old, reported by their parents as excessively crying, fussing, unsettled, distressed and difficult to console using the Rome IV criteria (>3 hours of crying per day, for 3 days or more, for 1 week or more). Infants with diagnosed health conditions for which they are receiving medical treatment or who are unsuitable for osteopathic care will be excluded from the study.

Thirty UK, Australian and Swiss osteopaths will recruit participants in their own clinics. In Switzerland, at least 10 osteopaths are to be recruited

Outcomes

The primary outcome is reduced infant mean crying time over 14 days, collected via parent reported diaries. Secondary outcomes are: (i) Parental self-efficacy, (ii) Parent perceived global improvement, (iii) Satisfaction and experience with treatment, (iv) Adverse events, and (v) Direct cost.

Discussion

The results from this study will provide information that osteopaths, other health care professionals and parents can use to inform their decisions about treatment choices.

	treatment choices.
Fieldpartners	Swiss osteopaths
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Dissemination	Publication of the overall CUTIES study protocol:
(Publications,	Carnes, D., Bright, P., Carrol, K., Engel, R., Grace, S., Vogel, S., & Vaucher,
Conferences)	P. (2020). Crying Unsettled and disTressed Infants Effectiveness Study of
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	protocol. International Journal of Osteopathic Medicine, 38, 31-38. doi:
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