

CHAPTER V

CONCLUSION AND SUGGESTIONS

5.1. Conclusion

Based on the results of the research and discussion that has been described, the conclusions obtained in this study include the following:

1. Based on the results of the material expert assessment, the feasibility level of the STEM-based pocket book on human respiratory system material is categorized as "Very Feasible" with a total average score of 93.1%.
2. Based on the results of the learning expert assessment, the feasibility level of the STEM-based pocket book on human respiratory system material is categorized as "Very Feasible" with a total average score of 100%.
3. Based on the results of the design expert assessment, the feasibility level of the STEM-based pocket book on human respiratory system material is categorized as "Very Feasible" with a total average score of 94.3%.
4. The pocket book developed received a positive response from the teacher with a value of 98.2% and received the category "Very Feasible".
5. Students' response to the STEM-based pocket book on human respiratory system material as a whole was categorized as "Good" with an average score of 95.3% in individual trials, 98.9% in small group trials, and 97.7% in limited group trials.
6. Based on student learning outcomes, the average difference between experimental and control classes with a sig value. (2 tailed) is $0.000 < 0.05$. It can be concluded that H_0 is rejected and H_a is accepted, so there is a difference in the average learning outcomes of experimental and control class students.

5.2. Suggestion

Suggestions that can be proposed in connection with the results of this study include:

1. The need for large-scale trials of the products developed with larger subjects to obtain maximum results.
2. To see the effectiveness and practicality of the product, the use of the product should be carried out with optimal time so that a quality final product is produced.
3. There needs to be a follow-up development of STEM-based pocketbooks on respiratory system material in order to see learning outcomes other than cognitive aspects, namely in the skills aspect.
4. Pay attention to the distribution of cognitive questions correctly so that the calculation results are better
5. A more reliable source of material on the human respiratory system is needed so that the presentation of the material in the pocket book is easy to understand