New Trends Impacting Retail Food Service Establishments' Food Safety

Lisa M. Berger, CP-FS Berger Food Safety Consulting www.servingsafefood.com



| Trends | 1999 | Now |
|--------------|---|--|
| News | "Traditional" News - Newspapers, TV, Magazines | Social Media – primary source for millennial's and FAST |
| Liability | Jack-in-the-Box – William Marler | Many law-firms specializing in foodborne illness litigation |
| Culinary | "Traditional" cooking methods in fast food, ethnic (Chinese, Mexican, Italian, etc), meat and potatoes, diners, family-style chains, etc | Increase use of specialized processes at the retail level. Home delivery Meals in a bag. DIFM Food Delivery (Door Dash, Uber Eats) |
| Epidemiology | Very basic statistical tools to analyze outbreaks | PulseNet (detect multi-state outbreaks), Reportable Food Registry (identify and report contaminated food) National Outbreak Reporting System (electronic reporting) |
| Food Code | Based on trends and epidemiology at that time | More current with trends, science and advancements in technology |
| Technology | Basic tools – analog/digital food thermometers (thermocouple/infrared), flashlight, camera, fact sheets, clip board, inspection forms and pens. | Blue tooth data recording thermometers, TTI's, electronic inspection reports. |

| Trends | 1999 | Now |
|--------------|---|--|
| News | "Traditional" News - Newspapers, TV, Magazines | Social Media – primary source for millennial's and FAST |
| Liability | Jack-in-the-Box – William Marler | Many law-firms specializing in foodborne illness litigation |
| Culinary | "Traditional" cooking methods in fast food, ethnic (Chinese, Mexican, Italian, etc), meat and potatoes, diners, family-style chains, etc | Increase use of specialized processes at the retail level. Home delivery Meals in a bag. DIFM Food Delivery (Door Dash, Uber Eats) |
| Epidemiology | Very basic statistical tools to analyze outbreaks | PulseNet (detect multi-state outbreaks), Reportable Food Registry (identify and report contaminated food) National Outbreak Reporting System (electronic reporting) |
| Food Code | Based on trends and epidemiology at that time | More current with trends, science and advancements in technology |
| Technology | Basic tools – analog/digital food thermometers (thermocouple/infrared), flashlight, camera, fact sheets, clip board, inspection forms and pens. | Blue tooth data recording thermometers, TTI's, electronic inspection reports. |



| People | Photos | Videos | Pages | Places | Groups | Apps | Eve |
|--------|-------------------|----------------------|--------------|---|--------|---------|---------------|
| | Articles | | | | | See All | ~ |
| oups | | And the No More | | ne Illness ness, The Love pout 3 weeks ay | | | 1 1 1 |
| | Florida HEALTH | Foodborr | | Investigate stigated, The Li hours ago | | | 1 |
| tts | | foodbo A single f | orne illness | | | aurant | 3 |
| 4 | | | See | All | | | |
| | Posts fro | om Friends | | | | See All | Engl • Fra |
| | - | | | | | | Priva |



Home > Chipotle Mexican Grill



Chipotle Mexican Grill Reports Last 7 Days Chipotle Mexican Grill, Red Cliffs Drive, St. George, UT, USA May 3 9:47am Location: Chipotle Mexican Grill, Red Cliffs Drive, St. George, UT, USA Report Type: Food Poisoning Symptoms: Diarrhea Details: Chicken burrito.

Got Food Poisoning?

If you got food poisoning it's important to report it. You should drink fluids to prevent dehydration, and avoid solid foods until the vomiting has passed. If you experience severe belly pain, dehydration, high fever, bloody diarrhea, or prolonged or bloody vomiting, it is recommended to seek medical care.

Chipotle Mexican Grill, Villa La Jolla Drive, La Jolla, CA, USA

May 3 10:08am

Location: Chipotle Mexican Grill, Villa La Jolla Drive, La Jolla, CA, USA

Report Type: Food Poisoning

Symptoms: Diarrhea Nausea

Details: Burrito Bowl, Queso,



en) barf: Goodbye Jimmyet on Holland America

has all but put an end to the self-serve buffet.

