

ENVIRONMENTAL HEALTH UPDATES

Pertussis Whooping Cough



What causes this disease?

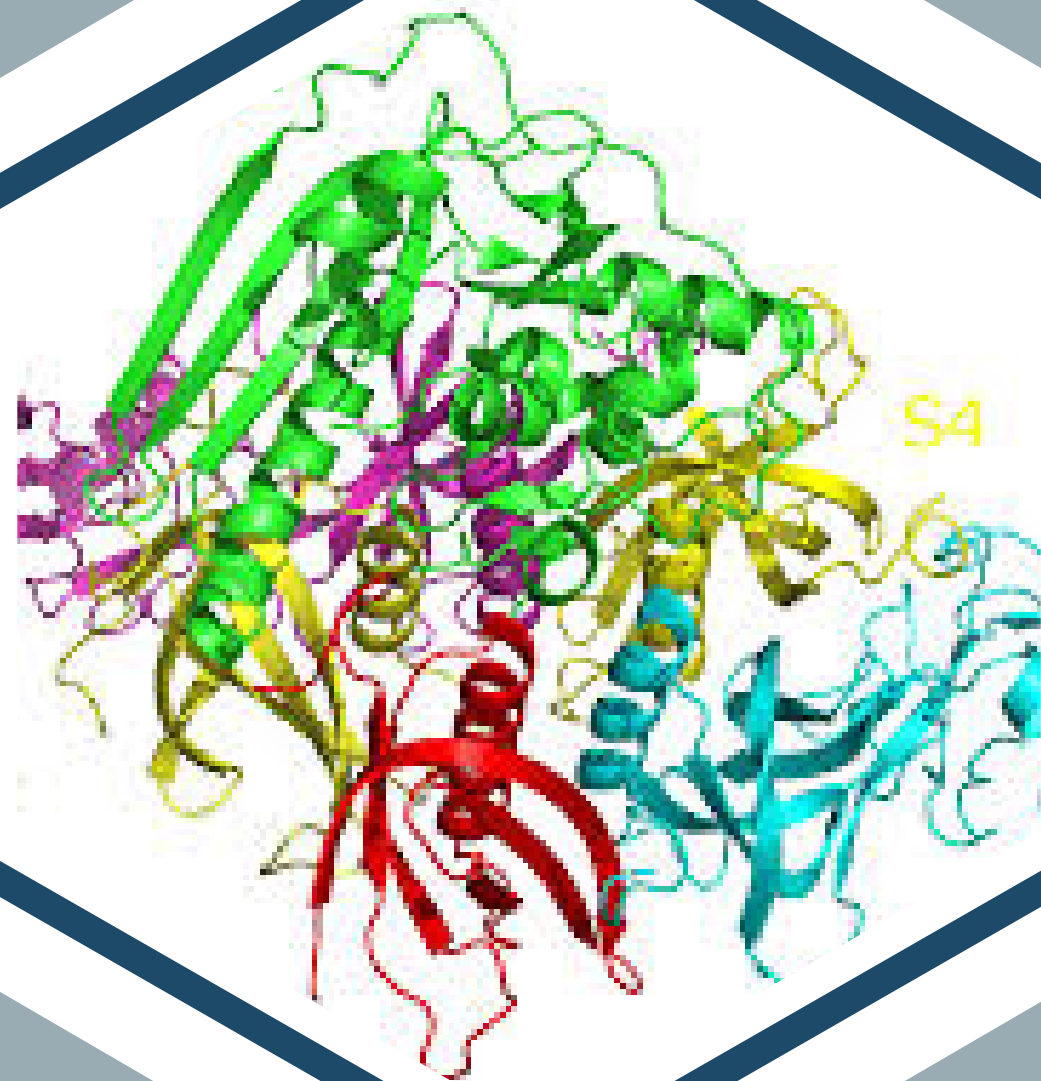
- Bordetella pertussis

How is it spread?

