



## Chips as processed food need a Certificate of Home Industry Food



Suprajitno<sup>1</sup>, Sri Mugianti<sup>2</sup>

<sup>1,2</sup>Department of Nursing, Poltekkes Kemenkes Malang, Indonesia

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### Abstract

Chips made from local plants can be used as processed food. Chips produced as a home industry that are consumed are required a Certificate of Home Industry Food (Pangan Industri Rumah Tangga / P-IRT) as a guarantee of food safety. The target of community service is home industry of producing chips that do not yet have a home industry food certificate. And the subject target are six women. The intervention was carried out for the home industry of chips in Kel. Bendo Kec. Kepanjen Kidul Blitar City in April-May 2022. The intervention was assistance for the licensing process. Requirements for issuing certificates of participation in food safety counselling, health of food processors, and information on processed food labels. There were five certificates for processed food certificates for tempe chips, taro chips, potato chips, cassava chips, and sweet tubers chips. The certificate of P-IRT guarantees the safety of processed food for consumption and sale. The impact of the issuance of certificates, sales of chips increased so that family income also increased.

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✉ Correspondence Address:

Poltekkes Kemenkes Malang – East Java, Indonesia

Email: [suprajitno\\_skp@poltekkes-malang.ac.id](mailto:suprajitno_skp@poltekkes-malang.ac.id)

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**INTRODUCTION**

Chips as a traditional food in Indonesia have been known for a long time. Chips are often used as a snack during free time. Chips as processed food from home industry can be used as a source of family income. The Indonesian people have natural resources in the form of plants that can be used for chips, namely tempeh, taro, potatoes, cassava, and sweet tubers.

Home industry is a household business that has 1-4 workers (BPS, 2022), it can also be interpreted that the type of small-scale business activity is generally often found in rural areas and around the house (Redaksi-OCBC-NISP, 2021). Home industry in Kel. Bendo that can be identified is making tempe chips, taro chips, potato chips, cassava chips, and sweet tubers chips. Such industry is referred to as the processed food industry. Even though it is a source of family income, the chips that have been produced cannot be widely marketed in food stores on the grounds that they do not have a Certificate of Home Industry Food (*Pangan Industri Rumah Tangga / P-IRT*).

The Regulation of the Board of Food and Drug Supervisory states that every processed food is required to be registered and has a certificate (BPOM, 2017, 2018). The Food Registration and Certificate is an effort by the Government to protect consumers as the right to comfort, security, and safety in consuming goods and/or services and the producer's obligation to treat or serve consumers correctly and honestly and non-discriminatory (Pemerintah, 1999). Based on the explanation, it is necessary to carry out community service activities about the certification of chips as the processed food so that it has an economic impact.

**METHOD**

The target of community service is home industry of producing chips that do not yet have a home industry food certificate. The number of target subjects as many as six women, who play a role in the production process of chips. The role of everyone is sorting raw materials, slicing ingredients into thin, frying chips, and packing chips. The method of service is already participation in food safety training, food processing training, supervised of the production process, and licensing assistance. Training is carried out by the Health Office of Blitar City and carried out of licensing assistance at the Office of the Investment of Blitar City. The intervention is aimed at enabling home chip industry entrepreneurs to have a valid license. The time-of-service activities is carried out in April – May 2022. The place of activity is in Kel. Bendo Kec. Kepanjen Kidul Blitar City.

**RESULT**

Laboratory examination of Hepatitis A for chips food processors and clean water for processing was carried out by the Regional Health Laboratory of Blitar City on April 4, 2022. The results of the Hepatitis A (HAV) examination were Negative and the microbiological E-coli of water for processing obtained 2 MPN/100 mL. Certificates of Home Industry Food obtained as many as five certificates with the number 2113572010714-27; 2113572020714-27; 2113572030714-27; 2113572040714-27; and 2113572050714-27 dated April 7, 2022. While the food labels produced are as shown in Figure 1.



Figure 1 Chips label according to Certificate of P-IRT

## DISCUSSION

The test results of Hepatitis A virus for chip processors are negative. Health checks for food processors, especially Hepatitis A and the content of E-coli in water is a guarantee that the facilities and processors meet health requirements (BPOM, 2018). Laboratory examinations are also required to be carried out by a certified laboratory, so that the examination is carried out by a certified Blitar City Regional Health Laboratory (LabkesdaKotaBlitar, 2019). The results of the examination are then used as a recommendation requirement by the Blitar City Health Office for the issuance of Certificates of Home Industry Food. Hepatitis A is a liver disease caused by the hepatitis A virus, which is transmitted through food and water when in contact with patients (WHO, 2022). Thus, laboratory examinations of food processor are very necessary before certification and must be carried out periodically.

Escherichia Coli (E-coli) is a pathogenic bacteria in water that can contaminate the body and even damage the body's defense system (LIPI, 2010). E-coli bacteria can indicate the level of contamination of human waste in the water used for processing chips (Kurniadi et al., 2013). The results of the E-coli examination obtained 2 MPN/100 mL, so it is necessary to take action by giving chlorine periodically so that it becomes 0 MPN/100 mL (CV\_Zamzam, 2011; Menkes-RI, 1990). The amount of e-coli in water that is stated to be very small can guarantee that the water used is free from contamination with pathogenic bacteria and processed foods meet food safety requirements. Thus, chips do not harm humans if consumed and do not transmit disease.

Some of the requirements needed for the issuance of the Certificate of P-IRT are the suitability of the production room, production flow diagrams, results of laboratory examinations, Certificates of Food Safety Extension, and results of verification of the place and production process. The certificate of P-IRT is issued by the Blitar City One Stop Integrated Licensing Service. The requirements in question are in accordance with the Regulation of the Board of Food and Drug Supervisory of the Republic of Indonesia (BPOM, 2018).

The suitability of the production space from residential for the home industry is an important part so that the industry that aims to improve the

family economy does not interfere with the family's residence. Production flow diagrams are needed as an illustration of the placement of facilities and processes of processed food. The results of laboratory examinations aim to ensure that food processors are free from dangerous diseases, namely Hepatitis A and that the water used is free from pathogenic bacteria in the water. Participation in Food Safety Extension is needed as a guarantee that food processors know and must apply food processing standards in their industry. Counselling is a coaching effort for businessman to select raw materials, a safe production process, free from contamination by hazardous materials, and the accuracy of the final product handling process (UGM, 2017). Verification of the place and production process as an assessment activity for recommendations that the home industry has met the requirements and standards of food processing.

The owner of the Certificate of Home Industry Food is felt by businessman that it really helps the process of marketing processed food. The businessman statement that the production can be accepted by the shop requires Certificate of P-IRT, especially seller a typical Blitar gift shop and in tourist areas. The businessman statement is in line with the statement that a Certificate of P-IRT can be consumer confidence increases, competitiveness, and food safety increases (UGM, 2017). In fact, businessman really feel is an increase in sales turnover which ultimately increases family income from the sale of chips.

## CONCLUSION

Chips as a snack in order to be consumed safely and sold must have a Certificate of Home Industry Food, which can eventually be used as a source and increase family income.

## SUGGESTION

Processed foods in order to meet food safety standards need to have a Certificate of Home Industry Food because the management process is carried out with standardized testing.

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## CONFLICTS OF INTEREST

The authors have no conflict of interest in publishing the article.

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