DO NOT USE Restrooms for VOMITING! Vomit goes OVER RAIL ONLY!

Thank You,

Your Crew

its ships.

The move could be just what's needed to restore Australia's faith in the industry following four gastro outbreaks on Holland America's sister line Princess Cruises over the past 15 months.

Powell

News writes the erally taken a hands-on,

roach and heavily general dining areas of

The most recent was in January when some 200 passengers went down with the norovirus aboard the Sea Princess during a tour of New Zealand.

Both Holland America and Princess are subsidiaries of the Carnival Corporation, which has a number of cruise lines including P&O Australia 0

| Trends | 1999 | Now |
|--------------|---|--|
| News | "Traditional" News - Newspapers, TV, Magazines | Social Media – primary source for millennial's and FAST |
| Liability | Jack-in-the-Box – William Marler | Many law firms specializing in foodborne illness litigation |
| Culinary | "Traditional" cooking methods in fast food, ethnic (Chinese, Mexican, Italian, etc), meat and potatoes, diners, family-style chains, etc | Increase use of specialized processes at the retail level. Home delivery Meals in a bag. DIFM Food Delivery (Door Dash, Uber Eats) |
| Epidemiology | Very basic statistical tools to analyze outbreaks | PulseNet (detect multi-state outbreaks), Reportable Food Registry (identify and report contaminated food) National Outbreak Reporting System (electronic reporting) |
| Food Code | Based on trends and epidemiology at that time | More current with trends, science and advancements in technology |
| Technology | Basic tools – analog/digital food thermometers (thermocouple/infrared), flashlight, camera, fact sheets, clip board, inspection forms and pens. | Blue tooth data recording thermometers, TTI's, electronic inspection reports. |