- Through the air via small particles from sneezing or coughing

Contagious Period

- From the start of symptoms
- For at least 2 weeks after coughing begins



Pertussis Whooping Cough



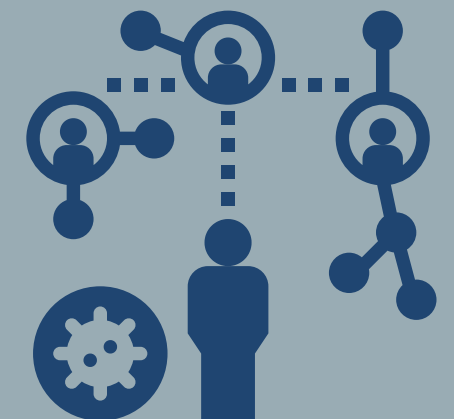
Treatment



Prevention



Outbreaks



Pertussis 2024 Trends



Nebraska Data since January 1 2024

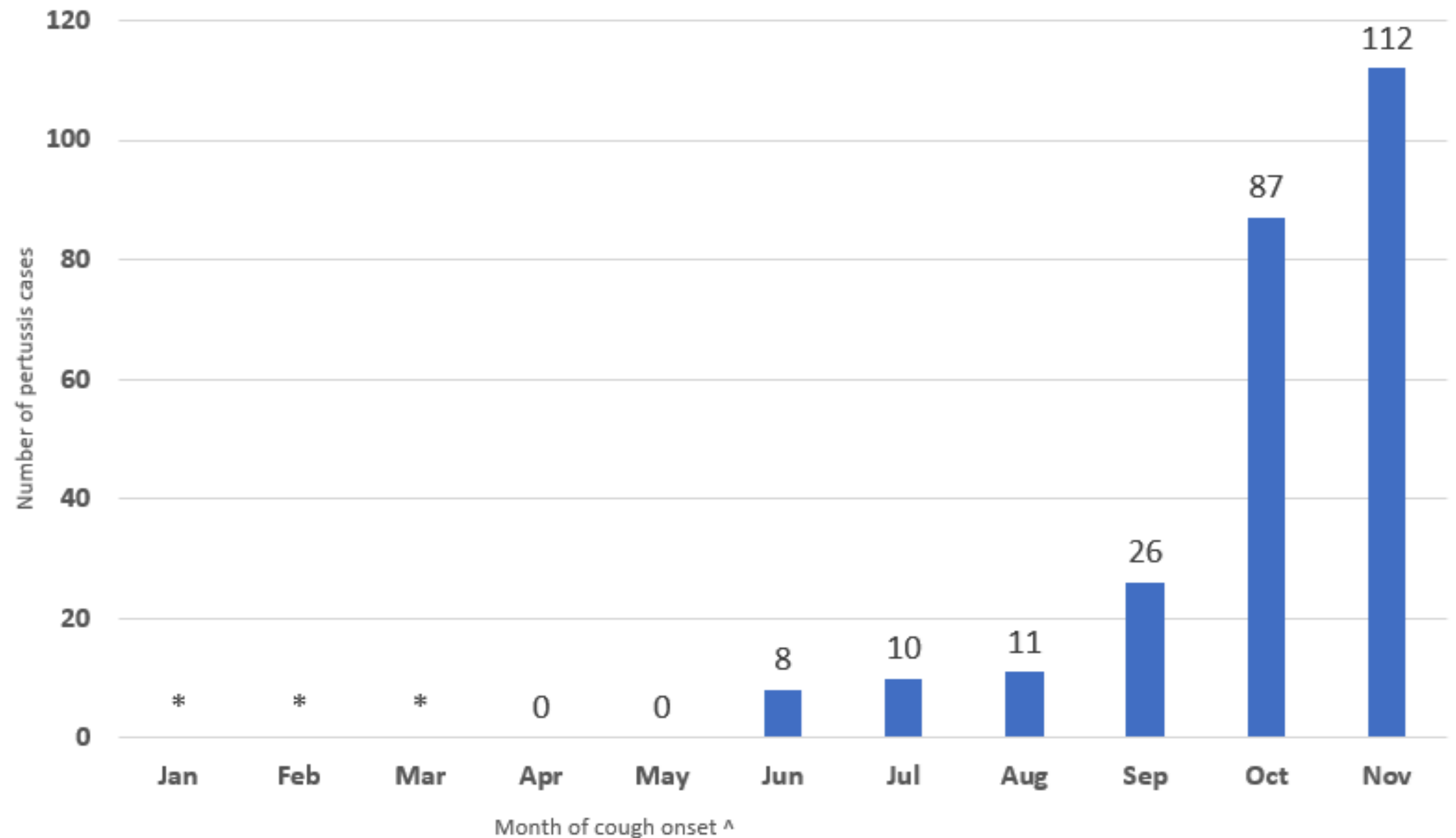
298

Confirmed/Probable cases

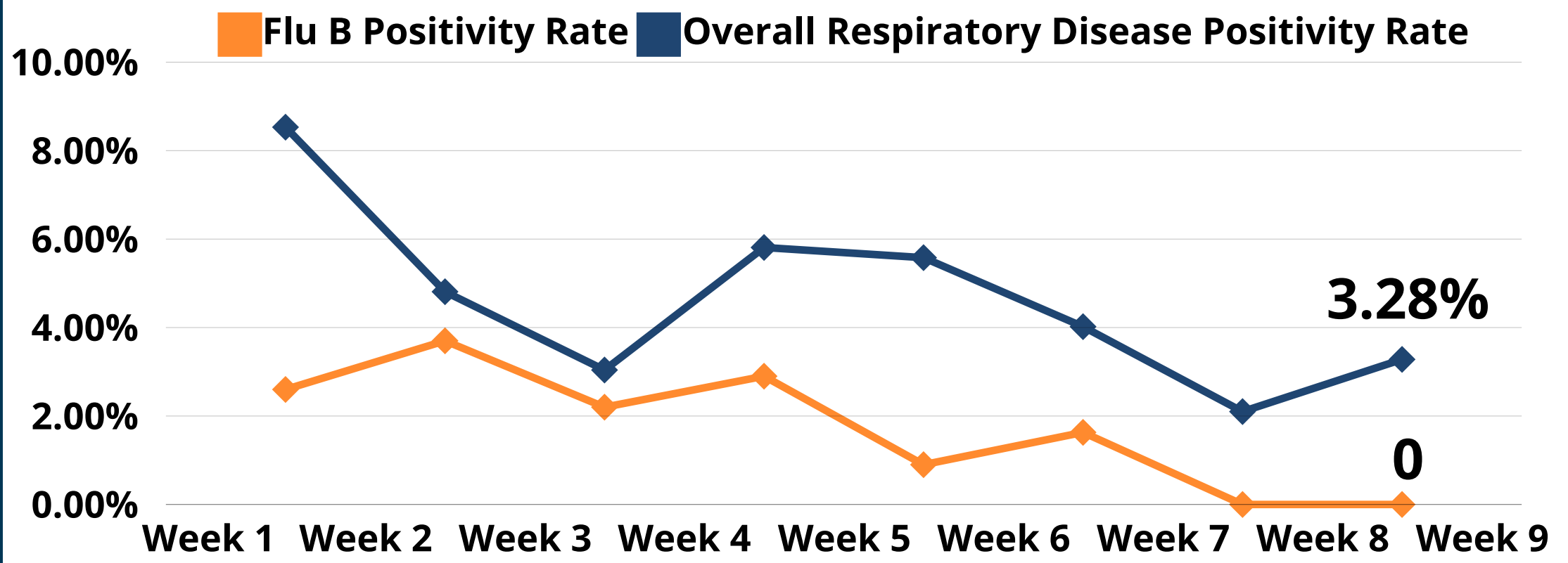
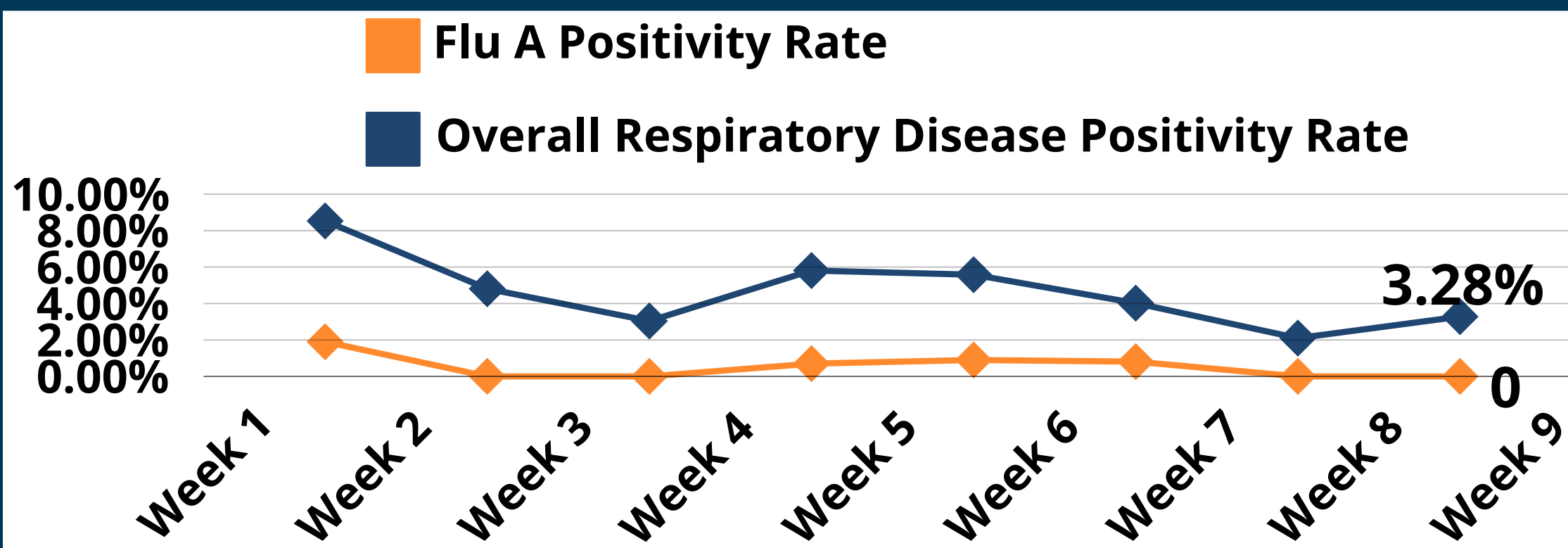
13

