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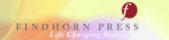
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**About Dr Roger Chalmers** Dr Roger Chalmers is a GP working in East Anglia. He has a longstanding interest in research on Transcendental Meditation and its medical applications.

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# Transcendental Meditation: Health Research Overview

by Dr Roger Chalmers (more info)

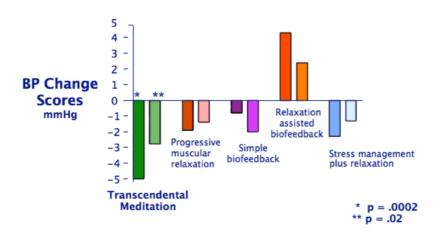
listed in meditation, originally published in issue 202 - January 2013

Transcendental Meditation (TM), as taught by Maharishi Mahesh Yogi, is a simple, effortless technique practised for 15-20 minutes twice daily. TM is taught by qualified teachers who have completed an extensive training programme. It requires no belief, nor any change in life-style or diet, and can be easily learned by anyone regardless of age, education, or culture.

> A systematic review and meta-analysis of 107 published studies on stress reduction and high blood pressure found that TM significantly reduced both systolic and diastolic blood pressure, while other methods of meditation and relaxation, biofeedback, and stress management did not produce significant effects. A second meta-analysis by an independent team confirmed that TM leads to clinically important reductions in blood pressure.

More than five million people have learned the technique worldwide. Since 1970, more than 600 research studies on TM have been conducted at over 250 universities and research institutions in 30 countries. Many have appeared in peer-reviewed journals.

# Meta-analysis of Stress Reduction Programmes in Patients with Elevated Blood Pressure



Rainforth M et al. Current Hypertension Reports 2007 9:520-528

# **Improved Cardiovascular Health**

In recent years, a multicentre American team has attracted grants totalling over \$25 million, principally from the US National Institutes of Health, for research on TM and cardiovascular health in older African-Americans (a high-risk group for vascular disease). These and other randomized controlled trials (RCTs) have shown:

- In a nine-year RCT of patients with coronary heart disease, TM led to a 48% reduction in the rate of major clinical events (all-cause mortality plus non-fatal myocardial infarction and stroke) compared to controls who received education on risk factor reduction, including diet modification and exercise;[1]
- TM was more effective in reducing mild hypertension than progressive muscular relaxation or a 'usual care' programme;[2]
- TM reduced blood pressure effectively in both sexes and across a range of risk subgroups;[3] costeffectiveness compared favourably with drugs;[4]
- Follow-up studies confirmed sustained blood pressure reductions with TM;[5]
- TM reduced carotid artery atherosclerosis compared to controls who received health education;[6]
- · Pooled data from two randomized studies on hypertensive older people showed that TM was associated with a 23% reduction in all-cause mortality and a 30% decrease in cardiovascular deaths; [7, 8]
- In patients with stable coronary heart disease, TM decreased both blood pressure and insulin resistance key components of the 'metabolic syndrome' associated with many major disorders of modern society.

- including CHD (coronary heart disease), type 2 diabetes, and hypertensive disease. TM also increased stability of the cardiac autonomic nervous system;[9]
- TM improved functional capacity and quality of life in patients with chronic heart failure. TM subjects also showed reduced depression and had fewer hospitalizations;[10]
- In university students, TM reduced blood pressure, and also decreased total psychological distress, anxiety, depression, and anger/hostility; and improved coping;[11]
- In pre-hypertensive adolescents, TM improved blood pressure at rest, during acute laboratory stress, and during normal daily activity;[12]
- TM decreased left ventricular mass in pre-hypertensive adolescents compared to a control group receiving
  health education, indicating reduction of an early sign of left ventricular hypertrophy (the strongest predictor
  of cardiovascular mortality apart from age).[13]

A systematic review and meta-analysis of 107 published studies on stress reduction and high blood pressure found that TM significantly reduced both systolic and diastolic blood pressure, while other methods of meditation and relaxation, biofeedback, and stress management did not produce significant effects.[14] A second meta-analysis by an independent team confirmed that TM leads to clinically important reductions in blood pressure.[15] The authors conclude that sustained blood pressure changes of the magnitude produced by TM would be associated with substantially decreased risk of heart attack and stroke, the leading cause of mortality worldwide. These findings are corroborated by other reviews addressing the role of TM in prevention and treatment of hypertension and cardiovascular disease.[16-17]