PREG O'DONNELL & GILLETT

Attorneys Areas of Practice Locations About Us News Q

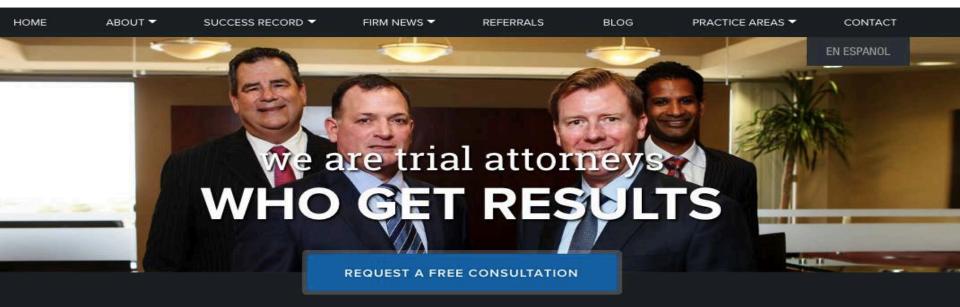


Hospitality and Food-Borne Illness Litigation

Home » Areas of Practice » Hospitality and Food-Borne Illness Litigation

PANISH SHEA & BOYLE LLP

request a free consultation! (310) 928-6200



TRANSPORTATION

PRODUCT LIABILITY / PRODUCT RECALLS

OTHER AREAS

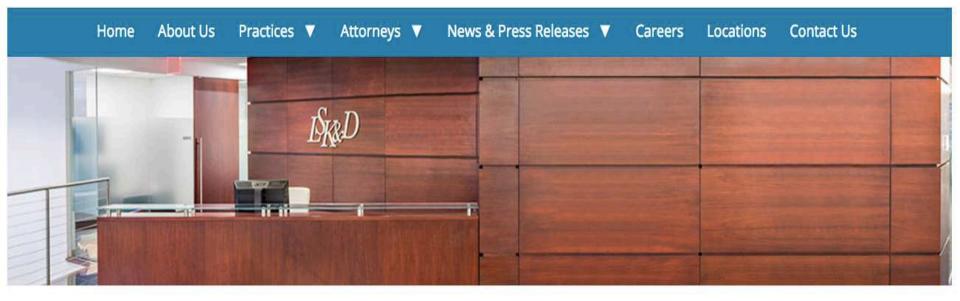
SALMONELLA

Salmonellosis is an infection that results from exposure to the bacteria Salmonella. The symptoms of a salmonella infection often dissipate after a week, but some victims require hospitalization. If a salmonella infection spreads into the blood stream, it can even prove fatal. It is important for anyone exhibiting signs of a salmonella infection to seek medical attention and treatment right away.



Lester Schwab Katz & Dwyer, LLP

Search...



FOOD BORNE ILLNESS PRACTICE

Paul L. Kassirer leads the firm's nationally-recognized Foodborne Illness Practice Group and is recognized as a leading attorney in the defense of foodborne claims and lawsuits. Paul is routinely retained to assist primary and excess liability insurers as well as self-insured clients in nationwide, multi-state and local foodborne outbreaks, including defending personal injury and wrongful death claims, analyzing coverage positions, and assisting with crisis and risk-management.

NRE National Retail and Restaurant Defense Association

Committee

Leadership

Upcoming

Events



HOME LOGIN JOIN ABOUT RESOURCES SUPPORTERS VOLU Annual Conference

Welcome to NRRDA

Lighting the way to advance the common interests of legal and claims professionals in the retail and restaurant industries.

NRRDA is an independent, non-profit, networking association of attorn retail and restaurant industries. Membership in NRRDA places you at th to reduce the number and severity of claims, manage common risks, and matters.

SAVE THE DATE - 2nd LIGHTHOUSE SEMINAR - Columbus, Ohio

Opening reception, Wednesday evening, October 10.

One day seminar, Thursday, October 11.

| WARNER COLEMAN & GOGGIN | | | | | | |
|-------------------------------------|---|--|--|----------------------|---------------|------------------|
| Attorneys | Practices | Our Firm | Major Victories | Special Services | News & Events | P |
| Event List | ings | | dinini, | | | Home |
| NRRDA 201 | 7 Annual Co | nference | | E | Aff | iliate |
| Event Host: NRRI | DA - National Ret | ail and Restaurant D | efense Association | | | 1 |
| Location: Wyndh | nam San Diego Ba | yside 1355 N Harbor | Dr , San Diego, CA | | Off | ices |
| Date/Time: Wed | nesday, March 1, 2 | 2017 - 7:00pm to Frid | lay, March 3, 2017 - 12:30 | pm | | Philade |
| retail and restau development of | rant industries. M | embership in NRRDA uce the number and | ociation of legal and cla A places you at the foref severity of claims, mana | ront of the | Rel | ated Retail L |
| year's three-day employment law | event is full of ed , casualty strateg | ucational opportuni | o learn and share inform ties on a variety of subj is management, risk, wo | ects that range from | | |
| | | | rtment, will be speaking erence in San Diego. | at the National Ret | ail | |

The Spice is (Not So) Right! Best Practices in Handling Foodborne Illness and Foreign Object Cases

Come on down! And learn the best practices for handling foodborne illness and foreign object claims. Listen to an experienced lawyer and an experienced claims handler discuss what works best and what to avoid. Learn how to gather and preserve vital evidence needed to successfully defend this type of case. Get a glimpse of the type of experts who can help build your defense. Learn what to look for in the laws of each jurisdiction.

For more information, click here.

ACI's 7th National Forum on Food-Borne Illness Litigation

💾 January 27 - 28, 2016 🛛 Sheraton Fisherman's Wharf, San Francisco, CA



"Recalls of Organic Food on the Rise, Report Says" - New York Times, August 2015

"Conagra Fined \$11.2. Million for Salmonella-Tainted Peanut Butter" - New York Times, May 2015

At ACI's acclaimed 7th National Forum on Food-Borne Illness Litigation, you can benchmark your defense strategies with not only the leading defense counsel and in-house counsel from food and beverage companies, but have the unique opportunity to hear directly from those who are bringing the cases against your companies – the plaintiffs' lawyers. This diversity of perspectives is what sets ACI's Food Litigation conferences apart from other events.

