FOOD SAFETY RISK IDENTIFICATION AT CHILD NUTRITION PROGRAMS IN THE U.S. THROUGH FOOD SAFETY INSPECTION REPORTS

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Introduction

• The Centers for Disease Control and Prevention reported 1,034 foodborne illness outbreaks in 2008 resulting in 23,152 illnesses, 1,276 hospitalizations, and 22 deaths.
• School foodservice operations are the third most likely setting for foodborne illness outbreaks followed by restaurants and private residences.
• The number of cases per outbreak is greater in school foodservice operations than restaurants.
• More than 31 million students eat meals daily in over 100,000 school cafeterias.
• The 2004 Child Nutrition and WIC Reauthorization Act mandated that all school foodservice operations have two health inspections annually.

Purpose

• To identify food safety risks in child nutrition programs by reviewing food safety inspection reports.

Methodology

• Food safety inspection reports (n=28,171) from all school foodservice facilities in 21 states were collected.
• All food code violations were:
  o Recorded on the original state inspection form.
  o Categorized as behavioral, non-behavioral, critical, and non-critical violations.
  o Consolidated into 31 pre-determined food code categories.
• Descriptive statistics were calculated
• Based on the number of violations in each category, the most frequent food code violation categories were identified and ranked.

Results (Continued)

Percentage of premise & equipment maintenance related violations

Results

The most challenging food code violations in 21 states

| Violation Categories          | No. of Violations (%) | No. of States Ranked as Top 5 | Ranking
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<tbody>
<tr>
<td>Premises &amp; Equipment Maintenance</td>
<td>9,797 (18.5)</td>
<td>18</td>
<td>3.8 ± 1.9</td>
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<tr>
<td>Protecting Food from Contamination</td>
<td>3,355 (6.3)</td>
<td>13</td>
<td>1.4 ± 1.6</td>
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<tr>
<td>Non-food Contact Surface Maintenance</td>
<td>2,988 (5.6)</td>
<td>11</td>
<td>1.4 ± 1.7</td>
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<tr>
<td>Time &amp; Temperature Control</td>
<td>2,366 (4.5)</td>
<td>9</td>
<td>1.1 ± 1.6</td>
</tr>
<tr>
<td>Ware Washing</td>
<td>2,164 (4.1)</td>
<td>9</td>
<td>1.1 ± 1.5</td>
</tr>
<tr>
<td>Food Contact Surface Maintenance</td>
<td>2,317 (4.4)</td>
<td>7</td>
<td>1.0 ± 1.7</td>
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a. Based on 52,900 total violations recorded from 28,171 facilities.
b. Ranking scores assigned as 5 for the most violated category followed by 4, 3, 2, and 1.

Conclusions

• Food code violations in school foodservice appear to pose relatively low food safety risks.
• Directors may seek to address facility and equipment maintenance challenges with school administrators.
• Directors need to enhance food safety training related to behavioral food code violations.
• Food safety inspection reports often attract attention from the public, and CNP directors may benefit from identifying challenge areas by comparing their performance with our findings.

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