

National Overview

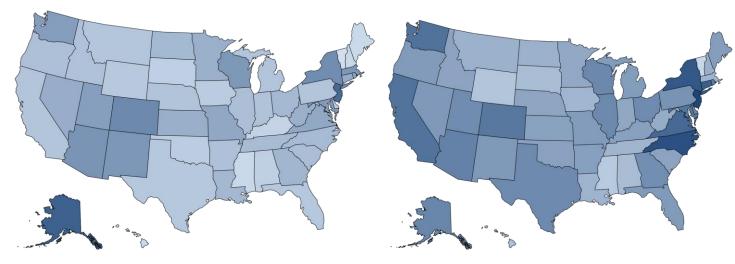
Frequency of Food Allergies by State

The data below include claims with anaphylaxis diagnosis and history of food allergy diagnosis.

Percentage of claim lines (lowest to highest)

2009





| State | Percent Change | State | Percent Change | State | Percent Change | State | Percent Change |
|----------------------|-------------------|---------------|-------------------|----------------|-------------------|----------------|-------------------|
| Alabama | 125% | Illinois | 201% | Montana | 117% | Rhode Island | 126% |
| Alaska | 13% | Indiana | 133% | Nebraska | 143% | South Carolina | 125% |
| Arizona | 78% | lowa | 132% | Nevada | 92% | South Dakota | 131% |
| Arkansas | 147% | Kansas | 79% | New Hampshire | 282% | Tennessee | 67% |
| California | 316% | Kentucky | 280% | New Jersey | 88% | Texas | 259% |
| Colorado | 75% | Louisiana | 61% | New Mexico | 46% | Utah | 83% |
| Connecticut | 210% | Maine | 391% | New York | 125% | Vermont | 104% |
| Delaware | 314% | Maryland | 114% | North Carolina | 332% | Virginia | 176% |
| District of Columbia | 87% | Massachusetts | 0% | North Dakota | 67% | Washington | 127% |
| Florida | 203% | Michigan | 179% | Ohio | 169% | West Virginia | 59% |
| Georgia | 146% | Minnesota | 66% | Oklahoma | 215% | Wisconsin | 75% |
| Hawaii | 205% | Mississippi | 136% | Oregon | 168% | Wyoming | 67% |
| Idaho | 138% | Missouri | 73% | Pennsylvania | 213% | | |

Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

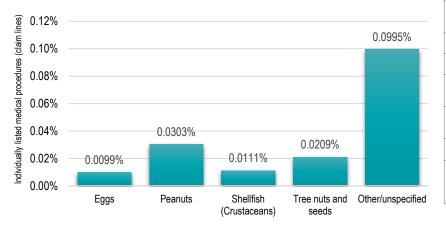
www.foodallergy.org



Alabama Overview

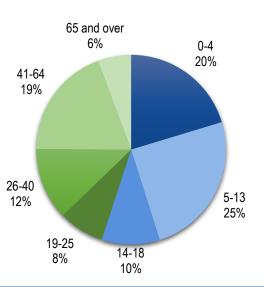


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> | |

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |



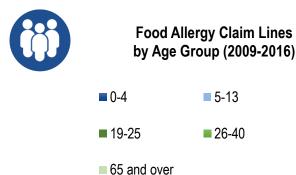


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | 29% | 71% | |
|-------------------|-----------------|-----|--|
| Milk and dairy | <mark>7%</mark> | 93% | |
| Peanuts | 30% | 70% | |
| Seafood | 35% | 65% | |
| Food additives | 22% | 78% | |
| Other/unspecified | 27% | 73% | |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

www.foodallergy.org

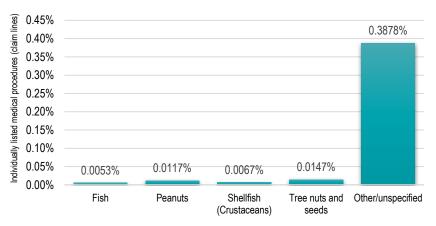
14-18



Alaska Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> | |

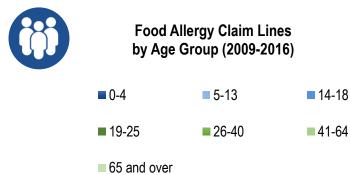


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

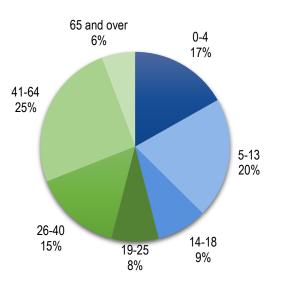
| Eggs 17% | | 83% |
|-------------------|------------------|-----|
| Milk and dairy 5% | | 95% |
| Peanuts | 20% | 80% |
| Seafood | 18% | 82% |
| Food additives | 25% | 75% |
| Other/unspecified | <mark>25%</mark> | 75% |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

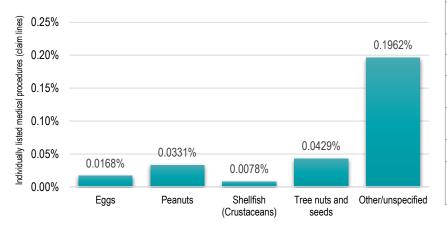








Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> | |

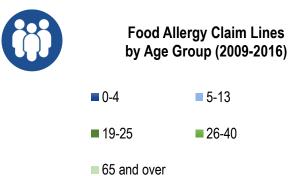


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | 33% | 67% |
|-------------------|------------------|-----|
| Milk and dairy | 13% | 87% |
| Peanuts | 28% | 72% |
| Seafood | 29% | 71% |
| Food additives | <mark>11%</mark> | 89% |
| Other/unspecified | 29% | 71% |

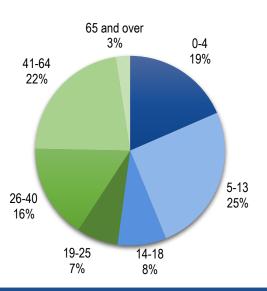
Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs | |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products | |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts | |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified | |



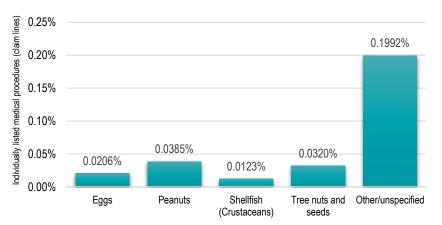
14-18



Arkansas Overview

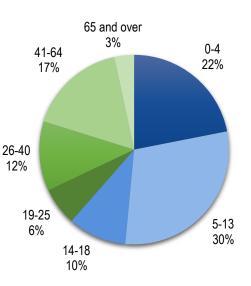


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)

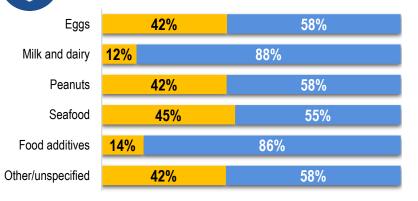


| Category | Description | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified</u> food or other food products; other adverse food reactions, not elsewhere classified | |

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |



Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



| ■ 0-4 | 5 -13 | ■ 14-18 |
|---------|---------------|---------|
| ■ 19-25 | 2 6-40 | ■ 41-64 |

Food Allergy Claim Lines by Age Group (2009-2016)

Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

65 and over

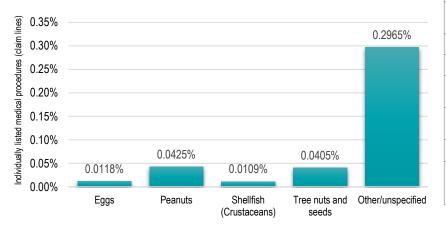
www.foodallergy.org



California Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products: other adverse food reactions, not elsewhere <u>classified</u> |



Food Allergy Groups Resulting in Anaphy

| Eggs | 22% | 78% |
|-------------------|------------------|-----|
| Milk and dairy | <mark>11%</mark> | 89% |
| Peanuts | 24% | 76% |
| Seafood | 17% | 83% |
| Food additives | 17% | 83% |
| Other/unspecified | 30% | 70% |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Food Allergy Claim Lines by Age Group (2009-2016) 5-13 14-18

26-40

65 and over

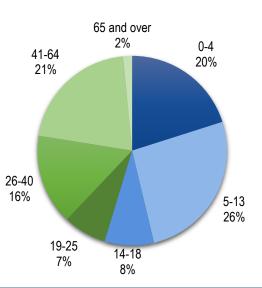
Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| ylaxis (2009-2016) | | |
|--------------------|--|--|
| 78% | | |
| | | |

| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

Category

Description

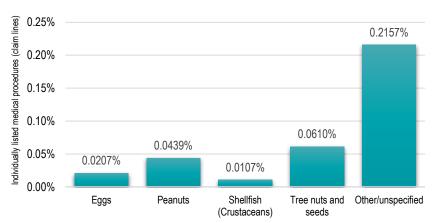




Colorado Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere classified |

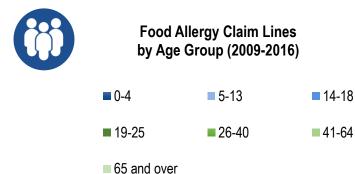


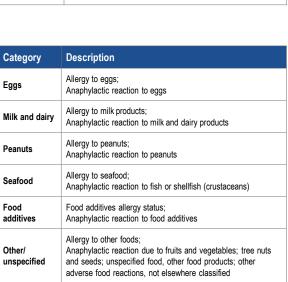
Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