Designed to minimize time spent out of the office while still providing the most relevant, high-level content, this one-day information-packed conference will deliver proven effective litigation strategies.

ACI has conducted extensive research to design a unique program with an expert faculty to provide practical solutions to addressing your most pressing concerns surrounding:



Jensen Farms





| Trends | 1999 | Now |
|--------------|---|--|
| News | "Traditional" News - Newspapers, TV, Magazines | Social Media – primary source for millennial's and FAST |
| Liability | Jack-in-the-Box – William Marler | Many law firms specializing in foodborne illness litigation |
| Culinary | "Traditional" cooking methods in fast food, ethnic (Chinese, Mexican, Italian, etc), meat and potatoes, diners, family-style chains, etc | Increase use of specialized processes at the retail level. Home delivery Meals in a bag. DIFM Food Delivery (Door Dash, Uber Eats) |
| Epidemiology | Very basic statistical tools to analyze outbreaks | PulseNet (detect multi-state outbreaks), Reportable Food Registry (identify and report contaminated food) National Outbreak Reporting System (electronic reporting) |
| Food Code | Based on trends and epidemiology at that time | More current with trends, science and advancements in technology |
| Technology | Basic tools – analog/digital food thermometers (thermocouple/infrared), flashlight, camera, fact sheets, clip board, inspection forms and pens. | Blue tooth data recording thermometers, TTI's, electronic inspection reports. |















DOORDASH delightful delivery

| Trends | 1999 | Now |
|--------------|---|--|
| News | "Traditional" News - Newspapers, TV, Magazines | Social Media – primary source for millennial's and FAST |
| Liability | Jack-in-the-Box – William Marler | Many law firms specializing in foodborne illness litigation |
| Culinary | "Traditional" cooking methods in fast food, ethnic (Chinese, Mexican, Italian, etc), meat and potatoes, diners, family-style chains, etc | Increase use of specialized processes at the retail level. Home delivery Meals in a bag. DIFM Food Delivery (Door Dash, Uber Eats) |
| Epidemiology | Very basic statistical tools to analyze outbreaks | PulseNet (detect multi-state outbreaks), Reportable Food Registry (identify and report contaminated food) National Outbreak Reporting System (electronic reporting) |
| Food Code | Based on trends and epidemiology at that time | More current with trends, science and advancements in technology |
| Technology | Basic tools – analog/digital food thermometers (thermocouple/infrared), flashlight, camera, fact sheets, clip board, inspection forms and pens. | Blue tooth data recording thermometers, TTI's, electronic inspection reports. |

New Tools in Epidemiology and Disease Reporting

1996 – PulseNet

Connects FBI cases to detect outbreaks. Uses DNA fingerprinting to detect multi-state outbreaks.

2009 – Reportable Food Registry (RFR)

Identify and contain contaminated ingredients in our food supply. We can now find the source and alert the public sooner.

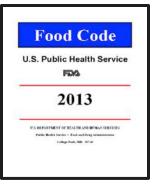
2009 – National Outbreak Reporting System (NORS)

Web-based platform that allows easy reporting of water and foodborne outbreaks

| Trends | 1999 | Now |
|--------------|---|--|
| News | "Traditional" News - Newspapers, TV, Magazines | Social Media – primary source for millennial's and FAST |
| Liability | Jack-in-the-Box – William Marler | Many law firms specializing in foodborne illness litigation |
| Culinary | "Traditional" cooking methods in fast food, ethnic (Chinese, Mexican, Italian, etc), meat and potatoes, diners, family-style chains, etc | Increase use of specialized processes at the retail level. Home delivery Meals in a bag. DIFM Food Delivery (Door Dash, Uber Eats) |
| Epidemiology | Very basic statistical tools to analyze outbreaks | PulseNet (detect multi-state outbreaks), Reportable Food Registry (identify and report contaminated food) National Outbreak Reporting System (electronic reporting) |
| Food Code | Based on trends and epidemiology at that time | More current with trends, science and advancements in technology |
| Technology | Basic tools – analog/digital food thermometers (thermocouple/infrared), flashlight, camera, fact sheets, clip board, inspection forms and pens. | Blue tooth data recording thermometers, TTI's, electronic inspection reports. |

