



Name(s)	Project Number
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Project Title	
Stress Buster	
Objectives/Goals Abstract	
To investigate if Transcendental Meditation will have an effect on blood pressure	re, heart rate, respiratory
rate, and skin temperature. Methods/Materials	
Materials: Biodots, an automatic blood pressure machine, a pen, a notebook, and a timer	
Method: The first step was to identify 10 meditators, who have been meditating for last 6 months at least 5	
times per a week, and 10 non-meditators as my subjects and get their consents, I labelled them M1-M10	
for meditators and NM1-NM10 for non-meditators. I met with my subjects individually and measured the blood pressure, heart rate, respiratory rate, and skin temperature at 0 minutes. Next, I asked the subject to	
either do transcendental meditation for the meditator group or rest with their eyes open for the	
non-meditator group for 15 minutes and then measured all the vital signs again.	
every subject two more times.	
Results The average systolic blood pressure change in non meditators for all trials was -4.93 compared to -6.90	
for the meditator group. The average change in diastolic blood pressure in non meditators for all trials was	
-3.53 compared to -3.5 for meditator group. The average change in heart rate in non meditators for all	
trials was -2.8 compared to -4.43 in meditator group. The average change in respiratory rate in non	
meditators for all trials was 1.37 compared to -1.90 in the meditator group. The a change in non meditator for all trials was 0.47 compared to 3.43 in the meditato	
Conclusions/Discussion	group.
My hypothesis that Transcendental Meditation will have a greater effect on blood pressure, heart rate,	
respiratory rate, and skin temperature was correct. I also observed that even resting without doing the TM changes the vital signs, but the difference in the blood pressure, heart rate, respiratory rate, and skin	
temperature was greater for the meditator group then the non meditator. The strongest evidence of TM	
being more effective in increasing relaxation was found in the skin temperature. The vital sign that had the	
least difference between the two groups was the diastolic blood pressure. Overall, the Transcendental	
Meditation technique would reduce the harmful effects of stress and improve your overall health.	
Summary Statement	
Effect of Transcendental Meditation on vital signs	
Help Received	
Mother helped in taking me to the subjects for reading, shopping for the materials and display board	