

Isolation & Quarantine Tabletop Exercise

Schenectady County
June 8, 2006

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Quarantine Pop Quiz: True or False?

- | | |
|--|--------------|
| 1) Requires 100% compliance to be effective | FALSE |
| 2) Always means using a legal order to restrict someone's activity | FALSE |
| 3) Must be mandatory to be effective | FALSE |
| 4) Increases a person's risk for acquiring the disease | FALSE |
| 5) Not necessary if everyone who develops symptoms is rapidly placed in isolation | FALSE |
| 6) Public will not accept it | FALSE |

We'll be successful if we:

- Practice decision-making to implement the guidelines for isolation/quarantine for multiple households / individuals during an outbreak of highly infectious influenza.
- Identify key issues/concerns for subsequent planning, training or other follow-up

Definitions

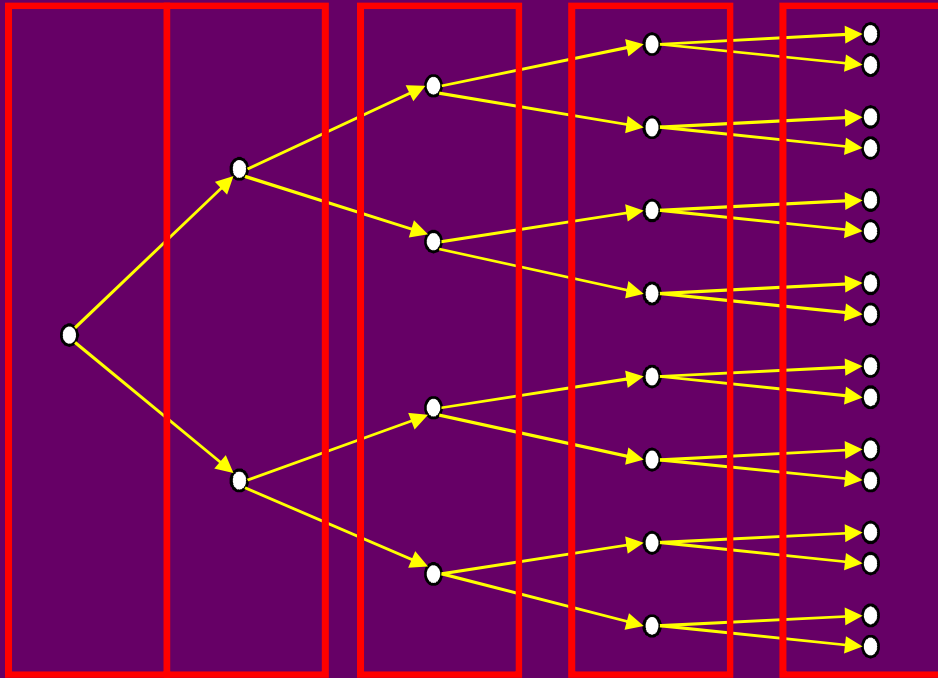
- ***Isolation***
 - **Separation of ill persons with infectious diseases**
 - Often, but not always, in a hospital setting
 - May be applied to individuals, cohorts, populations
- ***Quarantine***
 - **Restriction of persons who are not ill but presumed exposed**
 - Usually in the home or a designated facility
 - Applied at the individual, group, or community level

Isolation/Quarantine Today

- Often used for individual tuberculosis (TB) cases
- SARS outbreak: >15,000 instructed to remain in voluntary quarantine in Toronto
 - Not seen in North America for >50 years
- New pandemic influenza plans include isolation/quarantine extensively

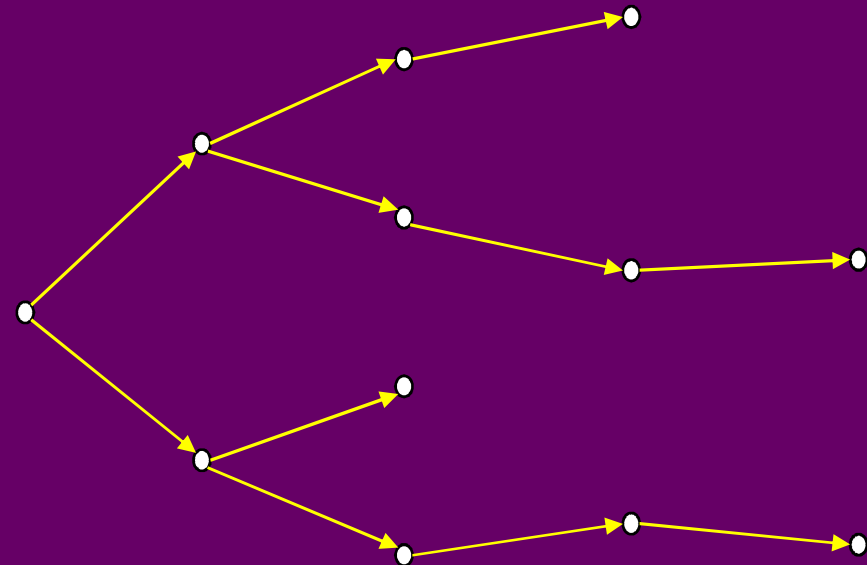
Effect of Increasing Social Distance on Epidemic Dynamics

Exponentiation



$R_0 = 2.0$,
Progression = 1:2:4:8:16

Suppression



$R_0 = 0.67$,
Progression = 1:2:4:3:2

Isolation & Quarantine Potential

- **Stop/slow spread of the disease**
- **Fail** due to lack of coordination and legal issues
- **Abuse:** discriminatory and/or unnecessary application
- “The history of invoking quarantine measures is tarnished by threats, generalized fear, lack of understanding, discrimination, economic hardships, and rebellion.” Hawryluck et al, 2004.