|] | Food Code |
|-----|---|
| U. | S. Public Health Service |
| | 1999 |
| 1.5 | DEPARTMENT OF REALTH AND REMAN SERVICES |
| | |

Food Code: Key Changes



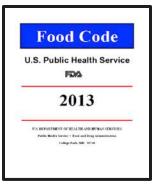
Item Numbers

Item Numbers: 1-30

Item Numbers: 1-56

|] | Food Code |
|-----------|--|
| U. | S. Public Health Service |
| | 1999 |
| 1. K , | DEPARTMENT OF HEALTH AND HEMAN SERVICES Volde Holds Service - Yout and Dirg Advanderation Washington, DC 20200 |

Food Code: Key Changes

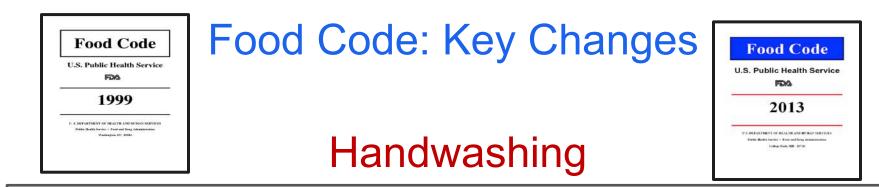


Risk Assignment

Red Critical Black/Blue Critical Non-Critical Priority Priority Foundation Core PRIORITY ITEM "contributes directly to the elimination, prevention or reduction to an acceptable level, hazards associated with foodborne illness or injury and there is no other provision that more directly controls the hazard"

PRIORITY FOUNDATION ITEM "supports, facilitates or enables one or more PRIORITY ITEMS)

CORE ITEM "relates to general sanitation, operational controls, sanitation standard operating procedures (SSOPs), facilities or structures, equipment design, or general maintenance"



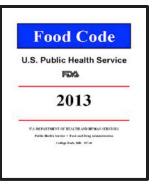
Priority (P) 2-301.12 Cleaning Procedure Observation – Employees not washing hands

Priority Foundation (Pf) 6.301.11 Handwashing Cleanser, Availability Observation – No soap available at the handwashing sink.

Core (C) 2-301.15 Where to Wash Observation – Employee washing hands in ware washing sink



Food Code: Key Changes



Terminology / Additions

Potentially Hazardous Foods (PHF's)

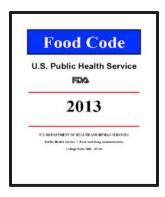
Time/Temperature Control for Safety Food (TCS)

> Added: Cut leafy greens / Sliced Tomatoes

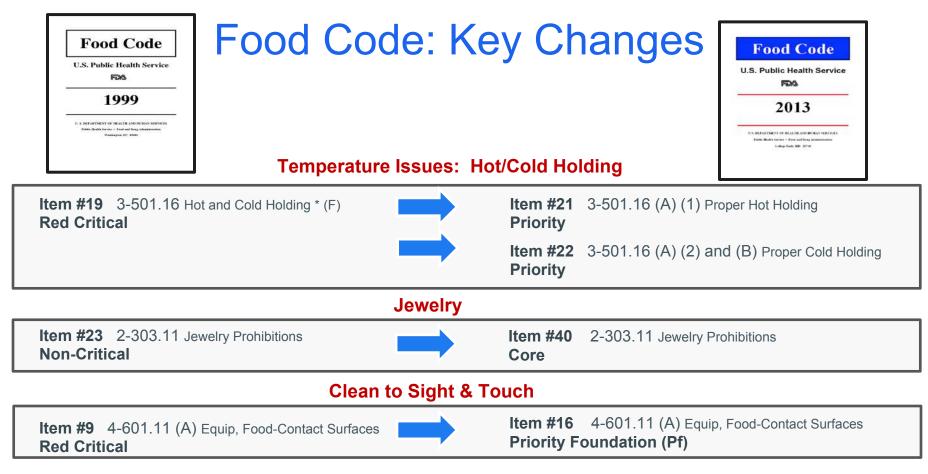
| Food | Code |
|---------------|--|
| U.S. Public I | Iealth Service ඟී |
| 19 | 99 |
| | ALTH AND REDLAY SERVICES and and Diving Administration (a. D1) 20204 |

