

Nur Fitriya Rahayu. 2023. Penerapan Model Pembelajaran *Brain Based Learning* Berbantuan *Brain Gym* Terhadap Kemampuan Berpikir Kritis Siswa. Skripsi, Program Studi Pendidikan IPA, Fakultas Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing Wiwin Puspita Hadi, S.Si., M.Pd

ABSTRAK

Penelitian ini bertujuan untuk mengetahui perbedaan kemampuan berpikir kritis siswa sebelum dan sesudah pembelajaran menggunakan model *Brain Based Learning* berbantuan *Brain Gym*. Metode yang digunakan dalam penelitian ini adalah metode eksperimen dengan desain *Pre-Experimental One Group Pretest-Posttest Design*. Penelitian ini dilakukan di SMP Muhammadiyah 05 Bungah Gresik, menggunakan populasi seluruh kelas VIII dengan teknik pengambilan sampel adalah *sampling jenuh*, sampel yang digunakan sebanyak 18 siswa. Bentuk tes kemampuan berpikir kritis adalah soal uraian yang berjumlah 10 soal. Teknik analisis hipotesis menggunakan uji-t sampel berpasangan. Berdasarkan hasil penelitian, dapat disimpulkan bahwa: 1) Terdapat perbedaan sebelum dan sesudah penerapan model pembelajaran *Brain Based Learning* berbantuan *Brain Gym* terhadap kemampuan berpikir kritis pada materi sistem ekskresi manusia, ditunjukkan dengan hasil uji T berpasangan nilai signifikansi sebesar $0,000 < 0,05$, maka H_0 ditolak dan H_1 diterima. 2) Terdapat peningkatan penerapan model pembelajaran *Brain Based Learning* berbantuan *Brain Gym* terhadap kemampuan berpikir kritis pada materi sistem ekskresi manusia ditunjukkan pada hasil N-Gain sebesar 0,6 dengan kategori sedang. 3) Hasil keterlaksanaan pembelajaran diperoleh rata-rata persentase aktivitas siswa sebesar 85,72% dengan kategori sangat baik dan pada aktivitas guru sebesar 100% dengan kategori sangat baik. 4) Hasil angket respons siswa diperoleh rata-rata sebesar 83,92 dengan kategori sangat baik

Kata Kunci: Kemampuan Berpikir Kritis Siswa, Model Pembelajaran *Brain Based Learning*, *Brain Gym*, Materi Sistem Ekskresi Manusia.

Nur Fitriya Rahayu. 2023. *Implementation of the Brain Based Learning Model use Brain Gym to the Student's Critical Thinking Skills*. Thesis, Natural Science Education, Education Faculty, University of Trunojoyo Madura. Advisor: Wiwin Puspita Hadi, S.Si., M.Pd

ABSTRACT

This research aimed at differences in students' critical thinking skills before and after implementation of the Brain Based Learning model assisted by Brain Gym. The mode used in this study is an experimental method with a Pre-Experimental One Group Pretest-Posttest Design. This research was conducted at SMP Muhammadiyah 05 Bungah Gresik, used the entire class VIII population with the sampling technique being sampling jenuh, the sample used was 18 students. The form of the critical thinking ability test is a description question which amounts to 10 questions. Hypothesis analysis technique was paired sample t-test. Based on the results of the reserach, it can be concluded that: 1) There are differences before and after the implementation of the Brain Gym-assisted Brain Based Learning learning model to critical thinking skills in the material of the human excretory system, indicated by the results of the paired T-test with a significance value of $0.000 < 0.05$, then H_0 is rejected and H_1 is accepted. 2) There are increased in the implementation of the Brain Gym-assisted Brain Based Learning learning model to the ability to critical thinking skills in the material of the human excretory system as shown in the N-Gain result of 0.6 in the medium category. 3) The results of the implementation of learning obtained an average proportion of student activity of 85.72% with a very good category and 100% of teacher activity with a very good category. 4) The results of the student response rate obtained an average of 83.92% with a very good category.

Keywords: *Critical Thinking Skills, Brain Based Learning Model, Brain Gym, material of the human excretory system*