Physical Therapy and Proper Sleep Positions Lead to Improved Hamstring Flexibility

Bailey Miley | Dr. Ryan Button | Tyler Junior College

Research Question
How effectively can physical therapy and correct sleep positioning improve hamstring flexibility and reduce pain, based on age and everyday activity?

Hypothesis and Quote
Physical therapy and correct sleep positioning improve hamstring flexibility in one hundred percent of the participants; however, versatility decreases with age and fluctuates with activity possibly leaving some outliers.

“If the human body’s strength and flexibility are given attention, people will be more attentive for the unexpected.”

Abstract
Research on injury prevention can be found dedicated to specific sports groups and the general population. This study was designed to focus on the population at Tyler Junior College, so that proper methodology that works for everyone may be established. This research project answers the author’s question of how effectively physical therapy and correct sleep positioning can improve hamstring flexibility, based on participant ages and everyday activities. The overall goal is to implement beneficial habits into the minds of people who live active lives, so injuries may be prevented and pain may decrease. The motivation behind this research project’s results is that it benefited all of my participants to an extent and will benefit everyone in need of effective methodology.

Independent Variable

Visual Observations

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Survey Results

Implications for Future Research
• One specific group should be analyzed for more accurate comparisons.
• Apache Belles Spring Show: one participant could not wear a Fitbit during that time. This problem can be avoided with more detailed communication.
• Resolve Old Habits: Track physical therapy progress in a clinical environment. Track sleep positions with pictures of positioning before they go to sleep and when they arise each day. This requirement could prevent them from forgetting to sleep as instructed. It may also aid in tracking restlessness.

Essential References