

***Salmonella* Typhimurium Outbreak
Associated with Peanut Products
from Peanut Corporation of America**

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***Salmonella* Typhimurium associated with PCA: 2008 - 2009**

- **CDC / FDA Anatomy of an outbreak video**

Timeline of Infections: Multistate Outbreak of *Salmonella* Infections Associated with Peanut Butter and Peanut Butter-Containing Products – United States, 2008–2009

Outbreak Identification and Source Implication

November 10, 2008
CDC PulseNet identifies first multistate cluster of *Salmonella* Typhimurium infections (13 cases in 12 states). CDC begins monitoring for additional reports of cases with same DNA fingerprint

November 24, 2008
CDC PulseNet identifies second multistate cluster of *Salmonella* Typhimurium infections (27 cases in 14 states)

November 25, 2008
Epidemiologic assessment of first *Salmonella* Typhimurium cluster begins (35 cases in 16 states)

December 4, 2008
Both clusters followed with parallel assessments

December 2, 2008
Epidemiologic assessment of second *Salmonella* Typhimurium cluster begins (41 cases in 17 states)

December 28, 2008
MN Dept of Health learns of clusters of cases associated with 3 institutions

November 25, 2008 to January 2, 2009
Detailed questionnaires collected on ~90 cases

January 3 & 4, 2009
First case-control study data collection

January 16, 2009
International Health Regulation notice posted

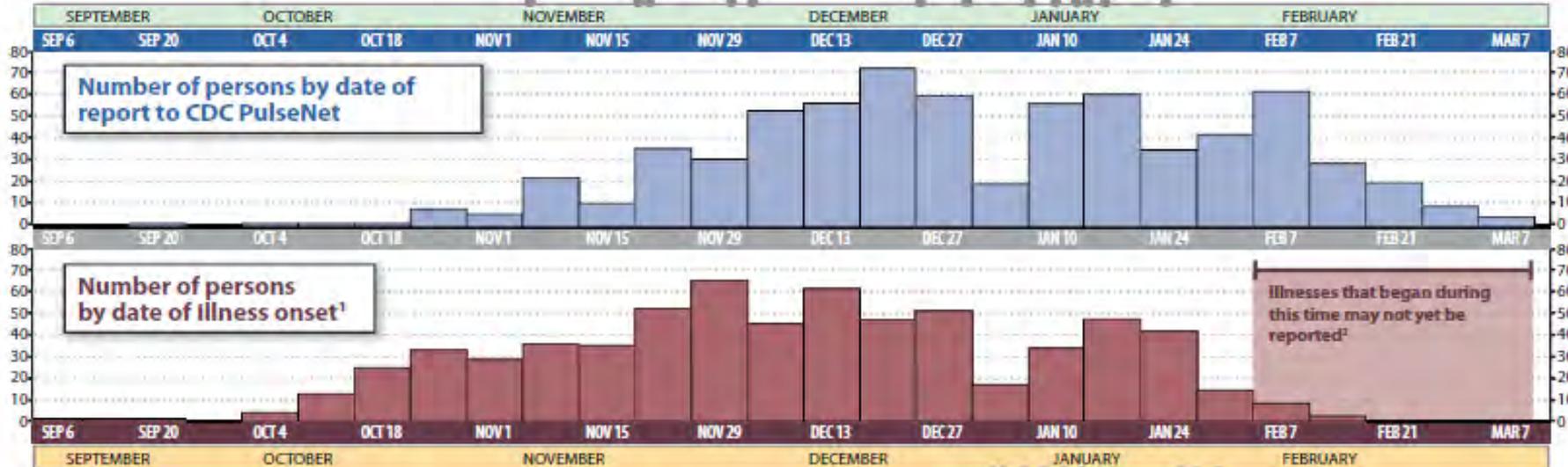
January 12, 2009
Results of first case-control study indicate association with consumption of peanut butter

January 17–19, 2009
Second case-control study data collection

January 17, 2009
CDC & FDA advisory regarding peanut butter & peanut butter containing products

January 19, 2009
Results of second case-control study indicate association with consumption of peanut butter crackers and peanut butter eaten outside the home

January 29, 2009
MMWR summarizing investigation findings published



Regulatory Actions, Recalls, and Results of Product Testing

January 9, 2009
MN Dept of Health reports *Salmonella* from opened container of King Nut peanut butter – FDA begins investigation of PCA³ facility in Blakely, GA

January 10, 2009
King Nut Co. Issues recall of peanut butter

January 14, 2009
Kellogg Co. announces hold of Austin & Keebler brands of peanut butter crackers

