

ABSTRAK

INDAYANA FEBRIANI TANJUNG: Pengaruh Model Pembelajaran Kooperatif Tipe *Think Pair Share* (TPS) dan *Numbered Heads Together* (NHT) Terhadap Hasil Belajar Biologi dan Kemampuan Berpikir Kritis Siswa Madrasah Aliyah Negeri 1 Medan. Tesis. Medan: Program Pascasarjana UNIMED, 2013.

Penelitian bertujuan untuk mengetahui: (1) Pengaruh penggunaan model pembelajaran kooperatif tipe *Think Pair Share* (TPS), *Numbered Heads Together* (NHT) dan pembelajaran konvensional terhadap hasil belajar biologi siswa pada materi ekosistem di kelas X MAN 1 Medan, dan (2) Pengaruh penggunaan model pembelajaran kooperatif tipe *Think Pair Share* (TPS), *Numbered Heads Together* (NHT) dan pembelajaran konvensional terhadap kemampuan berpikir kritis siswa pada materi ekosistem di kelas X MAN 1 Medan. Metode penelitian menggunakan kuasi eksperimen dengan sampel penelitian sebanyak 3 kelas yang ditentukan secara acak dengan teknik *cluster random sampling*. Instrumen penelitian menggunakan tes kemampuan berpikir kritis sebanyak 27 soal; tes hasil belajar sebanyak 37 soal dalam bentuk pilihan berganda yang telah diuji validitas, reliabilitas, daya beda, dan tingkat kesukarannya. Teknik analisis menggunakan anakova dengan bantuan program SPSS 19.0.

Hasil penelitian menunjukkan: (1) ada pengaruh yang signifikan penggunaan model pembelajaran kooperatif tipe *Think Pair Share* (TPS), *Numbered Heads Together* (NHT) dan pembelajaran konvensional terhadap hasil belajar biologi siswa pada materi ekosistem di kelas X MAN 1 MEDAN ($F_{hitung} = 53,727 > F_{tabel} = 3,80$). Hasil belajar biologi siswa yang dibelajarkan dengan model pembelajaran kooperatif tipe TPS $80,80 \pm 5,543$ secara signifikan lebih tinggi dibandingkan hasil belajar biologi siswa dibelajarkan dengan model pembelajaran kooperatif tipe NHT $74,21 \pm 5,718$ maupun siswa yang dibelajarkan dengan model pembelajaran konvensional $66,20 \pm 7,65$; (2) ada pengaruh yang signifikan penggunaan model pembelajaran kooperatif tipe *Think Pair Share* (TPS), *Numbered Heads Together* (NHT) dan pembelajaran konvensional terhadap kemampuan berpikir kritis siswa pada materi ekosistem di kelas X MAN 1 MEDAN ($F_{hitung} = 28,305 > F_{tabel} = 3,80$). Kemampuan berpikir kritis siswa yang dibelajarkan dengan model pembelajaran kooperatif tipe TPS $83,48 \pm 6,055$ secara signifikan lebih tinggi dibandingkan kemampuan berpikir kritis siswa dibelajarkan dengan model pembelajaran kooperatif tipe NHT $79,97 \pm 6,188$ maupun siswa yang dibelajarkan dengan model pembelajaran konvensional $72,78 \pm 7,156$. Sebagai tindak lanjut dari penelitian ini diharapkan kepada guru untuk dapat menerapkan model pembelajaran TPS dalam upaya meningkatkan hasil belajar dan kemampuan berpikir kritis siswa pada pembelajaran biologi.

Kata Kunci: Hasil Belajar Biologi, Kemampuan Berpikir Kritis, *Think Pair Share* (TPS), *Numbered Heads Together* (NHT), Pembelajaran Konvensional.

ABSTRACT

INDAYANA FEBRIANI TANJUNG: The Influence of Cooperative Learning Model type *Think Pair Share* (TPS) and *Numbered Heads Together* (NHT) to Biology Learning Results and Critical Thinking Capability of Students in State Madrasah Aliyah 1 Medan. Thesis. Medan. Post Graduates Program Study, UNIMED, 2013.

This research is intended to know: (1) the influence of using cooperative learning model type *Think Pair Share* (TPS), *Numbered Heads Together* (NHT) and conventional to biology learning result in the main material of ecosystem in class X State Madrasah Aliyah 1 Medan, and (2) the influence of using cooperative learning model type *Think Pair Share* (TPS), *Numbered Heads Together* (NHT) and conventional to critical thinking capability in the main material of ecosystem in class X State Madrasah Aliyah 1 Medan. The method of research used quasi-experiment method with 3 classes taken randomly with cluster random sampling technique. The instrument of research used critical thinking capability test for 27 questions. Learning results test for 37 questions with multiple choice form. Its validity and reliability, difference rate and difficulty level have been tested. Analysis technique used anacova with SPSS program version 19.0.

The results of research showed that (1) there was significant influence of using cooperative learning model type *Think Pair Share* (TPS), *Numbered Heads Together* (NHT) and conventional to the students' learning results of biology in the main material of ecosystem in class X State Madrasah Aliyah 1 Medan ($F_{\text{count}} = 53,727 > F_{\text{table}} = 3,80$). The students' learning results of biology which are taught with TPS $80,80 \pm 5,543$ and it was significantly higher compared to NHT $74,21 \pm 5,718$ and conventional $66,20 \pm 7,65$; and (2) there was significant influence of using cooperative learning model type *Think Pair Share* (TPS), *Numbered Heads Together* (NHT) and conventional to the students' critical thinking capability of biology in the main material of ecosystem in class X State Madrasah Aliyah 1 Medan ($F_{\text{count}} = 28,305 > F_{\text{table}} = 3,80$). The students' learning critical thinking capability which are taught with TPS $83,48 \pm 6,055$ and it was significantly higher compared to NHT $79,97 \pm 6,188$ and conventional $72,78 \pm 7,156$. As the follow-up of this research, it is expected for those teachers to apply cooperative learning model type TPS in increasing biology learning results and critical thinking capability in biology learning.

Key words: Biology Learning Results, Critical Thinking Capability, *Think Pair Share* (TPS), *Numbered Heads Together* (NHT), Conventional Learning.

