How to Make a Case Map for Outbreak Investigations

Partners in Health

Starting Template





Fully vaccinated contact (date of exposure)



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> Partially vaccinated case (date of symptom onset or sample collection)

Fully vaccinated case (date of symptom onset or sample collection)

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Event box



- **1. Symptomatic cases** are mapped on the day they develop symptoms.
- 2. Asymptomatic cases are mapped on the day they are tested.
- **3. Symptomatic contacts** are mapped on the day they develop symptoms.
- 4. Asymptomatic contacts are mapped on their last day of exposure.



Symptomatic contacts (date of onset of symptoms)



 1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18





Asymptomatic contacts (date of exposure)

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Symptomatic contacts (date of onset of symptoms)



This map says:

- 1. Case 1 developed symptoms on day 3 and exposed case 2 on day 3.
- 2. Case 2 never developed symptoms but tested positive on day 7.
- 3. Case 2 exposed case 3 on day 7.
- 4. Case 3 developed symptoms on day 10.
- 5. The household contacts of case 3 were last exposed on day 15 and have not developed symptoms.

14 15 16 18 3 8 9 10 12 13 Δ 5 6 11 17



- 3. Employee and case 2 last worked at the bar on day 8 and developed symptoms on day 10.
- 4. Employee 2 has 2 household contacts who were last expose on Day 15 but have not developed symptoms.











2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Summary

- Each box should have its own horizontal space
- Vertical lines represent exposure dates
- Horizontal lines represent transmission events
- Relationships can be explained through brackets and free text
- Contact boxes do not indicate test results: green contact boxes stand for negative test results or not yet tested; they only indicate symptoms if present
- Exposures over time can be represented through 'event' boxes
- Calendar days help to show cluster growth over time
- Cluster maps can help to visually explain transmission events or risky behaviors
- Animations can help explain a complex series of exposures.
- Summary slides and lessons learned help to reinforce the message