

ABSTRAK

Hiba Dertyana Siregar (NIM: 8126176013) Pengaruh Model Pembelajaran Kooperatif *Group Investigation* dan Pemahaman Konsep Awal Terhadap Keterampilan Proses Sains Siswa SMA. Program Pascasarjana Universitas Negeri Medan 2015.

Penelitian ini bertujuan untuk mengetahui: perbedaan keterampilan proses sains siswa yang menggunakan model pembelajaran kooperatif *group investigation* dengan model pembelajaran *direct instruction*, perbedaan keterampilan proses sains siswa yang memiliki pemahaman konsep awal tinggi dan rendah, dan interaksi model pembelajaran kooperatif *group investigation* dan model pembelajaran *direct instruction* dengan pemahaman konsep awal dalam meningkatkan keterampilan proses sains siswa.

Penelitian ini merupakan penelitian quasi eksperimen. Sampel dalam penelitian ini dilakukan dengan teknik *cluster random sampling* sebanyak dua kelas, dimana kelas X-3 sebagai kelas kontrol yang diajarkan dengan model pembelajaran *direct instruction* dan kelas X-2 sebagai kelas eksperimen yang diajarkan dengan model pembelajaran kooperatif *group investigation*. Instrumen yang digunakan dalam penelitian ini adalah tes pemahaman konsep awal dalam bentuk pilihan ganda yang terdiri dari 10 soal dan tes keterampilan proses sains dalam bentuk pilihan ganda sebanyak 15 soal.

Dari hasil penelitian dapat disimpulkan bahwa: 1) ada perbedaan keterampilan proses sains siswa yang diajarkan dengan menggunakan model pembelajaran kooperatif *group investigation*, 2) ada perbedaan keterampilan proses sains siswa yang memiliki pemahaman konsep awal tinggi dan rendah, 3) terdapat interaksi antara model pembelajaran kooperatif *group investigation* dan pemahaman konsep awal terhadap keterampilan proses sains siswa.

Kata kunci: model pembelajaran kooperatif *group investigation*, pemahaman konsep awal, keterampilan proses sains.

ABSTRACT

Hiba Dertyana Siregar (NIM: 8126176013) Effect of Cooperative Learning Model Group Investigation and Preliminary Concepts Understanding Of Science Process Skills in Senior High School Students. Postgraduated School, State University of Medan in 2015.

This study aims to: know the difference science process skills of students using cooperative learning model group investigation with direct instruction teaching model, know the difference science process skills of students who have an understanding of the concept of high and low initial, and the interaction model of cooperative learning group investigation and learning model with an understanding of the concept of direct instruction beginning in improving students' science process skills.

This study is quasi exsperiment. The sample in this research was done by using cluster random sampling two classes, where class X-3 as the control class is taught by direct instruction and learning model class X-2 as the experimental class taught by cooperative learning model group investigation. Instruments used in this research is understanding the concept of the initial test in the form of multiple-choice comprised of 10 questions and test science process skills in the form of 15 questions of multiple choice. From the results of this study concluded that: 1) there are differences in students' science process skills are taught using cooperative learning model group investigation, 2) there is a difference science process skills of students who have an understanding of the concept of high and low initial, 3) there is an interaction between the model of cooperative learning group investigation and understanding of the initial concept of the science process skills that students have a better learning model applied to students who have an understanding of the high initial concept.

Keywords: cooperative learning group investigation, understanding initial concepts, science process skills.