

**THE RELATIONSHIP BETWEEN PERSONAL HYGIENE AND ENVIRONMENTAL  
SANITATION AND IT IS BETWEEN ESCHERICHIA COLI AND SALMONELLA BACTERIA  
CONTAMINANTS ON PECEL LELE FRESH FOOD**

**(Study on Street Vendors in Sambiroto Subdistrict Semarang)**

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**ABSTRAK**

**Latar belakang:** Makanan merupakan kebutuhan dasar manusia dimana makanan yang dibutuhkan harus memenuhi syarat kesehatan serta kebersihan makanan. Faktor yang tidak kalah penting untuk diperhatikan oleh masyarakat yaitu menghindari adanya kontaminasi bakteri pada makanan. Kontaminasi makanan yang paling utama berasal dari penjamah makanan, peralatan, sampah, serangga, faktor lingkungan, udara dan air. **Tujuan:** penelitian ini untuk mengetahui hubungan antara *personal hygiene* dan sanitasi lingkungan dengan kontaminan bakteri *Escherichia coli* dan *Salmonella* pada makanan lalapan pecel lele di Kelurahan Sambiroto Semarang. **Metode:** Jenis penelitian ini observasional analitik dengan pendekatan *cross sectional*. Populasi seluruh pedagang pecel lele di Kelurahan Sambiroto Semarang. Sampel penelitian menggunakan total *sampling* yaitu 37 pedagang pecel lele. Variabel independen meliputi *personal hygiene* dan sanitasi lingkungan. Variabel dependen meliputi kontaminan bakteri *Escherichia coli* dan *Salmonella*. Analisis statistik yang digunakan adalah *Chi Square*. **Hasil:** Berdasarkan deskriptif analitik diperoleh *personal hygiene* kurang baik sebanyak 35,1%, sanitasi lingkungan kurang baik sebanyak 73,0%, keberadaan bakteri *Escherichia Coli* pada lalapan Kol sebanyak 56,8%. Keberadaan bakteri *Salmonella* pada lalapan Kol sebanyak 43,2%, *personal hygiene* dengan kontaminasi bakteri *Escherichia Coli* diperoleh *p value* 0,030, sanitasi lingkungan dengan kontaminasi bakteri *Escherichia Coli* diperoleh *p value* 0,009, *personal hygiene* dengan kontaminasi bakteri *Salmonella* diperoleh *p value* 0,045 dan sanitasi lingkungan dengan kontaminasi bakteri *Salmonella* diperoleh *p value* 0,023. **Kesimpulan:** ada hubungan *Personal Hygiene* dan Sanitasi Lingkungan dengan Kontaminasi Bakteri *Escherichia Coli* dan *Salmonella* pada Makanan Lalapan Pecel Lele (Studi Pedagang Kaki Lima Di Kelurahan Sambiroto Semarang)

**Kata kunci:** Personal Hygiene, Sanitasi Lingkungan, Escherichia Coli, Salmonella

**ABSTRACT**

**Background:** Food is human's basic need in which it must fulfill the food and hygiene requirements. The more important factor to consider by the societies is to avoid the bacteria contamination on food. Mostly it is caused by a food handler, equipments, garbage, insects, environmental factor, air and water. **The objective:** The objective of this research is to find out the relationship between personal hygiene and environmental sanitation and it is between *Escherichia coli* and *salmonella* bacteria contaminants on *pecel lele* fresh food in Sambiroto Subdistrict Semarang. **Method:** This is analytical observational research using cross sectional approach. The populations are all *pecel lele* street vendors in Sambiroto Subdistrict, Semarang. The samples use total sampling of 34 *pecel lele* street vendors. The independent variables include personal hygiene and environmental sanitation. The dependent variables are *Escherichia coli* and *salmonella* bacteria contaminants. *Chi Square* is utilized as the statistical analysis. **Result:** Based on the analytic descriptive, it is obtained that personal hygiene 35.1% and environment sanitation 73% are less good, the existence of *Escherichia Coli* on cabbage fresh is 56.8%, *Salmonella* bacteria is 43.2%, the *p value* of personal hygiene with *Escherichia Coli* bacterial contamination is 0.030, while for environmental sanitation with bacterial contamination is 0.009. Meanwhile, the *p value* of personal hygiene with bacterial contamination of *Salmonella* is 0.045 and environmental sanitation with *Salmonella* bacterial contamination is 0.023. **Conclusion:** There is a relationship between Personal Hygiene and Environmental Sanitation and it is between *Escherichia Colia* and *Salmonella* bacterial contamination on *Pecel Lele* Fresh Food (Study of Street Vendors in Sambiroto Subdistrict Semarang).

Keywords: Personal Hygiene, Environmental Sanitation, Escherichia Coli, Salmonella