Disease Control Measures

- Education
- Elimination of source
- Chemoprophylaxis (medication)
- Vaccination
- Isolation and quarantine

Understanding Isolation/Quarantine Powers

1. Types of restrictions authorized
2. Legal standards for triggering powers
3. Procedures (orders, appeals, etc.)
4. State vs. local jurisdiction/coordination
5. Enforcement
6. How powers work operationally in an emergency

Assume...

- It's happening today
- In Schenectady County
- In your facility

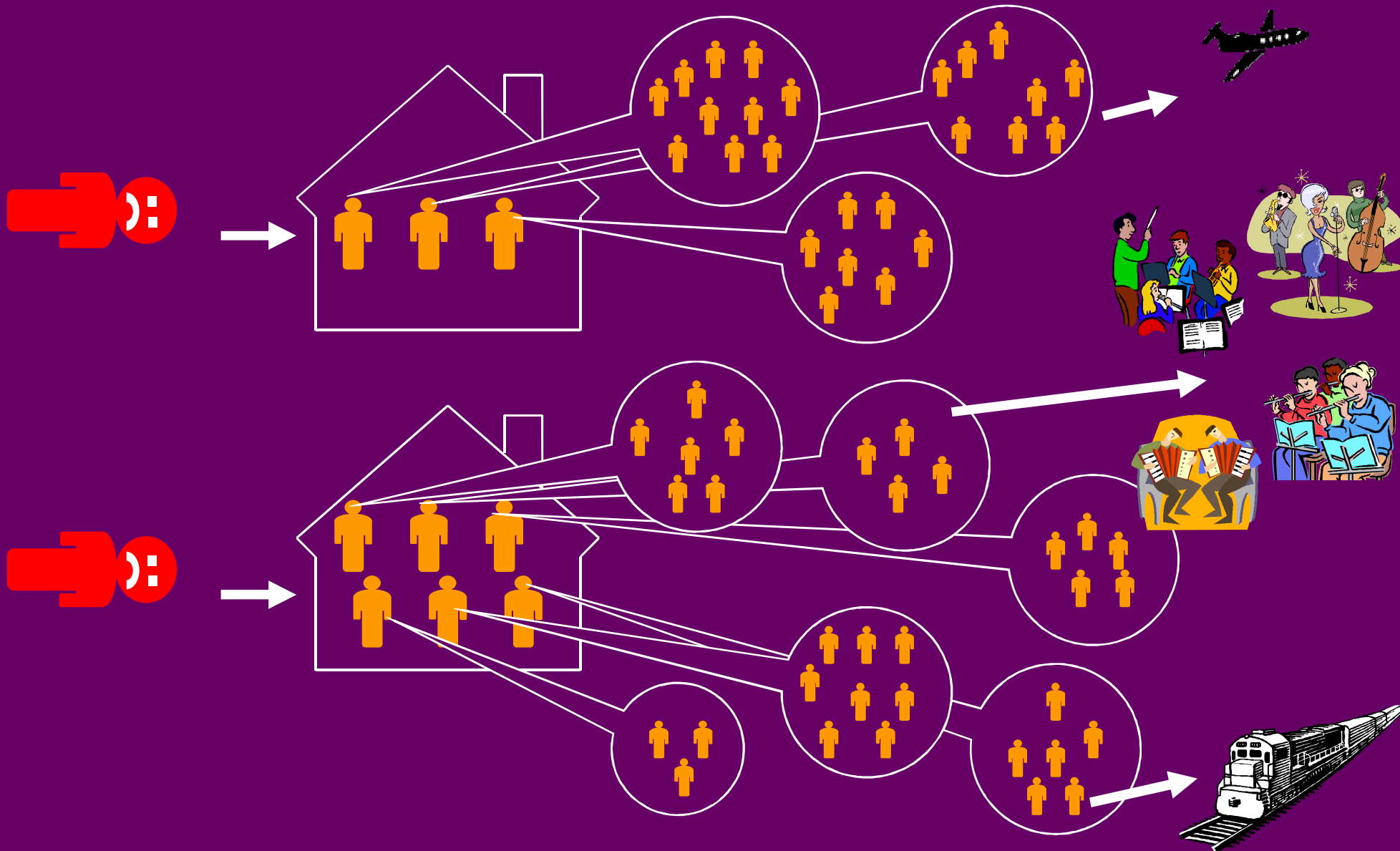
Scenario

Hospital

Household
Contacts

Incidental
Contacts

Potential
Contacts



Responding to Outbreaks

- 1. Verify the diagnosis**
- 2. Confirm the existence of an outbreak**
- 3. Identify affected persons and their characteristics**
 1. Record case histories
 2. Identify additional cases
- 4. Define and investigate population at risk**
- 5. Formulate a hypothesis as to source and spread of the outbreak**
- 6. Contain the outbreak**
 1. Manage cases
 2. Implement control measures to prevent spread
 3. Conduct ongoing disease surveillance
 4. Prepare a report

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Contact Information

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