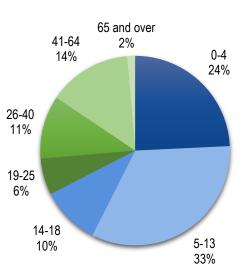
| Eggs | 26% | 74% |
|-------------------|------------------|-----|
| Milk and dairy | <mark>13%</mark> | 87% |
| Peanuts | 25% | 75% |
| Seafood | 30% | 70% |
| Food additives | 28% | 72% |
| Other/unspecified | 34% | 66% |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis





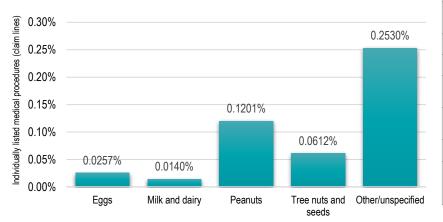




Connecticut Overview

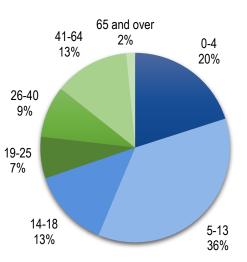


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)

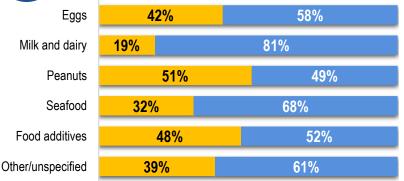


| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products: other adverse food reactions, not elsewhere <u>classified</u> |

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |



Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



65 and over

Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

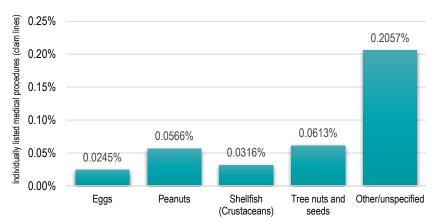
14-18



Delaware Overview

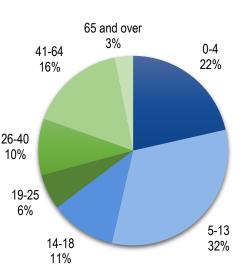


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)

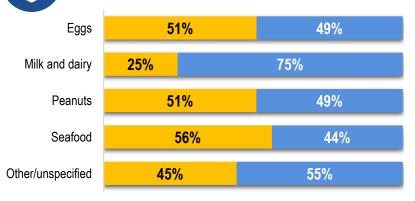


| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> |

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

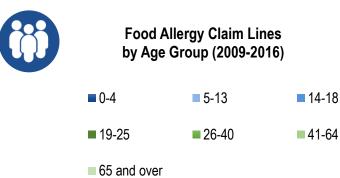


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

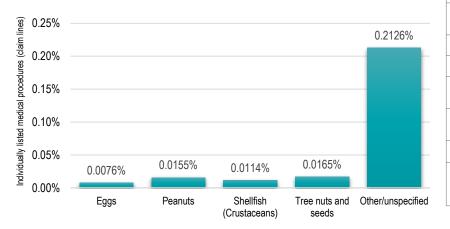
- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis





District of Columbia Overview

Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



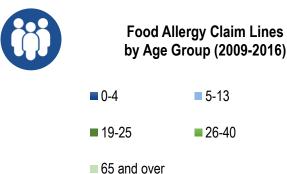
| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> |

Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | 18% | 82% |
|-------------------|------------------|-----|
| Milk and dairy | <mark>9%</mark> | 91% |
| Peanuts | <mark>14%</mark> | 86% |
| Seafood | 20% | 80% |
| Food additives | <mark>6%</mark> | 94% |
| Other/unspecified | <mark>29%</mark> | 71% |

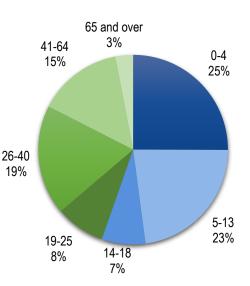
Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs | |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products | |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts | |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified | |



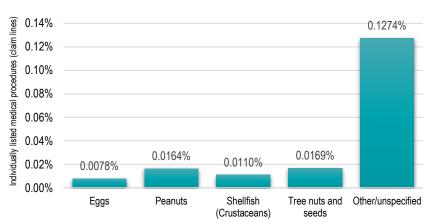
14-18







Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> |

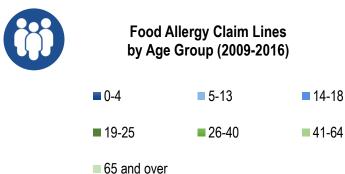


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | 23% | 77% |
|-------------------|-----------------|-----|
| Milk and dairy | <mark>7%</mark> | 93% |
| Peanuts | 24% | 76% |
| Seafood | 22% | 78% |
| Food additives | 17% | 83% |
| Other/unspecified | 28% | 72% |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

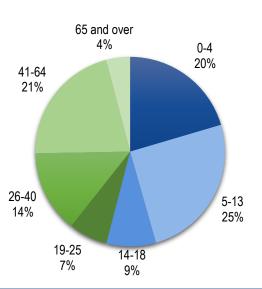
- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other |

adverse food reactions, not elsewhere classified



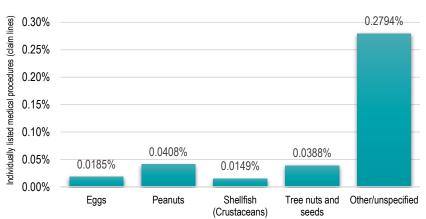
www.foodallergy.org



Georgia Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> |

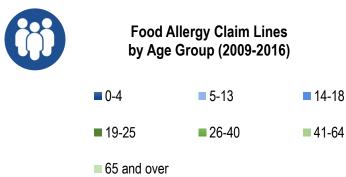


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

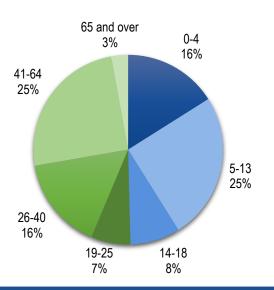
| Eggs | 44% | 56% |
|-------------------|-----|-----|
| Milk and dairy | 16% | 84% |
| Peanuts | 28% | 72% |
| Seafood | 25% | 75% |
| Food additives | 28% | 72% |
| Other/unspecified | 35% | 65% |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

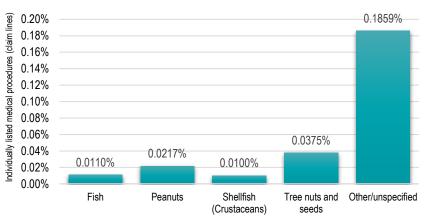




Hawaii Overview

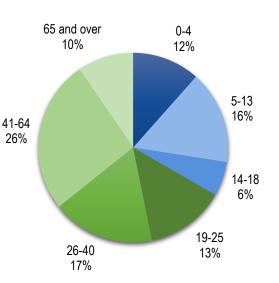


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)

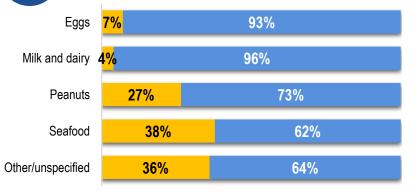


| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> |

| Category | Description | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs | |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products | |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts | |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified | |

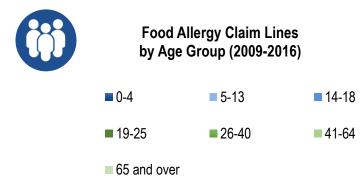


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis

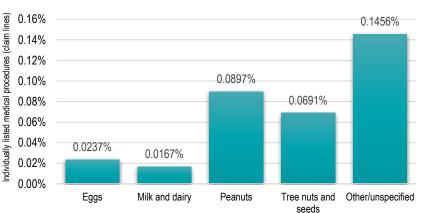




Idaho Overview

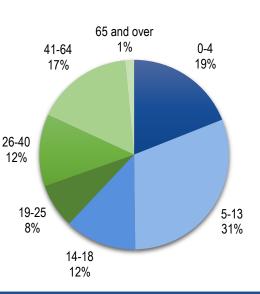


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



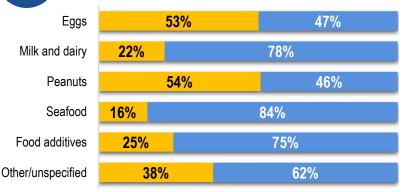
| Category | Description |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products: other adverse food reactions, not elsewhere classified |

