

ABSTRAK

Ajeng Lola Prianti. Analisis Keterampilan Proses Sains, Kemampuan Berpikir Tingkat Tinggi dan Sikap Ilmiah siswa pada Materi Sistem Respirasi Pada Manusia di SMA Negeri Se-Kota Langsa. Tesis Program Pascasarjana Universitas Negeri Medan 2019.

Tujuan penelitian ini untuk mengetahui keterampilan proses sains, kemampuan berpikir tingkat tinggi dan sikap ilmiah siswa berdasarkan lokasi sekolah, berdasarkan jenis kelamin pada materi sistem respirasi pada manusia di kelas XII SMA Negeri se-Kota Langsa. Penelitian merupakan penelitian *Ex Post Facto*. Sampel penelitian ini adalah siswa kelas XII IPA sebanyak 150 orang. Keterampilan proses sains dan kemampuan berpikir tingkat tinggi siswa diperoleh menggunakan dalam bentuk tes uraian/essay, sedangkan sikap ilmiah diperoleh dengan menggunakan angket. Data yang diperoleh dianalisis dengan analisis deskriptif kuantitatif. Hasil penelitian menunjukkan bahwa keterampilan proses sains siswa SMA Negeri Se-kota Langsa tergolong Tinggi (74,02). Berdasarkan lokasi sekolah keterampilan proses sains SMA Negeri Se-kota Langsa berbeda signifikan diperkotaan lebih tinggi yaitu (75,28) dibandingkan dengan SMA yang berada di daerah desa (73,18). Berdasarkan Jenis kelamin keterampilan proses sains tidak berbeda signifikan pada perempuan tergolong lebih tinggi (74,55) dibandingkan dengan keterampilan proses sains laki-laki (71,59) tergolong Tinggi. Kemampuan berpikir tingkat tinggi siswa SMA Negeri Se-kota Langsa tergolong sedang (67,29). Berdasarkan lokasi sekolah kemampuan berpikir tingkat tinggi SMA Negeri Se-kota Langsa berbeda signifikan di daerah kota lebih tinggi (71,91) di bandingan SMA yang berada di daerah desa (64,21). Berdasarkan jenis kelamin kemampuan berpikir tingkat tinggi tidak berbeda signifikan pada perempuan tergolong sedang (67,49) hal ini tidak berbeda dengan laki-laki yang memiliki kemampuan berpikir tingkat tinggi tergolong sedang (65,31). Sikap ilmiah siswa SMA Negeri Se-kota Langsa tergolong baik (76,96). Berdasarkan lokasi sekolah sikap ilmiah siswa SMA terdapat perbedaan yang signifikan di daerah perkotaan tergolong lebih baik (83,00) dibandingkan SMA yang berada di daerah pedesaan tergolong baik (72,93). Namun juga, Sikap ilmiah siswa perempuan tergolong baik (78,32) tidak terdapat perbedaan signifikan pada siswa laki-laki juga tergolong baik (71,89).

Kata Kunci: Analisis, keterampilan proses sains, kemampuan berpikir tingkat tinggi, sikap ilmiah, sistem respirasi manusia.



ABSTRACT

Ajeng Lola Prianti. *Analysis of science process skills, higher order thinking skills and science attitudes on human respiration topics of senior high school student's in Langsa City. Postgraduate Thesis of State University of Medan.*

The purpose of this research was conducted to find out student's science process skills, higher order thinking skills (HOTS) and science attitudes according to school location and gender. This research was Ex post facto research. 150 third grader students were taken as sample in each chosen school. Student's science process skills and higher order thinking skills data were obtained by essay tests, while data of student's science attitude was obtained by questionnaire. Data were analyzed by descriptive quantitative analysis. Results showed student's science process skills in Langsa City was in medium category (74,02). Based on school locations in Langasa, student's science process skills in City (75,28) was significantly higher than students in Village (73,18). According to student's gender, female students was higher (74,55) in science process skills compare to male students (71,59), but not significantly different. Both genders were in medium category. Senior high school student's higher order thinking skills in Langsa City was in medium category (67,29). Based on school locations in Langsa, student's higher order thinking skills in City (71,91) was significantly higher than students in Village (64,21). Looking from their gender, the results was not significantly different in both Male (65,31) and Female students (67,49). Student's science attitudes in Langsa was in good category (76,96). Based on school locations in Langsa, student's science attitudes in City (83,00) was significantly higher from students who schooled in Village (72,93). Based on gender, science attitudes of Both Male (71,89) and Female (78,32) students was good and not significantly different.

Keywords: *Analysis, science process skills, higher order thinking skills, science attitude, human respiration system*

