EDUCATION AND TRAINING ON MAKING PROCESS OF LIQUID SOAP OF HAND WASH FROM COCONUT OIL IN POHSANTEN VILLAGE, MENDOYO DISTRICT, JEMBRANA REGENCY

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Abstract

The community in Pohsanten Village, Mendoyo District, Jembrana Regency still does not understand the process of making hand-washing liquid soap from coconut oil. This has caused the use of coconut oil that is not widely used in the area. The purpose community service activities are: (1) providing counseling on the process of making hand-washing liquid soap base on coconut oil, (2) providing training and practice on the steps of making process of hand-washing liquid soap base on coconut oil, and (3) providing information regarding the evaluation of the quality of hand-washing liquid soap with sensory testing. Results of the community service activities show that: 1) education about hand-washing liquid soap making base on coconut oil has provided the information and knowledge required by the community in Pohsanten Village, 2) training of hand-washing liquid soap making base on coconut oil can be done either by the participants, 3) result a sensory test of hand-washing liquid soap was been produced each with a score of: color = 6.5 (like - really like), aroma = 6.3 (like - really like), foaming = 5.8 (rather like - likes), and clean (rough impression) = 6.1 (like - really like).

Keywords: hand-washing liquid soap, coconut oil, community in Pohsanten Village
**Introduction**

### Background
- Pohsanten Village is located in Jembrana District, Jembrana Regency with an area of 3,060 ha.
- The total population of Pohsanten Village was 8,990 people consisting of 4,253 men and 4,737 women (Anon, 2018a).
- Pohsanten Village has great potential in agriculture, with 1,965 ha of sandy land and field planting land. It is also supported by the community who 95% work in the agriculture sector (Anon, 2018b). The village is one of the coconut producing areas in Jembrana Regency.
- Coconuts that can be processed into liquid soap can be used as raw material in making liquid soap, because coconut oil is a component of the 2:1:6 chain (C16:0) which can affect the final results of liquid soap. Liquid soap is defined as a liquid cleansing material made from liquid detergent based on the addition of other ingredients that are permitted and used without harming the skin (SNP, 2009:300-309).
- The people in Pohsanten Village do not have the knowledge and skills in hand washing liquid soap technology.
- Thus, the training activities of hand washing liquid soap for PKH mothers and young women in Pohsanten Village will be used as a business opportunity to improve the family's economy.

### The purpose community service activities:
1. Providing education on the process of making hand washing liquid soap based on coconut oil.
2. Providing training and practice on the steps for making hand washing liquid soap with coconut oil.
3. Providing information regarding the evaluation of the quality of hand washing liquid soap with sensory testing.

**Implementation Methods**

1. **Strategic Target Audience**
   - This activity was attended by community members, such as PPK mothers and young women as well as community representatives in Pohsanten Village, Mendoay District, Jembrana Regency, namely a group of 40 people.

2. **Implementation Activities**
   1. Implementation of education in the form of lectures in a room equipped with presentation media, education material on making hand washing liquid soap from coconut oil-based with a formula and process flow diagram.
   2. Training and direct practice of making hand washing liquid soap from coconut oil-based with various odor and color, in addition to involving participants.
   3. Sensory test to determine the level of preference for hand washing liquid soap produced by participants, then using panelists to give the implementing team.

3. **Activity Evaluation**
   1. Assessment of participants during education sessions, through activities during discussions and feedback and attendance list.
   2. The ability of participants to make hand washing liquid soap made from coconut oil during the training, by using the results of group products.
   3. Quality of hand washing liquid soap products by sensory testing.

**Results of Activities**

The Uluguru Genre Program was held on Saturday, August 18, 2018 at the office meeting room of Pohsanten Village. The activity was attended by 40 participants from PPK mothers and young women and community representatives.

The formula for making hand washing liquid soap: 1) Coconut oil 2) Various odor and color 3) Various ingredients 4) Sensory test 5) Quality of hand washing liquid soap products.

**Conclusion**

1. Education about making hand washing liquid soap from coconut oil has provided information and knowledge needed by the Pohsanten Village community.
2. Training in making hand washing liquid soap from coconut oil can be done well by the participants.
3. Sensory test results of the level of preference for hand washing liquid soap has been produced, each with a score for color > 6.7 (tlye-one line), aroma > 6.5 (tlye-one line), burning > 5.6 (other-like line) and clean (rough impression) > 5.6 (rough line).

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