Category Description Allergy to eggs; Eggs Anaphylactic reaction to eggs Allergy to milk products; Milk and dairy Anaphylactic reaction to milk and dairy products Allergy to peanuts; Peanuts Anaphylactic reaction to peanuts Allergy to seafood; Seafood Anaphylactic reaction to fish or shellfish (crustaceans) Food Food additives allergy status; additives Anaphylactic reaction to food additives Allergy to other foods; Other/ Anaphylactic reaction due to fruits and vegetables; tree nuts unspecified and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified



Food

Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

Claims with anaphylaxis diagnosis

Food Allergy Claim Lines

Claims with a history of food allergy diagnosis



| by Age Group (2009-2016) | | | |
|--------------------------|--------------|---------|--|
| ■ 0-4 | 5 -13 | ■ 14-18 | |
| ■ 19-25 | 26-40 | ■ 41-64 | |
| 65 and over | | | |

Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

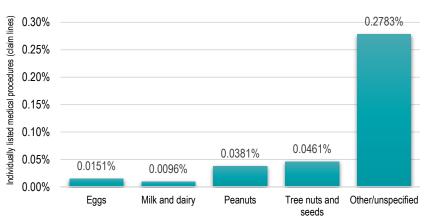
www.foodallergy.org



Illinois Overview

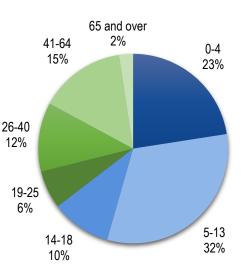


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Eggs | Anaphylactic reaction to eggs | | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | | |
| Peanuts | Anaphylactic reaction to peanuts | | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | | |
| Food additives | Anaphylactic reaction to food additives | | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere classified | | |

| Category | Description | | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs | | |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products | | |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts | | |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | | |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives | | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified | | |



Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | 30% | 70% |
|-------------------|------------------|-----|
| Milk and dairy | <mark>16%</mark> | 84% |
| Peanuts | 26% | 74% |
| Seafood | 23% | 77% |
| Food additives | <mark>16%</mark> | 84% |
| Other/unspecified | 35% | 65% |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



| by Age Group (2009-2016) | | | | |
|--------------------------|--------------|---------|--|--|
| ■ 0-4 | 5 -13 | ■ 14-18 | | |
| ■ 19-25 | 26-40 | 41-64 | | |

Food Allergy Claim Lines

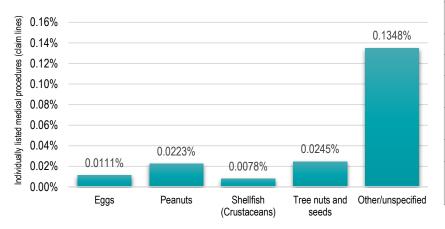
65 and over







Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Eggs | Anaphylactic reaction to eggs | | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | | |
| Peanuts | Anaphylactic reaction to peanuts | | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | | |
| Food additives | Anaphylactic reaction to food additives | | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere classified | | |

Category

Milk and dairy

Eggs

Food

Description

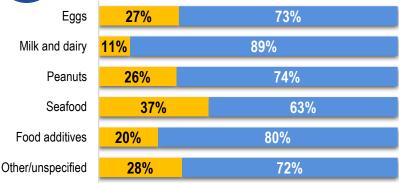
Allergy to eggs;

Anaphylactic reaction to eggs

Allergy to milk products;

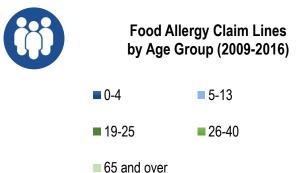


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

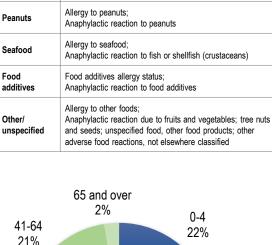


Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

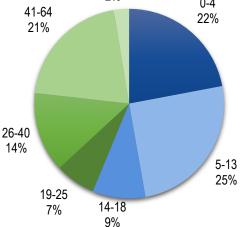
- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.



Anaphylactic reaction to milk and dairy products



www.foodallergy.org

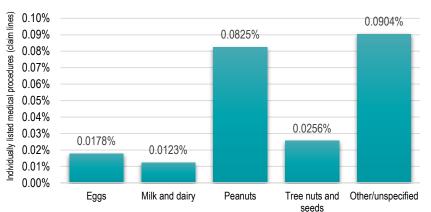
14-18



Iowa Overview

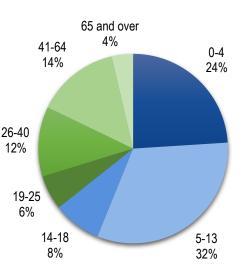


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)

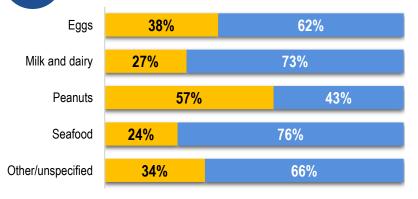


| Category | Description | | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Eggs | Anaphylactic reaction to eggs | | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | | |
| Peanuts | Anaphylactic reaction to peanuts | | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | | |
| Food additives | Anaphylactic reaction to food additives | | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> | | |

| Category | Description | | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs | | |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products | | |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts | | |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | | |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives | | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified | | |



Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis

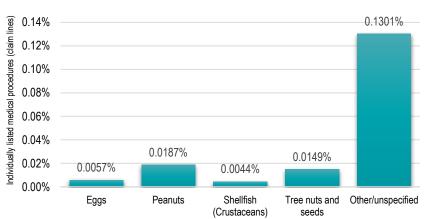




Kansas Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Eggs | Anaphylactic reaction to eggs | | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | | |
| Peanuts | Anaphylactic reaction to peanuts | | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | | |
| Food additives | Anaphylactic reaction to food additives | | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products: other adverse food reactions, not elsewhere classified | | |

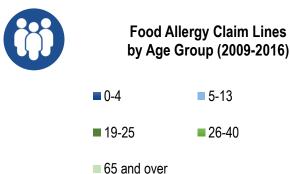


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | 16% | 84% |
|-------------------|------------------|-----|
| Milk and dairy | <mark>7%</mark> | 93% |
| Peanuts | 19% | 81% |
| Seafood | <mark>22%</mark> | 78% |
| Food additives | 14% | 86% |
| Other/unspecified | 23% | 77% |

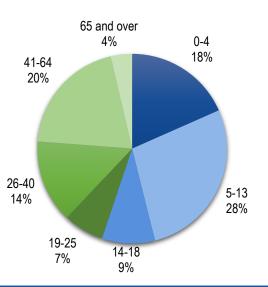
Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description | | | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs | | | |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products | | | |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts | | | |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | | | |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives | | | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified | | | |



www.foodallergy.org

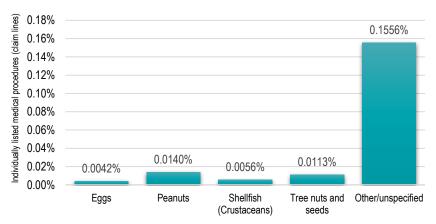
14-18



Kentucky Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Eggs | Anaphylactic reaction to eggs | | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | | |
| Peanuts | Anaphylactic reaction to peanuts | | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | | |
| Food additives | Anaphylactic reaction to food additives | | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere classified | | |

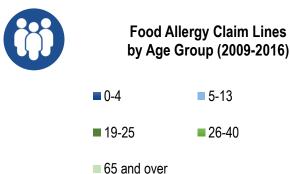


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | 16% | 84% |
|-------------------|-----------------|-----|
| Milk and dairy | <mark>7%</mark> | 93% |
| Peanuts | 18% | 82% |
| Seafood | 19% | 81% |
| Food additives | 25% | 75% |
| Other/unspecified | 28% | 72% |

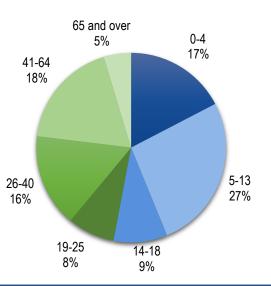
Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description | | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs | | |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products | | |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts | | |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | | |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives | | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified | | |



