





Home ► All Journals ► Brain Injury ► List of Issues ► Volume 34, Issue 3 ► The ability of CNS vital signs to detect ....

Brain Injury > Volume 34, 2020 - Issue 3

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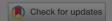
Articles

# The ability of CNS vital signs to detect coached sandbagging performance during concussion baseline testing: a randomized control trial

M. N. Anderson , L. B. Lempke, D. H. Bell, R. C. Lynall & J. D. Schmidt Pages 369-374 | Received 15 Apr 2019, Accepted 28 Jan 2020, Published online: 06 Feb 2020

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a Visual Analog Scale (0-100 mm).

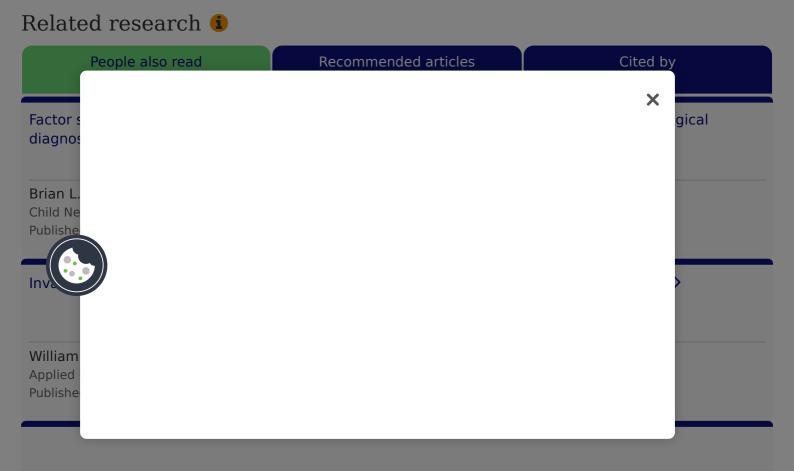
Results: Built in invalidity indicators successfully identified 68.0% of sandbaggers, while only 12% in the control group presented with invalid scores. Participants in the sandbagging group on average reported significantly lower effort (sandbag:  $51.0 \pm 21.0$ , control:  $86.0 \pm 12.0$ , p < .001)

Conclusions: Built-in CNS Vital Signs validity indicators have an overall high accuracy in identifying those attempting to purposefully sandbag and are comparable to other computerized neurocognitive tests. Given that 32% of intentional sandbaggers went undetected, clinicians should consider additional safeguards to detect these individuals at baseline.

Q KEYWORDS: Psychometric mild-traumatic brain injury neurocognitive testing

# Declaration of interest

The authors report no declarations of interest.



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Brain Injury

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