

**CRITICAL REVIEW FORM: QUANTITATIVE STUDIES**  
**Emory University Orthopedic Physical Therapy Residency Program**

Adapted from: Law M and MacDermid J. Evidence-Based Rehabilitation: A Guide to Practice. 2<sup>nd</sup> ed. Thorofare, NJ. Slack Inc. 2008.

Citation:

**Study purpose:**

Was the purpose stated clearly? Yes  No

Outline the purpose of the study. How does the study apply to physical therapy and/or your research question?

**Literature:**

Was relevant background literature reviewed? Yes  No

Describe the justification of the need for this study.

**Design:**

Randomized  Cohort  Single case design  Case-control  Cross-sectional  Case study

Describe the study design. Was the design appropriate for the study question (eg. For knowledge level about this issue, outcomes, ethical issues, etc.)?

Specify any biases that may have been operating and the direction of their influence on the results.

**Sample:**

N=

Was the sample described in detail? Yes  No

Was the sample size justified? Yes  No

Sampling (who; characteristics; how many; how was sampling done?) If more than one group, was there similarity between the groups?

Describe ethics procedures. Was informed consent obtained?

**Outcomes:**

Were the outcome measures reliable? Yes  No

Were the outcome measures valid? Yes  No

Specify the frequency of outcome measurement (i.e. pre, post, follow-up)

Outcome areas (dependent variables)

**Intervention:**

Intervention was described in detail? Yes  No

Provide a short description of the intervention (focus, who delivered it, how often, setting). Could the intervention be replicated in physical therapy practice?

**Results:**

Results were reported in terms of statistical significance? Yes  No

Were the analysis methods appropriate? Yes  No

Clinical importance was reported? Yes  No

What were the results? Were they statistically significant? If not statistically significant, was the study big enough to show an important difference if it should occur? If there were multiple outcomes, was that take into account for the statistical analysis?

What was the clinical importance of the results? Were differences between groups clinically meaningful?

Drop outs were reported? Yes  No

Did any participants drop out from the study? Why? (Were reasons given and were drop-outs handled appropriately?)

**Conclusions and clinical implications:**

Conclusions were appropriately given for study methods and results? Yes  No

What did the study conclude? What are the implications of these results for physical therapy practice? What were the main limitations or biases in the study?