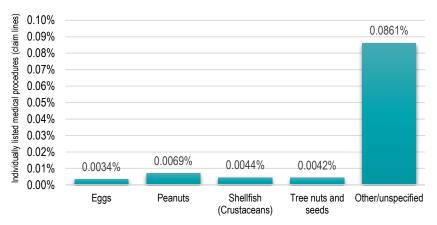
14-18



Louisiana Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> | |

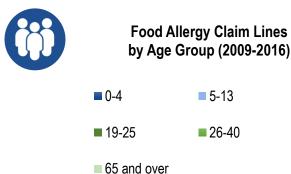


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | 14% 86% | | |
|-------------------|------------------|-----|--|
| Milk and dairy | <mark>6%</mark> | 94% | |
| Peanuts | 17% | 83% | |
| Seafood | 10% | 90% | |
| | | | |
| Food additives | <mark>12%</mark> | 88% | |
| Other/unspecified | 25% | 75% | |

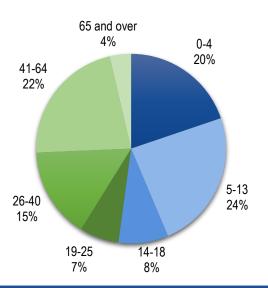
Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description | | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs | | |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products | | |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts | | |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | | |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives | | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified | | |



www.foodallergy.org

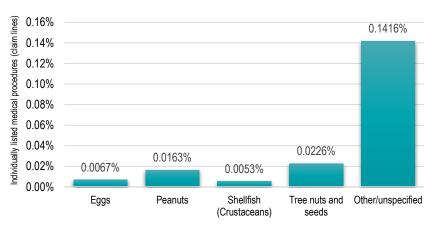
14-18







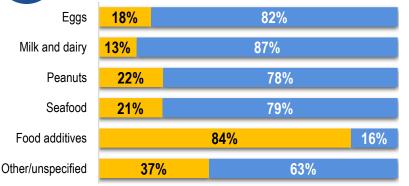
Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere classified | |

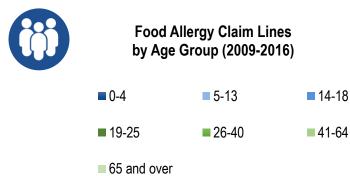


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

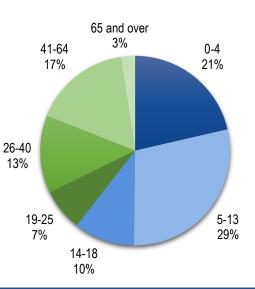


Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



| Category | Description | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs | |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products | |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts | |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified | |

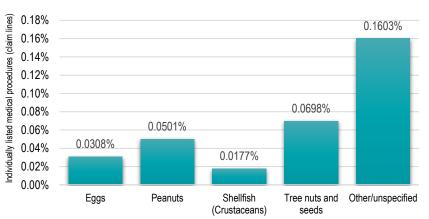




Maryland Overview

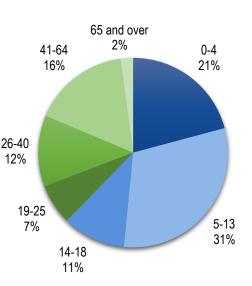


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere classified | |

Category Description Allergy to eggs; Eggs Anaphylactic reaction to eggs Allergy to milk products; Milk and dairy Anaphylactic reaction to milk and dairy products Allergy to peanuts; Peanuts Anaphylactic reaction to peanuts Allergy to seafood; Seafood Anaphylactic reaction to fish or shellfish (crustaceans) Food Food additives allergy status; additives Anaphylactic reaction to food additives Allergy to other foods; Other/ Anaphylactic reaction due to fruits and vegetables; tree nuts unspecified and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified





Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | 44% | 56% |
|-------------------|-----|-----|
| Milk and dairy | 18% | 82% |
| Peanuts | 37% | 63% |
| Seafood | 36% | 64% |
| Food additives | 23% | 77% |
| Other/unspecified | 31% | 69% |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

Claims with anaphylaxis diagnosis

Food Allergy Claim Lines

Claims with a history of food allergy diagnosis



| by Age Group (2009-2016) | | | |
|--------------------------|--------------|---------|--|
| ■ 0-4 | 5 -13 | ■ 14-18 | |
| ■ 19-25 | 26-40 | 41-64 | |
| | | | |

Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

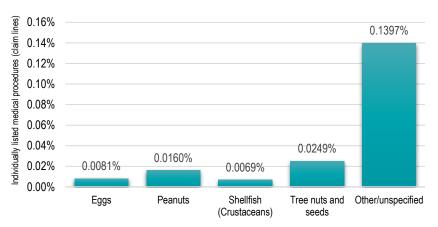
65 and over



Massachusetts Overview



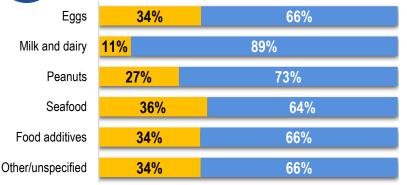
Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> | |

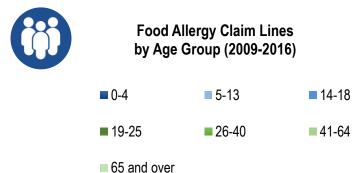


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



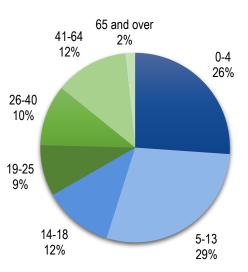
Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

Category Description Allergy to eggs; Eggs Anaphylactic reaction to eggs Allergy to milk products; Milk and dairy Anaphylactic reaction to milk and dairy products Allergy to peanuts; Peanuts Anaphylactic reaction to peanuts Allergy to seafood; Seafood Anaphylactic reaction to fish or shellfish (crustaceans) Food Food additives allergy status; additives Anaphylactic reaction to food additives Allergy to other foods; Other/ Anaphylactic reaction due to fruits and vegetables; tree nuts unspecified and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified

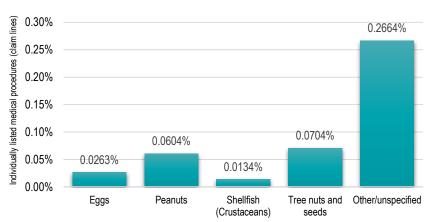




Michigan Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Eggs | Anaphylactic reaction to eggs | | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | | |
| Peanuts | Anaphylactic reaction to peanuts | | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | | |
| Food additives | Anaphylactic reaction to food additives | | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products: other adverse food reactions, not elsewhere classified | | |

 Category

 16)
 Eggs

 56%
 Milk and dairy

 4%
 Peanuts

 57%
 Seafood

 64%
 Food

Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | 44% | 56% |
|-------------------|------------------|-----|
| Milk and dairy | <mark>16%</mark> | 84% |
| Peanuts | 43% | 57% |
| Seafood | 36% | 64% |
| Food additives | 41% | 59% |
| Other/unspecified | 38% | 62% |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



| Food Allergy Claim Lines |
|--------------------------|
| by Age Group (2009-2016) |
| |

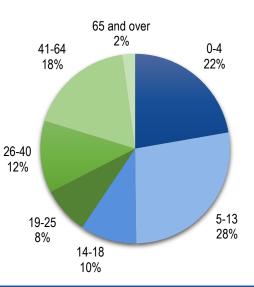


65 and over

Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

Description

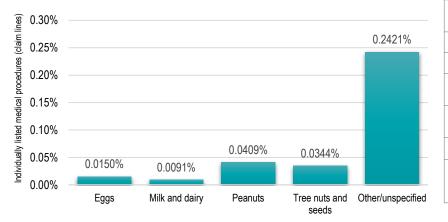




Minnesota Overview

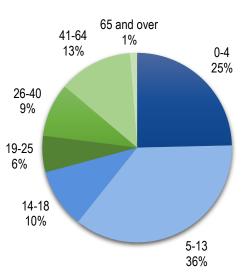


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)

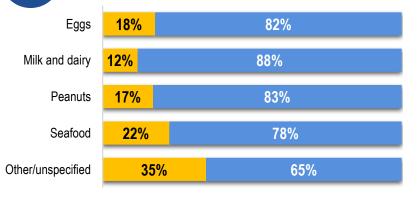


| Category | Description | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere classified | |

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

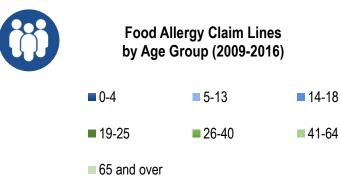


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis

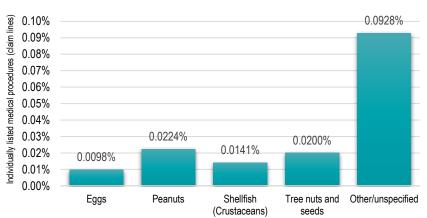




Mississippi Overview

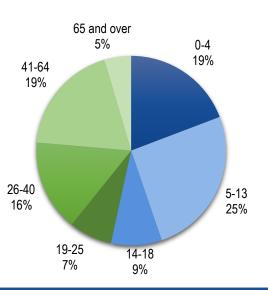


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)