January 18, 2009
Canadian Food Inspection Agency reports *Salmonella* in intact packages of Austin brand peanut butter crackers

January 29, 2009
Peanut paste from tanker truck reported to be *Salmonella* +

January 12, 2009
MN Dept of Health confirms outbreak strain in opened container of King Nut peanut butter

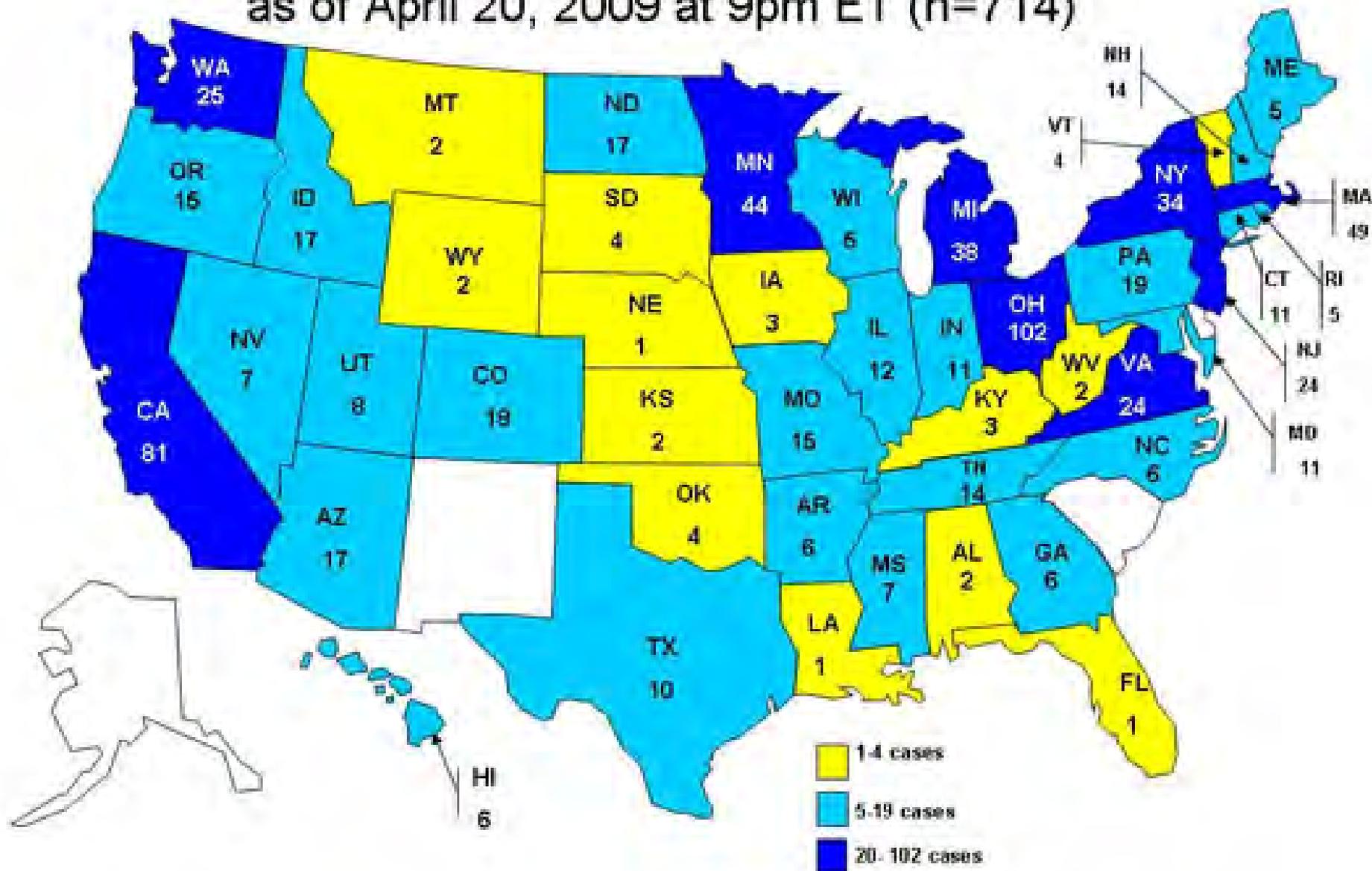
January 16, 2009
CT Dept. of Health finds outbreak strain in unopened container of King Nut peanut butter – PCA announces recall of peanut butter & paste – Kellogg Co. recalls Austin & Keebler brands of peanut butter crackers

