

Food Poisoning Outbreak Following Sachet Drink Consumption — Sleman District, Indonesia, 2018

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Background: Gamping PHC reported to Sleman District Health Office that 15 elementary students had dizziness, nausea, and vomiting after consuming sachet drink at street food vendor (*angkringan*) on March, 23rd 2018. Investigation was conducted to verify the outbreak, to identify the risk factor and to know the preventive measures.

Methods: Active case finding was performed to find new cases in school and community. We conducted 1:4 case-control to find the risk factor. Cases were people who consumed food or drink from *angkringan* on March, 23rd 2018 and showed at least one of the symptoms of nausea, vomiting, dizziness, with or without stomachache, fever, diarrhea. Controls were people who consumed food or drink from *angkringan* on March, 23rd 2018 but showed no symptoms like cases. Data collected by interview using standart questionnaire and observation. Data was analyzed using Chi-square and logistic regression. Samples of drink and drinking water were tested for bacteria contamination on laboratory meanwhile sachet powder was tested for chemical contamination.

Results: We found 15 cases consisted of woman (73.3%) in 5-11 years age group. The main symptoms were dizziness (81.8%), nausea (72.7%), and vomiting (63.6%). Incubation period was 15-30 minutes. Analysis showed that “T” sachet drink was associated with food poisoning (aOR=7.52, 95% CI=1.99-28.40). Laboratory result from sachet drink sample was positive of *Bacillus cereus* and mold/yeast but in sachet powder and drinking water was negative. Observation result showed that eating utensils used for every drinks and was not properly cleaned.

Conclusions: Food poisoning outbreak occurred in Sleman on March 23rd 2018 after consuming sachet drink contaminated with *Bacillus cereus* and mold/yeast. Possible risk of transmission was poor eating utensils hygiene. Supervision and training of food safety was recommended to District Health Office. Making rules for students not to buy food outside in school time was recommended to the headmaster.

Keywords: Outbreak, *Bacillus cereus*, Sachet Drink