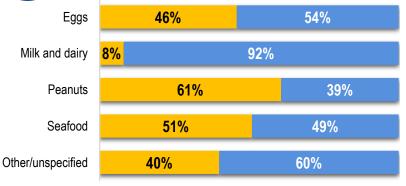


| Category | Description | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products: other adverse food reactions, not elsewhere classified | |

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

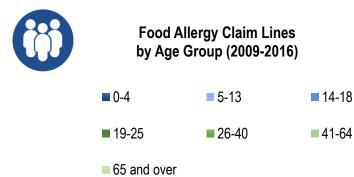


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

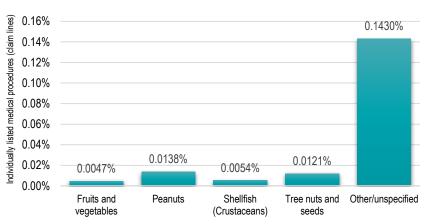
www.foodallergy.org



Missouri Overview

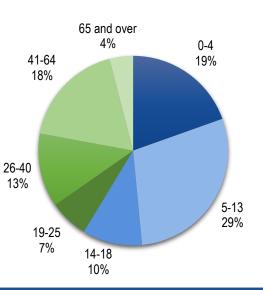


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products: other adverse food reactions, not elsewhere classified | |

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |



Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | <mark>11%</mark> 89% | | |
|-------------------|----------------------|-----|--|
| Milk and dairy | <mark>8%</mark> 92% | | |
| Peanuts | <mark>11%</mark> 89% | | |
| Seafood | 15% | 85% | |
| Food additives | 24% | 76% | |
| Other/unspecified | 25% | 75% | |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



| | Allergy Claim Lin e Group (2009-20 | |
|---------|---------------------------------------|---------|
| ■ 0-4 | 5 -13 | ■ 14-18 |
| ■ 19-25 | 26-40 | 41-64 |

65 and over

Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

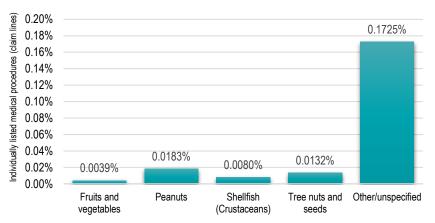
www.foodallergy.org



Montana Overview

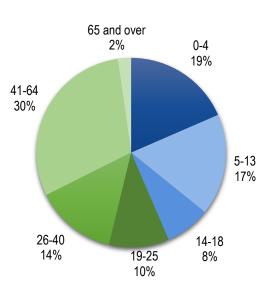


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)

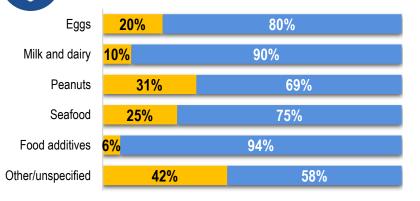


| Category | Description | |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; <u>other adverse food reactions</u> , <u>not elsewhere</u> <u>classified</u> | |

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

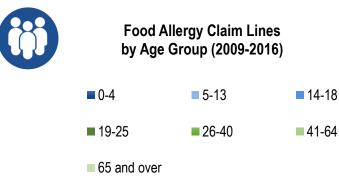


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis

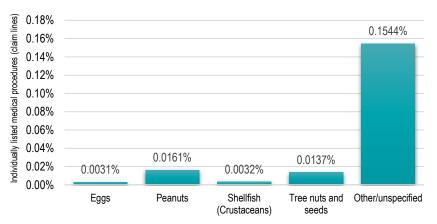




Nebraska Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Eggs | Anaphylactic reaction to eggs | | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | | |
| Peanuts | Anaphylactic reaction to peanuts | | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | | |
| Food additives | Anaphylactic reaction to food additives | | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> | | |

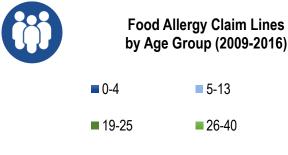


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | <mark>10%</mark> | 90% | |
|-------------------|------------------|-----|--|
| Milk and dairy | 5 <mark>%</mark> | 95% | |
| Peanuts | <mark>10%</mark> | 90% | |
| Seafood | <mark>10%</mark> | 90% | |
| Food additives | <mark>5%</mark> | 95% | |
| Other/unspecified | 23% | 77% | |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

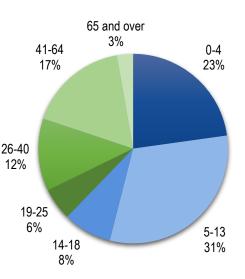
- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



65 and over

Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs | |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products | |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts | |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions. not elsewhere classified | |



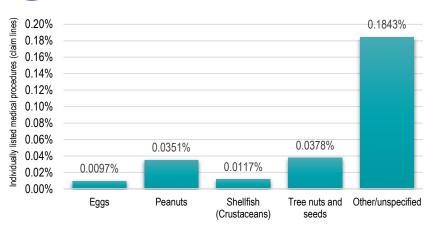
14-18





| * | |
|---|--|
| + | |
| | |

Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Eggs | Anaphylactic reaction to eggs | | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | | |
| Peanuts | Anaphylactic reaction to peanuts | | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | | |
| Food additives | Anaphylactic reaction to food additives | | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> | | |

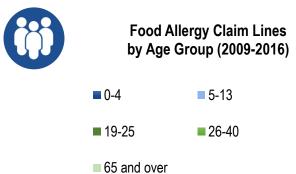


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | 32% | 68% | |
|-------------------|------------------|-----|--|
| Milk and dairy | <mark>10%</mark> | 90% | |
| Peanuts | 31% | 69% | |
| Seafood | 21% | 79% | |
| Food additives | 25% | 75% | |
| Other/unspecified | 31% | 69% | |

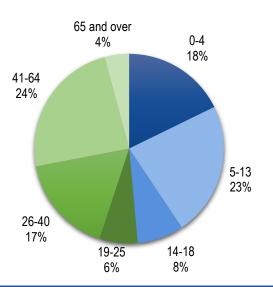
Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description | | |
|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs | | |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products | | |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts | | |
| Seafood Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | | | |
| Food additives allergy status; additives Anaphylactic reaction to food additives | | | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified | | |



www.foodallergy.org

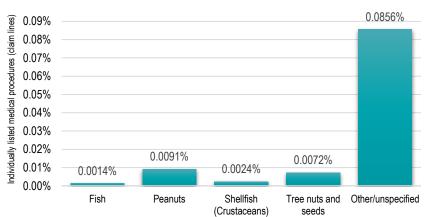
14-18



New Hampshire Overview



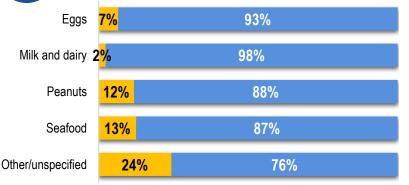
Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified Anaphylactic reaction to <u>unspecified food or other food</u> <u>products: other adverse food reactions, not elsewhere</u> <u>classified</u> | | |

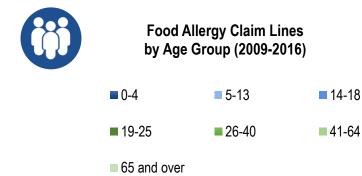


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

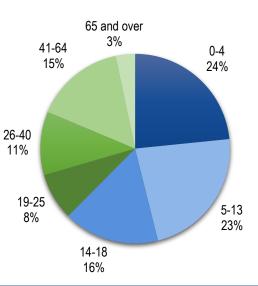


Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



| Category | Description | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs | |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products | |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts | |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified | |

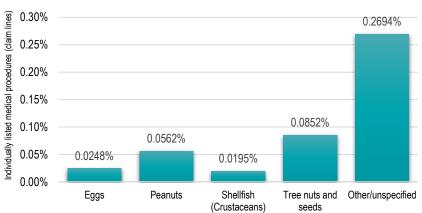




New Jersey Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products: other adverse food reactions, not elsewhere classified | |



Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | 29% | 71% |
|-------------------|------------------|-----|
| Milk and dairy | <mark>11%</mark> | 89% |
| Peanuts | 27% | 73% |
| Seafood | 23% | 77% |
| Food additives | 25% | 75% |
| Other/unspecified | 21% | 79% |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



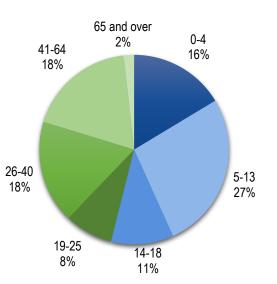
Food Allergy Claim Lines by Age Group (2009-2016)



65 and over

| b | Other/unspeci | fied | - | classified |
|---|---------------|------|---------------------------------------------------|-------------------------------------------------------------------------------|
| | · | | | |
| | | | Category | Description |
| | | Eggs | Allergy to eggs; Anaphylactic reaction to eggs | |
| | | 1 | Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| | | 1 | Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| | | | | |

| i cultuto | Anaphylactic reaction to peanuts | | | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | | | |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives | | | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified | | | |

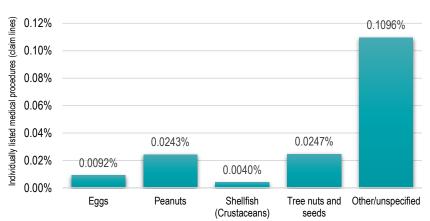




New Mexico Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



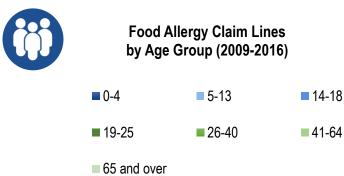
| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> |

Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Easo | 260/ | 649/ |
|-------------------|------------------|------|
| Eggs | 36% | 64% |
| Milk and dairy | <mark>8%</mark> | 92% |
| Peanuts | 26% | 74% |
| Seafood | 21% | 79% |
| Food additives | <mark>14%</mark> | 86% |
| Other/unspecified | 23% | 77% |

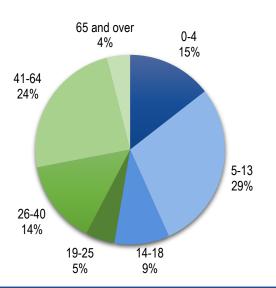
Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |



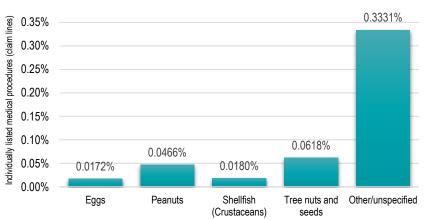
www.foodallergy.org



New York Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere classified |

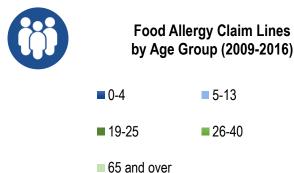


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eago | 250/ | 659/ | |
|-------------------|------------------|------|--|
| Eggs | 35% | 65% | |
| Milk and dairy | <mark>12%</mark> | 88% | |
| Peanuts | 26% | 74% | |
| Seafood | 15% | 85% | |
| Food additives | 22% | 78% | |
| Other/unspecified | 35% | 65% | |

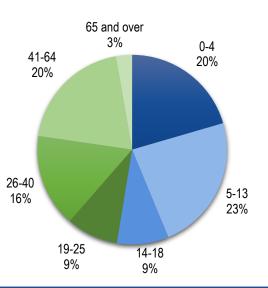
Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

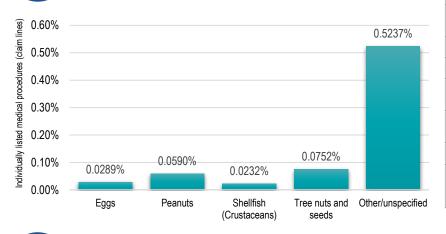


14-18



North Carolina Overview

Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> |

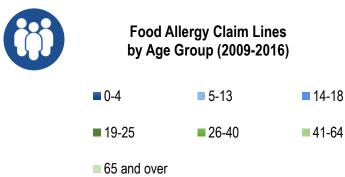


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | 30% | 70% |
|-------------------|------------------|-----|
| Milk and dairy | 14% | 86% |
| Peanuts | 25% | 75% |
| Seafood | 25% | 75% |
| Food additives | <mark>11%</mark> | 89% |
| Other/unspecified | 26% | 74% |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis

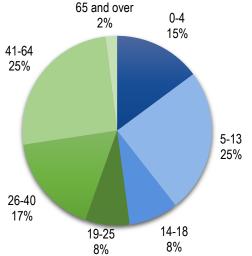


Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |
| L | |

Category

Description



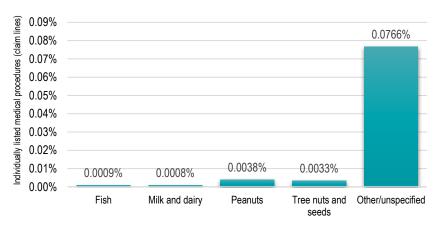
www.foodallergy.org



North Dakota Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> |



Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | <mark>8%</mark> | 92% | |
|-------------------|------------------|-----|--|
| Milk and dairy | <mark>6%</mark> | 94% | |
| Peanuts | <mark>8%</mark> | 92% | |
| Seafood | <mark>8%</mark> | 92% | |
| Food additives | <mark>19%</mark> | 81% | |
| Other/unspecified | <mark>18%</mark> | 82% | |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



| | Food Allergy Claim Lines by Age Group (2009-2016) | | |
|-----|------------------------------------------------------|------------|--|
| 0-4 | 5 -13 | 1 4 | |

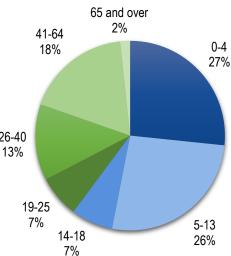
19-25 **2**6-40 **4**1-64

65 and over

| ines 016) | |
|--------------|-------|
| 14-18 | 26-40 |



| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

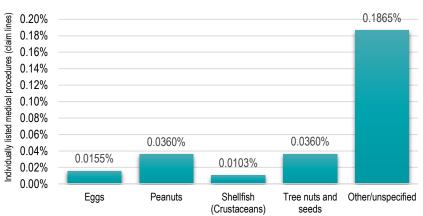




Ohio Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> |

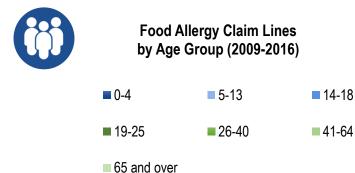


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

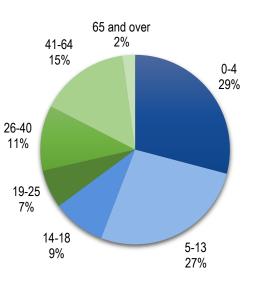
| Eggs | 30% | 70% |
|-------------------|-----------------|-----|
| Milk and dairy | <mark>7%</mark> | 93% |
| Peanuts | 33% | 67% |
| Seafood | 32% | 68% |
| Food additives | 32% | 68% |
| Other/unspecified | 32% | 68% |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

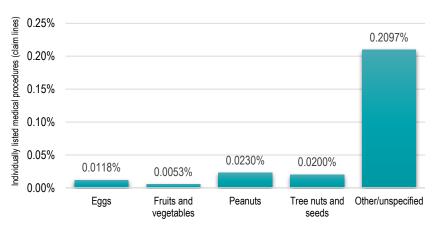




Oklahoma Overview

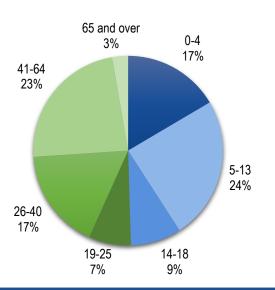


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products: other adverse food reactions, not elsewhere classified |

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

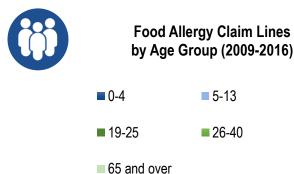


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | 36% | 64% |
|-------------------|------------------|-----|
| Milk and dairy | <mark>10%</mark> | 90% |
| Peanuts | 26% | 74% |
| Seafood | 20% | 80% |
| Food additives | 24% | 76% |
| Other/unspecified | 39% | 61% |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

www.foodallergy.org

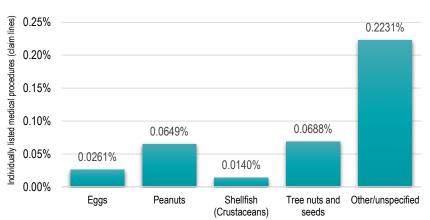
14-18



Oregon Overview



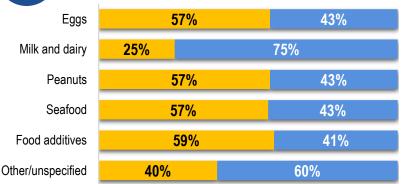
Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere classified |

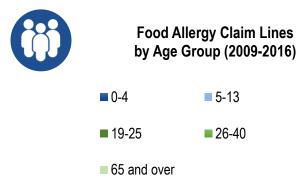


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



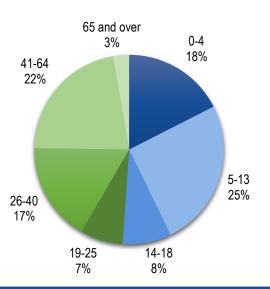
Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