TRPHD Cases

The Number of Confirmed and Probable Pertussis Cases by Month, 2024, Nebraska



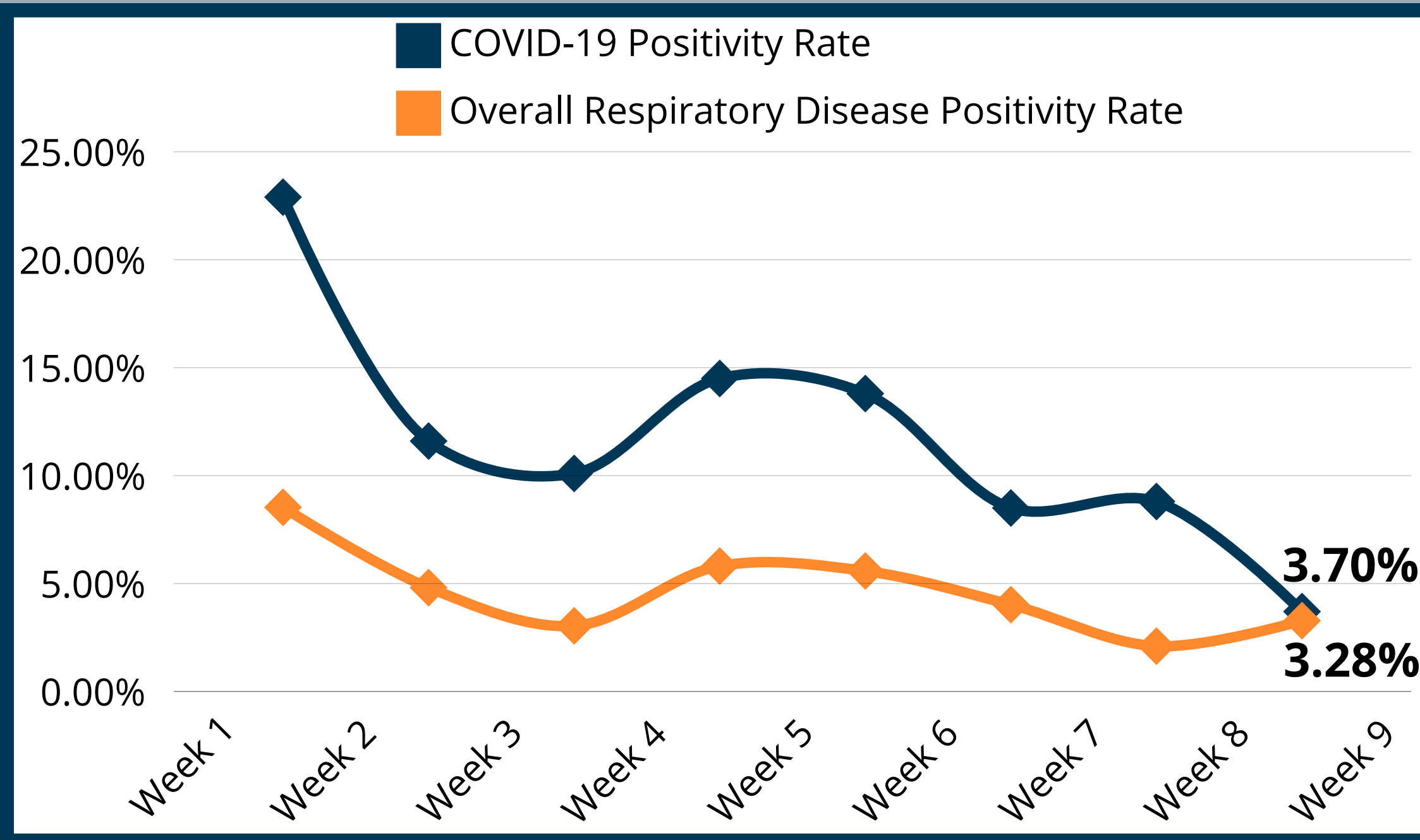
2024-2025 Influenza



✔ Influenza rates remain low so far this year.

