**Muscle Testing**

The principles of muscle testing were first described in 19491 and then developed to include different muscles and grading scales for the evaluation of muscle action2 3. George Goodheart, a chiropractor from the US, suggested that muscle testing could have a wider application than the common biomechanical interpretation4. From clinical observation he suggested that muscle tests could be used to detect dysfunction of other body systems.

There is limited and sometimes conflicting research into the science of muscle testing. One study5 compared indicator muscle testing with traditional diagnostic methods in patients with thyroid problems and found it to be a valuable tool that complemented laboratory and clinical diagnosis. An orthopaedic surgeon, Anna Rolfes6, suggests from her own and others research that the indicator muscle test can show subtle neuromuscular changes due to stressful stimuli and could be considered a form of biofeedback. A review of over 100 observational cohort studies demonstrated good external[[1]](#endnote-1) and internal validity[[2]](#endnote-2), and 12 randomized controlled trials (RCTs) showed that muscle testing findings were not dependent upon examiner bias7. There is also some evidence of its application to allergy and food sensitivity testing8 9, as well as the possible neurophysiologic basis for the technique10-15.

I was trained in a specific technique of muscle testing by a well-respected Auckland rheumatologist and I view it as a potentially useful feedback process that aims to sense muscle tone changes in response to different input signals. The test is carried out with the patient lying comfortably on an examination couch and the arm (usually right) is raised to a vertical position. Pressure is then applied to the wrist while the patient attempts to resist and the strength or weakness of the response is sensed by the examiner (and often by the patient). This technique is considered to be part of complementary and alternative medicine (CAM) and I do not suggest that it is scientifically validated, supported by mainstream medicine or that strong reliance should be given to any findings. There are no known risks or side-effects of this form of muscle testing.

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1. this is the extent to which the results of a study can be generalized to other situations and to other people [↑](#endnote-ref-1)
2. this looks at whether the "cause" and the "effect" are related [↑](#endnote-ref-2)