

**THE EFFECTIVITY OF INTERACTIVE MULTIMEDIA AS LEARNING
MEDIA TO REDUCE STUDENT'S MISCONCEPTION ON
HUMAN CIRCULATORY SYSTEM AT SMA
NEGERI 1 BERASTAGI ACADEMIC
YEAR 2016/2017**

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ABSTRACT

This study aimed to analyze the student's misconception on human circulatory system topic and also to determine the effectivity of interactive multimedia to reduce students misconception that experienced by students of XII IPA in SMA Negeri 1 Berastagi. The method used in research is descriptive and quasi experimental where the descriptive method is to investigate students understanding of concept and students misconception based on human circulatory system topic. Second, quasi experimental research used after learning process. Quasi experimental research used to determine the effectivity of interactive multimedia in reducing student's misconception and increasing students understanding. The design of quasi experimental research used one group pretest and posttest design. Instrument that used for detecting students misconception were two dimensional diagnostic test and essay test, for reducing students misconception by using interactive multimedia as learning media. Student's misconception reduce 42.46 % in group that using interactive multimedia as learning media and reduce 14.8 % in group without interactive multimedia. Based on the calculation, it was got 0.57 as gain index value in group that using interactive multimedia and 0.30 as gain index value in group without interactive multimedia. The t-test result was t_{count} (6.598) and t_{table} (1.699), so t_{count} (6.598) > t_{table} (1.699). It was conclude that interactive multimedia is effective to reduce student's misconception on human circulatory system in SMA Negeri 1 Berastagi Class XII IPA academic year 2016/2017.

Keywords: Misconception, Students' Misconception, Human Circulatory System