Controlled research on TM has also found: improved exercise tolerance in angina patients with documented coronary lesions; reduction of elevated cholesterol (independent of dietary changes); improvements in clinical and ECG variables in patients with cardiac syndrome X (anginal pain, positive exercise ECG, and normal angiogram); lower cortisol levels and reduced cardiovascular risk factors in post-menopausal women.[18-21]

## Improved Quality of Life and Well-being in Women with Breast Cancer

A recent randomized controlled trial examined effects of TM on quality of life and well-being in women with breast cancer (stage II to IV; average age 63.8 years). Using well-validated measures over an 18-month period, subjects practising TM showed improvements in overall quality of life, emotional well-being, social well-being, and mental health compared to control patients.[22]

# Improved Health and Well-being for Elderly People

A meticulously-controlled randomized study from Harvard University found that elderly people who learned TM showed greater improvement on measures of mental health, cognitive flexibility, blood pressure, and well-being, and lower mortality than three comparison groups from the same residential institutions (who learned either a relaxation technique, 'mindfulness' training, or received no treatment).[23]

## Improved Psychological Health and Reduced Substance Abuse

Many studies have documented benefits from TM for mental health and reduced substance abuse.[1, 10-11, 22-31, 45-47] In meta-analyses, TM was more than twice as effective as other meditation and relaxation procedures in reducing anxiety and improving overall psychological health.[24, 25] Results remained robust after controlling for strength of design and exclusion of studies by experimenters with a known interest in TM.[24]

Another series of meta-analyses found that TM was significantly more effective in reducing smoking, alcohol consumption, and illicit drug use than conventional programmes, whether or not these were combined with relaxation techniques.[26]

A randomized controlled trial found that TM was more effective than psychotherapy in decreasing multiple features of post-traumatic stress disorder (PTSD) in war veterans, with reductions in depression, anxiety, insomnia, severity of delayed stress syndrome, emotional numbness, alcohol consumption, family problems, and difficulty in obtaining employment.[27] These findings are supported by a recent study of five US veterans of the Iraq and Afghanistan wars with PTSD. After eight weeks' practice of TM, subjects showed a 50% reduction in PTSD symptoms, including decreased stress and depression, and marked improvements in relationships and overall quality of life.[28]

### **Decreased Health Care Needs and Costs**

Research on health care utilization indicates that TM could play an important role in primary prevention and reduction of health costs. A 14-year retrospective study of 2836 people enrolled in the Quebec provincial health insurance scheme found that, after beginning TM, subjects showed a progressive decline in payments to physicians compared to controls. The average annual difference was 13%, leading to a cumulative cost reduction of 55% after six years.[32]

These findings are supported by further analyses of two important subgroups whose costs contribute strongly to overall health care expenditure: for the highest-cost 10% of subjects, the TM group's payments decreased by 11% over one year, with a cumulative reduction of 28% after five years; and for subjects over 65 years, the TM group showed a five-year cumulative cost reduction of 64%.[33, 34]

Earlier research using data from Blue Cross/Blue Shield, a major US health insurer, found that both hospital admissions and outpatient consultations were over 50% fewer for subjects practising TM compared to norms and controls. In the over-40 age group, the reduction was over 70%. Hospital admissions were markedly reduced in all 17 disease categories studied.[35]

# Deep Rest and Increased Integration of Brain Functioning

The physiological basis of TM's effects has been extensively investigated, revealing a unique state of restful alertness during the technique, characterized by increased integration in brain functioning and by metabolic, electrophysiological and biochemical markers of deep rest. Regular practice is associated with sustained increases in brain integration and reductions in psychophysiological correlates of stress and ageing.[36-42, 23]

# Improvements in Education, Occupational Health, and Rehabilitation

Educational research has shown that TM develops intelligence and creativity, increases brain integration in college students, promotes cognitive and self development, increases academic achievement in school, university, and postgraduate students, improves perception and mind-body co-ordination, decreases negative school behaviour in adolescents, and improves brain integration, cognitive functioning, behaviour and symptoms in children with ADHD. [43-47] TM has also been found to improve occupational health and performance,[29] and to promote effective rehabilitation of offenders.[48]

### Improved Collective Health for Society

More than 50 controlled studies (including prospective projects) have found that collective practice of TM (and its advanced techniques, particularly Yogic Flying) by a small fraction of the total population can improve the collective health of society as a whole, as measured by reductions in crime, accidents, unemployment, and both civil and international conflict, and improvements in positive trends throughout the community, nation, and world.[49-50]

### **Further Information on Transcendental Meditation**

Contact details at the websites www.t-m.org.uk and DoctorsonTM.org Contact telephone enquiry line for TM in the UK is 01695 51213

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