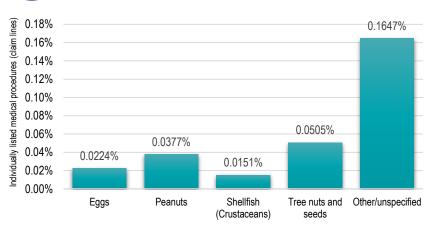


14-18



Pennsylvania Overview

Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



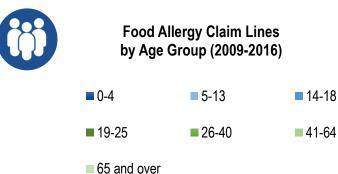
| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> |

Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

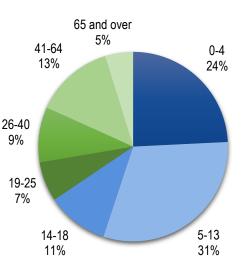
| Eggs | 32% | 68% |
|-------------------|------------------|-----|
| Milk and dairy | <mark>14%</mark> | 86% |
| Peanuts | 30% | 70% |
| Seafood | 28% | 72% |
| Food additives | 33% | 67% |
| Other/unspecified | 29% | 71% |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

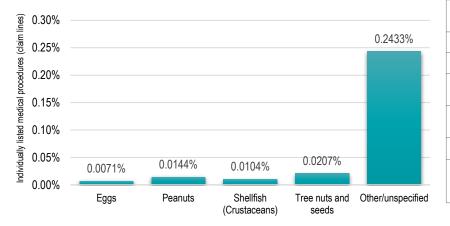




Rhode Island Overview



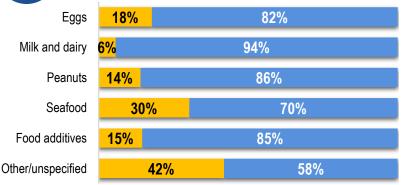
Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere classified |

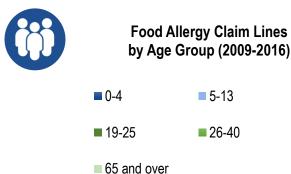


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



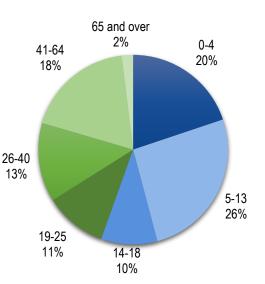
Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

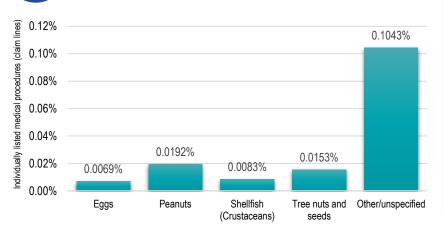


14-18



South Carolina Overview

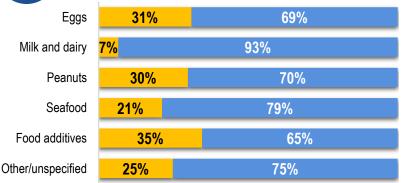
Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> |

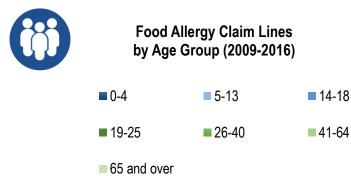


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

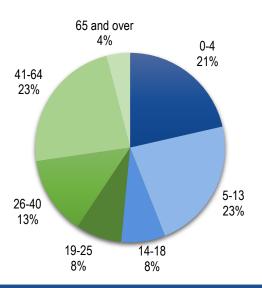


Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

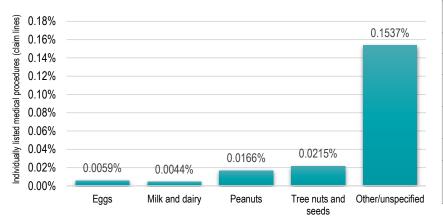




South Dakota Overview

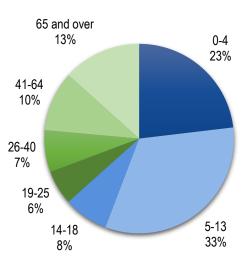


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)

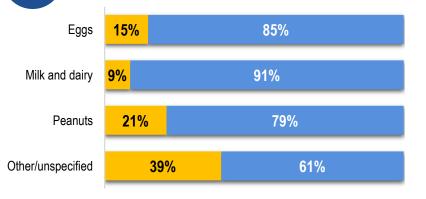


| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> |

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

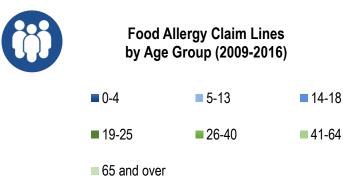


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis

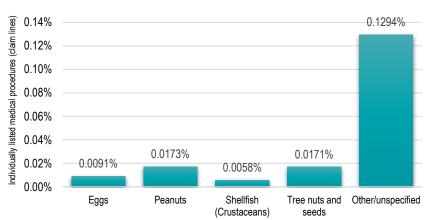




Tennessee Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> |

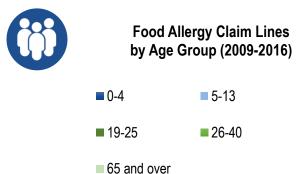


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | 33% | 67% |
|-------------------|-----------------|-----|
| Milk and dairy | <mark>9%</mark> | 91% |
| Peanuts | 33% | 67% |
| Seafood | 25% | 75% |
| Food additives | 25% | 75% |
| Other/unspecified | 34% | 66% |

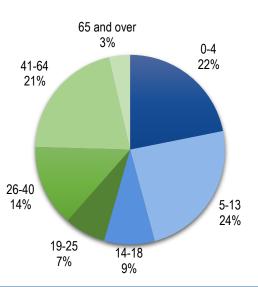
Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |



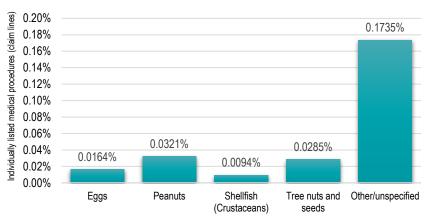
14-18



Texas Overview



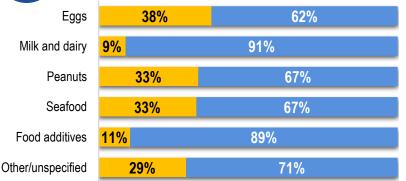
Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> |

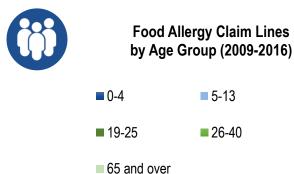


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



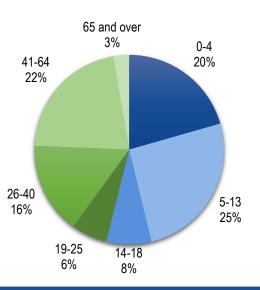
Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |



www.foodallergy.org

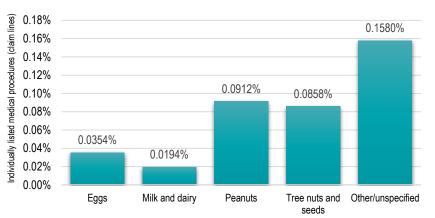
14-18







Top Five Foods That Cause Anaphylactic Reactions (2009-2016)

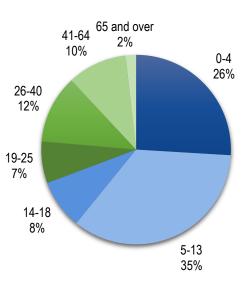


| Eggs | Anaphylactic reaction to eggs |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to \underline{milk} and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products: other adverse food reactions, not elsewhere classified |

Category

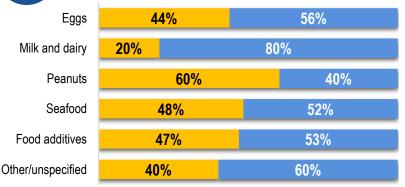
Description

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |



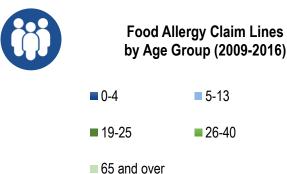
Ś

Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

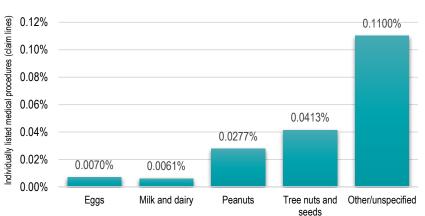
14-18



Vermont Overview

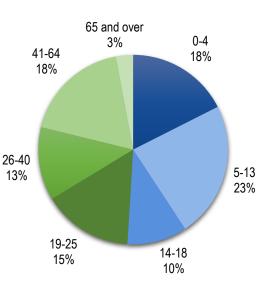


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)

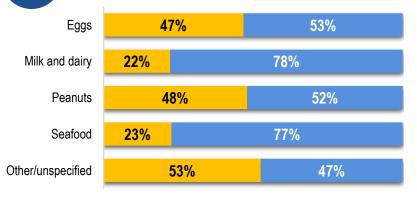


| Category | Description | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products: other adverse food reactions, not elsewhere <u>classified</u> | |

| Category | Description | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs | |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products | |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts | |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified | |

