

ABSTRAK

SYARIFAH HUSNA PULUNGAN. Analisis Kemampuan Proses Sains, Sikap Ilmiah, Berpikir kritis Siswa Kelas XI IPA SMA Negeri DI Kabupaten Padang Lawas. *Tesis. Program Pascasarjana Universitas Negeri Medan*. 2018.

Penelitian ini bertujuan untuk mengetahui kemampuan proses sains, sikap ilmiah, berpikir kritis siswa berdasarkan indikator pada materi Sistem Pencernaan di kelas XI IPA SMA di Kabupaten Padang Lawas .penelitian ini adalah penelitian deskriptif dengan pendekatan kuantitatif. Sampel penelitian ini adalah siswa kelas XI IPA sebanyak 126 orang. Kemampuan proses sains siswa diperoleh dengan menggunakan tes dalam bentuk uraian, sikap ilmiah dengan angket, sedangkan berpikir kritis diperoleh menggunakan tes dalam bentuk uraian. Data yang diperoleh dianalisis dengan analisis deskriptif. Hasil penelitian menunjukkan bahwa kemampuan proses sains siswa SMA Kabupaten Padang Lawas tergolong sedang (77). Berdasarkan indikator kemampuan proses sains adalah baik untuk observasi (80), interpretasi data (75), berhipotesis (74), merencanakan percobaan (83), menerapkan konsep (74), berkomunikasi (76), mengelompokkan (78), menafsirkan (81), mengajukan pertanyaan (68). Sikap ilmiah siswa SMA Kabupaten Padang Lawas tergolong sedang (75). Berdasarkan indikator sikap ingin tahu (73), sikap luwes (78), sikap kritis (76), sikap jujur (74), sikap ketelitian (74). Berpikir kritis siswa SMA Kabupaten Padang Lawas tergolong sedang (69). Berdasarkan indikator menghubungkan (69). Membandingkan dan kontras (69). Kelompok dan klasifikasi (70). Pengurutan (68). Memprioritaskan (68). Menganalisis (68). Mendeteksi bias (69). Mengevaluasi (69). Membuat kesimpulan (70). Disimpulkan bahwa kemampuan proses sains, sikap ilmiah, dan berpikir kritis siswa walaupun tergolong baik tetapi masih perlu peningkatan upaya untuk hasil yang lebih baik.

Kata Kunci: Kemampuan Proses sains, Sikap Ilmiah, Berpikir Kritis, Sistem Pencernaan.

ABSTRACT

SYARIFAH HUSNA PULUNGAN. An Analysis of Students' Science Process Skills, Scientific Attitudes, and Critical Thinking Skills of the Eleventh Grade Science Program of State Senior High Schools in Padang Lawas Regency. Thesis. Postgraduate Program of Universitas Negeri Medan. 2018.

This study aims to determine the students' science process skills, scientific attitudes, and critical thinking skills based on indicators on the material of human digestive system for the eleventh grade students of State Senior High School in Padang Lawas Regency. This study was a descriptive research with a quantitative approach. The sample was 126 students of the eleventh grade science program. The students' science process skills was obtained by using the essay tests, scientific attitudes were measured by questionnaires, while critical thinking skills were obtained by using the essay tests as well. The data obtained were analyzed by descriptive analysis. The results showed that students' science process skills of the State Senior High School in Padang Lawas Regency was moderate (77). Based on the indicator of the science process skills was good to observation (80), data interpretation (75), hypothesize (74), planning a trial (83), apply the concept (74), communicate (76), classify (78), interpret (81), and asking question (68). The students' scientific attitudes in Padang Lawas Regency were classified as medium (75). Based on indicators of curiosity (73), flexibility (78), critical attitude (76), honest attitude (74), attitude of precision (74). Students' critical thinking skills of Padang Lawas Regency were classified as medium (69). Based on the linking indicator (69), Compare and contrast (69), Group and classification (70), Ordering (68), Prioritize (68), Analyze (68), Detect bias (69), Evaluate (69), Make conclusions (70). It was concluded that the students' science process skills, scientific attitudes, and critical thinking skills although classified as good but still needed to increase the efforts for better results.

Keywords: Science Process Skills, Scientific Attitudes, Critical Thinking Skills, Human Digestive System