

Training course for chronic fatigue syndrome or ME is effective for children alongside specialist care

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A training course that aims to ease symptoms of chronic fatigue syndrome is effective and probably cost-effective when provided alongside specialist care for children with mild to moderate illness, finds a trial published by the journal *Archives of Disease in Childhood*.

It is the first trial to demonstrate the effectiveness of an intervention other than [cognitive behavioral therapy](#) (CBT) also known as 'talking therapy' for patients with [chronic fatigue syndrome](#).

Chronic fatigue syndrome or myalgic encephalomyelitis (CFS/ME) is relatively common. Children are disabled by fatigue and other symptoms such as headaches, muscle and joint pain and problems concentrating. Children have a poor quality of life but its causes remain unclear.

The Lightning Process (LP) is a three-day training programme that draws on concepts from osteopathy, life coaching and neurolinguistic programming (links between brain processes, language and behavioral patterns). It teaches [children](#) to use the brain to improve their health.

More than 250 children use the Lightning Process for their CFS/ME each year in the UK (at an average cost of £620), but there are no reported studies investigating its effectiveness, cost-effectiveness or side effects. The LP is not available in the National Health Service (NHS).

So a research team, led by Professor Esther Crawley at the University of Bristol, set out to investigate the effectiveness and cost-effectiveness of the Lightning Process in addition to specialist medical care, compared with [specialist care](#) alone, for children with CFS/ME.

They recruited 100 English-speaking children (aged 12-18 years) with mild to moderate CFS/ME, of whom 49 received specialist medical care only (SMC) and 51 received specialist medical care plus the Lightning Process (SMC+LP).

Data from 81 children were analysed at 6 months. Physical function was measured using a recognised questionnaire called the SF-36-physical function subscale. Data on pain, anxiety, depression, [school attendance](#) and cost-effectiveness from a health service perspective were collected at 3, 6 and 12 months.

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Participants in both treatment groups improved. However, at 6 months, children who received the LP in addition to specialist medical care, had better physical function and less fatigue and anxiety. At 12 months, children in the SMC+LP group had less [fatigue](#), anxiety, and depression and increased school attendance.

The results remained largely unchanged after further analyses.

SMC+LP was probably more cost-effective than SMC alone (a difference in average net cost at 12 months of £1,474).

The authors outline some study limitations, the most important of which

are that they have not shown that the LP is effective on its own but only in addition to specialist medical care. They also point out that we do not know if the LP is effective for younger children. However, strengths include the randomised design and that patients were followed up for 12 months.

"The main difference between LP and CBT appears to be the emphasis placed on physiological responses and causal attributions," explain the authors. "But we do not know whether these explain the greater effectiveness of LP."

"We do not know which aspects of the LP are the most important or helpful," they add. "Further research is needed to understand why LP improves outcomes at 6 and 12 months and which aspects of the LP contribute to its effectiveness," they conclude.

More information: Clinical and cost-effectiveness of the Lightning Process in addition to specialist medical care for paediatric chronic fatigue syndrome: randomised controlled trial, *Archives of Disease in Childhood* (2017). [adc.bmj.com/lookup/doi/10.1136 ... dischild-2017-313375](https://adc.bmj.com/lookup/doi/10.1136/archdischild-2017-313375)

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