PERBANDINGAN MODEL *COOPERATIVE LEARNING* JIGSAW TIPE II DENGAN *NUMBERED HEAD TOGETHER* (NHT) TERHADAP HASIL BELAJAR BIOLOGI SISWA PADA SUB MATERI POKOK HEWAN VERTEBRATA DI KELAS X SMA NEGERI 3 BINJAI TAHUN PEMBELAJARAN 2012/2013

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui perbandingan hasil belajar biologi siswa dengan model pembelajaran Jigsaw tipe II dan *Numbered Head Together* (NHT) pada sub materi pokok hewan vertebrata di kelas X SMA Negeri 3 Binjai tahun pembelajaran 2012/2013. Jenis penelitian ini adalah quasi eksperimen. Populasi penelitian adalah seluruh siswa kelas X SMA Negeri 3 Binjai yang berjumlah 315 orang siswa. Sampel penelitian diambil secara acak (random) sebanyak 80 orang siswa. Alat yang digunakan untuk pengumpulan data adalah tes (pre-tes dan pos-tes) yang berbentuk soal pilihan berganda yang terdiri dari 30 butir soal. Hasil penelitian menunjukkan bahwa rata-rata hasil belajar siswa pada kelas eksperimen Jigsaw tipe II sebesar 78,85 dengan SD = 12,56 sedangkan untuk kelas eksperimen *Numbered Head Together* (NHT) sebesar 71,1 dengan SD = 16,82. Persentase peningkatan hasil belajar siswa yang diajarkan dengan model pembelajaran Jigsaw tipe II sebesar 10,90% jika dibandingkan dengan model pembelajaran *Numbered Head Together* (NHT). Dari perbandingan aspek kognitifnya (C1-C6) terlihat bahwa persentase siswa yang menjawab soal pos-tes dengan benar pada hampir semua aspek kognitif lebih besar terdapat pada kelas Eksperimen Jigsaw tipe II. Berdasarkan ketuntasan siswa pada kelas eksperimen Jigsaw tipe II dengan daya serap 70% adalah 32 siswa dengan persentase ketuntasan klasikal 87,5% sedangkan pada kelas eksperimen *Numbered Head Together* (NHT) ketuntasan individual sebanyak 24 siswa dengan persentase ketuntasan klasikal 72,55%. Tingkat penguasaan materi siswa baik kelas eksperimen Jigsaw tipe II maupun *Numbered Head Together* (NHT) dikategorikan dalam kategori sedang. Kelas eksperimen Jigsaw tipe II telah berhasil mencapai 5 indikator dari 6 indikator yang diberikan sedangkan kelas eksperimen *Numbered Head Together* (NHT) hanya mencapai 1 indikator. Dari hasil analisis data menggunkan uji-t dengan taraf signifikan = 0.05 diperoleh $t_{hitung} = 2,34 > t_{tabel} = 1,99$, maka H_a diterima dan H_0 ditolak berarti ada perbedaan yang signifikan antara hasil belajar siswa yang diajarkan dengan model pembelajaran Jigsaw tipe II dengan *Numbered Head Together* (NHT) ($t_{hitung} = 2,34 > t_{tabel} = 1,99$) dengan perbandingan 1,10:1.

Kata Kunci : *Pembelajaran Kooperatif Jigsaw tipe II, NHT, Hasil Belajar*

COMPARISON BETWEEN COOPERATIVE LEARNING MODEL JIGSAW TYPE II WITH NUMBERED HEAD TOGETHER (NHT) ON BIOLOGY STUDENT LEARNING OUTCOMES IN SUB TOPIC OF VERTEBRATES IN CLASS X SMA N 3 BINJAI ACADEMIC YEAR 2012/2013

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ABSTRACT

This study aimed to compare the learning outcomes of Biology students with learning model Jigsaw Type II and Numbered Head Together (NHT) in sub topic of vertebrates in class X SMA N 3 Binjai academic year 2012/2013. The research was quasi-experimental. The study population was all 315 students of class X SMA Negeri 3 Binjai. Samples were taken randomly totaling 80 students. The tools used for data collection were a test (pre-test and post-test) in the form of multiple choice questions that consisted of 30 items. The results showed that the average of student learning outcomes in Jigsaw type II experimental class was 78.85 with SD = 12.56, while in Numbered Head Together (NHT) was 71.1 with SD = 16.82. Increasing percentage of student learning outcomes which taught by learning model Jigsaw type II was 10.90% compared to the learning model Numbered Head Together (NHT). From the cognitive aspects comparison (C1-C6) showed that the percentage of students who answered the post-test questions correctly on almost all aspects were greater in Jigsaw type II experimental class. Based on the students completeness in Jigsaw type II experimental class with 70% absorption were 32 students with classical completeness percentage of 87.5% while in Numbered Head Together (NHT) experimental class the individual mastering was 24 students with classical completeness percentage of 72.55%. The level of student mastering both in the Jigsaw type II experimental class and Numbered Head Together (NHT) were categorized in medium. Jigsaw type II experimental class had successfully achieved 5 of 6 indicators given while the Numbered Head Together (NHT) was only 1 indicator. From the data analysis results using the t-test with significance level of = 0.05 got that the t count = 2.34 > t table = 1.99, so Ha was accepted and H0 was rejected, meant that there was a significant differentiation between the students learning outcomes who taught by learning model of Jigsaw type II with Numbered Head Together (NHT) (t count = 2.34> t table = 1.99) with a ratio of 1,10:1.

Keyword : *Cooperative Learning Jigsaw Type II, NHT, Student Achivement*