✔ No new influenza cases detected in the last two weeks.

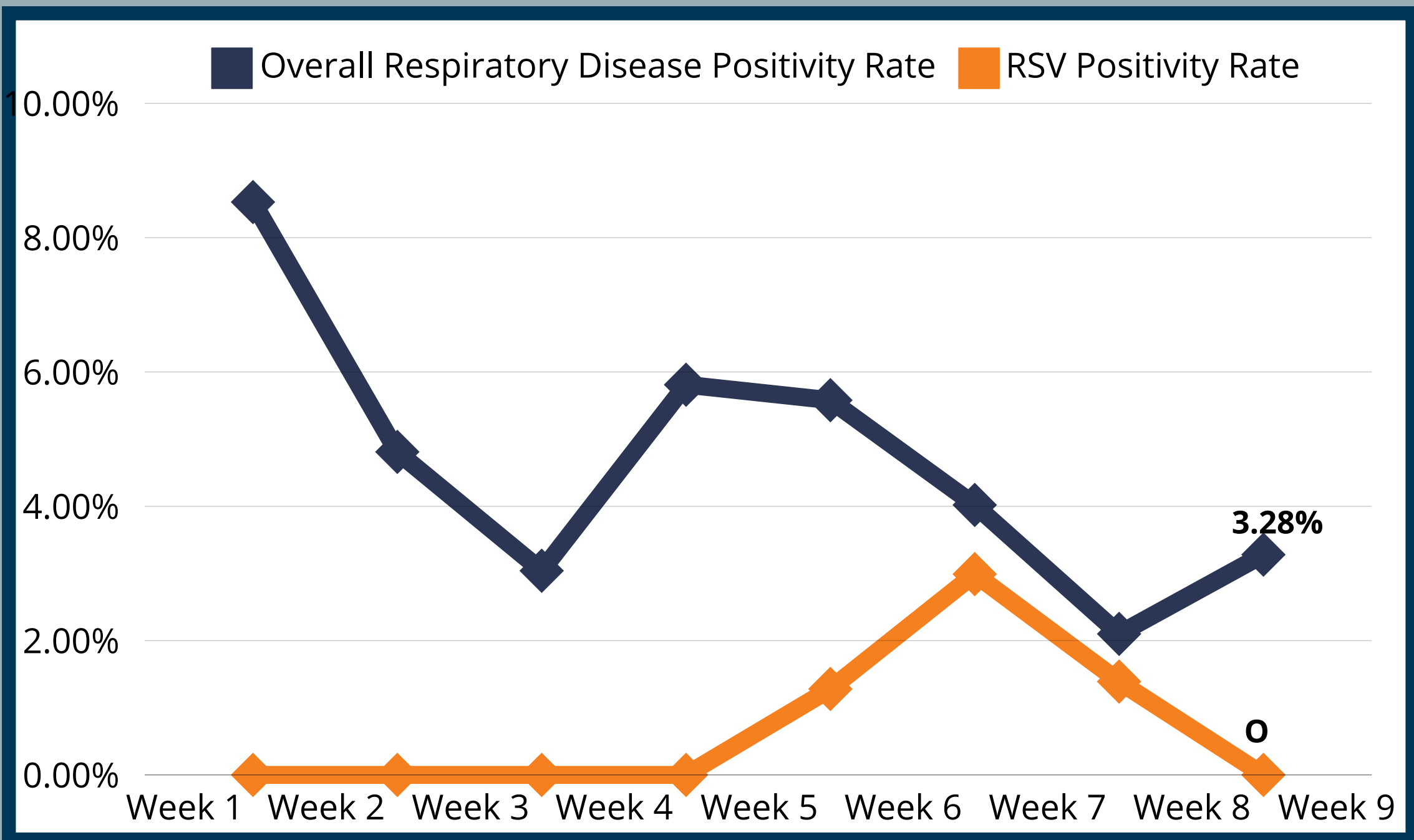
2024-2025 Covid



✔ Covid rates in TRPHD have stayed low- test positivity rates falling below 5% for the first time this season.