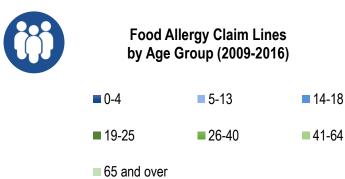


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis

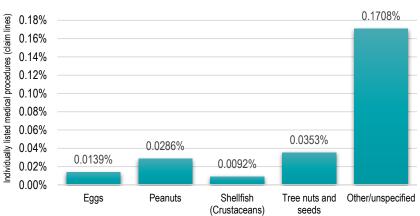




Virginia Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere classified | |



Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

| Eggs | <mark>19%</mark> | 81% | |
|-------------------|------------------|-----|--|
| Milk and dairy | <mark>8%</mark> | 92% | |
| Peanuts | 18% | 82% | |
| Seafood | 16% | 84% | |
| Food additives | 14% | 86% | |
| Other/unspecified | 24% | 76% | |

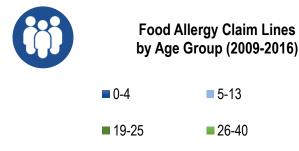
Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

Claims with anaphylaxis diagnosis

5-13

26-40

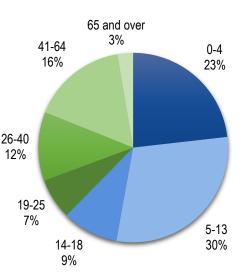
Claims with a history of food allergy diagnosis



65 and over

Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs | |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products | |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts | |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified | |



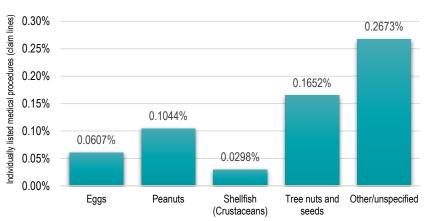
14-18



Washington Overview



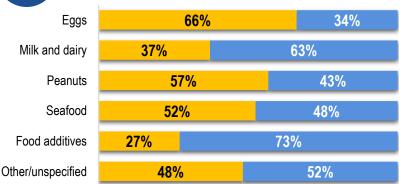
Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> |

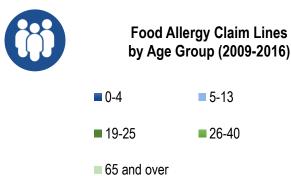


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



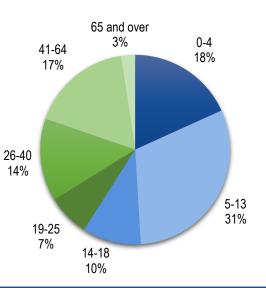
Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs | |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products | |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts | |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified | |



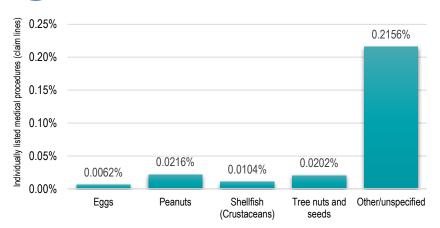
14-18



West Virginia Overview



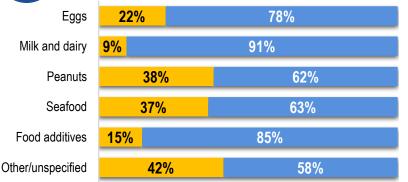
Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> | |

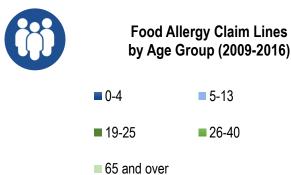


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



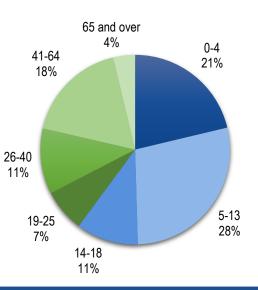
Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

| Category | Description | | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs | | |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products | | |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts | | |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) | | |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives | | |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified | | |



www.foodallergy.org

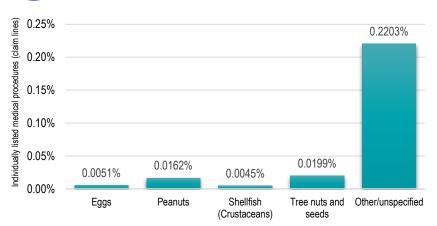
14-18



Wisconsin Overview



Top Five Foods That Cause Anaphylactic Reactions (2009-2016)



| Category | Description | |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--|
| Eggs | Anaphylactic reaction to eggs | |
| Fish | Anaphylactic reaction to fish (not crustaceans) | |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables | |
| Milk and dairy | Anaphylactic reaction to milk and dairy products | |
| Peanuts | Anaphylactic reaction to peanuts | |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) | |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds | |
| Food additives | Anaphylactic reaction to food additives | |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere <u>classified</u> | |

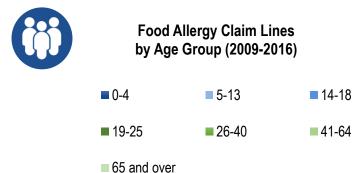


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)

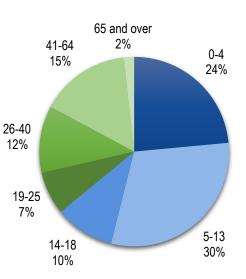
| Eggs | 12% 88% | | |
|-------------------|------------------|-----|--|
| Milk and dairy | <mark>6%</mark> | 94% | |
| Peanuts | <mark>12%</mark> | 88% | |
| Seafood | 17% | 83% | |
| Food additives | 22% | 78% | |
| Other/unspecified | 35% | 65% | |

Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



| Catanam | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Category | Description |
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

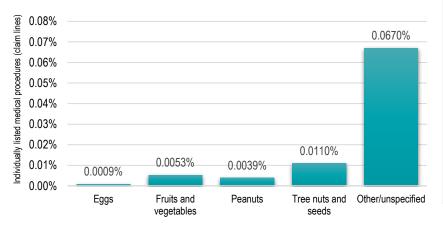




Wyoming Overview

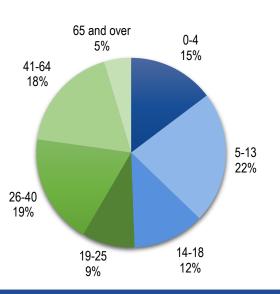


Top Five Foods That Cause Anaphylactic Reactions (2009-2016)

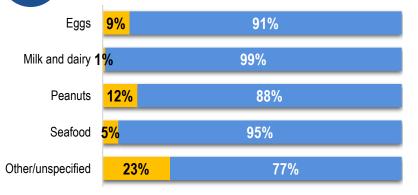


| Category | Description |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Anaphylactic reaction to eggs |
| Fish | Anaphylactic reaction to fish (not crustaceans) |
| Fruits and vegetables | Anaphylactic reaction to fruits and vegetables |
| Milk and dairy | Anaphylactic reaction to milk and dairy products |
| Peanuts | Anaphylactic reaction to peanuts |
| Shellfish (Crustaceans) | Anaphylactic reaction to shellfish (crustaceans) |
| Tree nuts and seeds | Anaphylactic reaction to tree nuts and seeds |
| Food additives | Anaphylactic reaction to food additives |
| Other/ unspecified | Anaphylactic reaction to <u>unspecified food or other food</u> products; other adverse food reactions, not elsewhere classified |

| Category | Description |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eggs | Allergy to eggs; Anaphylactic reaction to eggs |
| Milk and dairy | Allergy to milk products; Anaphylactic reaction to milk and dairy products |
| Peanuts | Allergy to peanuts; Anaphylactic reaction to peanuts |
| Seafood | Allergy to seafood; Anaphylactic reaction to fish or shellfish (crustaceans) |
| Food additives | Food additives allergy status; Anaphylactic reaction to food additives |
| Other/ unspecified | Allergy to other foods; Anaphylactic reaction due to fruits and vegetables; tree nuts and seeds; unspecified food, other food products; other adverse food reactions, not elsewhere classified |

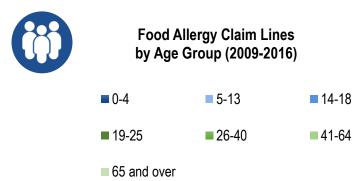


Food Allergy Groups Resulting in Anaphylaxis (2009-2016)



Claim lines for anaphylaxis as a proportion of all claim lines for allergy to that food

- Claims with anaphylaxis diagnosis
- Claims with a history of food allergy diagnosis



Research based upon healthcare data compiled and maintained by FAIR Health, Inc. Data copyright © 2018, FAIR Health, Inc. All rights reserved. Used by permission.

www.foodallergy.org