

## Case Study Influenza Outbreak

You are the infection preventionist for Happy Meadows Nursing Home, an 80 bed facility with a current census of 64. There is a short-term rehab hall with 10 private rooms with private bathrooms (8 currently occupied). The remaining halls are for long-term residents and are semi-private with shared Jack/Jill bathrooms. At your annual flu vaccination clinic last month 88% of residents and 45% of employees were vaccinated against flu.

Two days ago, a long-term B Hall resident, Mr Green, was hospitalized with acute respiratory symptoms and diagnosed with influenza A. Today, the following people are also symptomatic:

### **B Hall Residents:**

- B Hall resident: Mr Jones is the roommate of Mr Green and is experiencing a fever and cough. His rapid flu test was positive for Influenza A.
- B Hall resident: Ms Alvarez has a cough but is afebrile, positive rapid test. She uses a CPAP at night at baseline. Today her doctor also prescribed nebulizers for her cough. She has a roommate who is asymptomatic.
- B Hall resident: Mr Roberts is experiencing a cough and low grade fever, but tested negative by rapid test. His roommate is asymptomatic.

### **Employees**

- Nurse: Called in from work last night with cough and body aches, last worked 2 days ago on B Hall
- Housekeeper: Was sent home today during her shift when she developed a fever and had a positive rapid test. She had worked on B hall the prior two days, but was working on C Hall today before she was sent home.

### **Recommendations:**

- Quarantine/Isolation
  - Relocate to private rooms
  - Isolate all symptomatic residents
  - Quarantine B hall
- IPC Precautions
  - Respiratory hygiene
  - Droplet precautions
  - AGP precautions: wear if appropriate, respirators for staff, close door while administering, assess airflow/HVAC, relocate roommate
- Treatment/Prophylaxis
  - Treat symptomatic residents
  - PEP for B hall residents
  - Consider PEP
- Staffing/Employee Health
  - Flu vaccine clinics
  - Return to work after minimum 5 days, no fever