

## The Study of Intelligence Profiles Between Islands: A Preliminary Study Towards Norm Development

Andika Octavianto, Mohammad A. G. Priadi,  
and Magdalena S. Halim  
Faculty of Psychology  
Atma Jaya Catholic University of Indonesia  
Indonesia

Christiany Suwartono  
Faculty of Psychology  
Atma Jaya Catholic University of Indonesia  
Donders Institute for Brain, Cognition and Behavior,  
Radboud University, Nijmegen  
The Netherlands

The aim of this study was to compare the intelligence of Indonesians residing in different islands using the Indonesian WAIS-IV (WAIS-IV-ID), which could be further considered in standardized norm development. Statistical analyses using ANOVAs were performed on the 15 subtests, four indices, and the Full-Scale Intelligence Quotient (FSIQ) of the WAIS-IV-ID. This study involved 506 healthy participants, the majority were females, in productive age-groups ranging from 16 to 59 years old, and from middle educational background. Results showed that three indices and 13 subtest scores had significant results and the sample from Java Island had significantly higher scores than the sample from Sumatra, Borneo, and Sulawesi Islands. Based on the conducted analysis, the normative data of the WAIS-IV-ID need to be classified differently between islands or between Java Island and Non-Java Island for more accurate score interpretation. The interpretations and implications of the findings are discussed.

*Keywords:* WAIS-IV, intelligence profiles, islands, Wechsler scale, Indonesia

Tujuan penelitian ini adalah membandingkan kecerdasan masyarakat Indonesia yang tinggal di pulau yang berbeda dengan menggunakan WAIS-IV-ID untuk masukan dalam pembuatan standarisasi (norma) WAIS-IV-ID ini. Pengujian statistik dilakukan dengan analisis ANOVA untuk 15 subtes, empat indeks, dan *Full-Scaled Intelligence Quotient* (FSIQ) dari WAIS-IV-ID. Penelitian ini melibatkan 506 partisipan dari populasi normal, dengan mayoritas berjenis kelamin perempuan, usia produktif 16-59, dan latar belakang pendidikan menengah. Hasil menunjukkan bahwa tiga indeks dan 13 subtes memiliki perbedaan yang signifikan dan sampel yang berasal dari Pulau Jawa memiliki skor signifikan lebih tinggi bila dibandingkan sampel dari Sumatera, Kalimantan, dan Sulawesi. Berdasarkan analisis yang dilakukan, data normatif perlu diklasifikasikan berbeda antarpulau atau antara Pulau Jawa dan Non-Pulau Jawa untuk interpretasi yang lebih akurat dari skor-skor WAIS-IV-ID. Rekomendasi lebih lanjut tersebut telah dibahas.

*Kata kunci:* WAIS-IV, profil kecerdasan, pulau-pulau, skala Wechsler, Indonesia

The Wechsler scale of intelligence is one of the most widely used tools for intelligence measurement (Camara, Nathan, & Puente, 2000). The original version of the Wechsler intelligence test, the Wechsler-Bellevue Intelligence Scale (WBIS) was developed in 1939 and has changed several times. Internationally, the WBIS was changed into the WAIS, WAIS-R, WAIS-III, and finally, the latest

version of Wechsler Intelligence measurement tools is the WAIS-IV (Lichtenberger & Kaufman, 2009). Besides measuring intelligence, the WAIS-IV is widely used in clinical settings, such as for measuring cognitive functions (Baxendale, 2011) and epilepsy (Baxendale, McGrath, & Thompson, 2014). Because of the advantages of this measurement tool, the WAIS-IV has been adapted by many countries, including Indonesia (Suwartono, Halim, Hidajat, Hendriks, & Kessels, 2014).

Indonesia is one of the countries that have adapted the WAIS-IV. The adaptation is important because

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Correspondence concerning this article should be addressed to Andika Octavianto or Christiany Suwartono, Faculty of Psychology, Atma Jaya Catholic University of Indonesia, Jakarta, Indonesia. Email: andikaoctavianto@gmail.com or christiany.suwartono@atmajaya.ac.id