✔ Total weekly COVID cases are now about 10% of those in the same week in 2023.

2024-2025 RSV



✓ RSV rates are low across TRPHD this season. No new cases were detected in the week of November 16 - 23.

Food Poisoning vs Foodborne Illness



Foodborne Illnesses

- All illnesses from any contaminated food or beverage.

Food Poisoning

- Illness specifically from a toxin in food.
- Food poisoning is a type of foodborne illness.

Top 5 foodborne germs causing:



Illness

1. Norovirus
2. Salmonella (non-typhoidal)
3. Clostridium perfringens
4. Campylobacter
5. Staphylococcus aureus

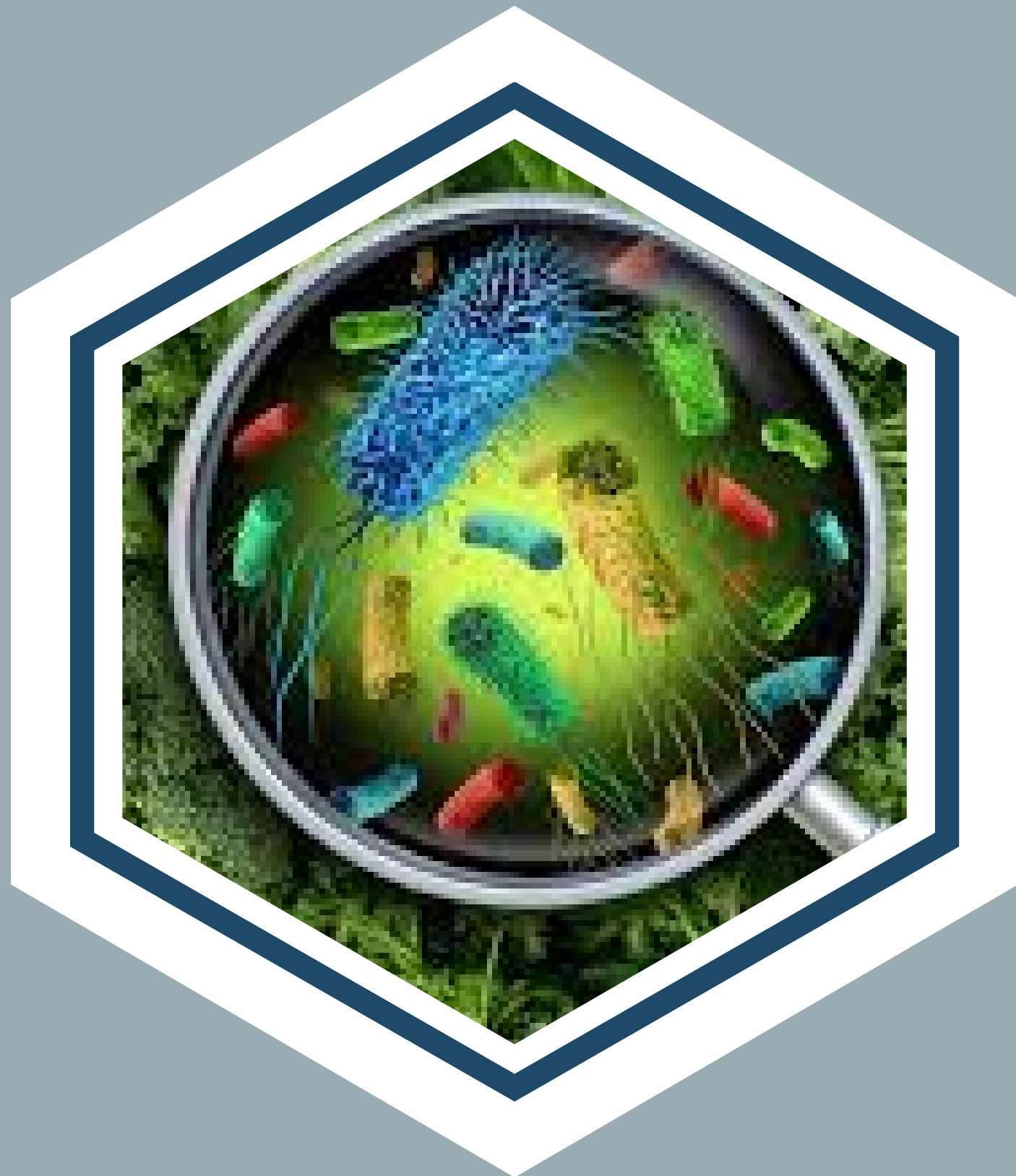
Hospitalization

1. Salmonella (non-typhoidal)
2. Norovirus.
3. Campylobacter.
4. Toxoplasma gondii.
5. E. coli O157

Deaths

1. Salmonella (non-typhoidal)
2. Toxoplasma gondii
3. Listeria monocytogenes
4. Norovirus
5. Campylobacter

Foodborne Illness



Preventing Food Poisoning:

