Why FSMA?











Learning Objectives & Content

- Understanding the reasons for change
- Discuss & appreciate 5 key elements of FSMA
- Review of FSMA timelines
- Getting started



Reasons for Change



CDC Estimates of Foodborne Illness¹

- CDC estimates that each year roughly 1 in 6
 Americans (or 48 million people) get sick
- 128,000 are hospitalized
- 3,000 die of foodborne diseases



CDC Estimates for Two Major Groups of Foodborne Agents/Illnesses

Foodborne Agents	Estimated annual number of illnesses	%	Estimated annual number of hospitalizations	%	Estimated annual number of deaths	%
31 <u>known</u> pathogens	9.4 million	20	55,961	44	1,351	44
<u>Unspecified</u> agents	38.4 million	80	71,878	56	1,686	56
Total	47.8 million	10 0	127,839	10 0	3,037	100



Top Five Pathogens Contributing to Acquired Foodborne Illnesses

Pathogen	Estimated number of illnesses	%
Norovirus	5,461,731	58
<u>Salmonella</u> , nontyphoidal	1,027,561	11
Clostridium perfringens	965,958	10
Campylobacter spp.	845,024	9
Staphylococcus aureus	241,148	3
Subtotal		91_



Top Five Pathogens Contributing to Foodborne Illnesses Resulting in *Hospitalization*

Pathogen	Estimated number of hospitalizations	%
<u>Salmonella</u> , nontyphoidal	19,336	35
<u>Norovirus</u>	14,663	26
Campylobacter spp.	8,463	15
Toxoplasma gondii	4,428	8
E.coli (STEC) 0157	2,138	4
Subtota		88



Top Five Pathogens Contributing to Foodborne Illnesses Resulting in *Death*

Pathogen	Estimated number of deaths	%
<u>Salmonella</u> , nontyphoidal	378	28
Toxoplasma gondii	327	24
Listeria monocytogenes	255	19
<u>Norovirus</u>	149	11
Campylobacter spp.	76	6
Subtotal		88

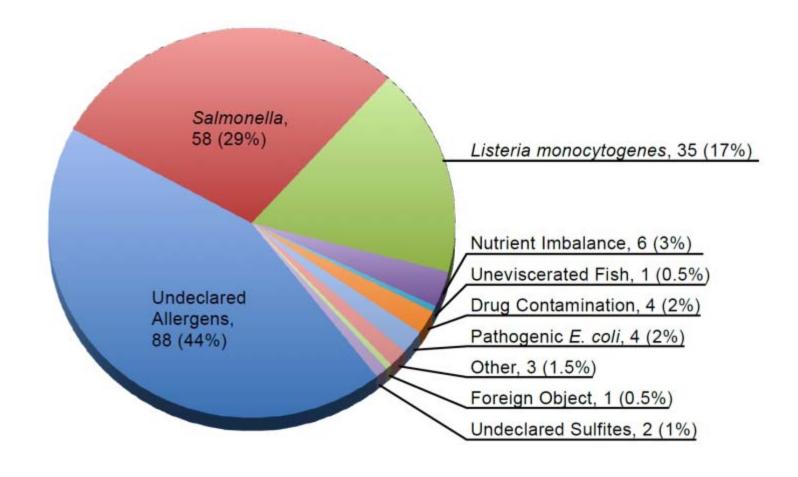


Recalls By the Numbers

- Recalled products typically numbered in the hundreds in the past decade
- By 2009, thousands of products were being recalled annually
- Possible reasons?
 - Increased imports
 - Growing complexity of the supply chain
 - Better detection and recognition of food safety problems
 - Better reporting, i.e., RFR
 - Others?



Recalls By the Numbers¹





Food Safety Issues in the News - Back Then















Food Safety Issues in the News - Today¹



















Consumers Do Matter¹

Consumers put a lot of pressure on Congress

- 89% (9 out of 10) of Americans support more aggressive food safety and defense regulation
- 61% STRONGLY support this bill
- 94% agree companies should be mandated to show traceability back to its original source



Intentional Tampering/Contamination

- Bioterrorism/Agroterrorism
 - Heightened awareness and concern after 9/11
- Bioterrorism Act
 - Registration
 - Administrative detention
 - Prior notice
 - Records maintenance and inspection



Actual Tampering or Theft

- Shanghai, China Toxic wax found on oranges sold in local markets
- Dalton, GA Over 1,000 cases of baby formula stolen
- Calgary and Toronto, Canada Dozens of cases of product tampering in retail stores
- Amarillo, TX Meat plant worker puts pieces of broken saw blade into meat



Hoax Reports

- Beijing, China China's largest dairy producer posted internet reports about it's competitor's baby formula being contaminated in order to boost sales and increase a manager's bonus
- New York Man arrested after he posted internet videos claiming to have contaminated millions of bottles of baby formula



Radiological Concern

- In response to the Fukushima nuclear power plant incident caused by the earthquake in Japan in March 2011, the Centre for Food Safety (Hong Kong) has been conducting targeted radiation testing on food imported from Japan at import
- April 3, 2012, green tea leaves imported from Japan were sampled during surveillance and were found to have low radioactivity levels, a spokesman for the Centre for Food Safety (CFS) of the Food and Environmental Hygiene Department said. However, there is no health concern in consuming the product concerned.

