

## CHAPTER V

### CONCLUSIONS AND SUGGESTIONS

#### 5.1. Conclusions

The conclusion for this observation is:

1. The results of students learning activities who were taught by Numbered Head Together Cooperative Learning Model on the subject of human sensory system class XI IPA SMA Negeri 1 Medan 2012/2013 increased by 6,89 where the average value is 71,95 at the 1<sup>st</sup> meeting and 78,84 at the 2<sup>nd</sup> meeting.
2. The results of students learning activities who were taught by Direct Instruction learning model on the subject of human sensory system class XI IPA SMA Negeri 1 Medan 2012/2013 increased by 0,53 where the average value is 49,73 at the 1<sup>st</sup> meeting and 50,26 at the 2<sup>nd</sup> meeting.
3. The results of students learning outcome who were taught by Numbered Head Together Cooperative Learning Model on the subject of human sensory system class XI IPA SMA Negeri 1 Medan 2012/2013 increased by 43,80 where the average value is 47,59 of pretest and 91,39 for posttest.
4. The results of students learning outcome who were taught by Direct Instruction learning model on the subject of human sensory system class SMA Negeri 1 Medan 2012/2013 increased by 35,65 where the average value is 47,22 of pretest and 82,87 for posttest.
5. Based on the t-test calculation ( $\alpha = 0.05$ ) obtained the proposed hypothesis is accepted, it can be concluded that there is a significant effect of applying Numbered Head Together Cooperative Learning Model on the students learning outcome and students learning activities on the subject of human sensory system class XI IPA SMA Negeri 1 Medan 2012/2013. The applying of Numbered Head Together Cooperative Learning Model is better than Direct Instruction learning model on the subject of human sensory system class XI IPA SMA Negeri 1 Medan 2012/2013.

## 5.2. Suggestions

Having considered the findings of this research, the suggestions are:

1. For biology teachers, Numbered Head Together Cooperative Learning Model is one of biology learning alternative which application could increases students learning outcome and learning activity.
2. The implementation of Numbered Head Together Cooperative Learning Model needs well preparation. There are eleven steps that will be implemented in the learning process. Some tools that support learning should be prepared for effective use of learning time.