Food Code: Key Changes





- Non-Continuous Cooking requirements identified
- Mushrooms "Mushroom species picked in the wild . . . "
- Clean up procedures for vomiting and diarrheal events
- Irreversible test strips for high temp. machines

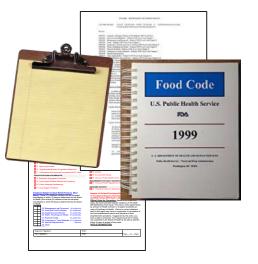


| Trends | 1999 | Now |
|--------------|---|--|
| News | "Traditional" News - Newspapers, TV, Magazines | Social Media – primary source for millennial's and FAST |
| Liability | Jack-in-the-Box – William Marler | Many law firms specializing in foodborne illness litigation |
| Culinary | "Traditional" cooking methods in fast food, ethnic (Chinese, Mexican, Italian, etc), meat and potatoes, diners, family-style chains, etc | Increase use of specialized processes at the retail level. Home delivery Meals in a bag. DIFM Food Delivery (Door Dash, Uber Eats) |
| Epidemiology | Very basic statistical tools to analyze outbreaks | PulseNet (detect multi-state outbreaks), Reportable Food Registry (identify and report contaminated food) National Outbreak Reporting System (electronic reporting) |
| Food Code | Based on trends and epidemiology at that time | More current with trends, science and advancements in technology |
| Technology | Basic tools – analog/digital food thermometers (thermocouple/infrared), flashlight, camera, fact sheets, clip board, inspection forms and pens. | Blue tooth data recording thermometers, TTI's, electronic inspection reports. |



© Copyright 2018. Relavent Systems, Inc. All Rights Reserved. Proprietary and Confidential.

1999



Inspection Reports











© Copyright 2018. Relavent Systems, Inc. All Rights Reserved. Proprietary and Confidential.



FOODCODE PRM





© Copyright 2018. Relavent Systems, Inc. All Rights Reserved. Proprietary and Confidential.

