

## ABSTRAK

**Putra, Tri Pramana** (2023). Pengembangan E-LKPD IPA Model Inkuiri berbasis *Socioscientific Issues* untuk Meningkatkan Kemampuan Literasi Sains Peserta Didik Kelas VII. Tesis, Pendidikan IPA, Program Pascasarjana, Universitas Pendidikan Ganesha.

**Kata Kunci:** E-LKPD, model inkuiri berbasis *Socioscientific Issues*, literasi sains

Penelitian ini bertujuan mendeskripsikan dan menjelaskan karakteristik, validitas, kepraktisan, dan efektivitas E-LKPD IPA model inkuiri berbasis *Socioscientific Issues* (SSI). E-LKPD menggunakan model inkuiri berbasis SSI untuk meningkatkan kemampuan literasi sains. Penelitian ini dikembangkan dengan model 4D dengan desain *one group pretest posttest*. Hasil penelitian menunjukkan bahwa 1) E-LKPD yang dikembangkan memiliki karakteristik berbasis *online*, disusun berdasarkan model inkuiri berbasis SSI, dan dilengkapi dengan latihan soal literasi sains; 2) Hasil uji validitas isi memperoleh koefisien validasi Gregory 0,97 dengan kategori sangat baik, uji validitas bahasa memperoleh skor rata-rata 83,7 dengan kategori sangat valid, dan uji validitas media memperoleh skor rata-rata 70 dengan kategori valid; 3) Penilaian praktisi oleh guru dan peserta didik menunjukkan E-LKPD sangat praktis dengan skor rata-rata berturut-turut 90,8 dan 82,9; dan 4) E-LKPD dinyatakan efektif meningkatkan kemampuan literasi sains peserta didik dengan *n-gain score* ternormalisasi 0,59 berkualifikasi sedang. Uji proporsi satu sampel menunjukkan persentase ketuntasan literasi sains peserta didik secara klasikal lebih besar atau sama dengan 75%. Berdasarkan hasil penelitian, disimpulkan bahwa E-LKPD IPA model inkuiri berbasis *Socioscientific Issues* dinyatakan valid, praktis, dan efektif meningkatkan kemampuan literasi sains peserta didik.

## ABSTRACT

**Putra, Tri Pramana** (2023). The Development of Electronic Science Student Worksheets Inquiry Model Based on Socioscientific Issues to Improve Scientific Literacy Skills of Grade VII. Tesis, Science Education, Postgraduate Program, Ganesha University of Education.

**Keywords:** Electronic Student Worksheet, Inquiry Models based on Socioscientific Issues, Scientific Literacy

This research aims to describe and explain the characteristics, validity, practicality, and effectiveness of electronic science student worksheets based on Socioscientific Issues inquiry models. Electronic student worksheets combined with SSI-based inquiry models to improve scientific literacy skills. This research was developed using 4D model with one group pretest posttest design. The results showed that 1) The characteristics of the electronic student worksheets are online-based, compiled based on the SSI-based inquiry model, and equipped with scientific literacy exercises; 2) The results of the content validity test obtained the Gregory validation coefficient value of 0.97 with a very valid category, the language validity test obtained an average score of 83.7 with a very valid category, and the media validity test obtained an average score of 70 with a valid category; 3) Assessment by teachers and students showed that the E-LKPD was very practical with an average score of 90.8 and 82.9 respectively; and 4) Electronic student worksheets are effective in improving students' scientific literacy skills with a normalized *n-gain* score of 0.59 with moderate qualifications. The one-sample proportion test shows that the percentage of students' scientific literacy mastery is classically greater or equal to 75%. The conclusion based on the results of the research is that electronic science student worksheet with inquiry model based on Socioscientific Issues are valid, practical, and effective in improving students' scientific literacy skills.