- Clean
- Separate
- Cook
- Chill

Types of Foodborne Illness within TRPHD

Parasites

Toxoplasmosis

Tapeworm

Chinese Liver Fluke

Virus

Hepatitis A

Bacteria

Listeria

Brucella

Cholera

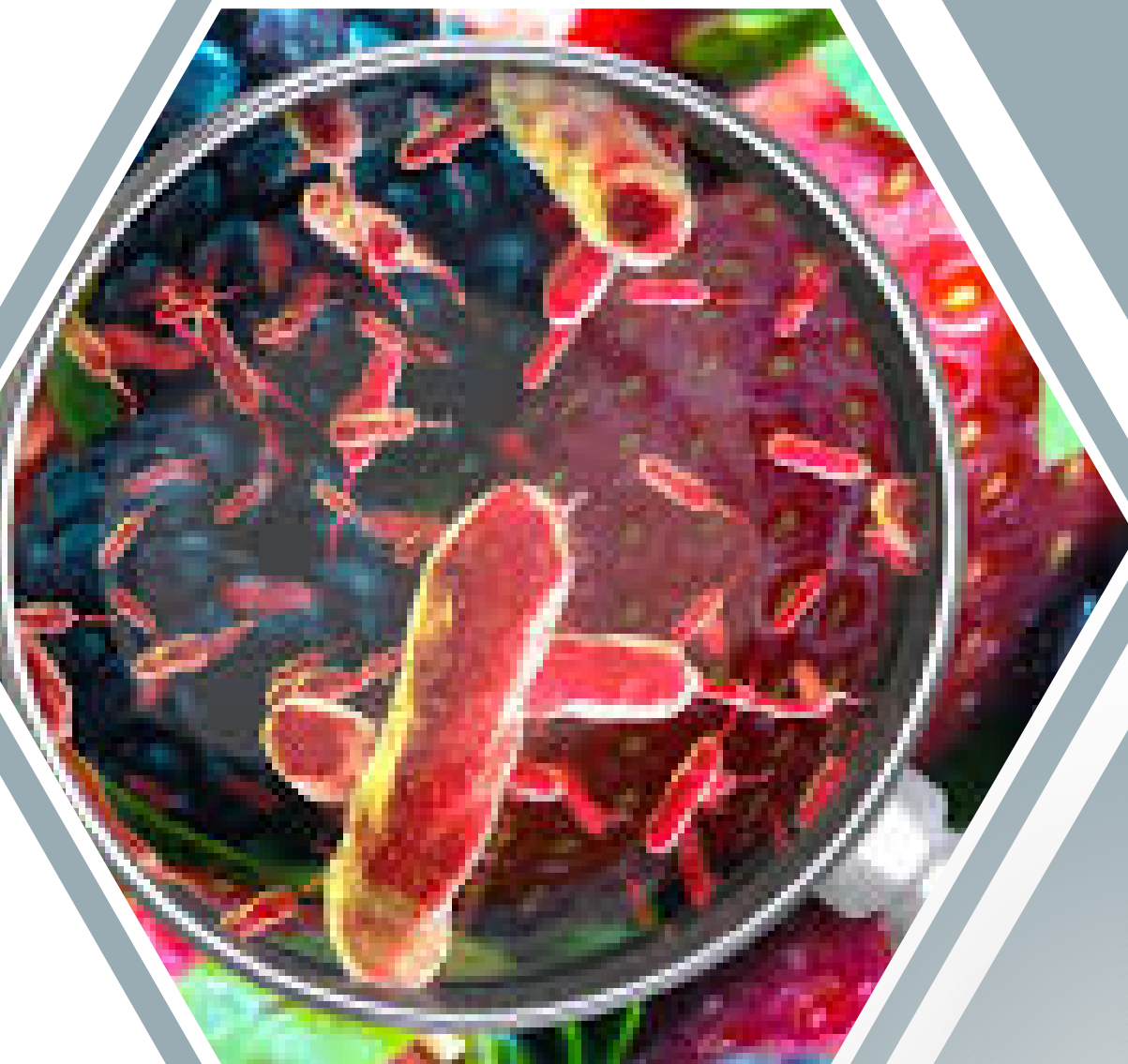
E Coli

Salmonella

Chemicals/Toxins

Aflatoxin

Cyanide



Foodborne Illness Facts



CDC estimates that each year:

- ~1 in 6 Americans (or 48 million people) gets sick
- 128,000 are hospitalized
- 3,000 die of foodborne diseases.