A System For Inspectors, by Inspectors





| 1 | factors & | ADDRIBLIN 141 Jameirazian Generia Jamei Br | | Contra Contra Alterna RA |
|--|--|--|--|-----------------------------------|
| A short of the state of the sta | Feet | trees there that I adon | | |
| A and a set of the s | | | | |
| Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification Specification | a stated real research beings | | | |
| Image: Solution of the | and the second second second | | of strain annuality of shared manners, spinster | |
| a Source and a sou | | 2011 | | - |
| A second s | | (*) | | |
| Company labels Company | | × | | · |
| Senter and Senter an | | | | N. C. LL |
| | | 14 Add 168 Ad 108 | | |
| Bandy Galland II (and) Bandy Galland | a mage sprogramme, smarte of tobella con- | | | 1.4 |
| 0 | | 20 C C C C | | 1 C |
| A Default of a set of | | Rect 11 of the second | | đ. |
| And Landsmith | | · · · · · · · · · · · · · · · · · · · | | 4 |
| Image: Source of the | Substantiated opening with the second second | 4 | | - NOT MADE |
| Image: State | IN THE OWNER THE ADDRESS OF A DESCRIPTION OF A DESCRIPTION OF | 1 C C | | ¥. |
| | 4,000-41 10000 | 3.47.00.04.04 | Table Department of the second second second | -AND MADE |
| Bit Standard Sta | via Pana compositivo approval survey | × 1 | | and the second |
| Image: Second | | | 17 mm and their sectors in the sector | |
| Barrier Carter of all part | 12 Month good condex, p.M. & unperiod west | 1 | | |
| Restance support Vision Restance suppo | 14. Secures reacts and non-president man, secure | | | |
| Control Product Control Product Control Product Product <th< td=""><td>Annual Continue Statistics of Value</td><td></td><td></td><td></td></th<> | Annual Continue Statistics of Value | | | |
| Date of the second se | | | Contraction of the local division of the loc | |
| 1 Percentral 2 4 Annu Stream Stre | 100 Fold and make | | | 0.00110.001 |
| 1 Programmer 2 | III. Production appropriate descention | 1 | -1. wood strain presidents | (a) |
| Image: Section 2014 (Section 2014) Image: Section 2014 (Section 2014) Image: Section 2014 (Section 2014) Image: Section 2014 (Section 2014) Image: Section 2014 (Section 2014) Image: Section 2014 (Section 2014) Image: Se | TT WHETE US THE MORE HARD | 1.00 | al Questin made 1 forms courses more print 5 boories | |
| Marcine Street Vale Street Jack Street | 12 Contains attained for last terms producing walking | 1.2.20.2.2 | IN THE ARTICLATIC AND ADD THE WART AND A LOSS | |
| B. Later Specific Arrows Statement P. Later Specific Arrows Statement P. M. And Statement Arrows Statement P. Later Statement P. M. Statement Arrows Statement P. Later Statement P. M. Statement Arrows Statement P. Later Statement Arrows Statement P. M. Statement Arrows Statement P. Later Statement Arrows Statement P. M. Statement Arrows Statement P. Later Statement Arrows Statement P. M. Statement Arrows Statement P. Later Statement Arrows Statement P. M. Statement Arrows Statement P. Later Statement Arrows Statement P. M. Statement Arrows Statement P. Later Statement Arrows Statement P. M. Statement Arrows Statement P. Later Statement Arrows Statement P. M. Statement Arrows Statement P. Later Statement Arrows Statement P. M. Statement Arrows Statement P. Later Statement Arrows Statement P. M. Statement Arrows Statement P. Later Statement Arrows Statement P. M. S | First Spreading Testing | Contract of the last sectors. | | 50 mm |
| An Annual A | 11. Proper sectory relieves until minister teaching when | | and a second | |
| A summary of the second s | | | | |
| In Thermospheric Length Participation Partinon Partinformation P | | | | |
| Description Part of the first sectors Part of the firs | | | | |
| | | M | | |
| Approximation (Constrainting of Constrainting of Con | | | | |
| n men a belan men an de la companya | | | | 1. A. |
| B. Secondary provide care, mark form () Conduction () C | | | | • |
| en men en e | | 3.00 | | ¥. |
| A strange strate, arrest in set of detect A strategy strate a subjection A strategy strategy and arrest at a strategy strategy and arrest at an arrest at a strategy strategy strategy and arrest at an arrest at a strategy strategy strategy strategy at a strategy strategy strategy strategy at a strategy s | II Searchester provider 1 press provers and | × | | * |
| at managities a species of the saturate second is going dependences of go | A Property of the second | | | Ø. |
| | | | | × |
| A ment with a ment of the second | | | | A |
| | These manual representations | | the same man the restance and the same | |
| The Gallon newspace + newspace | | 3 allen | And the second sec | |
| And then Revealed Rev | Institution in the second seco | N. Constant | Lines of contrast of Lines (5.000 14 | |



Things have changed and so must we in our quest to reduce the morbidity and mortality due to foodborne illness

Questions???

Lisa M. Berger, CP-FS Berger Food Safety Consulting www.servingsafefood.com