January 28, 2009
PCA expands recall

February 2, 2009
Peanut paste from tanker truck confirmed to be outbreak strain

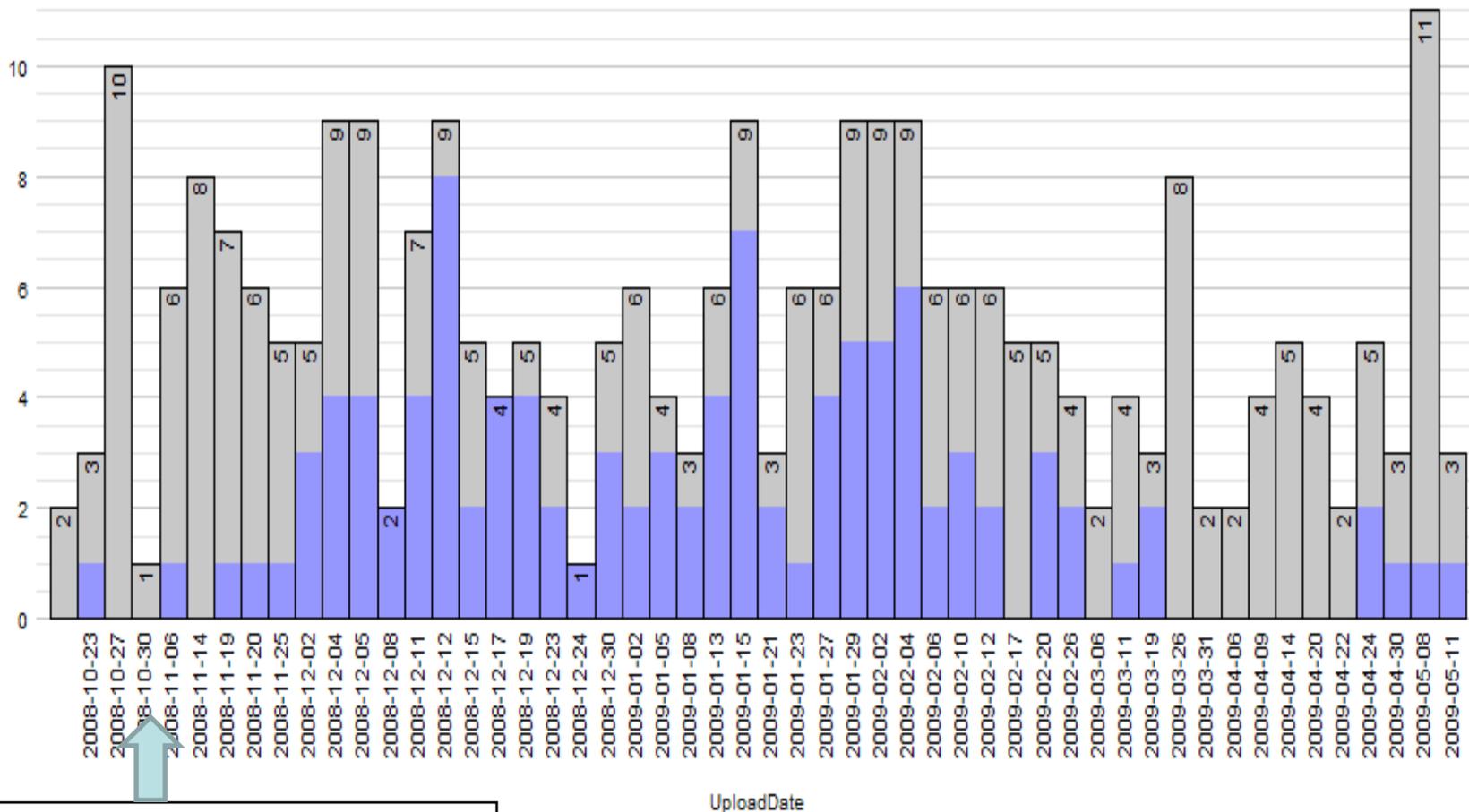
¹Some illness onset dates have been estimated from other reported information
²There is an inherent delay between the date that an illness starts, and the date that the case is reported to public health authorities. It typically takes 2-3 weeks for *Salmonella* infections. That means that someone who got sick last week is very unlikely to have been reported yet, and someone who got sick three weeks ago may just be reported now.
³Peanut Corporation of America (Data as of 03/07/09)

Cases infected with the outbreak strain of *Salmonella* Typhimurium, United States, by state, as of April 20, 2009 at 9pm ET (n=714)



Ohio *Salmonella* Typhimurium Uploaded to PulseNet

October 23, 2008 - Present



1st Cluster posted on PulseNet
11/5/08

