

ABSTRAK

HERAWATI DONGORAN. Pengaruh Model Pembelajaran dan *Self Efficacy* terhadap Kemampuan Pemecahan Masalah dan Keterampilan Proses Sains Siswa pada Materi Sistem Ekskresi di MAN 1 Medan. Tesis. Program Pascasarjana Universitas Negeri Medan. 2015.

Penelitian ini bertujuan untuk mengetahui pengaruh serta interaksi model pembelajaran dan *self efficacy* terhadap: (1) Kemampuan pemecahan masalah; dan (2) Keterampilan proses sains siswa kelas XI di MAN 1 Medan. Metode penelitian menggunakan kuasi eksperimen dengan sampel penelitian sebanyak 3 kelas dari 6 kelas XI IPA yang diambil dengan menggunakan metode *purposive sampling*. Instrumen penelitian menggunakan tes kemampuan pemecahan masalah dan keterampilan proses sains siswa dalam bentuk tes uraian, dan nontes berupa angket *self efficacy*. Teknik analisis menggunakan statistik deksriptif dan *Statistic Inferensial Parametric* atau *Multivariate Analysis of Variance* (MANAVA) dengan taraf signifikan 5% dengan SPSS 20. Hasil penelitian menunjukkan: (1) Ada pengaruh yang signifikan model pembelajaran terhadap kemampuan pemecahan masalah ($p=0,024<0,05$); (2) Ada pengaruh yang signifikan model pembelajaran terhadap keterampilan proses sains ($p=0,000<0,05$); (3) Ada pengaruh yang signifikan *self efficacy* terhadap kemampuan pemecahan masalah ($p=0,000<0,05$); (4) Ada pengaruh yang signifikan *self efficacy* terhadap keterampilan proses sains ($p=0,000<0,05$); (5) Ada interaksi yang signifikan antara model pembelajaran dan *self efficacy* siswa terhadap kemampuan pemecahan masalah ($p=0,004<0,05$); dan (6) Ada interaksi yang signifikan antara model pembelajaran dan *self efficacy* siswa terhadap keterampilan proses sains ($p=0,001<0,05$). Sebagai tindak lanjut dari hasil penelitian ini diharapkan kepada guru untuk dapat menerapkan model pembelajaran dan *self efficacy* pada materi sistem ekskresi dalam upaya meningkatkan kemampuan pemecahan masalah, dan keterampilan proses sains siswa di sekolah.

Kata Kunci: *Self Efficacy*, *Kemampuan Pemecahan Masalah*, *Keterampilan Proses Sains*, *Sistem Ekskresi*.

ABSTRACT

HERAWATI DONGORAN. The Effect of Learning Model and *Self Efficacy* on Ability to Problem Solving and Process of Science Skills Students to the Matter a System of Excretion at MAN 1 Medan. Thesis. Postgraduated of Medan State University. 2015.

This study aims to know the effect and learning model interaction and *self efficacy* to: (1) Ability to problem solving; and (2) Process of science skills students in class XI at MAN 1 Medan. The research methods using quasi experiment with the study sample as much as 3 class of 6 class XI science taken by the use of *purposive sampling method*. The research instrument using test of ability to problem solving and process of science skills students in the form of essay test, and nontest form a questionnaire of *self efficacy*. Analysis techniques using descriptif statistic and *Statistic Inferensial Parametric* or *Multivariate Analysis of Variance* (MANAVA) with significant level of 5% with SPSS 20. The research results show: (1) There are significant influence of learning model to ability problem solving ($p=0,024<0,05$); (2) There are significant influence of learning model to process of science skills students ($p=0,000<0,05$); (3) There are significant influence of *self efficacy* to ability problem solving ($p=0,000<0,05$); (4) There are significant influence of *self efficacy* to process of science skills students ($p=0,000<0,05$); (5) There are significant interaction between learning model and *self efficacy* of students to ability problem solving ($p=0,004<0,05$); and (6) There are significant interaction between learning model and *self efficacy* of students to process of science skills students ($p=0,001<0,05$). As a follow-up of this research result expected to the teacher to be applied learning model and *self efficacy* of the matter a system of excretion in efforts to improve the ability problem solving, and process of science skills students in the school.

Key Word: *Self Efficacy, Ability to Problem Solving, Process of Science Skills, System of Excretion.*