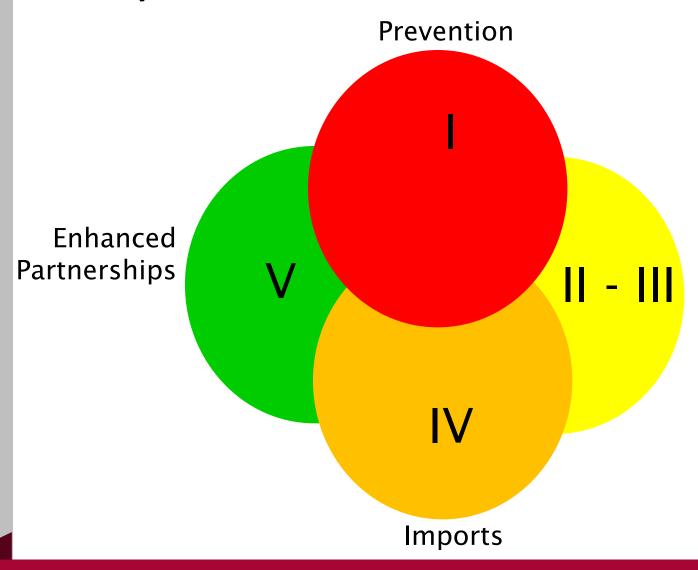


Development of FSMA

- During the 111th U.S. Congress,¹ more than 20 bills were introduced to address food safety concerns
- Two comparable bills advanced
 - HR 2749 Food Safety Enhancement Act
 - S. 510 Food Safety Modernization Act
- Jan. 4th of 2011, the FDA Food Safety
 Modernization Act (FSMA) was signed into law



5 Key Elements of FSMA



Inspection & Compliance, Response



FSMA

 Most significant change in US food laws since the Food, Drug and Cosmetic Act of 1938.

From Reaction to Prevention

• From 402(a)(3) to 402(a)(4)

Inspection, Compliance, and Response

 From "credible and verifiable information" to "reason to believe"

Imports

 More than 120 countries and 300,000 facilities exporting to the US

Enhanced Partnerships

Foreign offices and liaison with counterparts



FSMA Timeline

January 4, 2011, law signed by President Obama

- Some sections became effective immediately
- Increase the number of annual inspections
- Record access
- Suspension of registration
- Carry out recalls
- Bi-annual plant registration
- Import notification
- Administrative detention
- Reportable Foods Registry



Some FSMA Final Rules Publication Datelines

- 8/30/15
 - Preventive controls for human and animal food
- 10/31/15
 - Imported food and foreign suppliers
 - Produce safety
- 3/31/16
 - Sanitary food transportation
- 5/31/16
 - Intentional adulteration of food



FSMA is Here

- Major changes and challenges for FDA and the food industry
- So:
 - What changes do you have to make as a company?
 - How do you implement these changes?
 - How do you train and educate all parties to your organization?
 - How will you manage this transition?



Situational Access:

- When reasonable belief that food will cause...
- adulterated
- misbranded



Examples of records that FDA can access and copy:

- Receiving, manufacturing/process, holding/inventory, shipping/distribution, imports/exports
- Tests
- Recalls
- Reportable foods
- Customer distribution lists
- Complaints and adverse event records
- Corrective actions



Bi-Annual Registration

All food facilities registered with the FDA must renew their registration during the time period of October 1 and December 31 of each evennumbered year.



Bi-Annual Registration

Plenary discussion

- What does "bi-annual registration" really mean?
- What are consequences of failing to re-register?
- How are you organized to meet this requirement?
- Who is responsible?
- Is it imbedded in the calendar?
- Is it fool-proof?



Prior Notice

Required information before a food shipment arrives at entry point:

- Who submits the PN? _____
- When is the PN submitted? _____
- To whom is the PN submitted? _____
- How is the PN submitted?



Prior Notice

Required information before a food shipment arrives at entry point:

- Who submits the PN? The submitter / transmitter
- When is the PN submitted?
 2, 4, 8 hours, depending
- To whom is the PN submitted?
- How is the PN submitted? Web entry



What is a	Reportable	Food?		



What is a Reportable Food?

"A reportable food is any article of food for which there is a reasonable probability that the use of or exposure to such article of food will cause SAHCODHA"

SAHCODHA: Serious Adverse Health Consequences or Death to Humans or Animals



Additional information: Contact information for responsible party





 Grocery stores in the US must post information on RFR items they have sold.





Violative Products Administrative Detention

- Lowered threshold
 - Reason to believe
 - SAHCODHA
 - adulterated
 - misbranded
- Effective July 2011
- FDA guidance document





Administrative Detention

Q.	How long can FDA hold a detained food?
A.	days
Q.	Who receives detention notification?
A.	, and
Q.	Can the administrative detention be appealed?
Α.	



Administrative Detention

- Q. How long can FDA hold a detained food?
- A. 30 days
- Q. Who receives detention notification?
- A. Owner of LOCATION where product is detained, and owner of the article of FOOD being defined
- Q. Can the administrative detention be appealed?
- A. Yes



Violative Products Mandatory Recall Authority

If FDA determines that there is reasonable probability of SAHCODHA, responsible party is provided the opportunity

- To initiate voluntary recall, or
- Hold informal hearing within 2 days of issuance of recall order to provide evidence why product should not be recalled.



Violative Products Mandatory Recall Authority

- If order is upheld it is amended to proceed with the voluntary recall.
- If refused, the FDA will:
 - Mandate the recall
 - Issue civil penalties
 - Make public notifications
- If it is determined that the product should not be recalled, the order is rescinded.



Automatic Access:

- Records in plain sight
- Records of interstate/international commerce
 - Shipping and receiving
 - Traceability



Situational Access:

- When reasonable belief that food will cause...
- adulterated
- misbranded



Examples of records that FDA can access and copy:

- Receiving, manufacturing/process, holding/inventory, shipping/distribution, imports/exports
- Tests
- Recalls
- Reportable foods
- Customer distribution lists
- Complaints and adverse event records
- Corrective actions



Questions



