

ABSTRAK

Validitas dan Reliabilitas Wisconsin Card Sorting Test (WCST) *Online Computerized*: Korelasi Skor WCST dengan Prestasi Akademik dan Tinjauannya dalam Islam

Cognitive flexibility (CF) merupakan salah satu inti dari suatu set perkembangan diotak yang disebut *executive function*. CF memiliki peran dalam mengubah perspektif untuk memecahkan suatu masalah secara fleksibel sesuai dengan tuntutan, aturan, maupun prioritas baru. CF memiliki keterkaitan yang erat dengan penyesuaian perilaku dalam perubahan lingkungan. Dalam pengukurannya digunakan tes neuropsikologi Wisconsin Card Sorting Test (WCST) yang dikembangkan oleh Berg dan Grant. WCST kemudian dikembangkan berbasis *online computerized*. Penelitian mengenai WCST di Indonesia masih belum banyak ditemukan, terutama berbasis *online computerized*. Penelitian ditujukan untuk mengetahui reliabilitas dan validitas Wisconsin Card Sorting Test (WCST) berbasis *online computerized* dalam mengukur *cognitive flexibility* (CF). Metode analisis validitas yang digunakan adalah uji validitas kriterial konkuren, korelasi antara skor kesalahan perseverasi pada WCST *online computerized* dengan Indeks Prestasi Kumulatif (IPK) mahasiswa di Indonesia. Metode analisis reliabilitas split-half dilakukan dengan membagi total percobaan dari skor kesalahan perseverasi menjadi dua bagian, yaitu bagian tes pertama (percobaan 1 sampai 30) dan tes kedua (percobaan 31 hingga 60), dan juga skor tes yang memiliki urutan item ganjil/genap. Validitas didapatkan dari 148 partisipan adalah $r = 0.133$, $p = 0.163$ dan koefisien reliabilitas split-half Spearman-Brown untuk bagian awal/akhir dan ganjil/genap berturut-turut $r = 0.608$, $r = 0.805$, dengan nilai signifikan $P < .001$. Kesimpulan dari penelitian ini, WCST *online computerized* reliabel namun tidak valid dalam mengukur CF. Dalam kaidah Islam, penggunaan WCST *online computerized* dalam pengukuran CF ini dinilai wajib sebagai sarana menuntut ilmu serta mengembangkan ilmu pengetahuan dan teknologi yang bermanfaat bagi masyarakat luas.

Kata kunci: alat ukur, WCST *online computerized*, split-half, kriteria, mahasiswa Indonesia.

ABSTRACT

Validity and Reliability of Wisconsin Card Sorting Test (WCST) Online Computerized: Correlation of WCST Score with Academic Achievement and Review in Islam

Cognitive flexibility (CF) is one of the cores of a set of brain development called executive function. CF has a role in changing perspectives to solve a problem flexibly according to new needs, rules, and priorities. CF has a close relationship with behavioral adjustment in environmental changes. The measurement used neuropsychological test Wisconsin Card Sorting Test (WCST) developed by Berg and Grant. WCST was then developed on the online computerized verse. Research on WCST in Indonesia is still not widely found, especially based on computerized online. This study aimed to determine the reliability and validity of the Wisconsin Card Sorting Test (WCST) online computerized in measuring cognitive flexibility (CF). The validity analysis method used is the concurrent criterion validity test, the correlation between the perseveration error scores on the computerized online WCST and the Grade Point Average (GPA) of students in Indonesia. The split-half reliability analysis method was carried out by dividing the total experiment from the perseveration error score into two parts, namely the first test section (items 1 to 30) and the second test (items 31 to 60), as well as test scores that had an odd/even order of items. The validity obtained from 148 participants, was $r = 0.133$, $p = 0.163$ and the Spearman-Brown split-half reliability coefficient for the beginning/end and odd/even sections respectively $r = 0.608$, $r = 0.805$, with a significant value of $P < .001$. The conclusion of this study, computerized online WCST is reliable but not valid in measuring CF. According to Islamic principles, the use of computerized online WCST in measuring CF is considered mandatory as a means of studying and developing science and technology that is beneficial to the wider community.

Keywords: measurement, WCST online computerized, split-half, criterion, Indonesian college student.