

The National Environmental Health Association (NEHA) represents more than 7,000 governmental, private, academic, and uniformed services sector environmental health professionals in the U.S., its territories, and [^] Aa advocate for excellence in the practice of environmental health as it delivers on its mission to build, sustain, and empower an effective environmental health workforce.

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NEHA believes that complete adoption of the current U.S. Food and Drug Administration (FDA) model Food Code in retail food establishments will likely reduce the incidence of foodborne illnesses. NEHA recognizes that wide jurisdictional variability exists in the adoption and implementation of the current FDA Food Code. A retail food establishment includes certain businesses that sell food directly to consumers as its primary function along with food service establishments, such as restaurants, corner stores, bar and lounges, and temporary food service events.

NEHA recommends the complete adoption and implementation of the most recent version of the FDA Food Code by all federal, state, local, tribal, and territorial governmental agencies to promote the most current knowledge on food safety. In addition to adopting the Food Code, NEHA recommends the following for federal, state, local, tribal, and territorial governmental agencies:

- Ensure that jurisdictions have the appropriate funding, resources, and guidance needed to implement the most current FDA Food Code and benefits of adoption for consumers, industry, and regulatory agencies.
- Ensure that food safety jurisdictions at all levels of government, including territorial government agencies and tribal jurisdictions, are engaged in decision-making conversations around the adoption and implementation of the most current Food Code.
- Enroll in the FDA Voluntary National Retail Food Regulatory Program Standards (Retail Program StandardsP 29 0.455 0.541 rg0.29 0.455 0.541 RG[(Cod)-2(e)] TJO g0(am)6(-)-3(S)-4(ta)10(nc

7 to ensure consistent violation language across all jurisdictions in the U.S. and its territories.

- Participate in the Conference for Food Protection to provide perspective and insight into the challenges faced by jurisdictions when updating to the most current Food Code.

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advice for a uniform system of provisions that addresses the safety and protection of food offered at retail food and food service industries (Food and Drug Administration [FDA], 2021; U.S. Department of Health and Human Services, 2017). Historically, model codes were developed to assist state and local governments to initiate and maintain effective programs for the prevention of foodborne illness. 0 Y8

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control jurisdictions at all levels of government by providing them with a scientifically sound, technical, and legal basis for regulating the retail segment of the food industry (FDA, 2020). There are more than 3,000 state, local, tribal, and territorial government agencies that have the primary responsibility of regulating retail food and food service industries in the U.S. (FDA, 2021).

The Food Code is not law or a mandated regulation. It is a model code and a useful reference document that provides uniform guidance on food safety and sanitation for federal, state, local, tribal, and territorial agencies. These agencies regulate food service operations in institutions such

are responsible for more than 95% of illnesses and deaths from foodborne illnesses. The ERS mean estimate for the total annual cost of foodborne illness associated with noroviruses in 2018 was over \$2.5 billion (Hoffman & Ahn, 2021). Overall, the economic impact for foodborne illness associated with the 15 pathogens studied was calculated to be \$ 17.5 billion annually (Hoffman & Ahn, 2021). The uniform adoption of the Food Code, due to the inclusion of provisions for reducing foodborne illness outbreaks, will likely reduce costs for restaurants, states, consumers, and the country.

Collectively and individually, FDA, the USDA Food Safety and Inspection Service, and Centers for Disease Control and Prevention (CDC) work with federal, state, local, tribal, and territorial agencies to ensure that consumers are protected from foodborne illness. Each agency seeks to address the control of foodborne illness risk factors through various studies and initiatives, many of which stem from public health provisions within the Food Code.

The FDA Retail Program Standards define what constitutes a highly effective and responsive program for the regulation of food service and retail food establishments. The standards provide a foundation and system that all regulatory programs can build by promoting continuous improvement of food safety inspection programs. These standards promote the adoption of

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to follow. Enrollment in the program increases communication between FDA and federal, state, local, tribal, and territorial governments. It also encourages national uniform adoption of the most current Food Code.

CDC has identified five risk factors associated with foodborne illness in the retail food industry: poor personal hygiene, improper food holding temperatures, contaminated equipment, inadequate cooking temperatures, and food obtained from unsafe sources (Bean et al., 1996). More than one half of foodborne illness outbreaks are connected to restaurants or other commercial food outlets (Angelo et al., 2017). To avoid these risk factors and improve the safety of commercial kitchens, Shaw (2017) recommended training workers in food management

inspections, and using temperature \bar{O} levels of foodborne illness (Shaw, 2017). Implementation of the current version of the Food Code

that the most current food safety management systems and protocols are being followed in commercial kitchens.

Food safety management systems are a set of actions (e.g., procedures, training, monitoring) intended to promote food safety and decrease foodborne illness within retail food establishments. The U.S. has multiple food safety management systems with varying degrees of implementation and requirements throughout the country (FDA, 2018). One way to provide

physical, written evidence that a retail food establishment is following the Food Code is the development and implementation of standard operating procedures. Implementation of standard operating procedures for a retail food establishment improve areas such as food safety, training tools and references for staff, process consistency, and mistake reduction (Truitt, 2018).

Trained and certified food employees are instrumental in developing and maintaining a successful food safety management system. Having a certified food protection manager on staff is associated with many benefits, including better inspection scores, fewer foodborne illness

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(2016). The Food Code provides guidelines for the assignment of responsibility, demonstration of knowledge, and certification of food protection managers, which strengthen food safety management systems (FDA, 2022). Uniform adoption of the current version of the Food Code would create a level regulatory landscape as a foundation to a nationwide food safety management system that promotes food safety and likely decreases foodborne illness.

In 2016, CDC released a report focused on determining whether food establishments were meeting four provisions from the 2013 Food Code: 1) preventing ill staff from working for at least

requiring food service staff to wash their hands, and 4) requiring at least one staff member to become a certified food protection manager. The report found only 17 states had adopted all four of these provisions (Lipcsei & Kambhampati, 2016). Lack of compliance with these items is associated with food safety issues, including norovirus outbreaks from contaminated food (Centers for Disease Control and Prevention, 2014). Uniform adoption of the current version of the Food Code ensures that these protection measures for food safety are in place for a retail food establishment to achieve compliance.

Additionally, poor hand hygiene has been shown to be a significant cause of food contamination and only one third of employees wash their hands when they should (Lipcsei & Kambhampati, 2016). Although use of the Food Code is not legally mandated, NEHA recommends complete adoption and implementation of the most current version. Benefits associated with complete adoption of the current Food Code include ensuring better retail food service compliance, relying

health performance of restaurants. In

addition, adoption of the current version is associated with improved consumer knowledge and reduced costs to society (FDA, 2020). Provisions in the Food Code also support objectives of Healthy People 2030, a set of national public health promotion goals established by the U.S. Department of Health and Human Services. Nationwide uniform implementation of the most

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safety will reduce the incidence of foodborne illness and the economic burden associated with foodborne illness for industry, health agencies, and the public.

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