ABSTRAK

EVY MARIA BR MELIALA. "Pengaruh Model Pembelajaran *Scientific Inquiry* Terhadap Pengetahuan Konseptual dan Keterampilan Proses Sains Siswa SMA". Program Pascasarjana Universitas Negeri Medan, 2018,

Penelitian bertujuan untuk mengetahui pengaruh model pembelajaran *scientific inquiry* terhadap pengetahuan konseptual dan keterampilan proses sains siswa SMA. Populasi penelitian adalah seluruh siswa kelas XI MIA SMA Negeri 1 Delitua, semester I tahun ajaran 2018/2019. Pemilihan sampel dilakukan secara *cluster random sampling* yaitu kelas XI MIA-1 sebagai kelas eksperimen diterapkan model pembelajaran *scientific inquiry* dan kelas XI MIA-2 sebagai kontrol diterapkan pembelajaran konvensional. Jenis penelitian ini merupakan penelitian quasi eksperiment dengan *two group pretest posttest.* Instrumen yang digunakan dalam penelitian yaitu instrumen pengetahuan konseptual dalam bentuk essai sebanyak 10 soal dan instrumen keterampilan proses sains dalam bentuk essai sebanyak 10 soal yang telah dinyatakan valid oleh tim ahli. Dari hasil penelitian disimpulkan bahwa uji hipotesis pertama diperoleh t_{hitung} = 2,92 dengan α = 0,05 diperoleh t_{abel} = 1,99. Membandingkan t_{hitung} dengan t_{abel} ternyata jika $t_{hitung} > t_{tabel}$ berarti pengetahuan konseptual siswa dengan menerapkan model pembelajaran *scientific inquiry* lebih baik dari pada menerapkan pembelajaran konvensional. Uji hipotesis kedua diperoleh t_{hitung} = 3,53 dengan α = 0,05 diperoleh t_{tabel} = 1,99. Membandingkan t_{hitung} dengan t_{abel} ternyata $t_{hitung} > t_{tabel}$, berarti keterampilan proses sains siswa dengan menerapkan model pembelajaran *scientific inquiry* lebih baik dari pada menerapkan pembelajaran konvensional.

Kata kunci : Model Pembelajaran S*cientific Inquiry*, Pengetahuan Konseptual, Keterampilan Proses Sains.

ABSTRACK

EVY MARIA BR MELIALA. " The Effect of Scientific Inquiry Learning Model on Student's Concept Knowledge and Science Process Skills in Senior High School". Postgraduate School of the State University of Medan 2018.

Study aimed to analyze the effect of scientific inquiry learning model on concept knowledge and science process skills in senior high school students. The population of this research is all student of class XI MIA Senior High School 1 Delitua, semester I academic year 2018/2019. Selection of sampleis done by cluster random sampling that is XI MIA-1 as experiment class applied scientific inquiry learning and XI MIA-2 as control class applied conventional learning. This research is a quasi experimental research with two group pretest posttest design. Instrument used in this research is instrumen of concept knowledge in essay form as much as 10 problem and instrumet of science process skills in essay form as much as 10 problem which have been declared valid by expert team. Form the result of the study concluded that the first hypothesis test obtained $t_{counted}$ = 2,92 with α = 0,05 obtained t_{table} = 1,99.By comparing $t_{counted}$ with t_{table} turns $t_{counted} > t_{table,}$this means concept knowledge of students applying scientific inquiry model better than the student's concept knowledge with conventional learning. The second hypothesis obtained $t_{counted}$ = 3,53 with α = 0,05 obtained t_{table} = 1,99. By comparing that with t_{table} turns $t_{counted} > t_{table}$, it means the science process skills of students by applying the scientific inquiry learning model is better than applying conventional learning model.

Keyword : Scientific Inquiry Learning Model, Concept Knowledge, Science Process Skills