31 pathogens known to cause foodborne illness

Foodborne Illness

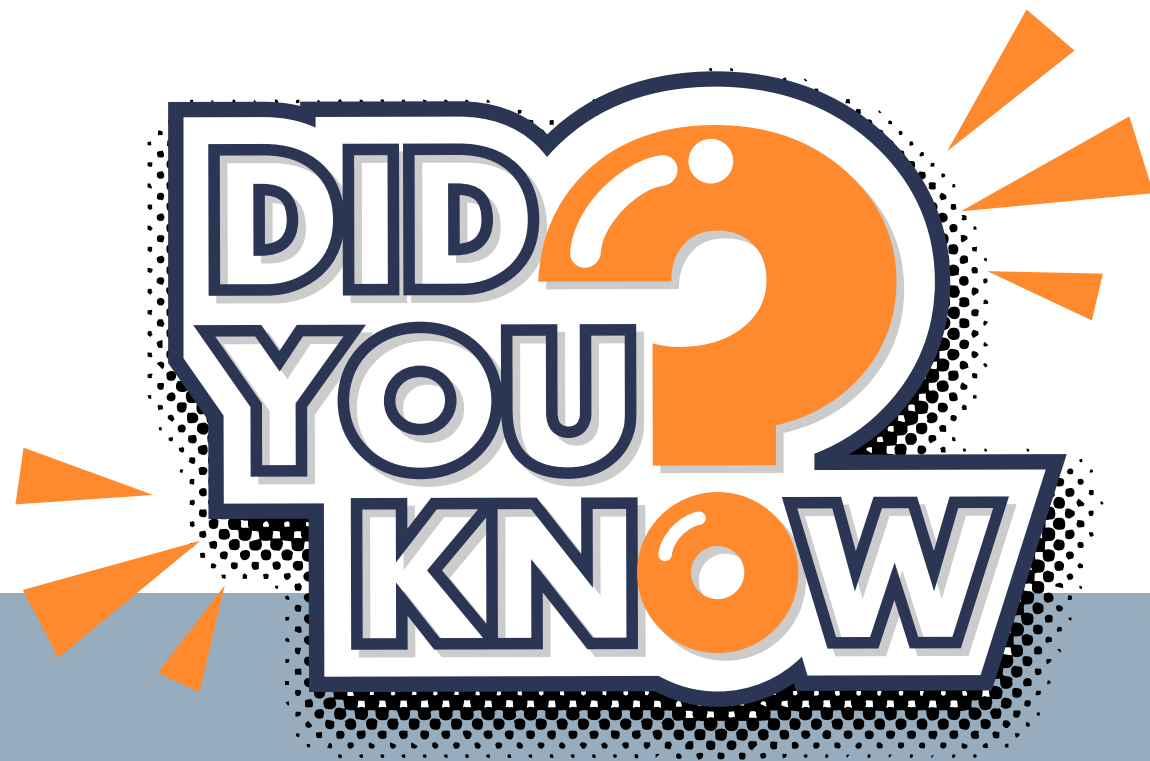


Leading causes of food recalls

- **Bacterial contamination:**
Responsible for 21.1% of all cases
- **Foreign object contamination:**
Responsible for 11.6% of all cases

Number of Food Recalls

- **2020–2023:** increased from 454 to 547, more than a 20% increase
 - **2022:** 423
 - **2023:** 313
 - **2024:** projected to be roughly the same as 2023





**THANK
YOU**